



Rijksdienst voor Ondernemend
Nederland

Nederland

De industriële eigendom

Inleiding

Hoofdblad

Het Blad de Industriële Eigendom verschijnt op de derde werkdag van een week. Indien Octrooicentrum Nederland op deze dag is gesloten, wordt de verschijningsdag van het blad verschoven naar de eerstvolgende werkdag, waarop Octrooicentrum Nederland is geopend. Het blad verschijnt alleen in elektronische vorm. Elk nummer van het blad bestaat uit 14 rubrieken.

Bijblad

Verschijnt vier keer per jaar (januari, april, juli, oktober) in elektronische vorm via www.rvo.nl/octrooien. Het Bijblad bevat officiële mededelingen en andere wetenswaardigheden waarmee Octrooicentrum Nederland en zijn klanten te maken hebben.

Abonnementsprijzen per (kalender)jaar:

Hoofdblad en Bijblad: verschijnt gratis in elektronische vorm op de website van Octrooicentrum Nederland.

Bezoekadres: **Octrooicentrum Nederland**

Prinses Beatrixlaan 2

2595 AL Den Haag

Postadres

Postbus 10366

2501 HJ Den Haag

Telefoon: 088-0426656

Bankrekeningnummer:

Voor taksen en depotrekeningen:

ING 0705001296

Iban: NL41INGB070500129

BIC: INGBNL2A

Introduction

Patent Bulletin

The Patent Bulletin appears on the 3rd working day of each week. If the Netherlands Patent Office is closed to the public on the above mentioned day, the date of issue of the Bulletin is the first working day thereafter, on which the Office is open. Each issue of the Bulletin consists of 14 headings.

Official Journal

Appears four times a year (January, April, July, October) in electronic form on the www.rvo.nl/octrooien. The Official Journal contains announcements and other things worth knowing for the benefit of the Netherlands Patent Office and its customers.

Subscription rates per calendar year:

Patent Bulletin and Official Journal: free of charge in electronic form on the website of the Netherlands Patent Office.

Visiting address: **Netherlands Patent Office**

Prinses Beatrixlaan 2

2595 AL Den Haag

Postadress

Post Office Box: 10366

2501 HJ Den Haag

Telephone: +31(0)88 0426656

Account:

Fees, deposit accounts:

ING 0705001296

Iban: NL41INGB070500129

BIC: INGBNL2A

Inhoudsopgave	Blz. Content	Page
Rubriek NP1 Bevat gegevens betreffende octrooiaanvragen die zijn ingeschreven op grond van de Octrooiwet 1995.	8 Heading NP1 Contains data concerning Netherlands patent applications which have been entered in the patent register under the Patents Act 1995.	8
Rubriek NP2 Bevat gegevens betreffende ingeschreven en verleende octrooien op grond van de Octrooiwet 1995.	10 Heading NP2 Contains data concerning Netherlands patents which have been entered in the patent register under the Patents Act 1995.	10
Rubriek NP3 Bevat gegevens betreffende Nederlandse octrooien na gedeeltelijke afstand conform artikel 63 van de Octrooiwet 1995.	12 Heading NP3 Contains data concerning Netherlands patents after partial renunciation confirm Article 63 of the Patents Act 1995.	12
Rubriek EP1 Bevat gegevens betreffende vertaalde conclusies van Europese octrooiaanvragen.	13 Heading EP1 Contains data concerning translations of the conclusions of European patent applications.	13
Rubriek EP2 Bevat gegevens betreffende voor Nederland verleende Europese octrooien.	14 Heading EP2 Contains data concerning European patents granted for The Netherlands.	14
Rubriek EP3 Bevat gegevens betreffende voor Nederland verleende Europese octrooien waarvoor een vertaling is ingediend conform artikel 52 lid 1 of 6 van de Octrooiwet 1995.	308 Heading EP3 Contains data concerning European patents granted for The Netherlands in which a translation was filed confirm Article 52 par. 1 or 6 of the Patents Act 1995.	308
Rubriek EP4 Bevat gegevens betreffende voor Nederland verleende gewijzigde Europese octrooien.	338 Heading EP4 Contains data concerning European patents granted in amended form for the Netherlands.	338
Rubriek EP5 Bevat gegevens betreffende voor Nederland verleende gewijzigde	340 Heading EP5 Contains data concerning European patents granted in amended form for	340

Europese octrooien waarvoor een gewijzigde vertaling is ingediend.	The Netherlands in which an amended translation was filed.	
Rubriek SPC Bevat gegevens betreffende ingeschreven en verleende certificaten	342Heading SPC Contains data concerning applications for- or granted Supplementary Protection Certificates.	342
Rubriek VB1 Bevat gegevens betreffende rechten waarvoor een verzoek of bezwaarschrift is ingediend conform de Octrooiwet 1995.	343Heading VB1 Contains data concerning requests and notices of opposition under the General administrative law.	343
Rubriek VB2 Bevat gegevens betreffende rechten waarin een beslissing is genomen of waarvoor een nieuwheidsrapport is uitgegaan op een verzoek- of bezwaarschrift conform de Octrooiwet 1995.	344Heading VB2 Contains data concerning requests and notices of opposition under the General administrative law in respect of which a decision has been taken or in respect for which a report has been made.	344
Rubriek MED Bevat gegevens betreffende overige mededelingen.	345Heading MED Contains data concerning other communications.	345
Rubriek VRV Bevat gegevens betreffende verval of nietigverklaring.	346Heading VRV Contains data concerning lapse or annulment.	346
Rubriek VRB Bevat gegevens betreffende verbeteringen op eerdere publicaties.	368Heading VRB Contains data concerning corrections on earlier publications.	368
Rubriek CO Bevat gegevens betreffende wijzigingen in het octrooiregister.	369Heading CO Contains data concerning changes in the Netherland patent register.	369
Rubriek TVH Bevat gegevens betreffende topografieën van halfgeleiderproducten.	370Heading TVH Contains data concerning depots of original topographies of semi-conductor products.	370

Rubriek UP1 Bevat gegevens over Europese octrooien met geregistreerde eenheidswerking.	371Heading UP1 Contains data concerning European patents with registered Unitary Effect.	371
Rubriek UP2 Bevat gegevens over Europese octrooien met geregistreerd verzoek ex. artikel 52a (herstel recht op validatie).	375Heading UP2 Contains data concerning European patents with registered request ex article 52a (restoration of validation right).	375
Rubriek UP3 Bevat gegevens over Europese octrooien met geaccepteerd verzoek ex. artikel 52a (herstel recht op validatie) en complete validatie.	376Heading UP3 Contains data concerning European patents with accepted ex article 52a (restoration of validation right) and validation completed.	376
Rubriek UP4 Bevat gegevens over Europese octrooien met geaccepteerd verzoek ex. artikel 52a (herstel recht op validatie) en geen complete validatie.	377Heading UP4 Contains data concerning European patents with accepted request ex article 52a (restoration of validation right) and incomplete validation.	377
Rubriek UP5 Bevat gegevens over Europese octrooien met afgewezen verzoek ex. artikel 52a (herstel recht op validatie).	378Heading UP5 Contains data concerning European patents with rejected request ex article 52a (restoration of validation right).	378
Rubriek UP6 Bevat gegevens over Europese octrooien met ingetrokken verzoek ex. artikel 52a (herstel recht op validatie).	379Heading UP6 Contains data concerning European patents with withdrawn request ex article 52a (restoration of validation right).	379

Overzicht van Inid codes

INID CODES

Inid codes worden gebruikt op de voorpagina van octrooigeschriften en in octrooibulletins. Ze dienen om de verschillende bibliografische gegevens te kunnen begrijpen zonder kennis te hebben van de taal. INID is een acronym van Internationally agreed Numbers for Identification of Data. De definities van INID codes wordt gegeven in de WIPO standaard ST. 9.

- (11) Octrooinummer
- (13) Soort document volgens WIPO standaard 16
- (15) Correctie informatie
- (21) Octrooiaanvraagnummer
- (22) Datum van indiening
- (23) Datum tentoonstelling
- (25) Taal van indiening
- (26) Taal waarin de aanvraag is gepubliceerd
- (30) Voorrangsgegevens
- (31) Nummer voorrang
- (32) Datum voorrang
- (33) Land van herkomst voorrang
- (34) Oorspronkelijk land van indiening
- (40) Datum van inschrijving
- (41) Datum van inschrijving van een octrooiaanvraag
- (42) Datum van inschrijving van een onderzochte aanvraag (openbaarmaking)
- (43) Datum waarop de aanvraag ter inzage is gelegd

INID CODES

"INID" Codes are used on the front pages of patent documents and in official gazettes to identify various bibliographic data items without knowledge of the language used and the industrial property laws applied. "INID" is an acronym for "Internationally agreed Numbers for the Identification of Data". The INID Codes are usually given in parenthesis adjacent to the appropriate bibliographic data item. The definitions of the INID Codes are given in WIPO Standard ST. 9 (as of November 1998) and are listed below:

- (11) Patent number
- (13) Kind of document code according to WIPO standard ST.16
- (15) Patent correction information
- (21) Application number
- (22) Date(s) of filing application(s)
- (23) Date of exhibition
- (25) Language in which the published application was originally filed
- (26) Language in which the application is published
- (30) Priority Data
- (31) Number(s) assigned to priority application(s)
- (32) Date(s) of filling of priority application(s)
- (33) WIPO Standard ST.3 Code indentifying the national patent office allotting the priority application number or the organization allotting the regional priority application number: for international applications filed under the PCT, the code "WO" is used.
- (34) For priority fillings under the regional or international arrangements, the WIPO Standard ST.3 Code indentifying at least one country party to the Paris Union for which the regional or international application was made.
- (40) Date(s) of making available to the public
- (41) Date of making available to the public by viewing, or copying on request an unexamined patent document, on which no grant has taken place on or before the said date.
- (42) Date of making available to the public by viewing, or copying on request an examined patent document, on which no grant has taken place on or before the said date.
- (43) Date of publication by printing or similar process of anexamined document on which no grant has taken place on or before said date

(44) Datum van openbaarmaking	(44) Date of publication by printing or similar process of an examined document on which no grant has taken place on or before said date
(45) Datum van kracht worden van een Europees octrooi in Nederland	(45) Date of publication by printing or similar process of a document on which no grant has taken place on or before said date
(46) Inschrijvingsdatum conclusies	(46) Date of publication by printing or similar process of the claim(s) only of a document
(47) Verleningsdatum octrooi	(47) Date from which the patent takes effect
(48) Datum waarop een verbetering van een octrooi is uitgegeven	(48) Date of issuance of a corrected patent document
(51) Internationale Octrooi classificatie	(51) International Patent Classification
(54) Korte aanduiding	(54) Title of the invention
(62) Nummer moeder aanvraag	(62) Number and, if possible, filing date of the earlier application from which the present document has been divided out
(68) Nummer basis octrooi	(68) Number of the basic patent
(71) Naam aanvrager(s)	(71) Name(s) of the applicant(s)
(72) Naam uitvinder(s)	(72) Name(s) of the inventor(s) if known to be such
(73) Naam octrooihouder(s)	(73) Name(s) of grantee(s)
(74) Naam gemachtigde	(74) Name(s) of the attorney(s) or agent(s)
(75) Naam van uitvinders die tevens aanvrager zijn	(75) Name(s) of inventor(s) who is (are) also application(s)
(81) Aangewezen landen volgens de PCT	(81) Designated States(s) according to the PCT
(83) Informatie over micro organismen	(83) Information concerning the deposit of microorganisms
(84) Aangewezen landen bij regionale octrooien	(84) Designated Contracting States under regional patent conventions
(86) Nummer van omgezette aanvraag	(86) Application number of a PCT-application or number of European patent which is converted into a national application
(87) Datum en nummer van een PCT aanvraag	(87) Publication date and number of a PCT application
(92) Certificaten: nummer en datum van de eerste nationale vergunning voor een geneesmiddel	(92) For an SPC, number and date of the first national authorization to place the product on the market as a medicinal product
(93) Datum en nummer van de eerste EU vergunning voor een geneesmiddel	(93) For an SPC, number and date and where applicable, country of origin, of the first authorization to place the product on the market as a medicinal product within a regional economic community
(94) Expiratiedatum voor een topografie	(94) Calculated date of expiry of the topography
(95) Certificaten: naam van het product	(95) Name of the product protected by the basic patent and in respect of which the SPC has been applied for or granted

Rubrieken/Headings

NP1

Nederlandse octrooiaanvragen die zijn ingeschreven op grond van de Octrooiwet 1995. Contains data concerning Netherlands patent applications which have been entered in the patent register under the Patents Act 1995.

(51) A01G 18/60	Wang Xia	Xing Wang
(21) 2035559	Lili Chen	Yuheng Chen
(22) 06.08.2023	Xulong Wang	Abduhaibir Abdukadir
(54) CULTIVATION GREENHOUSE FOR EDIBLE FUNGI	Hong Zheng	(31) 202210163258.8
(71) Inner Mongolia Academy of Agriculture & Animal Husbandry Sciences	Zhengjie Dai	(32) 22.02.2022
(74) ir. M.B. Plaggenborg	(41) 28.08.2023	(33) China
(72) Xiaolei Li	(51) B60G 13/10	(51) C12G 3/02
Haiyan Wang	(21) 2035540	C12G 3/055
Jie Pang	(22) 03.08.2023	(21) 2035579
Yajiao Li	(54) AIR SUSPENSION DAMPING DEVICE	(22) 10.08.2023
Hongchun Bao	(71) YANGZHOU POLYTECHNIC INSTITUTE	(54) POLYGONATUM LIQUOR AND PREPARATION PROCESS THEREOF
Hongyu Zhao	(74) M. Schmid	(71) Hangzhou Vocational & Technical College
Wenmei Jia	(72) Yi Qiu	(74) drs. C.M.A. Quintelier
Chuanzong Yu	(51) B63B 77/10	(72) Junfeng Rao
Qiang Xiao	B63B 21/50	Qiaoli Ye
Hui Zhang	B63B 35/00	Zhilin Zheng
Guoqing Sun	F03D 13/25	Xiaoping Xu
(51) A01K 1/01	(21) 2033898	Weinuo Ye
A01K 1/015	(22) 02.01.2023	Yi Fu
(21) 2035486	(54) A METHOD AND SYSTEM OF INSTALLING A FLOATING FOUNDATION, ASSEMBLY OF FLOATING FOUNDATION AND BALLASTING FRAME, AND BALLASTING FRAME	Yuanguo Fu
(22) 26.07.2023	(71) Heerema Marine Contractors Nederland SE	Weide Lv
(54) An Automatic Dung Scraper and Cow Mattress Material Production System	(74) ir. J.C. Volmer c.s.	(51) C12N 15/54
(71) Zengxuan Pan	(72) Paul Antonius Alphonsus Geene	A01H 6/46
(74) dr. A.V. Huygens	Erik Franciscus Hubertus Bögels	C12N 15/82
(72) Zengxuan Pan	Benno Poppelaars	C12N 9/12
(51) B25B 15/02	(31) 2031010	(21) 2030997
B25B 23/10	2031409	(22) 17.02.2022
(21) 2035405	(32) 18.02.2022	(54) ZEA MAYS RECEPTOR-LIKE KINASE 7 (ZMLK7) GENE RELATED TO KERNEL AND PLANT TYPE DEVELOPMENT OF MAIZE AND USE THEREOF
(22) 18.07.2023	25.03.2022	(71) Shandong Academy of Agricultural Sciences
(54) Ergonomisch schroevendraaiersamenstel	(33) Netherlands	(74) ir. M.B. Plaggenborg
(71) Thomas Antonius Nicolaas Remmerswaal	Netherlands	(72) Tieshan Liu
(72) Thomas Antonius Nicolaas Remmerswaal	(51) C08L 95/00	Juan Wang
(51) B26F 1/02	(21) 2034184	Chunmei He
B29C 55/12	(22) 20.02.2023	Maolin Zhang
E02D 3/00	(54) PREPARATION METHOD OF HIGH-PERFORMANCE RESIN ASPHALT MATERIAL IN COLD AREAS	Liming Wang
(21) 2030994	(71) HARBIN INSTITUTE OF TECHNOLOGY	Rui Dong
(22) 17.02.2022	China Railway Northwest Science Research Institute Co., Ltd.	Haiying Guan
(54) A BIDIRECTIONAL STRETCHED SOIL REINFORCED GRID AND A METHOD FOR MANUFACTURING SAME	China Railway North Investment Co., Ltd.	Chunxiao Liu
(71) BOSTD GEOSYNTHETICS QINGDAO LTD	(41) 28.08.2023	Qiang Liu
(74) ir. M.B. Plaggenborg	(74) dr. T. Wittop Koning PhD	(51) E21B 7/04
(72) Shaopeng Yuan	(72) Liming Zhu	G06Q 50/02
Yuanfeng Guo	Yong Zhang	(21) 2031350
Yonggang Tang	Heye Liu	(22) 21.03.2022
Yanfeng Wang	Yali Xiong	(54) METHOD AND SYSTEM FOR DETERMINING GEOSTEERING IRREGULAR OBSERVATION SYSTEM
Keqing Zhou	Hancheng Cai	(71) Institute of Geology and Geophysics, Chinese Academy of Sciences
Chunguo Zhu	Jiwei Liu	(74) ir. M.B. Plaggenborg
Fangjun Xu	Ming Yuan	
Baohe Yang	Junyan Yi	
	Long Zhang	

(72) Xuhui Zhou Shoudong Huo Liang Huang Jiaru Zou Shengqiang Mu Guoxu Shu	G11C 29/36 G11C 29/52 G11C 29/04 G06F 11/10 G11C 29/42	(22) 04.01.2023 (54) EXTREME ULTRAVIOLET LIGHT GENERATION APPARATUS AND ELECTRONIC DEVICE MANUFACTURING METHOD
(31) 202210159466.0 (32) 22.02.2022 (33) China	(21) 2035035 (22) 17.11.2021 (54) ADAPTIVE ERROR CORRECTION TO IMPROVE FOR SYSTEM MEMORY	(71) Gigaphoton Inc. (74) ir. A. Blokland c.s. (72) Atsushi Ueda Koichiro Koge
(51) F15B 15/14 F15B 15/20 A61F 2/74	(62) 2029789 (17.11.2021) (71) Intel Corporation (74) dr. A. Krebs (72) Kuljit Bains	(31) 2022-024854 (32) 21.02.2022 (33) Japan
(21) 2033920 (22) 06.01.2023 (54) HYDRAULIC LOCKING DEVICE FOR AN EXOSKELETON JOINT AND EXOSKELETON JOINT	(62) 2029789 (17.11.2021) (71) Intel Corporation (74) dr. A. Krebs (72) Kuljit Bains	(51) H05G 2/00 G03F 7/20 (21) 2033930 (22) 10.01.2023 (54) TARGET SUPPLY SYSTEM, EXTREME ULTRAVIOLET LIGHT GENERATION APPARATUS, AND ELECTRONIC DEVICE MANUFACTURING METHOD
(71) HAWE Hydraulik SE (74) ir. J.P.E. Brants (72) Julian Weber Christian Hart Steffen Marx	Wei Wu Vaibhav Singh Andrew M. Rudolf John G. Holm Sreenivas Mandava Wei P. Chen Jing Ling Kjersten E. Criss Deep K. Buch Rajat Agarwal Theodros Yigzaw Hsing-Min Chen	(71) Gigaphoton Inc. (74) ir. H.Th. van den Heuvel c.s. (72) Atsushi Ueda Fumio Iwamoto Takayuki Yabu
(31) 102022201764.1 (32) 21.02.2022 (33) Germany	(31) PCT/US2020/067075 (32) 26.12.2020 (33) United States of America	(72) Atsushi Ueda Fumio Iwamoto Takayuki Yabu (31) 2022-023467 (32) 18.02.2022 (33) Japan
(51) G01N 1/22 (21) 2033428 (22) 31.10.2022 (54) INTELLIGENT DISINFECTION ROBOT FOR PM2.5 MICROBIOLOGICAL AEROSOL	(31) PCT/US2020/067075 (32) 26.12.2020 (33) United States of America (51) H04N 21/234 H04N 21/44 H04N 21/2187 H04N 21/242 G06N 3/08 G06V 40/10 H04N 21/254 H04N 21/81 H04N 21/431 H04N 21/462 G06N 3/02 G06N 3/06 G06V 20/40	
(71) Shandong Normal University (74) drs. C.M.A. Quintelier (72) Lei Chen Zhicheng Song Guanliu Yu Hua Li Guiwen Yang	H04N 21/44 H04N 21/2187 H04N 21/242 G06N 3/08 G06V 40/10 H04N 21/254 H04N 21/81 H04N 21/431 H04N 21/462 G06N 3/02 G06N 3/06 G06V 20/40	
(41) 28.08.2023 (31) 202210147201.9 (32) 17.02.2022 (33) China	(21) 2034738 (22) 04.05.2022 (54) SYSTEMS AND METHODS INVOLVING ARTIFICIAL INTELLIGENCE AND CLOUD TECHNOLOGY FOR EDGE AND SERVER SOC	
(51) G06Q 10/06 G06F 16/29 G06Q 50/02	(62) 2031777 (04.05.2022) (71) Uniquify, Inc. (74) ir. A. Blokland c.s. (72) Joshua Lee (31) PCT/US2022/027496 PCT/US2022/027035 63/184,630 63/184,576	
(21) 2032761 (22) 16.08.2022 (54) METHOD FOR CONSTRUCTING SCENE POINT FOR SURFACE WATER PESTICIDE EXPOSURE MODEL OF DRYLAND CROPS IN WATERSHED	(62) 2031777 (04.05.2022) (71) Uniquify, Inc. (74) ir. A. Blokland c.s. (72) Joshua Lee (31) PCT/US2022/027496 PCT/US2022/027035 63/184,630 63/184,576	
(71) Nanjing Institute of Environmental Sciences, Ministry of Ecology and Environment (74) ir. M.B. Plaggenborg (72) Xin Zhu Tao Long Renbin Liu Jinlin Jiang Jiaqi Shi Jianhua Liao Yan Cheng	(31) PCT/US2022/027496 PCT/US2022/027035 63/184,630 63/184,576 (32) 03.05.2022 29.04.2022 05.05.2021 05.05.2021 (33) United States of America United States of America United States of America United States of America	
(31) 202210157791 .3 (32) 21.02.2022 (33) China	(31) PCT/US2022/027496 PCT/US2022/027035 63/184,630 63/184,576 (32) 03.05.2022 29.04.2022 05.05.2021 05.05.2021 (33) United States of America United States of America United States of America United States of America	
(51) G11C 29/00 G11C 29/44 G11C 29/10	(51) H05G 2/00 G03F 7/20 (21) 2033907	

NP2

**Ingeschreven en verleende octrooien op grond van de Octrooiwet 1995.
Contains data concerning Netherlands patents which have been entered in the patent
register under the Patents Act 1995.**

(51) A01K 1/015 B32B 25/04 B32B 25/08 B32B 25/12 B32B 25/16 B32B 25/18 B32B 27/34 C09D 123/16	(54) WASTE CARDBOARD BIOCHAR FOR TREATING RHODAMINE B DYE WASTEWATER AND PREPARATION METHOD AND APPLICATION THEREOF	(73) BOSTD GEOSYNTHETICS QINGDAO LTD
(11) 2029595 (47) 28.08.2023 (22) 02.11.2021	(73) NANTONG UNIVERSITY (72) Qiuyu Zhang Zhixin Li Weiru Zhi Yanshan Wang Pingping Huang Shuqi Luo Shiyu Deng Tongrong Huo Siqiang Zhang Kunhong Miao	(72) Shaopeng Yuan Yuanfeng Guo Yonggang Tang Yanfeng Wang Keqing Zhou Chunguo Zhu Fangjun Xu Baohu Yang Wang Xia Lili Chen Xulong Wang Hong Zheng Zhengjie Dai
(54) RUBBER FLOORING FOR PASSAGE FOR TRAVEL BY LIVESTOCK, METHOD FOR MAKING SAME AND ITS USE	(74) ir. W.J.J.M. Kempes (31) 202111001387.9 (32) 30.08.2021 (33) China	(74) ir. M.B. Plaggenborg
(73) SANHE GREAT WALL RUBBER CO., LTD. (72) Jianjun Li Wanyou Wang (74) ir. W.J.J.M. Kempes (31) 202110965706.1 (32) 23.08.2021 (33) China	(51) B09B 1/00 (11) 2032884 (47) 28.08.2023 (22) 29.08.2022	(51) C12N 15/54 A01H 6/46 C12N 15/82 C12N 9/12 (11) 2030997 (47) 28.08.2023 (22) 17.02.2022
(51) A45B 25/06 (11) 2032411 (47) 28.08.2023 (22) 07.07.2022	(54) AN ACTIVATED CARBON CAP DISPOSAL METHOD FOR HEAVY METAL CONTAMINATED DREDGED MATERIAL	(54) ZEA MAYS RECEPTOR-LIKE KINASE 7 (ZMRLK7) GENE RELATED TO KERNEL AND PLANT TYPE DEVELOPMENT OF MAIZE AND USE THEREOF
(54) Rotary Replaceable Umbrella Nest Assembly for An Umbrella (73) TEMPO MANUFACTURING LLC. (72) Xiong Luo (74) dr. J. van Straaten (31) 202110811050.8 (32) 19.07.2021 (33) China	(73) Wenchao Yang (72) Shuang Song Hong Chen Jianbo Han Wenchao Yang (74) dr. R.C. van Duijvenbode c.s. (31) 2021110395430 (32) 06.09.2021 (33) China	(73) Shandong Academy of Agricultural Sciences (72) Tieshan Liu Juan Wang Chunmei He Maolin Zhang Liming Wang Rui Dong Haiying Guan Chunxiao Liu Qiang Liu
(51) A47B 91/02 F16B 5/02 F16M 7/00 (11) 2030532 (47) 28.08.2023 (22) 13.01.2022	(51) B23Q 5/58 F16D 7/04 B23C 9/00 (11) 1043758 (47) 28.08.2023 (22) 13.08.2020	(74) ir. M.B. Plaggenborg
(54) Adjustable levelling pad, system comprising a piece of machinery, a support and said adjustable pad, and assembly method of said system	(54) Disengagement Protection Device (73) Shanghai SIEG Machinery Co., Ltd (72) Jian Ma (74) P. Hensenne (31) 202010608036.3 (32) 29.06.2020 (33) China	(11) 2033897 (47) 28.08.2023 (22) 02.01.2023
(73) Aktiebolaget SKF (72) Abraham Hendrik Hooghart Rene Vermeulen (74) J. Hoekstra (31) 102021102115.4 (32) 29.01.2021 (33) Germany	(51) B26F 1/02 B29C 55/12 E02D 3/00 (11) 2030994 (47) 28.08.2023 (22) 17.02.2022	(54) METHOD FOR SYNCHRONOUSLY LEACHING RARE EARTH, FLUORINE AND LITHIUM ACID LEACHING SOLUTION FROM RARE EARTH ELECTROLYTIC MOLTEN SALT SLAG
(51) B01J 20/20 B01J 20/30 C02F 1/28 (11) 2032619 (47) 28.08.2023 (22) 27.07.2022	(54) A BIDIRECTIONAL STRETCHED SOIL REINFORCED GRID AND A METHOD FOR MANUFACTURING SAME	(73) JIANGXI UNIVERSITY OF SCIENCE AND TECHNOLOGY (72) Hao Wen Zhifang Tong Jiaxing Wang Chunlin Ye Zhaoxun Xie Gongcong Xu

Xiaofei Hu
Huiquan Li
(74) ir. M.B. Plaggenborg
(31) 202210105203.1
(32) 28.01.2022
(33) China

(51) G01N 1/22
(11) 2033428
(47) 28.08.2023
(22) 31.10.2022
(54) INTELLIGENT DISINFECTION ROBOT
FOR PM2.5 MICROBIOLOGICAL
AEROSOL
(73) Shandong Normal University
(72) Lei Chen
Zhicheng Song
Guanliu Yu
Hua Li
Guiwen Yang
(74) drs. C.M.A. Quintelier
(31) 202210147201.9
(32) 17.02.2022
(33) China

(51) H04L 27/28
(11) 2026743
(47) 28.08.2023
(22) 23.10.2020
(54) Time division multiple access
communication method based on
harmonic modulation technology
(73) Guangdong University of Technology
(72) Shaohua Zhou
Jianguo Ma
(74) ir. H.Th. van den Heuvel c.s.
(31) 201911279413.7
(32) 13.12.2019
(33) China

NP3

**Nederlandse octrooien na gedeeltelijke afstand conform artikel 63 van de Octrooiwet 1995..
Contains data concerning Netherlands patents which have been entered in the patent
register (after limitation procedure) under the Patents Act 1995.**

EP1

Vertaalde conclusies van Europese octrooiaanvragen.

Contains data concerning translations of the claims of European patent applications.

EP2

Voor Nederland verleende Europese octrooien.

Contains data concerning European patents granted for The Netherlands.

(51) A01B 1/00 B25H 3/04	(54) SOIL WORKING DEVICE	(11) EP3861844
(11) EP4203662	(73) PÖTTINGER Landtechnik GmbH	(21) EP21160475.6
(21) EP20824186.9	(72) Preimeß, Hans-Jörg	(47) 30.08.2023
(47) 30.08.2023	(31) 202018105099 U	(22) 03.06.2016
(87) EP2020085267	(32) 06.09.2018	(54) AGRICULTURAL DATA ANALYSIS
16.06.2022	(33) Germany	(73) Climate LLC
(22) 09.12.2020	(51) A01B 61/00	(72) Sauder, Doug
(54) TOOL STORAGE DEVICE	(11) EP3400763	Koch, Justin
(73) Husqvarna AB	(21) EP18000335.2	Muhlbauer, Cory
(72) RENNER, Thomas	(47) 30.08.2023	(31) 201562172715 P
(51) A01B 3/42	(22) 09.04.2018	(32) 08.06.2015
A01B 15/14	(54) DEVICE FOR CONTROLLING	(33) United States of America
(11) EP3884743	VIBRATIONS ON AN AGRICULTURAL	(51) A01B 79/00
(21) EP21401013.4	MACHINE SUCH AS A MULCHING	A01D 41/127
(47) 30.08.2023	MACHINE	(11) EP4002983
(22) 15.03.2021	(73) Cvetanovski, Aleksandar	(21) EP20757095.3
(54) MOUNTED REVERSIBLE PLOUGH	Kos, Branko	(47) 30.08.2023
(73) Amazonen-Werke H. Dreyer GmbH &	(72) Cvetanovski, Aleksandar	(87) US2020043949
Co. KG	Kos, Branko	04.02.2021
(72) Prangemeier, Dominik	(31) 201700124	(22) 29.07.2020
Rehnen, Pascal	(32) 08.05.2017	(54) SYSTEM AND METHOD FOR
Wilken, Martin	(33) Slovenia	DETERMINING RESIDUE COVERAGE
(31) 102020108472	(51) A01B 73/04	WITHIN A FIELD FOLLOWING A
(32) 27.03.2020	(11) EP3750387	HARVESTING OPERATION
(33) Germany	(21) EP19000463.0	(73) CNH Industrial Belgium nv
(51) A01B 29/04	(47) 30.08.2023	(72) FERRARI, Luca
A01B 29/06	(22) 10.10.2019	BARRICK, Christopher
A01B 49/02	(54) AGRICULTURAL TRAILING DEVICE	(31) 201916527264
(11) EP3808162	(73) INO Brezice d.o.o.	(32) 31.07.2019
(21) EP20202004.6	(72) Znidarsic, Jurij	(33) United States of America
(47) 30.08.2023	Vogrin, Tone	(51) A01C 5/06
(22) 15.10.2020	(31) 201900115	G01B 17/00
(54) SYSTEM AND METHOD FOR	(32) 13.06.2019	A01C 7/20
MONITORING PLUGGING OF BASKET	(33) Slovenia	(11) EP3831178
ASSEMBLIES OF AN AGRICULTURAL	(51) A01B 76/00	(21) EP21152853.4
IMPLEMENT	A01B 33/12	(47) 30.08.2023
(73) CNH Industrial Belgium N.V.	G01B 11/24	(22) 24.07.2017
(72) GLOVIER, Scott	G01N 21/95	(54) AGRICULTURAL TRENCH DEPTH
PAXINOS, Heather Humpreys	G01N 21/88	SENSING SYSTEM
ESPINOSA, Raul	G06T 7/00	(73) Precision Planting LLC
(31) 201916653129	G06T 7/12	(72) HARMAN, Reid
(32) 15.10.2019	(11) EP3636063	SWANSON, Todd
(33) United States of America	(21) EP19187980.8	STRNAD, Michael
(51) A01B 39/16	(47) 30.08.2023	VACCARI, Adam
(11) EP3824708	(22) 24.07.2019	HODEL, Jeremy
(21) EP20208972.8	(54) METHOD AND DEVICE FOR	KOCH, Dale
(47) 30.08.2023	DETECTING WEAR OF A COMPONENT	TRAVIS, Dexter
(22) 20.11.2020	FOR AGRICULTURAL EQUIPMENT	(31) 201762491707 P
(54) INTER-ROW MACHINE	(73) PÖTTINGER Landtechnik GmbH	201662365585 P
(73) Rinieri S.r.l.	(72) Marböck, Simon	(32) 28.04.2017
(72) RINIERI, Nicola	Sandberger, Markus	22.07.2016
(31) 201900004218 U	Baier, Volker	(33) United States of America
(32) 25.11.2019	Bumberger, Rainer	United States of America
(33) Italy	Prechtl, Wolfgang	(51) A01C 5/06
(51) A01B 49/02	(31) 102018121997	G01B 17/00
A01B 37/00	(32) 10.09.2018	A01C 7/20
(11) EP3620037	(33) Germany	(11) EP3831179
(21) EP19186939.5	(51) A01B 79/00	(21) EP21152888.0
(47) 30.08.2023	A01B 79/02	(47) 30.08.2023
(22) 18.07.2019	G06Q 10/0639	(22) 24.07.2017
	G06Q 50/02	

(54) AGRICULTURAL TRENCH DEPTH SENSING SYSTEM	(33) United States of America	(72) DRISCOLL, Mark
(73) Precision Planting LLC	(51) A01D 34/416	(31) 201962942250 P
(72) TRAVIS, Dexter	A01D 69/06	(32) 02.12.2019
VACCARI, Adam	(11) EP3777508	(33) United States of America
HODEL, Jeremy	(21) EP20188109.1	(51) A01D 41/127
SWANSON, Todd	(47) 30.08.2023	G05B 19/042
KOCH, Dale	(22) 28.07.2020	G07C 5/08
HARMAN, Reid	(54) STRING TRIMMER WITH BLOWER	G06Q 50/02
STRNAD, Michael	(73) Black & Decker Inc.	(11) EP3527060
(31) 201762491707 P	(72) COOPER, Justin	(21) EP19151677.2
201662365585 P	ROSENTHAL, Matthew	(47) 30.08.2023
(32) 28.04.2017	(31) 201916528729	(22) 14.01.2019
22.07.2016	(32) 01.08.2019	(54) CONTROLLING AN AGRICULTURAL IMPLEMENT USING A METRIC PRIORITY
(33) United States of America	(33) United States of America	(73) Deere & Company
United States of America	(51) A01D 34/64	(72) SPORRER, Adam D.
(51) A01C 7/10	F01P 1/06	LARSEN, Lucas B.
A01C 23/00	(11) EP4000369	THEILEN, Ricky B.
A01M 7/00	(21) EP21202413.7	KRANTZ, Jeremy D.
(11) EP4037458	(47) 30.08.2023	(31) 201815896757
(21) EP20740404.7	(22) 13.10.2021	(32) 14.02.2018
(47) 30.08.2023	(54) RIDING LAWN MOWER	(33) United States of America
(87) IB2020056373	(73) Iseki & Co., Ltd.	(51) A01D 41/14
08.04.2021	(72) TSUNASHIMA, Taro	(11) EP3879960
(22) 07.07.2020	KURITA, Kazuyuki	(21) EP19836186.7
(54) SYSTEM AND METHOD FOR TESTING AN AGRICULTURAL IMPLEMENT	WATANABE, Tomoaki	(47) 30.08.2023
(73) Precision Planting LLC	MASUDA, Ryutaro	(87) US2019060927
(72) SCHLIPF, Ben	(31) 2020191157	22.05.2020
KLOPFENSTEIN, Matthew	(32) 17.11.2020	(22) 12.11.2019
(31) 201962908138 P	(33) Japan	(54) HARVESTER HEADER HAVING A SEGMENT CONTROL SYSTEM
(32) 30.09.2019	(51) A01D 34/66	(73) CNH Industrial Belgium NV
(33) United States of America	A01B 59/048	(72) TROWBRIDGE, Jeffrey C.
(51) A01D 34/00	(11) EP3766327	AESAERT, Glenn
A01D 34/66	(21) EP19186358.8	HUNT, Cory D.
A01D 34/71	(47) 30.08.2023	(31) 201862768614 P
A01D 34/74	(22) 15.07.2019	(32) 16.11.2018
(11) EP3874931	(54) WORKING TOOL	(33) United States of America
(21) EP20202930.2	(73) Kverneland Group Kerteminde A/S	(51) A01D 43/08
(47) 30.08.2023	(72) WEBER, Björn	(11) EP3593620
(22) 21.10.2020	(51) A01D 34/66	(21) EP19172941.7
(54) MOWER DECK	A01D 75/18	(47) 30.08.2023
(73) Kubota Corporation	(11) EP3713390	(22) 07.05.2019
(72) MATSUOKA, Yusaku	(21) EP18803432.6	(54) HARVESTING SYSTEM
SHIMADA, Ryo	(47) 30.08.2023	(73) CLAAS Selbstfahrende Erntemaschinen GmbH
(31) 2020037813	(87) EP2018081906	(72) Kleverth, Johannes
(32) 05.03.2020	31.05.2019	(31) 102018116578
(33) Japan	(22) 20.11.2018	(32) 09.07.2018
(51) A01D 34/00	(54) AGRICULTURAL MACHINE COMPRISING A SAFETY SYSTEM WITH IMPROVED TRIGGERING KINEMATICS	(33) Germany
A01D 34/69	(73) Kuhn SAS	(51) A01D 87/12
A01D 34/82	(72) BILLARD, Sylvain	A01F 15/07
A01D 75/28	(31) 1761010	(11) EP3593622
A01D 75/20	(32) 21.11.2017	(21) EP19184004.0
(11) EP3864947	(33) France	(47) 30.08.2023
(21) EP21152946.6	(51) A01D 34/82	(22) 02.07.2019
(47) 30.08.2023	F16C 11/10	(54) IMPROVED WRAPPING DEVICE
(22) 22.01.2021	A01D 34/68	(73) AGCO International GmbH
(54) LAWNMOWER WITH SAFETY FEATURES AND ASSOCIATED METHOD	(11) EP4068944	(72) BORCHERS, Jürgen
(73) Techtronic Cordless GP	(21) EP20829100.5	SCHLICHTING, Malte Cornelius
(72) GIVENS, Robert T.	(47) 30.08.2023	(31) 201811265
KONDRO, Grzegorz	(87) US2020062814	(32) 10.07.2018
IFTIQHAR, Ayesha	10.06.2021	(33) United Kingdom
FELDKAMP, Jonathan R.	(22) 02.12.2020	(51) A01F 15/08
SHAO, Shuai	(54) ADJUSTABLE HANDLE ASSEMBLY FOR A WALK-BEHIND MOWER	(11) EP3818814
(31) 202062976070 P	(73) MTD PRODUCTS INC.	(21) EP19208192.5
(32) 13.02.2020		

(47) 30.08.2023	(21) EP20213470.6	(21) EP18746016.7
(22) 08.11.2019	(47) 30.08.2023	(47) 30.08.2023
(54) AGRICULTURAL SYSTEM	(22) 11.12.2020	(87) NL2018050393
(73) CNH Industrial Belgium NV	(54) WORKING TOOL WITH A CABLE	24.01.2019
(72) Loosfelt, Yves	HARNES BETWEEN A DRIVE UNIT	(22) 15.06.2018
Derynck, Lynn	AND AN OPERATING HANDLE	(54) MILKING ROBOT SYSTEM WITH
Helewaut, Olivier	(73) Andreas Stihl AG & Co. KG	SELECTABLE COMPLIANCE
Monbaliu, Sven	(72) WAIBLINGER, Manuel	(73) Lely Patent N.V.
(51) A01F 15/08	EHRLER, Dennis	(72) VOORSLUYS, Mario Henrique
G01S 13/50	KÖNIG, Markus	VAN DORP, Michiel Adriaan
G01S 13/88	HÄRTEL, Alexander	(31) 2019313
(11) EP3834603	DETTLING, Andreas	(32) 21.07.2017
(21) EP20212836.9	KARL, Dennis	(33) Netherlands
(47) 30.08.2023	BRAUN, Jan Lukas	(51) A01K 13/00
(22) 09.12.2020	(51) A01G 23/00	B05B 1/20
(54) SYSTEM AND METHOD FOR	(11) EP3424302	B05B 15/652
ESTIMATING THE LENGTH OF A	(21) EP17179677.4	(11) EP3957170
CROP MATERIAL BALE DURING BALE	(47) 30.08.2023	(21) EP21189748.3
FORMATION	(22) 04.07.2017	(47) 30.08.2023
(73) CNH Industrial Italia S.p.A.	(54) METHOD FOR DETERMINING AN	(22) 04.08.2021
(72) Ferrari, Luca	ORIENTATION OF AT LEAST ONE	(54) DEVICE FOR CLEANING ANIMALS,
Lenzini, Nicola	SECTION OF A FELLED TREE AND	PARTICULARLY THE LEGS OF
(31) 201900023379	FOREST SYSTEM FOR DETERMINING	ANIMALS
(32) 09.12.2019	THE ORIENTATION OF AT LEAST ONE	(73) Nadler Hartmetalle GmbH
(33) Italy	SECTION OF A FELLED TREE	(72) NADLER, Wolfgang
(51) A01G 7/04	(73) Andreas Stihl AG & Co. KG	(31) 102020121810
(11) EP3784021	(72) Frey, Benjamin	(32) 19.08.2020
(21) EP19718717.2	Maier, Bettina	(33) Germany
(47) 30.08.2023	Mang, Harald	(51) A01K 31/02
(87) EP2019060427	Reinert, Michael	A01M 29/30
31.10.2019	Jaeger, Dirk	(11) EP3284341
(22) 24.04.2019	(51) A01G 24/35	(21) EP17020352.5
(54) BOLTING CONTROL USING LIGHT	C08F 265/02	(47) 30.08.2023
WITH HIGH LEVEL OF FAR RED	C09K 17/22	(22) 10.08.2017
(73) Signify Holding B.V.	C08F 2/32	(54) ANIMAL HOUSE
(72) NICOLE, Céline Catherine Sarah	C08F 4/04	(73) Hebe Studio Limited
MOOREN, Jarno	(11) EP3590978	(72) Tuthill, James
(31) 18169393	(21) EP18760701.5	Windham, William
(32) 26.04.2018	(47) 30.08.2023	Paul, Johannes
(33) European Patent Office (EPO)	(87) JP2018007960	Nicholls, Simon
(51) A01G 7/06	07.09.2018	(31) 201614096
(11) EP3225101	(22) 02.03.2018	(32) 17.08.2016
(21) EP17401039.7	(54) WATER-ABSORBENT RESIN, SOIL	(33) United Kingdom
(47) 30.08.2023	WATER-RETAINING MATERIAL, AND	(51) A01K 61/10
(22) 31.03.2017	AGRICULTURAL/HORTICULTURAL	C02F 1/48
(54) DEVICE AND METHOD FOR	MATERIAL	C02F 3/32
INJECTING LIQUID ACTIVE AGENTS	(73) Sumitomo Seika Chemicals Co., Ltd.	(11) EP3797586
INTO THE VESSELS OF WOODY	(72) ONODA, Yuichi	(21) EP20198315.2
PLANTS	CHIBA, Mikito	(47) 30.08.2023
(73) RLP AgroScience GmbH	(31) 2017038980	(22) 25.09.2020
Seibert, Heinz	(32) 02.03.2017	(54) METHOD FOR TREATING
(72) Pollatz, Thorsten	(33) Japan	PHYTOPLANKTON BY NON-
Seibert, Heinz	(51) A01G 25/06	TRADITIONAL BIOMANIPULATION
(31) 102016105954	(11) EP3661351	(73) Chinese Research Academy Of
(32) 31.03.2016	(21) EP18758799.3	Environmental Sciences
(33) Germany	(47) 30.08.2023	(72) ZHAO, Chen
(51) A01G 9/02	(87) CH2018000034	LI, Xiaoguang
(11) EP4046477	07.02.2019	CHE, Lulu
(21) EP21461517.1	(22) 27.07.2018	LI, Wei
(47) 30.08.2023	(54) SUBTERRANEAN IRRIGATION	ZHANG, Lieyu
(22) 19.02.2021	SYSTEM	LI, Guowen
(54) A PLANT CONTAINER FOR GREENING	(73) Elemental Engineering AG	ZHU, Qiheng
WALLS	(72) SAEED, Osman	LI, Caole
(73) 4Naturesystem - Wertykalni Sp. z o. o.	(31) 17184984	LI, Jiaqian
(72) DZIEDZIC, Beata	(32) 04.08.2017	(31) 201910931143
(51) A01G 20/47	(33) European Patent Office (EPO)	(32) 29.09.2019
(11) EP4011197	(51) A01J 5/017	(33) China
	(11) EP3654765	(51) A01K 67/027

- C07K 14/46
 (11) EP3782465
 (21) EP19193235.9
 (47) 30.08.2023
 (22) 23.08.2019
 (54) TRANSGENIC ZEBRAFISH MODEL FOR STROKE
 (73) Universität Potsdam
 (72) SEYFRIED, Salim
 RÖDEL, Claudia Jasmin
-
- (51) A01K 67/027
 C07K 14/47
 A61K 48/00
 C12N 15/113
 (11) EP3585162
 (21) EP18786639.7
 (47) 30.08.2023
 (87) US2018053389
 04.04.2019
 (22) 28.09.2018
 (54) RODENTS COMPRISING A HUMANIZED TTR LOCUS AND METHODS OF USE
 (73) Regeneron Pharmaceuticals, Inc.
 (72) FRENDEWEY, David
 DRUMMOND SAMUELSON, Meghan
 HAINES, Jeffery
 MURPHY, Andrew J.
 ZAMBROWICZ, Brian
 HARTFORD, Suzanne
 (31) 201862720292 P
 201862679142 P
 201762565980 P
 (32) 21.08.2018
 01.06.2018
 29.09.2017
 (33) United States of America
 United States of America
 United States of America
-
- (51) A01K 67/027
 C07K 14/705
 (11) EP3563680
 (21) EP19167619.6
 (47) 30.08.2023
 (22) 26.10.2012
 (54) GENETICALLY MODIFIED MAJOR HISTOCOMPATIBILITY COMPLEX MICE
 (73) Regeneron Pharmaceuticals, Inc.
 (72) STEVENS, Sean
 MURPHY, Andrew J.
 GURER, Cagan
 MCWHIRTER, John
 HARRIS, Faith
 VORONINA, Vera
 MACDONALD, Lynn
 (31) 201261700908 P
 201161552582 P
 201161552587 P
 (32) 14.09.2012
 28.10.2011
 28.10.2011
 (33) United States of America
 United States of America
 United States of America
-
- (51) A01K 67/027
 C12N 5/071
 C12N 15/09
- (11) EP3275312
 (21) EP16768922.3
 (47) 30.08.2023
 (87) JP2016059551
 29.09.2016
 (22) 25.03.2016
 (54) TRANSPLANT FISH
 (73) National University Corporation Tokyo
 University of Marine Science and Technology
 Nippon Suisan Kaisha, Ltd.
 (72) YAZAWA, Ryosuke
 KAWAMURA, Wataru
 TAKEUCHI, Yutaka
 YOSHIZAKI, Goro
 (31) 2015065152
 (32) 26.03.2015
 (33) Japan
-
- (51) A01M 7/00
 (11) EP3794942
 (21) EP20196788.2
 (47) 30.08.2023
 (22) 18.09.2020
 (54) DEVICE FOR THE APPLICATION OF PLANT PROTECTION PRODUCTS
 (73) ETO GRUPPE TECHNOLOGIES GmbH
 (72) STEINHAUSER Robert
 DITTUS Axel
 (31) 102020117738
 102019125283
 (32) 06.07.2020
 19.09.2019
 (33) Germany
 Germany
-
- (51) A01M 7/00
 A01C 7/06
 A01C 23/00
 A01C 23/02
 A01C 23/04
 (11) EP3487293
 (21) EP17831978.6
 (47) 30.08.2023
 (87) US2017043344
 25.01.2018
 (22) 21.07.2017
 (54) IMPLEMENTS AND APPLICATION UNITS HAVING A FLUID APPLICATOR WITH NOZZLES FOR PLACEMENT OF APPLICATIONS WITH RESPECT TO AGRICULTURAL PLANTS OF AGRICULTURAL FIELDS
 (73) Precision Planting LLC
 (72) STOLLER, Jason
 RADTKE, Ian
 (31) 201762442895 P
 201662365824 P
 (32) 05.01.2017
 22.07.2016
 (33) United States of America
 United States of America
-
- (51) A01M 7/00
 B05B 7/00
 B05B 1/16
 B05B 1/26
 B05B 1/30
 (11) EP3403495
 (21) EP17738235.5
 (47) 30.08.2023
- (87) ES2017070013
 20.07.2017
 (22) 11.01.2017
 (54) IMPROVED MULTI-OUTLET SPRAYER
 (73) Pulverizadores Fede, S.L.
 (72) BERGER, Lars Torsten
 PÉREZ SALVADOR, Federico
 (31) 201630019
 (32) 12.01.2016
 (33) Spain
-
- (51) A01M 23/18
 A01M 23/24
 A01M 23/26
 (11) EP3847887
 (21) EP21159308.2
 (47) 30.08.2023
 (22) 09.01.2018
 (54) RODENT TRAP HAVING PIVOTING PLATFORM
 (73) OMS Investments, Inc.
 (72) Johnson, Daniel C.
 Zeamer, Paul R.
 Walsh, James R.
 (31) 201762444613 P
 (32) 10.01.2017
 (33) United States of America
-
- (51) A01M 23/38
 G08B 21/22
 A01M 23/02
 A01M 23/16
 (11) EP3579694
 (21) EP18760643.9
 (47) 30.08.2023
 (87) US2018020840
 07.09.2018
 (22) 05.03.2018
 (54) REMOTE MONITORING OF LIVE CATCH RODENT TRAPS
 (73) Woodstream Corporation
 (72) ZIELINSKI, Todd M.
 KOZIAR, Peter, Jr.
 WANNINGER, Daniel J.
 JINNURI, Kalyan C.
 DALY, Thomas J., Jr.
 (31) 201815909225
 201762466124 P
 (32) 01.03.2018
 02.03.2017
 (33) United States of America
 United States of America
-
- (51) A01N 25/34
 A01N 59/16
 A01P 1/00
 D21H 17/70
 D21H 21/36
 B32B 37/02
 (11) EP3202552
 (21) EP15863912.0
 (47) 30.08.2023
 (87) JP2015082862
 02.06.2016
 (22) 24.11.2015
 (54) METHODS FOR PRODUCING ANTIVIRAL TRANSFER SHEET AND ANTIVIRAL SHRINK FILM
 (73) Nissha Printing Co., Ltd.
 (72) KUBOSAKI Nobuo
 YAMAUCHI Yuji

MORI Ryosuke	A01N 43/16	BUCHHOLZ, Anke
HAMA Daichi	A01P 7/04	HATT, Fabienne
(31) 2014238162	(11) EP2846635	RINDLISBACHER, Alfred
2014238161	(21) EP13784107.8	(31) 12151445
(32) 25.11.2014	(47) 30.08.2023	(32) 17.01.2012
25.11.2014	(87) US2013000122	(33) European Patent Office (EPO)
(33) Japan	07.11.2013	(51) A01N 55/08
Japan	(22) 30.04.2013	A01N 25/12
(51) A01N 37/44	(54) CONTROL AND REPELLENCY OF BED	A01N 59/02
A01N 25/00	BUGS	A01N 59/04
A01P 7/00	(73) Bedoukian Research, Inc.	A01P 1/00
A01P 1/00	(72) BEDOUKIAN, Robert, H.	A01P 3/00
(11) EP3758487	(31) 201261687918 P	(11) EP3426029
(21) EP19758148.1	(32) 02.05.2012	(21) EP17763834.3
(47) 30.08.2023	(33) United States of America	(47) 30.08.2023
(87) IL2019050218	(51) A01N 43/56	(87) US2017020940
29.08.2019	A01P 21/00	14.09.2017
(22) 26.02.2019	(11) EP3426036	(22) 06.03.2017
(54) METHOD FOR CONTROLLING	(21) EP17706457.3	(54) SYNERGISTIC METHODS OF USING
PATHOGENIC INFECTION OF PLANTS	(47) 30.08.2023	BENZOXABOROLE COMPOUNDS
(73) The State of Israel, Ministry of Agriculture	(87) EP2017053882	AND PRESERVATIVE GASES AS AN
& Rural Development, Agricultural	14.09.2017	ANTIMICROBIAL FOR CROPS
Research Organization (ARO) (Volcani	(22) 21.02.2017	(73) AgroFresh Inc.
Center)	(54) CROP ENHANCEMENT	(72) MACLEAN, Daniel
(72) OREN-SHAMIR, Michal	(73) Syngenta Participations AG	CIFUENTES, Rodrigo
ELAD, Yigal	(72) KUZNETSOV, Dmitry	MALEFYT, Timothy
LEWINSOHN, Efraim	HARP, Tyler, Lee	ENGLE-GOODNER, Renee
OLIVA, Moran	GUICHERIT, Eric	(31) 201662304636 P
ALKAN, Noam	RAMBACH JANKOWSKI, Odile	(32) 07.03.2016
(31) 201962794629 P	BARTSCH, Michael	(33) United States of America
201862634992 P	LEIPNER, Joerg	(51) A01N 59/08
(32) 20.01.2019	(31) 201603965	A01N 65/00
26.02.2018	(32) 08.03.2016	A01N 65/06
(33) United States of America	(33) United Kingdom	A01N 65/36
United States of America	(51) A01N 43/80	A01N 27/00
(51) A01N 37/46	A01N 43/56	A01N 31/04
A01N 25/00	A01N 43/836	A01N 49/00
A01N 47/34	A01N 43/713	A01N 65/18
A01N 53/00	A01N 43/72	A01N 61/02
A01N 47/40	A01N 43/42	A01P 1/00
A01N 43/56	A01N 43/78	(11) EP3742899
A01N 43/40	A01P 3/00	(21) EP19744287.4
A01N 43/653	(11) EP3522714	(47) 30.08.2023
A01N 43/78	(21) EP17777592.1	(87) US2019013980
A01N 47/06	(47) 30.08.2023	01.08.2019
A01N 63/00	(87) EP2017075194	(22) 17.01.2019
A01N 43/36	19.04.2018	(54) METHOD OF TREATING CITRUS
A01P 3/00	(22) 04.10.2017	GREENING
A01P 7/00	(54) PESTICIDAL MIXTURES	(73) Greening Be Gone, LLC
(11) EP3456201	(73) BASF SE	(72) BROWN, Kenneth, Earl
(21) EP18197420.5	(72) GEWEHR, Markus	EVELAND, Winsor, Gebhard
(47) 30.08.2023	(31) 16192992	(31) 201862620646 P
(22) 16.10.2014	(32) 10.10.2016	(32) 23.01.2018
(54) USE OF PESTICIDAL ACTIVE	(33) European Patent Office (EPO)	(33) United States of America
CARBOXAMIDE DERIVATIVE IN	(51) A01N 47/06	(51) A01N 61/02
SOIL AND SEED APPLICATION AND	A01N 43/40	A01N 25/02
TREATMENT METHODS	A01N 37/42	A01N 25/30
(73) BASF Agrochemical Products B.V.	A01N 43/90	A01N 37/10
(72) Menon, Anil C	A01P 7/02	A01N 37/40
Gewehr, Markus	(11) EP3476219	A01P 1/00
Sikuljak, Tatjana	(21) EP18199986.3	A01P 3/00
(31) 201361906441 P	(47) 30.08.2023	A01P 7/04
201361892502 P	(22) 17.01.2013	(11) EP3493681
(32) 20.11.2013	(54) PESTICIDAL MIXTURES INCLUDING	(21) EP17836119.2
18.10.2013	SPIROHETEROCYCLIC PYRROLIDINE	(47) 30.08.2023
(33) United States of America	DIONES	(87) CA2017050843
United States of America	(73) Syngenta Participations AG	08.02.2018
(51) A01N 43/08	(72) MUEHLEBACH, Michel	(22) 11.07.2017

- (54) STABILIZED EMULSIONS
(73) Suncor Energy Inc.
(72) NASH, Brady
FEFER, Michael
LIU, Jun
(31) 2938096
(32) 04.08.2016
(33) Canada
-
- (51) A21C 3/06
(11) EP3804523
(21) EP19811931.5
(47) 30.08.2023
(87) JP2019021271
05.12.2019
(22) 29.05.2019
(54) ROLL-FORMING METHOD FOR FOOD
DOUGH PIECE
(73) Rheon Automatic Machinery Co., Ltd.
(72) ORUI Akihiro
FUKUGAMI Taro
HIGUCHI Katsumichi
(31) 2019016806
2018104413
(32) 01.02.2019
31.05.2018
(33) Japan
Japan
-
- (51) A21D 2/18
A23L 29/225
A23L 33/00
A23P 20/12
A23P 20/10
A23L 5/10
(11) EP3448159
(21) EP17721194.3
(47) 30.08.2023
(87) FR2017050793
02.11.2017
(22) 04.04.2017
(54) METHOD FOR PRODUCING UNFRIED
NUGGET-LIKE PRODUCTS
(73) Roquette Frères
(72) DEDIEU, Géraldine
DUBAL, Edith
(31) 1653805
(32) 28.04.2016
(33) France
-
- (51) A22C 21/00
(11) EP3485735
(21) EP18205823.0
(47) 30.08.2023
(22) 13.11.2018
(54) DESKINNING APPARATUS AND
METHOD FOR DESKINNING A
POULTRY LEG OR PART OF A
POULTRY LEG
(73) Meyn Food Processing Technology B.V.
(72) VAN HILLO, Eric Adriaan
(31) 2019926
(32) 16.11.2017
(33) Netherlands
-
- (51) A23B 7/10
A23L 27/10
A23L 19/20
A23N 15/00
(11) EP3858144
(21) EP19865497.2
(47) 30.08.2023
- (87) KR2019007140
02.04.2020
(22) 13.06.2019
(54) KIMCHI STUFFING ADDING DEVICE,
SPRAYING MECHANISM FOR KIMCHI
STUFFING ADDING DEVICE, AND
DUMPING LIFTER FOR KIMCHI
STUFFING ADDING DEVICE
(73) CJ Cheiljedang Corporation
(72) PARK, Kyung Taek
LEE, Ga Yeong
JUNG, Chan Su
LIM, Hee Jeong
SONG, Il Gyu
LEE, Dong Yun
KIM, In Jae
OH, Ji Young
(31) 20180116367
(32) 28.09.2018
(33) Korea (Republic)
-
- (51) A23C 1/00
A23C 9/142
B01D 61/08
B01D 61/02
(11) EP3462893
(21) EP17728949.3
(47) 30.08.2023
(87) NL2017050333
30.11.2017
(22) 24.05.2017
(54) METHOD FOR CONCENTRATING RAW
MILK
(73) Dalfsen Van, Harm
(72) Dalfsen Van, Harm
(31) 2016829
(32) 25.05.2016
(33) Netherlands
-
- (51) A23G 1/00
A23G 1/26
A23G 1/28
A23G 3/02
A23G 3/20
A23G 7/00
(11) EP3909433
(21) EP21173930.5
(47) 30.08.2023
(22) 14.05.2021
(54) TILTING METHOD AND SYSTEM FOR
ROTATING MOULDS CONTAINING
FOOD PRODUCTS TO BE
UNMOULDED, IN PARTICULAR
CHOCOLATE PRODUCTS
(73) Sacmi Packaging & Chocolate S.p.A.
(72) GIARDINI, Giovanni
LUMINI, Franco
(31) 202000011269
(32) 15.05.2020
(33) Italy
-
- (51) A23G 1/00
A23G 3/34
A23G 9/28
A23P 30/10
(11) EP3656221
(21) EP19210723.3
(47) 30.08.2023
(22) 21.11.2019
- (54) A PROCESS FOR DISPENSING FLUID
FOODSTUFF MATERIAL INTO A
SHAPING CAVITY OF A MOULD
(73) Soremartec S.A.
(72) RATTO, Gabriele
MANSUINO, Sergio
(31) 201800010552
(32) 23.11.2018
(33) Italy
-
- (51) A23G 1/26
A23G 3/02
A23G 7/00
A23G 3/20
B65G 57/30
B65G 59/06
B65G 60/00
(11) EP3912475
(21) EP21174498.2
(47) 30.08.2023
(22) 18.05.2021
(54) METHOD AND PLANT FOR MOLD
ADVANCEMENT, PARTICULARLY FOR
MOLDING FOR CONFECTIONERY
PRODUCTS
(73) Sacmi Packaging & Chocolate S.p.A.
(72) TOMADON, Massimo
GIARDINI, Giovanni
(31) 202000011434
(32) 18.05.2020
(33) Italy
-
- (51) A23G 9/12
A23G 9/22
(11) EP3692799
(21) EP20155961.4
(47) 30.08.2023
(22) 06.02.2020
(54) ICE CREAM MAKER FITTING FOR A
STAND MIXER, ICE CREAM MAKER
KIT FOR A STAND MIXER AND STAND
MIXER
(73) SMEG S.p.A.
(72) BAZZICALUPO, Leopoldo
CREMA, Andrea
MANGIAROTTI, Raffaella
(31) 201900001727
(32) 06.02.2019
(33) Italy
-
- (51) A23K 10/12
A23K 10/14
A23K 10/24
A23K 50/80
(11) EP3995002
(21) EP20205646.1
(47) 30.08.2023
(22) 04.11.2020
(54) FEED COMPOSITION FOR FARMED
FISH USING FERMENTED PORCINE
BLOOD
(73) Samda Co., Ltd.
(72) KIM, Byeong-Hoon
LEE, Young-Don
KIM, Chin Kyung
YU, Haeng Soo
MOON, Sang Wook
-
- (51) A23L 2/52
A61K 36/752
C11D 3/382
A61Q 19/00

A23K 10/37	BERTOLINI, Paolo	(32) 09.03.2016
A23L 29/206	(31) 201900012522	(33) Korea (Republic)
A23L 19/00	(32) 22.07.2019	(51) A23L 33/10
A23L 33/22	(33) Italy	A23L 33/15
A61K 8/9789	(51) A23L 19/20	A23L 33/16
(11) EP3542642	(11) EP3818837	A23L 33/17
(21) EP19150727.6	(21) EP19207614.9	A61K 9/14
(47) 30.08.2023	(47) 30.08.2023	A23L 33/155
(22) 29.07.2011	(22) 07.11.2019	A23L 33/175
(54) PROCESS FOR OBTAINING CITRUS FIBER FROM CITRUS PULP	(54) METHOD FOR REDUCING THE CONCENTRATION OF OLEUROPEIN AND FOR FORMATION AND PRESERVATION OF THE CONCENTRATION OF HYDROXYTYROSOL AND TYROSOL IN OLIVES	A23P 10/40
(73) Cargill, Incorporated	(73) Rumiz, Michel	A61K 31/07
(72) REEDER, David Hiram	(72) Rumiz, Michel	A61K 31/198
WALLECAN, Joel Pierre Rene		A61K 31/375
GUSEK, Todd Walter		A61K 31/592
MAZOYER, Jacques Andre Christian		A61K 31/593
(31) 36920410 P	(73) Rumiz, Michel	A61K 31/70
10008317	(72) Rumiz, Michel	A61K 33/06
(32) 30.07.2010	(51) A23L 27/20	A61K 33/26
10.08.2010	(11) EP3949758	A61K 33/30
(33) United States of America	(21) EP19923517.7	(11) EP2988617
European Patent Office (EPO)	(47) 30.08.2023	(21) EP14773050.1
(51) A23L 2/60	(47) 30.08.2023	(47) 30.08.2023
A23L 27/30	(87) JP2019014255	(87) IL2014050098
A23L 2/54	08.10.2020	02.10.2014
(11) EP3504983	(22) 29.03.2019	(22) 29.01.2014
(21) EP19153368.6	(54) VEGETABLE SOLID-CONTAINING SEASONED FOOD HAVING TANGY TASTE, METHOD FOR PRODUCING SAME, AND METHOD FOR IMPARTING TANGY TASTE TO VEGETABLE SOLID-CONTAINING SEASONED FOOD	(54) NUTRITIONAL SUPPLEMENT FOR GROWTH ENHANCEMENT
(47) 30.08.2023	(73) Mizkan Holdings Co., Ltd.	(73) Nutritional Growth Solutions LTD
(22) 30.12.2016	(72) ONO, Takeshi	(72) PHILLIP, Moshe
(54) SWEETENING COMPOSITIONS	(51) A23L 27/40	SHAMIR, Raanan
(73) Red Bull GmbH	A21D 2/00	BYMEL, Hadassa
(72) Nachbagauer, Josef	(11) EP3967154	YACKOBOVITCH-GAVAN, Michal
Urban-Klik, Manfred	(21) EP21196663.5	LAZAR, Liora
Boehringer, Volker	(47) 30.08.2023	(31) 201361862533 P
(51) A23L 3/01	(22) 14.09.2021	201361805747 P
A23C 3/07	(54) FOOD ADDITIVE COMPRISING ALGAE	(32) 06.08.2013
(11) EP3621455	(73) Algae Beheer B.V.	27.03.2013
(21) EP18721412.7	(72) Hermans, Michel	(33) United States of America
(47) 30.08.2023	de Vos, Ronald	United States of America
(87) EP2018062001	(31) 2026469	(51) A23L 33/155
15.11.2018	(32) 15.09.2020	A23K 20/174
(22) 09.05.2018	(33) Netherlands	A01K 67/033
(54) APPARATUS AND METHOD TO TREAT DAIRY PRODUCTS	(51) A23L 29/30	A23J 1/00
(73) GEA Mechanical Equipment GmbH	A23L 29/231	A23K 10/20
(72) VAN ERP, Joost	A23L 29/262	A23K 50/90
(31) 18159562	A23L 29/269	(11) EP3801066
17170103	A23L 29/256	(21) EP19740620.0
(32) 01.03.2018	(11) EP3427601	(47) 30.08.2023
09.05.2017	(21) EP17763522.4	(87) FR2019051168
(33) European Patent Office (EPO)	(47) 30.08.2023	05.12.2019
European Patent Office (EPO)	(87) KR2017002405	(22) 22.05.2019
(51) A23L 5/10	14.09.2017	(54) METHOD FOR RAISING BEETLES COMPRISING AN ULTRAVIOLET TREATMENT FOR PREPARING A BEETLE POWDER ENRICHED WITH VITAMIN D3
A23L 19/00	(22) 06.03.2017	(73) Nutri'Earth
A23B 7/02	(54) ALLULOSE-CONTAINING SYRUP COMPOSITION AND FOOD CONTAINING SAME	(72) DORMIGNY, Thomas
(11) EP3769625	(73) Cj Cheiljedang Corporation	DEFRIZE, Jerémy
(21) EP20185012.0	(72) BYUN, Sung Bae	DESTAILLEUR, Charles-Antoine
(47) 30.08.2023	JUNG, Dong Chul	(31) 1854534
(22) 09.07.2020	BAK, Youn Kyung	(32) 28.05.2018
(54) PROCESS FOR THE PRODUCTION OF A NEST-SHAPED FOOD PRODUCT COMPRISING STRIPS OF A DRIED VEGETABLE AND ASSOCIATED PRODUCT	CHOI, Jong Min	(33) France
(73) BARILLA G. e R. Fratelli S.p.A.	PARK, Jung Gyu	(51) A23N 12/10
(72) BERGAMINI, Elena	PARK, Seung Won	A23N 12/12
MORBARIGAZZI, Nadia	(31) 20160028520	A23F 5/04
CASELLI, Oreste		(11) EP3410875
		(21) EP17704209.0

(47) 30.08.2023	(47) 30.08.2023	(21) EP18740217.7
(87) EP2017052563	(22) 09.09.2015	(47) 30.08.2023
10.08.2017	(54) METHOD FOR THE PRODUCTION OF	(87) EP2018069091
(22) 06.02.2017	HOMOGENIZED TOBACCO MATERIAL	24.01.2019
(54) APPARATUS FOR DRYING AND/OR	(73) Philip Morris Products S.A.	(22) 13.07.2018
ROASTING BEANS OR NIBS	(72) KLIPFEL, Yorick	(54) SIMULATED RESPIRATORY TRACT
(73) Royal Duyvis Wiener B.V.	DOYLE, Michael Elliott	(73) Philip Morris Products S.A.
(72) KOELEMIEJER, Reiner	RAUSIS, Pascal	(72) HERVE, Pierre
(31) 16154459	PIJNENBURG, Johannes Petrus Maria	MAJEED, Shoab
(32) 05.02.2016	MANZUR BEDOYA, Juan David	STEINER, Sandro
(33) European Patent Office (EPO)	JARRIAULT, Marine	(31) 17181667
(51) A24B 15/14	(31) 14187202	(32) 17.07.2017
A24B 3/14	(32) 30.09.2014	(33) European Patent Office (EPO)
A24B 15/18	(33) European Patent Office (EPO)	(51) A24C 5/47
(11) EP3599903	(51) A24C 5/01	A24D 3/02
(21) EP18713256.8	A24C 5/47	A24C 5/01
(47) 30.08.2023	A24D 3/02	(11) EP3632230
(87) EP2018057939	(11) EP3632224	(21) EP19207286.6
04.10.2018	(21) EP19207245.2	(47) 30.08.2023
(22) 28.03.2018	(47) 30.08.2023	(22) 25.10.2013
(54) METHOD FOR PRODUCING A	(22) 25.10.2013	(54) ASSEMBLY METHOD FOR
BOBBIN COMPRISING ALKALOIDS	(54) ASSEMBLY MACHINE FOR	PRODUCING CIGARETTES
CONTAINING MATERIAL	PRODUCING CIGARETTES, AND	(73) G.D SOCIETA' PER AZIONI
(73) Philip Morris Products S.A.	RELATIVE ASSEMBLY METHOD	(72) ESPOSTI, Marco
(72) PRESTIA, Ivan	(73) G.D SOCIETA' PER AZIONI	EUSEPI, Ivan
DEL BORRELLO, Michele	(72) SARTONI, Massimo	SARTONI, Massimo
KLIPFEL, Yorick	ESPOSTI, Marco	GIANESE, Giampaolo
(31) 17163657	GIANESE, Giampaolo	(31) BO20120582
(32) 29.03.2017	EUSEPI, Ivan	(32) 25.10.2012
(33) European Patent Office (EPO)	(31) BO20120582	(33) Italy
(51) A24B 15/16	(32) 25.10.2012	(51) A24C 5/56
A24F 47/00	(33) Italy	(11) EP4003066
(11) EP3826478	(51) A24C 5/01	(21) EP20745235.0
(21) EP19739283.0	A24D 3/02	(47) 30.08.2023
(47) 30.08.2023	A24C 5/47	(87) EP2020071512
(87) EP2019068738	(11) EP3632225	04.02.2021
30.01.2020	(21) EP19207262.7	(22) 30.07.2020
(22) 11.07.2019	(47) 30.08.2023	(54) TIPPING WRAPPER FOR AEROSOL
(54) ARTICLE FOR FORMING AN AEROSOL	(22) 25.10.2013	GENERATING ARTICLE
(73) Philip Morris Products S.A.	(54) ASSEMBLY METHOD FOR	(73) JT International SA
(72) POINDRON, Cyrille	PRODUCING CIGARETTES	(72) HIDESHIMA, Taku
NICOLAS, Frederic	(73) G.D SOCIETA' PER AZIONI	(31) 19189339
BATISTA, Rui Nuno	(72) ESPOSTI, Marco	(32) 31.07.2019
(31) 18185904	SARTONI, Massimo	(33) European Patent Office (EPO)
(32) 26.07.2018	EUSEPI, Ivan	(51) A24D 1/20
(33) European Patent Office (EPO)	GIANESE, Giampaolo	(11) EP3799748
(51) A24B 15/167	(31) BO20120582	(21) EP19934338.5
A24F 40/20	(32) 25.10.2012	(47) 30.08.2023
A24B 15/16	(33) Italy	(87) CN2019095698
(11) EP3902415	(51) A24C 5/32	30.12.2020
(21) EP19829150.2	(11) EP4069001	(22) 12.07.2019
(47) 30.08.2023	(21) EP21700250.0	(54) HEAT-NOT-BURN CIGARETTE
(87) EP2019086109	(47) 30.08.2023	PRODUCT
02.07.2020	(87) EP2021050051	(73) China Tobacco Guangdong Industrial
(22) 18.12.2019	15.07.2021	Co., Ltd.
(54) HIGH VISCOSITY NICOTINE	(22) 05.01.2021	(72) HU, Jing
FORMULATION	(54) CONVEYING DRUM FOR THE	LU, Zhijing
(73) Philip Morris Products, S.A.	TOBACCO-PROCESSING INDUSTRY	LI, Feng
(72) TAURINO, Irene	(73) Körber Technologies GmbH	ZHAO, Ruifeng
SPADARO, Fabiana	(72) HOFMANN, Nils	LIU, Yibo
(31) 18248225	JENDRIAN, Torsten	LIU, Xi
(32) 28.12.2018	MÖRKE, Torsten	SUN, Yang
(33) European Patent Office (EPO)	(31) 102020100437	LI, Huanwei
(51) A24C 5/01	(32) 10.01.2020	(31) 201910568122
A24B 15/14	(33) Germany	(32) 27.06.2019
A24B 3/14	(51) A24C 5/34	(33) China
(11) EP3760056	A24F 47/00	(51) A24D 1/22
(21) EP20192851.2	(11) EP3654783	(11) EP4007502

(21) EP20736709.5	(51) A24F 40/30	A61M 11/04
(47) 30.08.2023	A24F 40/485	A61M 15/06
(87) EP2020069135	A24F 40/10	(11) EP3876762
11.02.2021	A24F 40/20	(21) EP19835942.4
(22) 07.07.2020	(11) EP3818871	(47) 30.08.2023
(54) AEROSOL GENERATING ARTICLE	(21) EP19884932.5	(87) US2019059876
WITH RETAINER	(47) 30.08.2023	14.05.2020
(73) Philip Morris Products, S.A.	(87) KR2019014055	(22) 05.11.2019
(72) LORENZELLI, Michele	22.05.2020	(54) CARTRIDGES FOR VAPORIZER
MOHSENI, Farhang	(22) 24.10.2019	DEVICES
GRAF, Didier	(54) APPARATUS AND SYSTEM FOR	(73) Juul Labs, Inc.
LOUVET, Alexis	GENERATING AEROSOLS	(72) ROSSER, Christopher, James
(31) 19189914	(73) KT&G Corporation	STEAN, Samuel, L.
(32) 02.08.2019	(72) KIM, Tae Hun	(31) 201862755962 P
(33) European Patent Office (EPO)	CHOI, Jae Sung	(32) 05.11.2018
(51) A24F 1/30	(31) 20180141970	(33) United States of America
(11) EP3373754	(32) 16.11.2018	(51) A24F 40/42
(21) EP16815702.2	(33) Korea (Republic)	A61M 11/04
(47) 30.08.2023	(51) A24F 40/40	A61M 15/06
(87) DE2016100530	A24F 40/49	A24D 1/14
18.05.2017	A24F 40/10	A24F 40/20
(22) 10.11.2016	(11) EP3272240	(11) EP3806679
(54) WATER PIPE	(21) EP17199069.0	(21) EP19820091.7
(73) AIR IP Holdings Limited	(47) 30.08.2023	(47) 30.08.2023
(72) GERDES, Jürgen	(22) 29.10.2017	(87) US2019037221
HAGEN, Klaus	(54) ATOMIZER AND ELECTRONIC	19.12.2019
(31) 102015121435	CIGARETTE HAVING SAME	(22) 14.06.2019
102015119348	(73) Shenzhen First Union Technology Co.,	(54) CAPSULES FOR USE IN PERSONAL
(32) 09.12.2015	Ltd.	VAPORIZERS
10.11.2015	(72) DAI, Changzheng	(73) Valley Product Concepts, LLC
(33) Germany	LI, Yonghai	(72) FRANZONE, John, B.
Germany	XU, Zhongli	FLOWER, Nicholas
(51) A24F 15/015	(31) 201621153234 U	KAHL, Leo
A24F 40/95	(32) 31.10.2016	FIORAVANTE, Raymond, J.
A24F 40/10	(33) China	FIORAVANTE, Raymond, H.
(11) EP3536175	(51) A24F 40/42	(31) 201862685543 P
(21) EP19167573.5	A24B 15/167	(32) 15.06.2018
(47) 30.08.2023	A61M 11/04	(33) United States of America
(22) 06.07.2017	A61M 15/00	(51) A24F 40/46
(54) AN ELECTRONIC SMOKING DEVICE	A61M 15/06	A24F 40/44
WITH A ROTATABLE RING-ELEMENT	H05B 1/02	A24F 40/10
(73) Fontem Ventures B.V.	A24F 40/10	(11) EP3888479
(72) Beer, Andreas	A24F 7/02	(21) EP19891359.2
Biel, Stefan	(11) EP3863438	(47) 30.08.2023
(31) 16188825	(21) EP19790826.2	(87) CN2019116005
16188839	(47) 30.08.2023	04.06.2020
16188830	(87) IB2019058707	(22) 06.11.2019
16188833	16.04.2020	(54) ELECTRONIC CIGARETTE ATOMIZER
16187476	(22) 11.10.2019	AND ELECTRONIC CIGARETTE
16187504	(54) CONNECTORS FOR FORMING	COMPRISING SAME
16187508	ELECTRICAL AND MECHANICAL	(73) Shenzhen First Union Technology Co.,
16187489	CONNECTIONS BETWEEN	Ltd.
(32) 14.09.2016	INTERCHANGEABLE UNITS IN AN	(72) HUANG, Desheng
14.09.2016	AEROSOL DELIVERY SYSTEM	XU, Zhongli
14.09.2016	(73) RAI Strategic Holdings, Inc.	LI, Yonghai
14.09.2016	(72) NETTENSTROM, Matthew Joel	WANG, Qigen
06.09.2016	NOVAK, III, Charles Jacob	LI, Zhengfa
06.09.2016	BURCHMAN, Zachary Hy	(31) 201821984847 U
06.09.2016	SCHENNUM, Steven Michael	(32) 29.11.2018
06.09.2016	MCKEON, Thomas Michael	(33) China
(33) European Patent Office (EPO)	(31) 201916386940	(51) A24F 40/465
European Patent Office (EPO)	201862744978 P	A24F 40/50
European Patent Office (EPO)	(32) 17.04.2019	A24F 40/20
European Patent Office (EPO)	12.10.2018	(11) EP3361888
European Patent Office (EPO)	(33) United States of America	(21) EP16788745.4
European Patent Office (EPO)	United States of America	(47) 30.08.2023
European Patent Office (EPO)	(51) A24F 40/42	(87) GB2016053168
European Patent Office (EPO)	A24F 40/00	20.04.2017

(22) 13.10.2016	(31) 13159614	BENTEN, Astrid
(54) A METHOD FOR OPERATING AN ELECTRONIC VAPOUR INHALER	13153360	(31) 102019126193
(73) JT International SA	(32) 15.03.2013	(32) 27.09.2019
(72) BRVENIK, Lubos	30.01.2013	(33) Germany
VANKO, Daniel	(33) European Patent Office (EPO)	(51) A41D 1/084
GILL, Mark	European Patent Office (EPO)	A41F 15/00
(31) 201518244	(51) A24F 47/00	(11) EP3681322
(32) 15.10.2015	A24F 40/44	(21) EP18855858.9
(33) United Kingdom	(11) EP3420829	(47) 30.08.2023
(51) A24F 40/465	(21) EP18179610.3	(87) US2018050293
H05B 6/36	(47) 30.08.2023	21.03.2019
A24F 40/20	(22) 25.06.2018	(22) 10.09.2018
(11) EP3993652	(54) COMPOSITE MICRO-VAPORIZER WICKS	(54) ATHLETIC GARMENT FOR CYCLING
(21) EP20735413.5	(73) Blackship Technologies Development LLC	(73) DashAmerica Inc. D/B/A Pearl Izumi USA Inc.
(47) 30.08.2023	(72) PHILLIPS, Donovan	(72) REHFELDT, Keegan
(87) EP2020068837	XU, Yongjie	MILLER, Melodie
07.01.2021	(31) 201715639139	HOVERTER, Lori
(22) 03.07.2020	(32) 30.06.2017	(31) 201715702592
(54) AN INDUCTIVE HEATING ARRANGEMENT HAVING AN ANNULAR CHANNEL	(33) United States of America	(32) 12.09.2017
(73) Philip Morris Products S.A.	(51) A41C 3/00	(33) United States of America
(72) STURA, Enrico	A41C 3/02	(51) A41D 13/00
MIRONOV, Oleg	A41F 1/00	A41D 13/02
COURBAT, Jerome Christian	(11) EP3838038	A41D 13/01
BATISTA, Rui Nuno	(21) EP21156210.3	(11) EP3539398
CALI, Ricardo	(47) 30.08.2023	(21) EP17868125.0
(31) 19184538	(22) 08.09.2015	(47) 30.08.2023
(32) 04.07.2019	(54) WRAP BACK BRA	(87) ES2017070727
(33) European Patent Office (EPO)	(73) NIKE Innovate C.V.	11.05.2018
(51) A24F 40/57	(72) TEMPESTA, Laura	(22) 02.11.2017
A24F 40/51	(31) 201514845655	(54) PROTECTIVE EQUIPMENT FOR WASP NEST REMOVAL
A24F 40/30	201462050990 P	(73) Xorsa Global, S.L.U.
A24F 40/465	(32) 04.09.2015	(72) SANJURJO FERNANDEZ, José Ramón
A24F 40/50	16.09.2014	(31) 201631306 U
A24F 40/10	(33) United States of America	(32) 03.11.2016
A24F 40/20	United States of America	(33) Spain
(11) EP3954237	(51) A41D 1/00	(51) A41D 13/02
(21) EP21728151.8	A41D 13/00	A41D 13/12
(47) 30.08.2023	A41D 27/10	A41D 13/00
(87) KR2021002181	A41H 1/00	A41D 27/20
23.12.2021	A61B 5/00	B65D 85/18
(22) 22.02.2021	(11) EP3524074	(11) EP4041012
(54) AEROSOL GENERATING DEVICE AND OPERATION METHOD THEREOF	(21) EP19151644.2	(21) EP20808136.4
(73) KT&G Corporation	(47) 30.08.2023	(47) 30.08.2023
(72) JUNG, Sun Hwan	(22) 02.10.2013	(87) EP2020083032
HA, Sung Hoon	(54) ITEM OF CLOTHING	27.05.2021
KWON, Chan Min	(73) Adidas AG	(22) 23.11.2020
(31) 20200073236	(72) TARRIER, James Michael	(54) PROTECTIVE EQUIPMENT FOR A CLEAN ROOM AND A SANITIZED ENVIRONMENT
(32) 16.06.2020	O'MAHONY, David	(73) BeMicron
(33) Korea (Republic)	YEOMANS, Deborah	(72) VANNESTE, Vincent
(51) A24F 47/00	SEIDER, Bettina	(31) 201905827
(11) EP2950674	(31) 102012218068	(32) 22.11.2019
(21) EP14702022.6	(32) 02.10.2012	(33) Belgium
(47) 30.08.2023	(33) Germany	(51) A41D 27/20
(87) EP2014051818	(51) A41D 1/00	A44B 19/26
07.08.2014	A41D 13/05	A41D 13/00
(22) 30.01.2014	(11) EP3797620	(11) EP3831233
(54) IMPROVED AEROSOL FROM TOBACCO	(21) EP20190012.3	(21) EP20202346.1
(73) Philip Morris Products S.A.	(47) 30.08.2023	(47) 30.08.2023
(72) GREIM, Olivier	(22) 07.08.2020	(22) 16.10.2020
RADTKE, Falk	(54) ITEM OF CLOTHING WITH LAYERED STRUCTURE, FUNCTIONAL CLOTHING AND METHOD FOR PRODUCING SUCH AN ITEM OF CLOTHING	(54) ITEM OF CLOTHING WITH A PLURALITY OF POCKETS WITH DIFFERENTIATED ACCESS
LAMA, Nicola	(73) iXS ag	(73) OBER ALP S.p.A.
FERNANDO, Felix	(72) ZESSLER, Anselm Georg	(72) MARCHESONI, Roberto
HAZIZA, Christelle		

(31) 201900022779	(22) 16.11.2020	A43B 23/02
(32) 03.12.2019	(54) HEAD PROTECTION SYSTEM	A43D 3/02
(33) Italy	(73) Dräger Safety AG & Co. KGaA	B29D 35/00
(51) A41D 27/28	(72) Pracht, Steffen	B29D 35/06
A41D 31/18	(31) 102019008043	B29D 35/12
A41D 1/08	(32) 20.11.2019	(11) EP3831234
A41D 13/00	(33) Germany	(21) EP21154374.9
(11) EP3439497	(51) A42B 3/18	(47) 30.08.2023
(21) EP17718303.5	G02C 3/02	(22) 26.07.2019
(47) 30.08.2023	(11) EP3714722	(54) FOOTWEAR WITH PADDING AND
(87) US2017026384	(21) EP20166576.7	MIDSOLE STRUCTURES AND THE
12.10.2017	(47) 30.08.2023	METHOD OF MAKING THE SAME
(22) 06.04.2017	(22) 30.03.2020	(73) adidas AG
(54) AN APPAREL ITEM WITH A	(54) HELMET ASSEMBLY WITH EYEWEAR	(72) PERILLA, Andrea Nieto
VENTILATION INSERT	AND AIR DEFLECTOR SYSTEMS	LESLIE, Andrew Joseph
(73) Nike Innovate C.V.	(73) 100% Speedlab, LLC	WEBRING, Eric
(72) MARTIN, Lindsey V.J.	(72) TAN, Dennis C.	(31) 201816047687
ARNOLD, Jacob R.	YOUNG, Michael D.	(32) 27.07.2018
(31) 201715469929	(31) 202016824555	(33) United States of America
201662319342 P	201962826880 P	(51) A43B 5/02
(32) 27.03.2017	(32) 19.03.2020	A43B 23/02
07.04.2016	29.03.2019	(11) EP3809907
(33) United States of America	(33) United States of America	(21) EP19733103.6
United States of America	United States of America	(47) 30.08.2023
(51) A41F 9/00	(51) A42B 3/32	(87) HU2019050021
A61F 5/00	A42B 3/04	21.11.2019
A61F 5/01	A61F 5/37	(22) 09.05.2019
A61F 5/02	(11) EP3229628	(54) SPORTS SHOE WITH A STRIPED
A61F 2/44	(21) EP15866507.5	PATTERN FACILITATING BALL
A61F 5/03	(47) 30.08.2023	HANDLING
A61F 5/04	(87) IL2015051191	(73) Márton, István
(11) EP3402356	16.06.2016	Lantos, Mihály István
(21) EP17738758.6	(22) 09.12.2015	Oroszi, László
(47) 30.08.2023	(54) AN AIRWAY OPENING DEVICE	Tóth Balogh, Béla
(87) US2017012497	FOR HELMETS AND A HELMET	Kosztá, Miklós
20.07.2017	COMPRISING THE SAME	(72) OROSZI, László
(22) 06.01.2017	(73) Inovytec Medical Solutions Ltd.	LANTOS, Mihály István
(54) EXTERNAL SPINAL BRACE	(72) BARKAI, Nir	(31) 1800162
(73) Murdock, Ryan C.	KANTOR, Ehud	(32) 16.05.2018
(72) Murdock, Ryan C.	(31) 23621614	(33) Hungary
(31) 201615054917	(32) 11.12.2014	(51) A43B 7/14
201662277287 P	(33) Israel	A43B 17/00
(32) 26.02.2016	(51) A43B 1/04	A43B 17/02
11.01.2016	A43B 3/10	A43B 1/00
(33) United States of America	A43B 23/02	A43B 17/14
United States of America	A43B 23/04	(11) EP3735144
(51) A42B 3/04	D04B 1/22	(21) EP18898065.0
G01L 5/00	(11) EP3661381	(47) 30.08.2023
A43B 3/34	(21) EP18756124.6	(87) US2018053674
G01L 1/20	(47) 30.08.2023	11.07.2019
(11) EP3457878	(87) US2018045166	(22) 01.10.2018
(21) EP17711295.0	07.02.2019	(54) CONTOURED PEG INSOLE
(47) 30.08.2023	(22) 03.08.2018	(73) Darco International Inc.
(87) GB2017050665	(54) ARTICLE OF FOOTWEAR HAVING	(72) DIETRICH, Thomas
23.11.2017	A KNITTED COMPONENT WITH A	DARBY II, H. Darrel
(22) 10.03.2017	FOREFOOT PORTION AND A HEEL	ZHANG, Wu
(54) DEVICE AND SYSTEM FOR	PORTION	(31) 201815861929
DETECTING A FORCE	(73) NIKE Innovate C.V.	(32) 04.01.2018
(73) HP1 Technologies Limited	(72) BERRIAN, Travis J.	(33) United States of America
(72) MOOR, Timothy Nicholas	GONG, Weibing	(51) A43B 13/04
(31) 201608867	BLANCHE, Rory S.	A43B 7/144
(32) 20.05.2016	MACGILBERT, John S.	A43B 13/18
(33) United Kingdom	(31) 201762541495 P	C08L 23/08
(51) A42B 3/10	(32) 04.08.2017	C08L 53/00
A42B 3/28	(33) United States of America	C08L 53/02
(11) EP3827683	(51) A43B 1/04	(11) EP3841908
(21) EP20207685.7	A43B 13/12	(21) EP20217162.5
(47) 30.08.2023	A43B 13/38	(47) 30.08.2023

(22) 23.12.2020	(31) 1907999	(21) EP12791166.7
(54) CUSHION AND SHOE	(32) 16.07.2019	(47) 30.08.2023
(73) ASICS Corporation	(33) France	(87) EP2012073411
(72) Tateishi, Junichiro	(51) A44B 19/02	30.05.2013
(31) 2019238124	A44B 19/08	(22) 22.11.2012
(32) 27.12.2019	A44B 19/06	(54) REMOVABLE CONNECTING DEVICE
(33) Japan	(11) EP3791747	OF A BRACELET
(51) A43B 23/02	(21) EP19799628.3	(73) Hublot S.A., Genève
(11) EP3821747	(47) 30.08.2023	(72) DE OLIVEIRA, Stéphane
(21) EP20207544.6	(87) JP2019017816	(31) 18702011
(47) 30.08.2023	14.11.2019	(32) 22.11.2011
(22) 13.11.2020	(22) 25.04.2019	(33) Switzerland
(54) FOOTWEAR WITH WATERPROOF SEAMS	(54) FASTENER STRINGER	(51) A44C 17/04
(73) TBL Licensing LLC	(73) YKK Corporation	(11) EP3817619
(72) LANKFORD, Pete	(72) HIMI Naoyuki	(21) EP19733834.6
BODNER, Keith	TANAKA Syogo	(47) 30.08.2023
(31) 201962935876 P	HAMAMATSU Satoshi	(87) EP2019067778
(32) 15.11.2019	NGUYEN Trung Hieu	09.01.2020
(33) United States of America	(31) 201801982	(22) 02.07.2019
(51) A43B 23/02	(32) 10.05.2018	(54) JEWELLERY ITEM COMPRISING
A43B 9/02	(33) Viet Nam	A THREE-DIMENSIONAL MESH
(11) EP3668337	(51) A44B 19/26	FOR SUPPORTING DECORATIVE
(21) EP17817576.6	A44B 19/42	ELEMENTS
(47) 30.08.2023	B29C 45/00	(73) Cartier International AG
(87) US2017064012	B22D 17/16	(72) GUILLOTIN, Aline
21.02.2019	A44B 19/30	PROVENT, Ludovic
(22) 30.11.2017	A44B 19/32	BERNARD, Philippe
(54) NONWOVEN TEXTILE FOR FOOTWEAR WITH ENTANGLED FOLDED EDGE	(11) EP3435808	(31) 1856163
(73) NIKE Innovate C.V.	(21) EP17732611.3	(32) 04.07.2018
(72) GREENE, Pamela S.	(47) 30.08.2023	(33) France
DUA, Bhupesh	(87) US2017025385	(51) A45C 11/18
(31) 201762546423 P	05.10.2017	A45C 1/06
(32) 16.08.2017	(22) 31.03.2017	(11) EP3998899
(33) United States of America	(54) METAL ONE PIECE SLIDE AND PULL FOR SLIDE FASTENER	(21) EP20739378.6
(51) A43C 11/16	(73) Shah Technologies LLC	(47) 30.08.2023
A43B 3/00	(72) SHAH, Nirav, Ashok	(87) EP2020069951
A43C 11/00	(31) 201621011697	21.01.2021
A43C 11/14	201615385294	(22) 15.07.2020
A43C 7/08	201615385000	(54) HOLDING DEVICE FOR CARDS AND/OR MONEY
(11) EP3799760	(32) 01.04.2016	(73) Wimex Srl
(21) EP20210391.7	20.12.2016	(72) ZÖSCHG, Elmar
(47) 30.08.2023	20.12.2016	(31) 201900012096
(22) 10.03.2017	(33) India	(32) 17.07.2019
(54) FOOTWEAR TENSIONING SYSTEM WITH GUIDE ASSEMBLY	United States of America	(33) Italy
(73) NIKE Innovate C.V.	United States of America	(51) A45D 19/00
(72) OWINGS, Andrew A.	(51) A44B 19/30	A45D 7/00
BEERS, Tiffany A.	A44B 19/38	(11) EP3644783
(31) 201615070164	A45C 13/10	(21) EP18731862.1
(32) 15.03.2016	(11) EP3823489	(47) 30.08.2023
(33) United States of America	(21) EP19745007.5	(87) EP2018066727
(51) A44B 18/00	(47) 30.08.2023	03.01.2019
A61F 13/62	(87) US2019040153	(22) 22.06.2018
D04H 1/559	23.01.2020	(54) HAIR TREATMENT SYSTEM
D04H 1/56	(22) 01.07.2019	(73) L'OREAL
D04H 3/16	(54) RELEASABLE FASTENER	(72) ROBINAULT, Jean-Luc
(11) EP3998897	(73) NIKE Innovate C.V.	SAMAIN, Henri
(21) EP20739366.1	(72) SCHEPKE, Kyle	(31) 1756117
(47) 30.08.2023	BASCHAK, Kimberly D.	(32) 30.06.2017
(87) EP2020069670	(31) 201916453059	(33) France
21.01.2021	201862700310 P	(51) A45D 26/00
(22) 10.07.2020	(32) 26.06.2019	G02B 6/42
(54) IMPROVED FASTENING TAPE	18.07.2018	A61B 18/20
(73) Aplix	(33) United States of America	(11) EP4082386
(72) GRIMMELPREZ, Damien, Jean, Jacques	United States of America	(21) EP20907577.9
(31) 1907999	(51) A44C 5/14	(47) 30.08.2023
(32) 16.07.2019	G04B 37/14	(87) JP2020041369
(33) France	(11) EP2782469	01.07.2021

(22) 05.11.2020	(51) A47B 88/90	(51) A47C 3/18
(54) HAIR CUTTING MEMBER AND HAIR CUTTING DEVICE	B25H 3/00	B60N 2/075
(73) Panasonic Intellectual Property Management Co., Ltd.	G06Q 10/08	B60N 2/14
(72) KASUGAI, Hideki	(11) EP3657986	(11) EP3888498
(31) 2019234944	(21) EP18816044.4	(21) EP19890039.1
(32) 25.12.2019	(47) 30.08.2023	(47) 30.08.2023
(33) Japan	(87) EP2018084142	(87) JP2019045930
(51) A45D 34/04	20.06.2019	04.06.2020
A45D 40/26	(22) 10.12.2018	(22) 25.11.2019
A45D 40/10	(54) STORAGE UNIT	(54) SEAT-ROTATING DEVICE
(11) EP3756504	(73) Würth International AG	(73) TS Tech Co., Ltd.
(21) EP20156877.1	(72) KOCH, Simon	(72) KANEDA, Takuji
(47) 30.08.2023	HOHL, Wolfgang	MOCHIZUKI, Haruki
(22) 12.02.2020	(31) 102017129562	AKUTSU, Takeshi
(54) BUTTON TYPE LIP GLOSS TUBE	(32) 12.12.2017	(31) 2019046309
(73) APR Beauty Group Inc.	(33) Germany	2019026600
(72) Shen, Jun	(51) A47B 95/00	2019011615
(31) 201920953334 U	(11) EP3823498	2019008028
201916502400	(21) EP19742955.8	2018220691
(32) 24.06.2019	(47) 30.08.2023	(32) 13.03.2019
03.07.2019	(87) IB2019055783	18.02.2019
(33) China	23.01.2020	25.01.2019
United States of America	(22) 08.07.2019	21.01.2019
(51) A45D 40/02	(54) SUPPORTING DEVICE FOR A CANTILEVERED TUBULAR STRUCTURE	26.11.2018
A45D 40/04	(73) LEONARDO S.r.l.	(33) Japan
A45D 40/06	(72) CATTANEO, Carlo	Japan
A45D 40/00	(31) 201800007330	Japan
(11) EP3829387	(32) 19.07.2018	Japan
(21) EP19753163.5	(33) Italy	(51) A47C 3/20
(47) 30.08.2023	(51) A47B 96/00	A47C 9/08
(87) FR2019051774	A47B 57/06	(11) EP3865008
30.01.2020	B25J 1/04	(21) EP19813066.8
(22) 16.07.2019	B25J 1/08	(47) 30.08.2023
(54) DEVICE FOR PACKAGING AND APPLYING A COSMETIC PRODUCT	B64D 11/04	(87) ES2019070668
(73) Parfums Christian Dior	B65G 7/02	16.04.2020
(72) DA ROVARÉ, Rodolphe	B65G 7/12	(22) 04.10.2019
AUTIÉ, Noël	B65G 1/06	(54) IMPROVED HEIGHT-ADJUSTABLE BENCH
(31) 1857046	B64D 11/00	(73) Hidrau Model, S.L.
(32) 27.07.2018	A47F 1/12	(72) ROMERA CARRIÓN, Antonio Raúl
(33) France	(11) EP3823499	(31) 201830974
(51) A45F 3/04	(21) EP19837960.4	(32) 08.10.2018
A61H 39/04	(47) 30.08.2023	(33) Spain
(11) EP3892152	(87) US2019042241	(51) A47C 7/42
(21) EP19891888.0	23.01.2020	A47C 17/04
(47) 30.08.2023	(22) 17.07.2019	(11) EP3903644
(87) JP2019023401	(54) CONTAINER EXTRACTION ASSEMBLY	(21) EP20845658.2
11.06.2020	(73) Safran Cabin Netherlands N.V.	(47) 30.08.2023
(22) 13.06.2019	(72) VALMING, Paul Cornelis	(87) CN2020122033
(54) RUCKSACK	(31) 201862699616 P	23.09.2021
(73) Riverfield Corporation	(32) 17.07.2018	(22) 20.10.2020
(72) KAWAHARA, Kiyoshi	(33) United States of America	(54) SOFA BACKREST CONNECTING STRUCTURE AND SOFA ASSEMBLY
(31) 2018227631	(51) A47C 3/18	(73) Remacro Machinery & Technology (Wujiang) Co., Ltd.
(32) 04.12.2018	(11) EP4061182	(72) CHEN, Weiming
(33) Japan	(21) EP21799359.1	LI, Xiaohong
(51) A47B 81/00	(47) 30.08.2023	(31) 202020350379 U
(11) EP3804564	(87) PL2021000067	(32) 19.03.2020
(21) EP19202558.3	18.08.2022	(33) China
(47) 30.08.2023	(22) 14.09.2021	(51) A47C 23/06
(22) 10.10.2019	(54) SEAT SWIVEL MECHANISM FOR UPHOLSTERED FURNITURE	A47C 19/04
(54) PULL-OUT DEVICE FOR A CORNER CABINET	(73) DFM Spolka z Ograniczona Odpowiedzialnoscia	(11) EP3648637
(73) Peka-Metall AG	(72) DZIENISZEWSKI, Zdzislaw	(21) EP18734252.2
(72) Weber, Bernhard	(31) 43698821	(47) 30.08.2023
Schmidig, Adrian	(32) 13.02.2021	(87) EP2018067953
	(33) Poland	10.01.2019

(22) 03.07.2018	EWING, Brent	14.07.2018
(54) SLATTED SUPPORT STRUCTURE	(31) 201916295056	(33) Türkiye
(73) Bedking Ergopolis	201862646115 P	Türkiye
(72) RUYTJENS, Tim	(32) 07.03.2019	Türkiye
VAN CAMPENHOUT, Lukas	21.03.2018	Türkiye
MANNEKENS, Pascal	(33) United States of America	(51) A47J 31/36
(31) 17179440	United States of America	A47J 31/40
(32) 03.07.2017	(51) A47F 5/11	A47J 31/18
(33) European Patent Office (EPO)	(11) EP3981296	(11) EP4054388
(51) A47D 1/00	(21) EP21202243.8	(21) EP20829705.1
A47D 1/10	(47) 30.08.2023	(47) 30.08.2023
A47D 1/02	(22) 12.10.2021	(87) TR2020051018
(11) EP3998910	(54) COMPACT FOLDING DISPLAY UNIT	06.05.2021
(21) EP20745296.2	(73) Smurfit Kappa France	(22) 29.10.2020
(47) 30.08.2023	(72) BALLANGER, Adrien	(54) A HOT BEVERAGE PREPARING
(87) IB2020056343	(31) 2010425	DEVICE
21.01.2021	(32) 12.10.2020	(73) Arzum Elektrikli Ev Aletleri San. Ve Tic.
(22) 06.07.2020	(33) France	A.S.
(54) BOOSTER SEAT FOR CHILDREN	(51) A47J 31/00	(72) AT LLA, Ersoy
(73) Artsana S.p.A.	A47J 31/52	(31) 201916761
(72) FESTA, Antonella	A47J 31/36	(32) 30.10.2019
(31) 201900011862	(11) EP3996558	(33) Türkiye
(32) 16.07.2019	(21) EP20754021.2	(51) A47J 31/44
(33) Italy	(47) 30.08.2023	(11) EP3275348
(51) A47D 1/02	(87) IB2020056512	(21) EP17180811.6
A47D 1/00	14.01.2021	(47) 30.08.2023
A47D 1/10	(22) 10.07.2020	(22) 11.07.2017
(11) EP3998911	(54) ESPRESSO COFFEE MACHINE	(54) DRINKS VENDING MACHINE, IN
(21) EP20745295.4	(73) EVOCA S.p.A.	PARTICULAR COFFEE MACHINE, AND
(47) 30.08.2023	(72) LIBERALI, Marco	METHOD FOR OPERATING SAME
(87) IB2020056342	(31) 201900011538	(73) Schaerer AG
21.01.2021	(32) 11.07.2019	(72) Frey, Florian
(22) 06.07.2020	(33) Italy	da Costa, Miguel
(54) BOOSTER SEAT FOR CHILDREN	(51) A47J 31/06	(31) 9692016
(73) Artsana S.p.A.	A47J 31/36	(32) 26.07.2016
(72) FESTA, Antonella	(11) EP3032989	(33) Switzerland
(31) 201900011859	(21) EP14750490.6	(51) A47J 31/44
(32) 16.07.2019	(47) 30.08.2023	(11) EP3791763
(33) Italy	(87) EP2014067286	(21) EP20188809.6
(51) A47D 11/00	19.02.2015	(47) 30.08.2023
A47B 88/413	(22) 13.08.2014	(22) 31.07.2020
A47B 83/00	(54) CAPSULE MULTI-PIERCING	(54) COFFEE MACHINE EQUIPPED WITH
A47B 87/00	(73) Société des Produits Nestlé S.A.	MILK CARAFE
(11) EP3797650	(72) COLANTONIO, Jean-Luc	(73) De'Longhi Appliances S.r.l.
(21) EP20198209.7	FLICK, Jean-Marc	(72) MIATELLO, Dario
(47) 30.08.2023	(31) 13180164	(31) 201900016031
(22) 24.09.2020	(32) 13.08.2013	(32) 10.09.2019
(54) STORAGE FURNITURE WITH	(33) European Patent Office (EPO)	(33) Italy
STORAGE ELEMENT AND METHOD	(51) A47J 31/18	(51) A47J 31/46
OF USE	A47J 31/52	(11) EP3813607
(73) de Bernardi, Paul	(11) EP3678520	(21) EP19736320.3
(72) de Bernardi, Paul	(21) EP19837716.0	(47) 30.08.2023
(31) 1910686	(47) 30.08.2023	(87) EP2019066756
(32) 27.09.2019	(87) TR2019050547	02.01.2020
(33) France	23.01.2020	(22) 25.06.2019
(51) A47F 1/12	(22) 09.07.2019	(54) COFFEE MACHINE WITH APPARATUS
A47F 3/00	(54) TURKISH COFFEE BREWING METHOD	FOR REMOVING COFFEE FOAM
A47F 5/08	WITH CAPACITIVE SENSOR AND THE	FROM COFFEE LIQUID
A47F 10/02	MACHINE THEREOF	(73) Spengler GmbH & Co. KG
(11) EP3753456	(73) Smarte Teknoloji Ve Enerji San. Tic. A.S.	(72) HEUBERGER, Ralf
(21) EP20190717.7	(72) BALLIKAYA, Melih	(31) 102018005029
(47) 30.08.2023	(31) 201909936	(32) 26.06.2018
(22) 18.03.2019	201813175	(33) Germany
(54) RETAIL MERCHANDISE PUSHER	201811317	(51) A47J 31/54
SYSTEM	201810055	(11) EP3998917
(73) Fasteners for Retail, Inc.	(32) 03.07.2019	(21) EP20750736.9
(72) MAN, Chan Chor	13.09.2018	(47) 30.08.2023
NAGEL, Thomas O.	06.08.2018	

(87) IB2020056541 21.01.2021	(54) HOT AIR COOKING APPLIANCE PROVIDED WITH A BASE FOR RECEIVING A COOKING VESSEL AND A LOCKING DEVICE BETWEEN THE CONTAINER AND THE BASE	(32) 22.02.2017 (33) United States of America
(22) 13.07.2020		(51) A47K 1/00
(54) ELECTRIC HEATER, IN PARTICULAR FOR A HOUSEHOLD APPLIANCE FOR PREPARING HOT BEVERAGES	(73) SEB S.A.	A47C 17/84 A47B 51/00
(73) I.R.C.A. S.p.a. Industria Resistenze Corazzate e Affini	(72) DUMOUX, Philippe BAILLY, Adrien PRIETO, Guillaume	(11) EP3409156 (21) EP18000478.0 (47) 30.08.2023 (22) 28.05.2018
(72) WEDAM, Stefano ZOPPAS, Federico	(31) 1909530 (32) 29.08.2019 (33) France	(54) FURNITURE DEVICE WITH A HEIGHT ADJUSTABLE FURNITURE ELEMENT
(31) 201900011745 (32) 15.07.2019 (33) Italy	(51) A47J 37/06 A47J 37/00 A47J 37/04 A47J 37/07	(73) ATO FORM GmbH (72) Kilburn, Joshua (31) 202017103228 U (32) 30.05.2017 (33) Germany
(51) A47J 36/02 A47J 27/00	(11) EP3373783 (21) EP16864735.2 (47) 30.08.2023	(51) A47K 10/16 (11) EP3603469 (21) EP17902446.8 (47) 30.08.2023 (87) JP2017042805 27.09.2018
(11) EP3175751 (21) EP16201997.0 (47) 30.08.2023 (22) 02.12.2016	(87) US2016056202 18.05.2017 (22) 08.10.2016	(22) 29.11.2017 (54) PRODUCTION METHOD FOR CORELESS PAPER ROLL
(54) HEAT CONDUCTION PLATE AND COOKING VESSEL WITH SAME	(73) Barajas, Wilfrido Nexgrill Industries, Inc. Lin, Sherman	(73) Corelex Shin-Ei Co., Ltd. (72) KUROSAKI, Satoshi (31) 2017058403 (32) 24.03.2017 (33) Japan
(73) ACS Coating Systems GmbH (72) Stecher, Christoph (31) 102015015545 (32) 03.12.2015 (33) Germany	(72) LIN, Sherman BARAJAS, Wilfrido	(51) A47L 9/00 (11) EP3773106 (21) EP19810123.0 (47) 30.08.2023 (87) KR2019006388 05.12.2019 (22) 28.05.2019
(51) A47J 36/24 (11) EP3977901 (21) EP21208864.5 (47) 30.08.2023 (22) 29.01.2019	(31) 201514881449 (32) 10.11.2015 (33) United States of America	(54) CLEANER STAND AND CLEANING APPARATUS HAVING THE SAME
(54) ACTIVELY HEATED OR COOLED INFANT BOTTLE SYSTEM	(51) A47J 41/00 A47J 41/02	(73) Samsung Electronics Co., Ltd. (72) KO, Gi Hoon NAM, Yeon-Young
(73) Ember Technologies, Inc. (72) TIMPERI, Mikko, Juhani GSCHWANDTL, Martin WAKEHAM, Christopher, Thomas LEITH, Daren, John ALEXANDER, Clayton	(31) 201862624657 P (32) 31.01.2018 (33) United States of America	(31) 20180061353 (32) 29.05.2018 (33) Korea (Republic)
(31) 201862624657 P (32) 31.01.2018 (33) United States of America	(73) Global Designs Co (72) VICTOR, Kingston (31) 201841023949 (32) 27.06.2018 (33) India	(51) A47L 9/00 (11) EP4104733 (21) EP22184895.5 (47) 30.08.2023 (22) 31.03.2017
(51) A47J 36/24 A47J 36/26 A47G 19/12 A47G 19/14 A47J 41/00 A47G 19/22 A61J 9/00	(51) A47J 43/27 A47J 31/40 A47J 31/52 B01F 25/314 B01F 25/316 B01F 33/84 B01F 35/83 B01F 33/501	(54) CLEANING APPARATUS
(11) EP3510903 (21) EP18207642.2 (47) 30.08.2023 (22) 17.06.2015	(11) EP3585224 (21) EP18757631.9 (47) 30.08.2023 (87) US2018019295 30.08.2018 (22) 22.02.2018	(73) LG Electronics Inc. (72) HWANG, Mantae HWANG, Jungbae KIM, Jinju SUNG, Eunji HWANG, Philjae AN, Hyeonjeong KIM, Namhee NAM, Bohyun LEE, Taekgi
(54) HEATED OR COOLED DISHWARE AND DRINKWARE	(54) ADDITIVE DELIVERY CONTROL SYSTEM	(31) 20160108313 20160070220 20160059472 20160039814
(73) Ember Technologies, Inc. (72) ALEXANDER, Clayton (31) 201514712813 201414312366 (32) 14.05.2015 23.06.2014 (33) United States of America United States of America	(73) Cirkul, Inc. (72) BAARMAN, David, W. WAGGONER, Garrett, S. GAY, Andrew, J.	(32) 25.08.2016 07.06.2016 16.05.2016
(51) A47J 37/06 (11) EP3785584 (21) EP20189715.4 (47) 30.08.2023 (22) 05.08.2020	(31) 201762462310 P	

31.03.2016	(72) XIE, Minzhao	(33) China
(33) Korea (Republic)	LIN, Weijing	(51) A47L 11/30
Korea (Republic)	(31) 202110168123	A47L 11/40
Korea (Republic)	(32) 05.02.2021	(11) EP3804600
Korea (Republic)	(33) China	(21) EP20200730.8
(51) A47L 9/04	(51) A47L 9/06	(47) 30.08.2023
(11) EP3554331	A47L 9/04	(22) 08.10.2020
(21) EP16900773.9	(11) EP4046557	(54) FLOOR SCRUBBER DRIER
(47) 30.08.2023	(21) EP22157108.6	(73) Adiatek S.r.l.
(87) US2016066942	(47) 30.08.2023	(72) GIUPPONI, Renato
21.06.2018	(22) 16.02.2022	RIGO, Giuliano
(22) 15.12.2016	(54) ROBOT VACUUM CLEANER	(31) 201900018527
(54) CLEANING ROLLER FOR CLEANING	EQUIPPED WITH AT LEAST ONE	(32) 11.10.2019
ROBOTS	FIXED LATERAL CLEANING ELEMENT	(33) Italy
(73) iRobot Corporation	(73) SEB S.A.	(51) A47L 13/22
(72) BLOUIN, Matthew	(72) DELAIR, Laurent	A01M 7/00
GODDARD, William	BOILLET, Mickael	B25G 1/04
(51) A47L 9/04	(31) 2101608	B65D 83/20
(11) EP3834691	(32) 18.02.2021	A47L 13/256
(21) EP20212908.6	(33) France	A47L 13/51
(47) 30.08.2023	(51) A47L 9/10	(11) EP4003125
(22) 09.12.2020	A47L 5/28	(21) EP20750749.2
(54) CLEANING HEAD PROVIDED WITH A	A47L 9/00	(47) 30.08.2023
REMOVABLE CLEANING ELEMENT	A47L 9/02	(87) IB2020057037
(73) SEB S.A.	A47L 9/12	04.02.2021
(72) MARTI, Antoine	A47L 11/24	(22) 24.07.2020
CORITON, Nicolas	A47L 11/33	(54) FLOOR MOP
(31) 1913983	(11) EP3873314	(73) Carl Freudenberg KG
(32) 09.12.2019	(21) EP19880507.9	(72) WEHRLI, Eric
(33) France	(47) 30.08.2023	METZEL, Doug
(51) A47L 9/04	(87) US2019059327	(31) 201916528083
(11) EP3973837	07.05.2020	(32) 31.07.2019
(21) EP21195514.1	(22) 01.11.2019	(33) United States of America
(47) 30.08.2023	(54) CLEANING DEVICE	(51) A47L 13/22
(22) 08.09.2021	(73) SharkNinja Operating LLC	A47L 13/254
(54) VACUUM CLEANER WITH HEAD	(72) MATHIAS, Richard	(11) EP4003124
(73) BSH Hausgeräte GmbH	DOUGLAS, Michael, James	(21) EP20749964.1
(72) Kühnel, Markus	(31) 201862754453 P	(47) 30.08.2023
Schreiner, Dominik	(32) 01.11.2018	(87) IB2020057034
Hohmann, Michael	(33) United States of America	04.02.2021
Hassfurter, Stefan	(51) A47L 9/28	(22) 24.07.2020
(31) 102020212045	(11) EP3711648	(54) FLOOR MOP
(32) 24.09.2020	(21) EP20159286.2	(73) Carl Freudenberg KG
(33) Germany	(47) 30.08.2023	(72) WEHRLI, Eric
(51) A47L 9/04	(22) 20.11.2015	METZEL, Doug
(11) EP4011261	(54) WALL FOLLOWING ROBOT	(31) 201916528050
(21) EP21207557.6	(73) iRobot Corporation	(32) 31.07.2019
(47) 30.08.2023	(72) LU, Ping-Hong	(33) United States of America
(22) 10.11.2021	WOLFE, Brian	(51) A47L 13/24
(54) SWEEPING ASSEMBLY, CLEANING	(31) 201514682760	A47L 13/50
APPLIANCE, AND METHOD FOR	(32) 09.04.2015	(11) EP3682786
CLEANING APPLIANCE	(33) United States of America	(21) EP19152509.6
(73) Techtronic Cordless GP	(51) A47L 11/24	(47) 30.08.2023
(72) LIU, Hui Shu	A47L 9/00	(22) 18.01.2019
(31) 202011246350	(11) EP4111930	(54) SURFACE CLEANING DEVICE
(32) 10.11.2020	(21) EP21777611.1	(73) JEMAKO Produktionsgesellschaft mbH
(33) China	(47) 30.08.2023	(72) Griebe, Oliver
(51) A47L 9/04	(87) CN2021097957	(51) A47L 13/58
(11) EP4039154	24.11.2022	(11) EP3820344
(21) EP22154097.4	(22) 02.06.2021	(21) EP19735544.9
(47) 30.08.2023	(54) GARBAGE COLLECTION SYSTEM OF	(47) 30.08.2023
(22) 28.01.2022	CLEANING ROBOT	(87) EP2019067553
(54) ROLLER BRUSH ASSEMBLY AND	(73) Shenzhen Hua Xin Information	16.01.2020
CLEANING ROBOT	Technology Co., Ltd.	(22) 01.07.2019
(73) Yunjing Intelligence (Shenzhen) Co., Ltd.	(72) LI, Junying	(54) BUCKET AND CLEANING SYSTEM
Yunjiao Intelligence Innovation	YU, Pengtao	COMPRISING SUCH A BUCKET
(Shenzhen) Co., Ltd.	(31) 202110559204	(73) Carl Freudenberg KG
	(32) 21.05.2021	

- (72) DINGERT, Uwe
WEIS, Norbert, Dr.
(31) 102018116774
(32) 11.07.2018
(33) Germany
-
- (51) A47L 13/58
(11) EP3923777
(21) EP20704026.2
(47) 30.08.2023
(87) EP2020053658
20.08.2020
(22) 12.02.2020
(54) WRINGING DEVICE FOR A MOP
(73) LA BROSSE & DUPONT MAISON
(72) POUSSIN, Mickaël
(31) 1901536
(32) 14.02.2019
(33) France
-
- (51) A47L 15/23
A47L 15/42
(11) EP2687141
(21) EP12425122.4
(47) 30.08.2023
(22) 16.07.2012
(54) A dishwasher
(73) Candy S.p.A.
(72) Fumagalli, Aldo
-
- (51) A47L 15/42
(11) EP3777639
(21) EP20185738.0
(47) 30.08.2023
(22) 14.07.2020
(54) WATER-CONDUCTING DOMESTIC
APPLIANCE AND METHOD FOR
OPERATING A WATER-CONDUCTING
DOMESTIC APPLIANCE
(73) E.G.O. Elektro-Gerätebau GmbH
(72) Schaumann, Uwe
Moch, Benedict
Thimm, Wolfgang
(31) 102019211099
(32) 25.07.2019
(33) Germany
-
- (51) A61B 1/00
G02B 23/24
(11) EP3689219
(21) EP19213687.7
(47) 30.08.2023
(22) 21.07.2015
(54) MULTI-FOCAL, MULTI-CAMERA
ENDOSCOPE SYSTEMS
(73) EndoChoice, Inc.
(72) SALMAN, Golan
DAVID, Uri
LEVY, Idan
LEVIN, Victor
(31) 201462029764 P
201462027005 P
(32) 28.07.2014
21.07.2014
(33) United States of America
United States of America
-
- (51) A61B 1/005
(11) EP3697283
(21) EP18796097.6
(47) 30.08.2023
(87) IB2018001154
- 25.04.2019
(22) 15.10.2018
(54) METHOD FOR PRODUCING AN
ENDOSCOPE INSERTION TUBE
AND ENDOSCOPE COMPRISING AN
INSERTION TUBE
(73) Hoya Corporation
(72) DO, Anh Minh
VIEBACH, Thomas
(31) 102017123975
(32) 16.10.2017
(33) Germany
-
- (51) A61B 1/005
A61B 1/00
(11) EP3697284
(21) EP18797086.8
(47) 30.08.2023
(87) IB2018001155
25.04.2019
(22) 15.10.2018
(54) METHOD FOR PRODUCING AN
ENDOSCOPE INSERTION TUBE
AND ENDOSCOPE COMPRISING AN
INSERTION TUBE
(73) Hoya Corporation
(72) VIEBACH, Thomas
DO, Anh Minh
(31) 102017123975
(32) 16.10.2017
(33) Germany
-
- (51) A61B 1/267
A61B 1/06
A61B 1/05
A61B 1/00
(11) EP3875023
(21) EP20858890.5
(47) 30.08.2023
(87) CN2020086637
04.03.2021
(22) 24.04.2020
(54) LARYNGOSCOPE
(73) SZ Hugemed Med Tech Dev Co., Ltd
(72) HU, Jifan
ZHANG, Yuesong
(31) 201910785818
(32) 23.08.2019
(33) China
-
- (51) A61B 3/00
A61B 3/06
G16H 50/20
G16H 50/30
(11) EP3648657
(21) EP18742587.1
(47) 30.08.2023
(87) GB2018051938
10.01.2019
(22) 09.07.2018
(54) A METHOD AND APPARATUS FOR
MEASURING A PROPERTY OF AN EYE
(73) The University of Manchester
(72) KELLY, Jeremiah Michael Francis
(31) 201710991
(32) 07.07.2017
(33) United Kingdom
-
- (51) A61B 3/036
(11) EP3823516
(21) EP19749454.5
(47) 30.08.2023
- (87) NL2019050448
23.01.2020
(22) 16.07.2019
(54) A METHOD FOR PERFORMING AN
ASTIGMATISM POWER TEST USING
A COMPUTING DEVICE HAVING A
SCREEN FOR DISPLAYING IMAGES
RELATING TO SAID ASTIGMATISM
POWER TEST, AS WELL AS A
CORRESPONDING COMPUTING
DEVICE
(73) Easee Health B.V.
(72) PREVOO, Yves Franco Diano Maria
(31) 2021310
(32) 16.07.2018
(33) Netherlands
-
- (51) A61B 3/117
A61B 3/14
(11) EP3197341
(21) EP15843466.2
(47) 30.08.2023
(87) SG2015050341
31.03.2016
(22) 25.09.2015
(54) PROBE FOR IRIDOCORNEAL ANGLE
IMAGING
(73) Nanyang Technological University
Singapore Health Services Pte Ltd
(72) AUNG, Tin
MANI, Baskaran
VADAKKE MATHAM, Murukeshan
VENGALATHUNADAKAL
KUTTINARAYANAN, Shinoj
(31) 10201406064V
(32) 25.09.2014
(33) Singapore
-
- (51) A61B 5/00
(11) EP4005468
(21) EP21210224.8
(47) 30.08.2023
(22) 24.11.2021
(54) AUTONOMIC NERVE INDEX
CALCULATION SYSTEM, AUTONOMIC
NERVE INDEX CALCULATION
METHOD, AND AUTONOMIC NERVE
INDEX CALCULATION PROGRAM
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
(72) HAYASHI, Keiji
YAMADA, Hitoshi
YAMAGUCHI, Yuhei
ARAI, Kyosuke
(31) 2020195961
(32) 26.11.2020
(33) Japan
-
- (51) A61B 5/00
A61B 5/02
A61B 5/103
H04M 1/72409
(11) EP3332698
(21) EP17206790.2
(47) 30.08.2023
(22) 12.12.2017
(54) WIRELESS DATA COMMUNICATION
AND POWER TRANSMISSION
ATHLETIC APPAREL MODULE
(73) Adidas AG
(72) TORVINEN, Vesa-Pekka
WELKER, Michael

NORRIDGE, Marc Simon Anthony WERNER, Jon Harald (31) 201615375748 (32) 12.12.2016 (33) United States of America	(54) NEBULIZATION DEVICE COMPRISING AN APPARATUS FOR CHECKING AND CONTROLLING BREATHING OF A PATIENT (73) Flaem Nuova S.p.A. (72) Abate, Riccardo Bertelli, Mauro Ongaretti, Luca	Ontex BV (72) Hellmold, Jens Heirman, Lisa
(51) A61B 5/00 A61B 5/03 A61N 1/05 A61N 1/36 A61M 25/00 (11) EP3939647 (21) EP21192453.5 (47) 30.08.2023 (22) 06.11.2015 (54) MANUFACTURING OF A CATHETER FOR RECOVERY OF DYSPHAGIA (73) Phagenesis Limited (72) MULROONEY, Conor MATEI, Veronika (31) 201419792 (32) 06.11.2014 (33) United Kingdom	(72) Abate, Riccardo Bertelli, Mauro Ongaretti, Luca (51) A61B 5/00 A61B 5/145 A61B 5/1486 (11) EP3128902 (21) EP15721360.4 (47) 30.08.2023 (87) US2015020796 15.10.2015 (22) 16.03.2015 (54) SENSOR FOR CONTINUOUS ANALYTE MONITORING (73) Dexcom, Inc. (72) ESTES, Michael, J. JACKSON, Jeff SIMPSON, Peter, C. PRYOR, Jack MITCHELL, Jason RONG, Daiting BLACKWELL, Jennifer BOHM, Sebastian SHETH, Disha, B. SAINT, Sean, T. WANG, Shanger (31) 201414250341 201414250320 (32) 10.04.2014 10.04.2014 (33) United States of America United States of America	(51) A61B 5/00 A61B 5/24 A61B 5/291 A61B 5/377 A61N 1/04 (11) EP3065636 (21) EP14861025.6 (47) 30.08.2023 (87) US2014064433 14.05.2015 (22) 06.11.2014 (54) SYSTEMS AND METHODS FOR DETECTING NERVE FUNCTION (73) SafeOp Surgical, Inc. (72) LABELLE, Curt MAHON, Cameron (31) 201461926876 P 201361901345 P (32) 13.01.2014 07.11.2013 (33) United States of America United States of America
(51) A61B 5/00 A61B 5/053 A61B 5/06 A61B 5/1473 A61F 2/958 (11) EP3883458 (21) EP19813250.8 (47) 30.08.2023 (87) EP2019081636 28.05.2020 (22) 18.11.2019 (54) MULTIFUNCTIONAL USE OF AN ELECTRODE STRUCTURE OF A BALLOON OF A BALLOON CATHETER SYSTEM (73) BIOTRONIK AG (72) QUINT, Bodo (31) 102018129435 (32) 22.11.2018 (33) Germany	(51) A61B 5/00 A61B 5/18 A61B 5/0295 A61B 5/1455 (11) EP3673798 (21) EP18848157.6 (47) 30.08.2023 (87) JP2018025433 28.02.2019 (22) 05.07.2018 (54) BIOMETRIC APPARATUS AND HEAD MOUNT DISPLAY DEVICE (73) Panasonic Intellectual Property Management Co., Ltd. (72) SHIONO, Teruhiro YANAGIDA, Masaaki ANDO, Takamasa (31) 2017161282 (32) 24.08.2017 (33) Japan	(51) A61B 5/00 A61B 5/30 A61B 8/00 A61B 8/08 A61B 8/12 A61N 5/06 G16H 50/30 (11) EP3380005 (21) EP16810234.1 (47) 30.08.2023 (87) DE2016100534 01.06.2017 (22) 15.11.2016 (54) CONTROL ASSEMBLY COMPRISING A PROBE WITH A LIGHT SOURCE OR AN ACOUSTIC SOURCE AND A PROBE FOR DETECTING A RESPONSE SIGNAL (73) Universitätsmedizin der Johannes Gutenberg-Universität Hochschule Trier (72) KOCH, Klaus Peter KNEIST, Werner (31) 92886 (32) 25.11.2015 (33) Luxembourg
(51) A61B 5/00 A61B 5/055 G01R 33/567 A61B 5/113 (11) EP3554341 (21) EP17825151.8 (47) 30.08.2023 (87) EP2017082237 21.06.2018 (22) 11.12.2017 (54) RETROSPECTIVE GATING OF MRI (73) Koninklijke Philips N.V. (72) KRUEGER, Sascha SENEGAS, Julien (31) 201662433835 P (32) 14.12.2016 (33) United States of America	(72) SHIONO, Teruhiro YANAGIDA, Masaaki ANDO, Takamasa (31) 2017161282 (32) 24.08.2017 (33) Japan (51) A61B 5/00 A61B 5/20 A61F 13/42 G01N 27/12 (11) EP3760104 (21) EP19184167.5 (47) 30.08.2023 (22) 03.07.2019 (54) SUBSTRATE, ABSORBENT ARTICLE FOR WETNESS MONITORING (73) Ontex Group NV	(51) A61B 5/00 A61B 34/10 A61B 5/283 A61B 5/287 A61B 5/363 A61B 5/366 (11) EP2996554 (21) EP14798103.9 (47) 30.08.2023 (87) CA2014000438 20.11.2014 (22) 16.05.2014 (54) SYSTEM FOR DECREMENT EVOKED POTENTIAL (DEEP) MAPPING TO IDENTIFY CRITICAL COMPONENTS OF THE ARRHYTHMOGENIC CIRCUIT IN CARDIAC ARRHYTHMIAS

(73) University Health Network	(22) 13.11.2015	(51) A61B 5/021
(72) DOWNAR, Eugene	(54) ANALYTE MEASURING SYSTEM	A61B 5/022
NANTHAKUMAR, Kumaraswamy	(73) Ascensia Diabetes Care Holdings AG	(11) EP3866679
MASSE, Stephane	(72) CHEN, Jun	(21) EP19886341.7
(31) 201361824457 P	NELSON, Erik	(47) 30.08.2023
(32) 17.05.2013	LIEBER, Harris	(87) IB2019059941
(33) United States of America	CURRAN, Kevin	28.05.2020
(51) A61B 5/00	ROUNTREE, Dawn	(22) 19.11.2019
G01N 21/3563	MEHTA, Aseem	(54) WEARABLE CARDIOVASCULAR
G01N 21/552	REYNOLDS, Jeffrey S.	MONITORING DEVICE
(11) EP3773160	(31) 201462080067 P	(73) 42 Health Sensor Holdings, Ltd.
(21) EP19717353.7	(32) 14.11.2014	(72) SHELDON, Robert
(47) 30.08.2023	(33) United States of America	ROACH, Daniel
(87) GB2019050998	(51) A61B 5/01	(31) 201816197192
17.10.2019	A61B 5/11	(32) 20.11.2018
(22) 05.04.2019	G16H 20/30	(33) United States of America
(54) METHODS OF SPECTROSCOPIC	G16H 50/20	(51) A61B 5/024
ANALYSIS	G16H 40/67	A61B 5/1459
(73) The University of Liverpool	(11) EP3576623	A61B 5/02
(72) WEIGHTMAN, Peter	(21) EP18747238.6	A61B 5/107
BARRETT, Stephen David	(47) 30.08.2023	A61B 5/00
INGHAM, James Joseph	(87) US2018016422	(11) EP4000509
(31) 201806002	09.08.2018	(21) EP21218346.1
(32) 11.04.2018	(22) 01.02.2018	(47) 30.08.2023
(33) United Kingdom	(54) SYSTEMS USING A WEARABLE	(22) 19.02.2016
(51) A61B 5/00	DEVICE FOR MONITORING AN	(54) SURGICAL SYSTEM FOR
G02B 6/26	ORTHOPEDIC IMPLANT AND	DETERMINING VESSEL SIZE
A61B 1/00	REHABILITATION	(73) Briteseed, LLC
(11) EP3773163	(73) Consensus Orthopedics, Inc.	(72) GUNN, Jonathan
(21) EP19720190.8	(72) KATERBERG, Brian, James	LE ROLLAND, Paul
(47) 30.08.2023	WIEDENHOEFER, Curt	VIJAYVERGIA, Mayank
(87) NL2019050193	HOWARD, Joshua, Dale	SUBRAMANIAN, Hariharan
03.10.2019	CREEL, Justin, Anthony	SHUKAIR, Shetha
(22) 28.03.2019	(31) 201715422312	CHATURVEDI, Amal
(54) FIBER ENDOSCOPE	(32) 01.02.2017	(31) 201562118554 P
(73) Stichting VU	(33) United States of America	201562118443 P
(72) DE BOER, Johannes, Fitzgerald	(51) A61B 5/0205	(32) 20.02.2015
FEROLDI, Fabio	A61B 5/00	19.02.2015
(31) 2020692	A61B 5/1455	(33) United States of America
(32) 29.03.2018	A61B 5/28	United States of America
(33) Netherlands	A61B 5/257	(51) A61B 5/05
(51) A61B 5/00	A61B 5/265	(11) EP3912551
G06T 5/00	A61B 5/01	(21) EP21184415.4
G06T 5/50	(11) EP4072409	(47) 30.08.2023
G06T 7/00	(21) EP20900609.7	(22) 26.02.2010
A61B 1/00	(47) 30.08.2023	(54) METHOD OF CALIBRATING AN
A61B 1/06	(87) US2020063729	ANALYTE SENSOR
G02B 23/24	17.06.2021	(73) Abbott Diabetes Care, Inc.
(11) EP3586718	(22) 08.12.2020	(72) MCGARRAUGH, Geoffrey
(21) EP18757449.6	(54) HEALTH AND VITAL SIGNS	HAYTER, Gary, Alan
(47) 30.08.2023	MONITORING PATCH WITH DISPLAY	THOMAS, Christopher, Allen
(87) JP2018006473	AND MAKING OF SAME	HOSS, Udo
30.08.2018	(73) Jabil Inc.	(31) 29084709 P
(22) 22.02.2018	(72) ARFARAS, Michael Nicholas	23846109 P
(54) ENDOSCOPE SYSTEM AND	BUI, Thong	16549909 P
PROCESSOR DEVICE	RICHSTEIN, Jorg	15589109 P
(73) FUJIFILM Corporation	AVUTHU, Sai Guruva Reddy	15588909 P
(72) YAMAMOTO, Hiroaki	VERDON, Patrick John	15589309 P
(31) 2017033980	DAS, Krishnaveni	(32) 29.12.2009
(32) 24.02.2017	WABLE, Girish Satish	31.08.2009
(33) Japan	RETA, Arnoldo	31.03.2009
(51) A61B 5/00	BHAGAT, Yusuf Abu Tayeb	26.02.2009
G16H 40/63	(31) 202017024780	26.02.2009
A61B 5/145	201916711744	26.02.2009
A61B 5/1486	(32) 18.09.2020	(33) United States of America
(11) EP3656291	12.12.2019	United States of America
(21) EP19218031.3	(33) United States of America	United States of America
(47) 30.08.2023	United States of America	United States of America

United States of America	A47C 27/00	(11) EP4111962
United States of America	A47C 27/08	(21) EP22175127.4
(51) A61B 5/0507	A47C 27/10	(47) 30.08.2023
A61B 5/00	A47C 27/14	(22) 13.07.2005
G01S 13/89	(11) EP3740182	(54) TRANSCUTANEOUS ANALYTE
(11) EP3003141	(21) EP19743765.0	SENSOR
(21) EP14728229.7	(47) 30.08.2023	(73) Dexcom, Inc.
(47) 30.08.2023	(87) US2019012200	(72) Masterson, Steve
(87) EP2014061913	01.08.2019	Saint, Sean T.
11.12.2014	(22) 03.01.2019	Kline, Daniel S.
(22) 06.06.2014	(54) MATTRESS WITH SENSOR MODULE	Brister, Mark
(54) MEDICAL IMAGING SYSTEM HAVING	FOR PATIENT CARE	(31) 15736505
MICROWAVE EMISSION/RECEPTION	(73) Medicustek, Inc.	15774605
(73) Office National d'Etudes et de	(72) HSU, Chia-Ming	15822705
Recherches Aérospatiales (ONERA)	CHEN, Yi-Yuan	7807205
MVG Industries	LIN, Tsai-Yu	7769305
(72) DURAND, Ludovic	THONG, Lavina, Che-Hsuan	7776305
CASTELLI, Juan Carlos	CLOUSING, Aaron, R.	7771505
THIÉBAUT, Stéphane	LIN, Lee	7775905
TESSIER, Virginie	HSU, Yu-Chun	7823005
DUCHESNE, Luc	(31) 201815881421	7823205
ADNET, Nicolas	(32) 26.01.2018	7774005
GARREAU, Philippe	(33) United States of America	7764305
(31) 1355225	(51) A61B 5/11	7788305
(32) 06.06.2013	A61M 5/178	7773905
(33) France	A61B 5/22	7771305
(51) A61B 5/053	(11) EP3457939	7776505
(11) EP3666183	(21) EP17726096.5	7771405
(21) EP19214087.9	(47) 30.08.2023	61476404 P
(47) 30.08.2023	(87) US2017033141	61468304 P
(22) 06.12.2019	23.11.2017	58780004 P
(54) BIOIMPEDANCE MEASUREMENT	(22) 17.05.2017	58778704 P
METHOD AND APPARATUS WITH	(54) DIAGNOSTIC MEASUREMENT	(32) 21.06.2005
ELECTRICAL STIMULATION	APPARATUS	21.06.2005
PERFORMANCE	(73) Becton, Dickinson and Company	21.06.2005
(73) Samsung Electronics Co., Ltd.	(72) KANKANALA, Sundeep	10.03.2005
(72) LEE, Hyungwoo	WILSON, Dylan	10.03.2005
KIM, Jongpal	MARTIN, Adam	10.03.2005
KIM, Sang Joon	DESPA, Mircea Stefan	10.03.2005
(31) 20190108798	(31) 201662338932 P	10.03.2005
20180162168	(32) 19.05.2016	10.03.2005
(32) 03.09.2019	(33) United States of America	10.03.2005
14.12.2018	(51) A61B 5/1172	10.03.2005
(33) Korea (Republic)	A61B 5/145	10.03.2005
Korea (Republic)	A61B 5/00	10.03.2005
(51) A61B 5/083	A61B 10/00	10.03.2005
A61M 16/00	G01N 33/94	10.03.2005
A61M 16/06	A61B 5/1171	10.03.2005
A61B 1/00	A61B 5/0205	10.03.2005
A61B 5/087	A61B 5/024	30.09.2004
A61B 1/233	A61B 5/0533	30.09.2004
A61B 5/097	(11) EP3166491	13.07.2004
A61B 5/107	(21) EP15819433.2	13.07.2004
A61B 5/11	(47) 30.08.2023	(33) United States of America
(11) EP3847960	(87) US2015039174	United States of America
(21) EP21159624.2	14.01.2016	United States of America
(47) 30.08.2023	(22) 06.07.2015	United States of America
(22) 15.09.2017	(54) SELF-ADMINISTERED TAMPER-	United States of America
(54) DIAGNOSTIC TOOL AND METHODS	EVIDENT DRUG DETECTION	United States of America
OF USE	(73) Attenti Electronic Monitoring LTD.	United States of America
(73) Spirox, Inc.	(72) MOORE, Matthew D.	United States of America
(72) BARON, Scott, J.	HAMERLY, Michael E.	United States of America
ROSENTHAL, Michael, H	KANUKURTHY, Kiran S.	United States of America
(31) 201662395936 P	RAJAGOPAL, Raj	United States of America
(32) 16.09.2016	(31) 201462021269 P	United States of America
(33) United States of America	(32) 07.07.2014	United States of America
(51) A61B 5/11	(33) United States of America	United States of America
A61G 7/057	(51) A61B 5/145	United States of America

United States of America	(73) Young, Roger Charles	GOEDICKE, Andreas
United States of America	Pretel Inc.	(31) 201762476062 P
United States of America	(72) YOUNG, Roger, Charles	(32) 24.03.2017
United States of America	(31) 201762450356 P	(33) United States of America
United States of America	(32) 25.01.2017	(51) A61B 6/03
United States of America	(33) United States of America	A61B 6/00
(51) A61B 5/1459	(51) A61B 5/285	(11) EP3488786
A61B 5/1473	A61B 5/339	(21) EP19150199.8
A61B 5/1486	(11) EP3476286	(47) 30.08.2023
(11) EP3409204	(21) EP18201568.5	(22) 08.03.2017
(21) EP16888143.1	(47) 30.08.2023	(54) TRANSFORMABLE IMAGING SYSTEM
(47) 30.08.2023	(22) 19.10.2018	(73) Medtronic Navigation, Inc.
(87) JP2016085582	(54) APPARATUS FOR PROVIDING	(72) RISHER-KELLY, Clifford M.
03.08.2017	ELECTROCARDIOGRAPHIC	GARLOW, David A.
(22) 30.11.2016	AND ESPECIALLY ARRHYTHMIA	ELGHAZZAWI, Ziad F.
(54) BIOLOGICAL INFORMATION	INFORMATION	(31) 201615065071
DETECTION DEVICE	(73) Berner Fachhochschule	201615065002
(73) Terumo Kabushiki Kaisha	(72) WILDHABER, Reto Andreas	201615064961
(72) MOMOKI, Hideyuki	(31) 17198175	(32) 09.03.2016
KOBAYASHI, Yasuhiro	(32) 24.10.2017	09.03.2016
(31) 2016016217	(33) European Patent Office (EPO)	09.03.2016
(32) 29.01.2016	(51) A61B 5/287	(33) United States of America
(33) Japan	(11) EP3639740	United States of America
(51) A61B 5/15	(21) EP19202997.3	United States of America
A61B 5/151	(47) 30.08.2023	(51) A61B 6/10
(11) EP3616617	(22) 14.10.2019	A61B 6/03
(21) EP19197197.7	(54) MAPPING OF ACTIVATION	A61B 6/02
(47) 30.08.2023	WAVEFRONTS	A61B 6/00
(22) 09.07.2015	(73) Biosense Webster (Israel) Ltd.	A61B 6/06
(54) LANCET DEVICE WITH FIRST-DROP	(72) BAR-TAL, Meir	(11) EP3923813
REMOVAL	ILAN, Ido	(21) EP20754941.1
(73) Becton, Dickinson and Company	COHEN, Assaf	(47) 30.08.2023
(72) Fletcher, Gary D.	NAKAR, Elad	(87) US2020017760
Gelfand, Craig, A.	(31) 201816160062	20.08.2020
(31) 201462026169 P	(32) 15.10.2018	(22) 11.02.2020
(32) 18.07.2014	(33) United States of America	(54) METHOD AND APPARATUS FOR
(33) United States of America	(51) A61B 5/372	ANATOMICALLY-SPECIFIED
(51) A61B 5/15	A61B 5/374	COMPUTED TOMOGRAPHY
C12Q 1/04	(11) EP3925537	(73) MALCOVA, Inc.
C12M 1/12	(21) EP20187999.6	(72) GHAZI, Peymon Mirsaeid
C12Q 1/24	(47) 30.08.2023	GHAZI, Tara Renee
B01L 3/00	(22) 27.07.2020	(31) 201916557321
G01N 1/40	(54) METHOD AND SYSTEM	201962804693 P
G01N 33/49	FOR PROCESSING AN	(32) 30.08.2019
A61B 5/153	ELECTROENCEPHALOGRAPH SIGNAL	12.02.2019
C12M 1/00	(73) A-Neuron Electronic Corp.	(33) United States of America
(11) EP3663387	(72) HSIN, Yue-Loong	United States of America
(21) EP20152089.7	CHANG, Chia-Chi	(51) A61B 8/00
(47) 30.08.2023	LIN, Pei-Chen	A61B 8/08
(22) 28.07.2016	(31) 202016903343	A61G 7/075
(54) DEVICE AND METHOD FOR TREATING	(32) 16.06.2020	(11) EP3863520
FLUIDS, PARTICULARLY BODY	(33) United States of America	(21) EP19795460.5
FLUIDS	(51) A61B 6/00	(47) 30.08.2023
(73) Bruker Daltonics GmbH & Co. KG	A61B 6/03	(87) EP2019077421
(72) Idelevich, Evgeny	(11) EP3600044	16.04.2020
Becker, Karsten	(21) EP18716543.6	(22) 09.10.2019
(31) 102015112343	(47) 30.08.2023	(54) FIXTURE FOR AN ULTRASOUND
(32) 29.07.2015	(87) EP2018057623	PROBE AND RECEPTACLE FOR A
(33) Germany	27.09.2018	PERSON HAVING A FIXTURE
(51) A61B 5/24	(22) 26.03.2018	(73) Sono-Mount GmbH
(11) EP3573524	(54) NOISE-ROBUST REAL-TIME	(72) SCHÜTZ, Michael
(21) EP18743990.6	EXTRACTION OF THE RESPIRATORY	(31) 202019105479 U
(47) 30.08.2023	MOTION SIGNAL FROM PET LIST-	102018125155
(87) US2018015054	DATA	(32) 04.10.2019
02.08.2018	(73) Koninklijke Philips N.V.	11.10.2018
(22) 24.01.2018	(72) OLIVIER, Patrick	(33) Germany
(54) ELECTROMYOGRAPHY BASED DRUG	SALOMON, Andre, Frank	Germany
DELIVERY	ZHANG, Bin	(51) A61B 8/00

A61B 8/08	(54) METHOD FOR OBTAINING A	(73) Sonivie Ltd.
G06T 7/00	FUNCTIONAL PARAMETER OF A	(72) MARZIANO, Lilah
G06T 7/20	MUSCLE	SVERDLIK, Ariel
G06T 7/269	(73) Ecole Supérieure de Physique et de	SHABTAY, Or
G16H 50/30	Chimie Industrielles de la Ville de Paris	(31) 201462084782 P
(11) EP2988675	Université Pierre et Marie Curie (Paris 6)	(32) 26.11.2014
(21) EP14707245.8	Centre National de la Recherche	(33) United States of America
(47) 30.08.2023	Scientifique	(51) A61B 17/00
(87) IB2014058966	Université Paris Cité	A61F 2/24
30.10.2014	Institut National de la Santé et de la	A61F 2/848
(22) 13.02.2014	Recherche Médicale (INSERM)	(11) EP3613383
(54) METHOD AND DEVICE FOR	(72) TANTER, Mickael	(21) EP19195458.5
QUANTITATIVE DYNAMIC	PERNOT, Mathieu	(47) 30.08.2023
EVALUATION OF SKELETAL MUSCLES	(31) 14306160	(22) 20.11.2009
FUNCTIONALITY	(32) 17.07.2014	(54) HEART VALVE PROSTHESIS
(73) Amid s.r.l.	(33) European Patent Office (EPO)	(73) Percutaneous Cardiovascular Solutions
Fondazione Apostolo	(51) A61B 8/08	Pty Limited
(72) APOSTOLO, Carlo	(11) EP3689248	(72) COOK, Martin Christopher
TONTI, Gianni	(21) EP19183319.3	THAMBAR, Suku
PEDRIZZETTI, Gianni	(47) 30.08.2023	JAYASINGHE, Stayajit Rohan
BERTELE, Laura	(22) 28.06.2019	SCHRECK, Stefan
(31) AQ20130003	(54) ULTRASOUND IMAGING APPARATUS	(31) 2009900460
(32) 23.04.2013	AND METHOD OF GENERATING	2008906045
(33) Italy	ULTRASOUND IMAGE	(32) 09.02.2009
(51) A61B 8/00	(73) Korea University Research and Business	21.11.2008
G01S 7/52	Foundation	(33) Australia
(11) EP3620113	Samsung Medison Co., Ltd.	Australia
(21) EP19204123.4	(72) Choi, Hyejin	(51) A61B 17/00
(47) 30.08.2023	Lee, Dongeun	A61M 5/178
(22) 03.09.2015	Cho, Geumjoon	A61B 17/12
(54) ULTRASOUND PROBE AND	Oh, Minjeong	(11) EP3490462
OPERATING METHOD THEREOF	Lee, Jinyong	(21) EP17755248.6
(73) Samsung Medison Co., Ltd.	(31) 20190011983	(47) 30.08.2023
(72) HAN, Ho-san	(32) 30.01.2019	(87) IB2017054404
CHO, Jeong	(33) Korea (Republic)	01.02.2018
(31) 20150076489	(51) A61B 8/08	(22) 20.07.2017
20150025904	A61B 5/00	(54) SYRINGE FOR ADMINISTERING FOAM
20140118018	A61M 5/142	(73) Provensis Limited
(32) 29.05.2015	A61M 25/06	(72) ISLER, Daniel
24.02.2015	A61M 5/152	FAULKNER, David
04.09.2014	A61N 1/05	(31) 201612948
(33) Korea (Republic)	A61N 1/36	(32) 26.07.2016
Korea (Republic)	A61M 25/01	(33) United Kingdom
Korea (Republic)	(11) EP3263038	(51) A61B 17/00
(51) A61B 8/06	(21) EP17184295.8	G02B 27/01
A61B 8/14	(47) 30.08.2023	B25J 9/10
A61B 8/08	(22) 18.05.2012	A61B 34/30
(11) EP3777697	(54) CONTINUOUS ANESTHESIA NERVE	(11) EP3139843
(21) EP19775924.4	CONDUCTION APPARATUS	(21) EP15788948.6
(47) 30.08.2023	(73) Solo-Dex, Inc.	(47) 30.08.2023
(87) JP2019003972	(72) KOPACZ, Dan Joel	(87) US2015029247
03.10.2019	RAJENDRAN, Sundar	12.11.2015
(22) 05.02.2019	(31) 201161532316 P	(22) 05.05.2015
(54) ULTRASONIC DIAGNOSTIC DEVICE	201161487555 P	(54) VIRTUAL REALITY SURGICAL DEVICE
AND CONTROL METHOD FOR	(32) 08.09.2011	(73) Vicarious Surgical Inc.
ULTRASONIC DIAGNOSTIC DEVICE	18.05.2011	(72) GREENE, Barry Stuart
(73) FUJIFILM Corporation	(33) United States of America	SACHS, Adam
(72) MIYACHI, Yukiya	United States of America	KHALIFA, Sammy
(31) 2018062249	(51) A61B 8/12	(31) 201562136883 P
(32) 28.03.2018	A61N 7/00	201461988498 P
(33) Japan	(11) EP3223712	(32) 23.03.2015
(51) A61B 8/08	(21) EP15862313.2	05.05.2014
(11) EP3169243	(47) 30.08.2023	(33) United States of America
(21) EP15739269.7	(87) IL2015051145	United States of America
(47) 30.08.2023	02.06.2016	(51) A61B 17/04
(87) EP2015066440	(22) 25.11.2015	(11) EP3818947
21.01.2016	(54) DEVICES FOR PULMONARY	(21) EP20196052.3
(22) 17.07.2015	HYPERTENSION TREATMENT	(47) 30.08.2023

(22) 06.05.2013	(22) 14.03.2014	(21) EP19158932.4
(54) FENESTRATED IMPLANT	(54) SURGICAL STAPLER HAVING	(47) 30.08.2023
(73) SI-Bone, Inc.	ACTUATION MECHANISM WITH	(22) 22.02.2019
(72) Reiley, Mark	ROTATABLE SHAFT	(54) SURGICAL REAMER
Mauldin, Richard Garret	(73) Applied Medical Resources Corporation	(73) HPF S.R.L.
Yerby, Scott A	(72) COVACH, Johnathan	(72) LUALDI, Tommaso
Schneider, Bret	PATEL, Atal	(31) 201800003010
(31) 201261642681 P	JOHNSON, Gary M.	(32) 23.02.2018
(32) 04.05.2012	REED, Christina N.	(33) Italy
(33) United States of America	BECERRA, Matthew M.	<hr/>
(51) A61B 17/04	(31) 201361794700 P	(51) A61B 17/16
A61B 17/06	(32) 15.03.2013	A61B 17/32
A61B 17/00	(33) United States of America	(11) EP2967593
A61B 17/24	<hr/>	(21) EP14767324.8
(11) EP3468486	(51) A61B 17/12	(47) 30.08.2023
(21) EP17733533.8	(11) EP2919719	(87) US2014023467
(47) 30.08.2023	(21) EP13855087.6	25.09.2014
(87) IB2017053421	(47) 30.08.2023	(22) 11.03.2014
14.12.2017	(87) US2013066687	(54) ULTRASONIC SURGICAL DRILL
(22) 09.06.2017	22.05.2014	(73) Misonix Incorporated
(54) IMPLANTABLE DEVICE	(22) 24.10.2013	(72) VOIC, Dan
(73) University of Cape Town	(54) DELIVERY AND DETACHMENT	(31) 201313833385
(72) HENDRICKS, Mogamat Rushdie	SYSTEMS FOR VASCULAR IMPLANTS	(32) 15.03.2013
BEZUIDENHOUT, Deon	(73) Sequent Medical, Inc.	(33) United States of America
(31) 201610177	(72) MARCHAND, Philippe	<hr/>
(32) 10.06.2016	PATTERSON, William R.	(51) A61B 17/17
(33) United Kingdom	PHAM, Son	(11) EP3880088
<hr/>	WELSH, Daniel	(21) EP19817457.5
(51) A61B 17/04	HEMMELGARN, Scott	(47) 30.08.2023
A61B 17/34	PLAZA, Claudio	(87) US2019060707
A61F 2/24	HEWITT, Todd	22.05.2020
A61B 17/00	CHARLTON, Eileen	(22) 11.11.2019
(11) EP3641699	(31) 201313842492	(54) DRILL GUIDE
(21) EP18819868.3	201261727257 P	(73) CONMED Corporation
(47) 30.08.2023	(32) 15.03.2013	(72) SUMMITT, Matthew C.
(87) US2018038245	16.11.2012	THIBODEAU, Robert A.
27.12.2018	(33) United States of America	CARSON, Christopher
(22) 19.06.2018	United States of America	ALFONSO, Gregory A.
(54) APPARATUS FOR CARDIAC	<hr/>	(31) 201862768299 P
PROCEDURES	(51) A61B 17/15	(32) 16.11.2018
(73) Harpoon Medical, Inc.	(11) EP3886732	(33) United States of America
University of Maryland, Baltimore	(21) EP19813757.2	<hr/>
(72) D'AMBRA, Michael, Nicholas	(47) 30.08.2023	(51) A61B 17/17
WILSON, Peter	(87) EP2019082960	(11) EP3847979
GAMMIE, James, S.	04.06.2020	(21) EP20175537.8
CORTEZ, Felino, V., Jr.	(22) 28.11.2019	(47) 30.08.2023
COURNANE, Stephen	(54) FIXING CLAMP AND ALIGNING	(22) 12.01.2016
NILAND, William	DEVICE	(54) AUGMENTED GLENOID
(31) 201762521784 P	(73) Aesculap AG	(73) Biomet Manufacturing, LLC
(32) 19.06.2017	(72) HERMLE, Thomas	(72) WINSLOW, Nathan A.
(33) United States of America	HIRT, Martin	VANASSE, Thomas M.
<hr/>	VARSANI, Anil	(31) 201514594667
(51) A61B 17/072	(31) 102018130117	(32) 12.01.2015
(11) EP3120783	(32) 28.11.2018	(33) United States of America
(21) EP16180299.6	(33) Germany	<hr/>
(47) 30.08.2023	<hr/>	(51) A61B 17/17
(22) 20.07.2016	(51) A61B 17/15	A61B 17/68
(54) SMALL DIAMETER CARTRIDGE	(11) EP3841986	A61B 17/70
DESIGN FOR A SURGICAL STAPLING	(21) EP20166064.4	A61B 17/80
INSTRUMENT	(47) 30.08.2023	A61B 17/74
(73) Covidien LP	(22) 04.11.2016	A61B 17/86
(72) SHAH, Sachin	(54) ADJUSTABLE CUT BLOCK AND SIZER	(11) EP3542739
(31) 201514804711	INSTRUMENT FOR ARTHROPLASTY	(21) EP19163227.2
(32) 21.07.2015	PLANNING	(47) 30.08.2023
(33) United States of America	(73) Zimmer, Inc.	(22) 15.03.2019
<hr/>	(72) BROWN, David R.	(54) BONE STABILIZATION SYSTEMS
(51) A61B 17/072	(31) 201562251944 P	(73) Globus Medical, Inc.
A61B 17/00	(32) 06.11.2015	(72) TIONGSON, Christina M.
(11) EP3824819	(33) United States of America	JANSEN, David
(21) EP20217830.7	<hr/>	(31) 201815925846
(47) 30.08.2023	(51) A61B 17/16	(32) 20.03.2018
	(11) EP3530216	

(33) United States of America	(32) 28.08.2017	(11) EP3478198
(51) A61B 17/17	24.05.2017	(21) EP17728387.6
A61B 17/80	08.02.2017	(47) 30.08.2023
(11) EP3461437	(33) United States of America	(87) US2017034437
(21) EP18201132.0	United States of America	07.12.2017
(47) 30.08.2023	United States of America	(22) 25.05.2017
(22) 20.12.2013	(51) A61B 17/221	(54) CONTROL CONSOLE COMPRISING
(54) ALIGNMENT GUIDE APPARATUS	A61F 2/01	A TRANSFORMER WITH A LEAKAGE
(73) Paragon 28, Inc.	A61B 90/00	CONTROL WINDING AND A
(72) SAN GIOVANNI, Thomas	A61M 25/09	CAPACITOR
DACOSTA, Albert	(11) EP3813727	(73) Stryker Corporation
(31) 201261746928 P	(21) EP19810875.5	(72) DOWNEY, Adam
(32) 28.12.2012	(47) 30.08.2023	(31) 201662343433 P
(33) United States of America	(87) US2019034435	(32) 31.05.2016
(51) A61B 17/22	05.12.2019	(33) United States of America
(11) EP3960099	(22) 29.05.2019	(51) A61B 17/3205
(21) EP21191690.3	(54) INTEGRATED THROMBECTOMY AND	A61B 17/221
(47) 30.08.2023	FILTER DEVICE	(11) EP3626186
(22) 29.05.2018	(73) Elum Technologies, Inc.	(21) EP19208393.9
(54) DEVICE FOR GENERATING FORWARD	(72) BAGNALL, Noelle	(47) 30.08.2023
DIRECTED SHOCK WAVES	BARAJAS, Victor	(22) 10.12.2013
(73) Shockwave Medical, Inc.	TRAN, Quang	(54) RETRIEVAL BASKET APPARATUS
(72) NGUYEN, Hoa D.	(31) 201962836255 P	(73) Gyrus ACMI, Inc.
(31) 201762521994 P	201862701254 P	(72) Galperin, Nison
(32) 19.06.2017	201862697644 P	Dirusso, Carlo
(33) United States of America	201862677870 P	(31) 201213715091
(51) A61B 17/22	(32) 19.04.2019	(32) 14.12.2012
A61M 1/00	20.07.2018	(33) United States of America
A61B 17/221	13.07.2018	(51) A61B 17/3207
A61F 2/01	30.05.2018	(11) EP3102129
A61M 25/06	(33) United States of America	(21) EP15704190.6
(11) EP3629949	United States of America	(47) 30.08.2023
(21) EP18806441.4	United States of America	(87) US2015014165
(47) 30.08.2023	United States of America	06.08.2015
(87) US2018034197	(51) A61B 17/32	(22) 03.02.2015
29.11.2018	(11) EP3448282	(54) TISSUE-REMOVING CATHETER
(22) 23.05.2018	(21) EP17721023.4	INCLUDING ANGULAR
(54) SUCTION CATHETER SYSTEMS FOR	(47) 30.08.2023	DISPLACEMENT SENSOR
APPLYING EFFECTIVE ASPIRATION	(87) US2017029274	(73) Covidien LP
IN REMOTE VESSELS, ESPECIALLY	02.11.2017	(72) KESSLER, Jason
CEREBRAL ARTERIES	(22) 25.04.2017	SCHNEIDER, Lucas
(73) Mivi Neuroscience, Inc.	(54) LIFECYCLE MONITORING FEATURES	(31) 201414170869
(72) OGLE, Matthew, F.	FOR SURGICAL INSTRUMENT	(32) 03.02.2014
(31) 201715848166	(73) Ethicon LLC	(33) United States of America
201715604058	(72) ELMER, Lucas B.	(51) A61B 17/3207
(32) 20.12.2017	CONLON, Sean P.	A61B 17/32
24.05.2017	CARROLL, Andrew W.	(11) EP3679878
(33) United States of America	(31) 201715480546	(21) EP20157918.2
United States of America	201662329381 P	(47) 30.08.2023
(51) A61B 17/221	(32) 06.04.2017	(22) 30.12.2014
A61B 17/3207	29.04.2016	(54) ABRASIVE ELEMENTS FOR
A61B 17/34	(33) United States of America	ROTATIONAL ATHERECTOMY
A61M 1/00	United States of America	SYSTEMS
(11) EP3579765	(51) A61B 17/32	(73) Bard Peripheral Vascular, Inc.
(21) EP18751739.6	A61B 17/00	(72) Chanduszko, Andrzej
(47) 30.08.2023	(11) EP4140419	(51) A61B 17/3207
(87) US2018016976	(21) EP21192614.2	G05B 11/42
16.08.2018	(47) 30.08.2023	(11) EP3758626
(22) 06.02.2018	(22) 23.08.2021	(21) EP19710241.1
(54) AXIAL LENGTHENING THROMBUS	(54) ULTRASONIC SURGICAL APPARATUS	(47) 30.08.2023
CAPTURE SYSTEM	AND HANDPIECE THEREFOR	(87) US2019019404
(73) Vascular Medcure, Inc.	(73) SRA Developments Ltd.	06.09.2019
(72) NGO, Tung, Hoang	(72) Besch, Hansjörg	(22) 25.02.2019
NGUYEN, Thanh, Van	Graham, Chris	(54) ATHERECTOMY MOTOR CONTROL
NGUYEN, Duy	Faßnacht, Malte	SYSTEM
(31) 201715687789	(51) A61B 17/32	(73) Boston Scientific Scimed, Inc.
201715604531	A61B 18/00	(72) FARAGO, Laszlo, Trent
201715428076	A61B 18/12	SPANGLER, David, Gordon

HILSE, Mark, A.	(51) A61B 17/70	(51) A61B 17/72
MASSIMINI, Daniel, Frank	(11) EP3878386	A61B 17/86
CARLSON, Corydon	(21) EP20162697.5	(11) EP3310282
(31) 201862636103 P	(47) 30.08.2023	(21) EP16739198.6
(32) 27.02.2018	(22) 12.03.2020	(47) 30.08.2023
(33) United States of America	(54) COUPLING DEVICE FOR USE WITH	(87) FR2016051116
(51) A61B 17/34	A BONE ANCHORING ELEMENT AND	17.11.2016
(11) EP3750495	BONE ANCHORING DEVICE WITH	(22) 11.05.2016
(21) EP20183071.8	SUCH A COUPLING DEVICE	(54) IMPLANT FOR THE FIXATION OF
(47) 30.08.2023	(73) Biedermann Technologies GmbH & Co.	BONE ELEMENTS
(22) 17.11.2016	KG	(73) Spine Arch Brevet
(54) TROCAR SUPPORT	(72) DANNECKER, Berthold	(72) FISCHER LOKOU, David François
(73) Surgical Stabilization Technologies Inc.	BIEDERMANN, Lutz	(31) 1554199
(72) Pacak, John Stephen	(51) A61B 17/70	(32) 11.05.2015
Diamond, Heather Dawn	(11) EP3616635	(33) France
Muldoon, Damian Raymond	(21) EP19194424.8	(51) A61B 17/88
Cannon, William James	(47) 30.08.2023	(11) EP3905975
Murphy, Brian Fergus	(22) 29.08.2019	(21) EP20700331.0
Keaveney, Luke Patrick	(54) BONE ANCHOR ASSEMBLY	(47) 30.08.2023
Ward, Shane Gerard	(73) Zimmer Biomet Spine, Inc.	(87) EP2020050037
(31) 201562256526 P	(72) CAPOTE, Allison Christine	09.07.2020
(32) 17.11.2015	(31) 201862724811 P	(22) 02.01.2020
(33) United States of America	(32) 30.08.2018	(54) JOINING METHOD FOR A MEDICAL
(51) A61B 17/34	(33) United States of America	DEVICE
A61B 17/28	(51) A61B 17/70	(73) Aesculap AG
A61B 90/11	A61B 17/86	(72) DEUTSCHENDORF, Andreas
(11) EP3399926	A61B 17/88	ACKERMANN, Janina
(21) EP17701229.1	A61B 17/16	MATTES, Till
(47) 30.08.2023	A61B 34/00	PLEIL, Elke
(87) US2017012476	A61B 17/84	BARTHELMES, Sven
13.07.2017	A61B 17/32	DAHMEN, Jan
(22) 06.01.2017	A61B 34/30	(31) 102019100016
(54) DEVICES FOR GUIDING A SURGICAL	A61B 90/00	(32) 02.01.2019
INSTRUMENT	A61B 17/00	(33) Germany
(73) Boston Scientific Scimed, Inc.	(11) EP3730079	(51) A61B 17/92
(72) KIRKEMO, Aaron, K.	(21) EP20161339.5	(11) EP3566666
SPERRY, Erik, E.	(47) 30.08.2023	(21) EP19173570.3
HARRAH, Timothy, P.	(22) 05.03.2020	(47) 30.08.2023
CIULLA, Ronald	(54) BONE SCREWS AND	(22) 09.05.2019
KOERNER, Sebastian	INSTRUMENTATION	(54) MEDICAL TOOL WITH A HANDLE
LONG, Jerry, T.	(73) K2M, Inc.	WITH HIGH TENSILE STRENGTH AND
SCHNEIDER, Chad	(72) STAD, Shawn D.	METHOD FOR PRODUCING SUCH A
HERA, Mark, A.	FALLACARO, Nicole Renee	TOOL
STOKLEY, Elizabeth, A.	BALDWIN, Mitch	(73) Aesculap AG
REEVER, Kenneth, P.	SHARIFI-MEHR, Amir Ali	(72) DAHMEN, Jan
CRAFT, Brandon, W.	BUCHERT, Oliver	(31) 102018111225
(31) 201662276569 P	ROCHETTE, Paul R.	(32) 09.05.2018
(32) 08.01.2016	DOMBROWSKI, Lori	(33) Germany
(33) United States of America	BELL, Christopher P.	(51) A61B 18/00
(51) A61B 17/42	(31) 201962814505 P	A61B 18/04
A61B 90/50	(32) 06.03.2019	A61B 17/00
A61B 17/00	(33) United States of America	(11) EP4039208
A61B 90/00	(51) A61B 17/70	(21) EP22150486.3
A61B 90/57	A61B 17/86	(47) 30.08.2023
(11) EP2996588	A61F 2/44	(22) 18.01.2012
(21) EP14779174.3	(11) EP3691552	(54) DEVICES FOR THE TREATMENT OF
(47) 30.08.2023	(21) EP18864605.3	TISSUE
(87) US2014023247	(47) 30.08.2023	(73) Fractyl Health, Inc.
09.10.2014	(87) US2018053790	(72) LEVIN, Philip S.
(22) 11.03.2014	11.04.2019	FLAHERTY, Christopher J.
(54) UTERINE MANIPULATOR	(22) 01.10.2018	CAPLAN, Jay
(73) Ahluwalia, Prabhat K.	(54) MULTI-AXIS INTERNAL SPINAL	RAJAGOPALAN, Harith
Ohlhaber, Puja	FIXATION	(31) 201161538601 P
(72) Ohlhaber, Puja	(73) Perumala Corporation	201161434319 P
Ahluwalia, Prabhat K.	(72) PISHARODI, Madhavan	(32) 23.09.2011
(31) 201361777350 P	(31) 201762566991 P	19.01.2011
(32) 12.03.2013	(32) 02.10.2017	(33) United States of America
(33) United States of America	(33) United States of America	United States of America

(51) A61B 18/08	A61B 18/00	(22) 07.07.2020
(11) EP3413822	(11) EP3513755	(54) SYSTEM FOR MONITORING
(21) EP17750991.6	(21) EP19152028.7	TEMPERATURE WHILE
(47) 30.08.2023	(47) 30.08.2023	INTRACORPORAL LASER
(87) US2017017741	(22) 16.01.2019	LITHOTRIPSY IS BEING CARRIED OUT
17.08.2017	(54) SURGICAL INSTRUMENTS	(73) Albert-Ludwigs-Universität Freiburg
(22) 13.02.2017	INCORPORATING ULTRASONIC AND	(72) PETZOLD, Ralf
(54) DEVICE FOR IMAGE GUIDED POST-	ELECTROSURGICAL FUNCTIONALITY	HEIN, Simon
NASAL NERVE ABLATION	(73) Covidien LP	MIERNIK, Arkadiusz
(73) Arrinex, Inc.	(72) VAN TOL, David, J.	(31) 202019103823 U
(72) FOX, William Jason	MEISER, Thomas, W.	(32) 11.07.2019
SAADAT, Vahid	(31) 201916238812	(33) Germany
SAADAT, Mojgan	201862618402 P	<hr/>
(31) 201662294142 P	201862618292 P	(51) A61B 34/00
(32) 11.02.2016	201862618241 P	A61B 17/00
(33) United States of America	201862618277 P	(11) EP3574860
<hr/>	(32) 03.01.2019	(21) EP19186083.2
(51) A61B 18/12	17.01.2018	(47) 30.08.2023
A61B 18/14	17.01.2018	(22) 11.11.2010
(11) EP3995095	17.01.2018	(54) SYSTEM FOR HAND PRESENCE
(21) EP20849812.1	17.01.2018	DETECTION IN A MINIMALLY INVASIVE
(47) 30.08.2023	17.01.2018	SURGICAL SYSTEM
(87) JP2020020727	(33) United States of America	(73) Intuitive Surgical Operations Inc.
11.02.2021	United States of America	(72) ZHAO, Tao
(22) 26.05.2020	United States of America	LILAGAN, Paul, E
(54) HIGH-FREQUENCY FORCEPS	United States of America	DIMAIIO, Simon
(73) RIVERFIELD Inc.	United States of America	ITKOWITZ, Brandon, D.
(72) TAKIKAWA, Kyohei	<hr/>	(31) 88716010
(31) 2019146416	(51) A61B 18/14	61793709
(32) 08.08.2019	A61B 18/12	(32) 21.09.2010
(33) Japan	(11) EP3973907	13.11.2009
<hr/>	(21) EP21199367.0	(33) United States of America
(51) A61B 18/12	(47) 30.08.2023	United States of America
A61B 18/14	(22) 28.09.2021	<hr/>
A61B 17/00	(54) DETECTING ELECTRODE CONTACT	(51) A61B 34/00
A61B 18/00	USING ABSOLUTE AND RELATIVE	A61B 34/35
(11) EP3254635	THRESHOLDS	G16H 20/40
(21) EP16746133.4	(73) Biosense Webster (Israel) Ltd	A61B 90/00
(47) 30.08.2023	(72) GOVARI, Assaf	(11) EP3658057
(87) CN2016073378	ALTMANN, Andres Claudio	(21) EP18837858.2
11.08.2016	MARZIANO, Lilah	(47) 30.08.2023
(22) 03.02.2016	(31) 202017035845	(87) US2018042690
(54) RADIO-FREQUENCY ABLATION	(32) 29.09.2020	31.01.2019
CATHETER HAVING SPIRAL	(33) United States of America	(22) 18.07.2018
STRUCTURE, AND EQUIPMENT	<hr/>	(54) ASSOCIATION SYSTEMS FOR
THEREOF	(51) A61B 18/18	MANIPULATORS
(73) Shanghai Golden Leaf Med Tec Co., Ltd.	(11) EP3745974	(73) Intuitive Surgical Operations Inc.
(72) DONG, Yonghua	(21) EP19707119.4	(72) MCDOWALL, Ian E.
JIANG, Jun	(47) 30.08.2023	STEGER, John Ryan
Ji, Liang	(87) IB2019050716	GOMEZ, Daniel H.
SHEN, Meijun	08.08.2019	PAYYAVULA, Govinda
(31) 201510350172	(22) 29.01.2019	(31) 201762551702 P
201520433569 U	(54) TISSUE ABLATION DEVICE WITH	201762537795 P
201510349237	BROADBAND ANTENNA	(32) 29.08.2017
201520434410 U	(73) Biocompatibles UK Limited	27.07.2017
201510129947	(72) RZESZOWSKI, Szymon	(33) United States of America
201510057095	MOSESOV, Oleg	United States of America
(32) 19.06.2015	TAN, Winston	<hr/>
19.06.2015	ZACHMAN, Andrew, Kevin	(51) A61B 34/20
19.06.2015	GAJUREL, Ankit	A61B 5/06
19.06.2015	KOLLMANN, Daniel	A61B 1/267
23.03.2015	SENNESS, Charlie	A61B 34/10
03.02.2015	(31) 201862625433 P	A61B 10/04
(33) China	(32) 02.02.2018	(11) EP3164051
China	(33) United States of America	(21) EP15814744.7
China	<hr/>	(47) 30.08.2023
China	(51) A61B 18/26	(87) US2015038787
China	(11) EP3996619	07.01.2016
China	(21) EP20739315.8	(22) 01.07.2015
China	(47) 30.08.2023	(54) SYSTEM AND PROGRAM FOR
China	(87) EP2020069125	PROVIDING DISTANCE AND
<hr/>	14.01.2021	
(51) A61B 18/14		

ORIENTATION FEEDBACK WHILE NAVIGATING IN 3D	A61C 13/00	(54) DETERMINATION OF A DENTAL APPLIANCE HAVING SELECTIVE OCCLUSAL LOADING AND CONTROLLED INTERCUSPATION
(73) Covidien LP	B05D 1/00	(73) Align Technology, Inc.
(72) LACHMANOVICH, Elad D.	A61C 7/08	(72) MORTON, John Y.
KLEIN, Eyal	A61C 7/10	CAM, Bruce
GREENBURG, Benjamin	A61C 9/00	(31) 201762579519 P
(31) 201462020258 P	(11) EP3856072	(32) 31.10.2017
(32) 02.07.2014	(21) EP19865559.9	(33) United States of America
(33) United States of America	(47) 30.08.2023	<hr/>
(51) A61B 34/30	(87) IB2019058105	(51) A61C 7/08
A61B 17/34	02.04.2020	A61C 7/36
A61B 90/50	(22) 24.09.2019	A61C 19/05
(11) EP3463158	(54) PARYLENE DENTAL ARTICLES	A61C 19/045
(21) EP17803488.0	(73) 3M Innovative Properties Company	(11) EP3716885
(47) 30.08.2023	(72) YU, Ta-Hua	(21) EP18822214.5
(87) US2017034178	RABY, Richard E.	(47) 30.08.2023
30.11.2017	PARKAR, Zeba	(87) US2018063383
(22) 24.05.2017	DAVID, Moses M.	06.06.2019
(54) CANNULA ASSEMBLIES FOR USE WITH ROBOTIC SURGICAL SYSTEMS	(31) 201862736774 P	(22) 30.11.2018
(73) Covidien LP	(32) 26.09.2018	(54) ORTHODONTIC INTRAORAL APPLIANCES COMPRISING SENSORS
(72) KOPP, Brock	(33) United States of America	(73) Align Technology, Inc.
(31) 201662341888 P	(51) A61C 5/50	(72) CAM, Bruce
(32) 26.05.2016	A61C 5/62	SATO, Jun
(33) United States of America	A61M 3/00	SHANJANI, Yaser
(51) A61B 50/20	A61C 5/64	(31) 201762593241 P
A61B 50/30	(11) EP4007543	(32) 30.11.2017
A61B 50/00	(21) EP20747147.5	(33) United States of America
A61J 1/00	(47) 30.08.2023	<hr/>
A61M 5/00	(87) IB2020057118	(51) A61C 7/14
(11) EP4000583	11.02.2021	A61C 7/02
(21) EP19937402.6	(22) 28.07.2020	(11) EP3922207
(47) 30.08.2023	(54) SYRINGE ASSEMBLY	(21) EP21179152.0
(87) JP2019028241	(73) 3M Innovative Properties Company	(47) 30.08.2023
21.01.2021	(72) HOMNICK, Paul J.	(22) 11.06.2021
(22) 18.07.2019	PEUKER, Marc	(54) ORTHODONTIC DEBONDING TOOL
(54) PACKAGED MEDICAL INSTRUMENT	BOEHM, Andreas J.	(73) American Orthodontics Corporation
(73) Daikyo Seiko, LTD.	BROYLES, Bruce R.	(72) COUWENHOVEN, Lindy
(72) YOSHIDA Takayuki	(31) 19189704	NIMMER, Eric W.
(51) A61B 90/00	(32) 02.08.2019	MONTE DE OCA, Juan
A61B 34/20	(33) European Patent Office (EPO)	(31) 202016900318
(11) EP3725256	(51) A61C 7/00	(32) 12.06.2020
(21) EP19169439.7	(11) EP3998985	(33) United States of America
(47) 30.08.2023	(21) EP20746715.0	<hr/>
(22) 16.04.2019	(47) 30.08.2023	(51) A61C 7/30
(54) TRACKER FOR SURGICAL NAVIGATION	(87) IB2020056799	A61C 7/20
(73) Stryker European Operations Limited	21.01.2021	A61C 7/22
(72) UMBDENSTOCK, Emeric	(22) 20.07.2020	A61C 7/28
GAMM, Gerd Ulrich	(54) VIRTUAL ARTICULATION IN ORTHODONTIC AND DENTAL TREATMENT PLANNING	(11) EP3383309
HERRMANN, Florian	(73) 3M Innovative Properties Company	(21) EP16873680.9
(51) A61C 1/00	(72) ALVAREZ, Alberto	(47) 30.08.2023
A61C 1/08	STANKIEWICZ, Brian J.	(87) US2016065174
A61C 1/12	BEN-GAL NGUYEN, Nitsan	15.06.2017
(11) EP2679194	ZIMMER, Benjamin D.	(22) 06.12.2016
(21) EP12173500.5	SOMASUNDARAM, Guruprasad	(54) TEETH REPOSITIONING SYSTEM AND METHOD OF PRODUCING THE SAME
(47) 30.08.2023	RABY, Richard E.	(73) Brios Technologies, Inc.
(22) 26.06.2012	CUNLIFFE, Alexandra R.	(72) Wratten Jr. James Sylvester
(54) MEDICAL, IN PARTICULAR DENTAL HANDLE	(31) 201962875866 P	ROEIN PEIKAR, Seyed Mehdi
(73) W & H Dentalwerk Bürmoos GmbH	(32) 18.07.2019	(31) 201662393526 P
(72) Wagner, Hannes	(33) United States of America	201662352025 P
Schmiedlechner, Karl	(51) A61C 7/08	201562263659 P
Heinrich, Christoph	A61C 7/00	(32) 12.09.2016
(51) A61C 5/00	(11) EP3703608	20.06.2016
A61C 7/00	(21) EP18808160.8	06.12.2015
A61C 8/00	(47) 30.08.2023	(33) United States of America
	(87) US2018058483	United States of America
	09.05.2019	United States of America
	(22) 31.10.2018	<hr/>
		(51) A61C 7/36

(11) EP3943039	(11) EP3973916	(32) 14.10.2014
(21) EP21186968.0	(21) EP21197935.6	(33) United States of America
(47) 30.08.2023	(47) 30.08.2023	(51) A61C 17/02
(22) 21.07.2021	(22) 21.09.2021	(11) EP3928739
(54) MANDIBULAR REPOSITIONING APPLIANCES AND METHODS OF MANUFACTURING THE SAME	(54) METHOD FOR PRODUCING DENTURE WITH HIGH ACCURACY OF FITTING OF ARTIFICIAL TOOTH TO SOCKET	(21) EP21183764.6
(73) Clearcorrect Operating, LLC	(73) Kabushiki Kaisha Shofu	(47) 30.08.2023
(72) MAH, James	(72) FUJII, Kunihiro	(22) 29.04.2015
(31) 202016936302	(31) SATO, Hirokazu	(54) APPARATUS AND METHODS FOR CLEANING TEETH AND ROOT CANALS
(32) 22.07.2020	(31) 2021089365	(73) Sonendo, Inc.
(33) United States of America	2020160671	(72) DECHELETTE, Alexis
(51) A61C 8/00	(32) 27.05.2021	EVANS, Ryan
A61C 1/08	25.09.2020	KHAKPOUR, Mehrzad
(11) EP3804656	(33) Japan	BERGHEIM, Bjarne
(21) EP19814901.5	Japan	(31) 201462017208 P
(47) 30.08.2023	(51) A61C 13/00	201461986016 P
(87) ES2019070357	B33Y 30/00	(32) 25.06.2014
12.12.2019	B33Y 80/00	29.04.2014
(22) 29.05.2019	(11) EP4003218	(33) United States of America
(54) ASSEMBLY FOR FORMING AN ABUTMENT FOR A DENTAL IMPLANT WITH AN UNPREDETERMINED LENGTH	(21) EP20742739.4	United States of America
(73) Implant Protesis Dental 2004 S.L.	(47) 30.08.2023	(51) A61C 17/22
(72) SOLER BRULLET, Carlos	(87) EP2020070685	A61C 17/02
PÉREZ YANINI, Juan Carlos	28.01.2021	(11) EP3527168
(31) 201830679	(22) 22.07.2020	(21) EP19157292.4
201830537	(54) ARRANGEMENT AND METHOD FOR MANUFACTURING A PLURALITY OF ORTHODONTIC APPLIANCES	(47) 30.08.2023
(32) 06.07.2018	(73) Institut Straumann AG	(22) 01.12.2015
04.06.2018	(72) MÄRKLIN, Lukas	(54) ORAL IRRIGATOR
(33) Spain	(31) 19187813	(73) Water Pik, Inc.
Spain	(32) 23.07.2019	(72) LUETTGEN, Harold A.
(51) A61C 8/00	(33) European Patent Office (EPO)	SENF, Oscar
C04B 35/486	(51) A61C 13/01	HANSON, Blaine
(11) EP2543333	A61C 13/10	HUBER, Jonathan
(21) EP12006929.9	A61C 13/36	WOODARD, Brian
(47) 30.08.2023	(11) EP4039225	(31) 201562132319 P
(22) 27.06.2007	(21) EP22152924.1	201462086051 P
(54) Method of manufacturing an implant body and implant comprising such a body implant	(47) 30.08.2023	(32) 12.03.2015
(73) Zipprich, Holger	(22) 24.01.2022	01.12.2014
(72) Zipprich, Holger	(54) PLATE DENTURE MANUFACTURING METHOD, DENTURE MOLD, AND PLATE DENTURE MANUFACTURING KIT	(33) United States of America
(31) 102006034866	(73) DGSHAPE Corporation	United States of America
(32) 25.07.2006	(72) Isobe, Sachino	(51) A61F 2/00
(33) Germany	Saito, Koji	A61F 2/95
(51) A61C 9/00	(31) 2021010273	A61F 2/962
A61C 19/04	(32) 26.01.2021	A61F 2/966
(11) EP3659545	(33) Japan	(11) EP3522824
(21) EP19204880.9	(51) A61C 13/09	(21) EP17859220.0
(47) 30.08.2023	A61C 13/107	(47) 30.08.2023
(22) 27.10.2015	A61C 13/087	(87) US2017055422
(54) SYSTEM FOR MONITORING THE POSITIONING OF A PATIENT'S TEETH	A61C 5/00	12.04.2018
(73) Dental Monitoring	(11) EP3206624	(22) 05.10.2017
(72) AYACHE, William	(21) EP15778547.8	(54) BALLOON CATHETER
GHYSELINCK, Guillaume	(47) 30.08.2023	(73) Terumo Corporation
SALAH, Philippe	(87) US2015053143	(72) TAKAGI, Ayu
DEBRAUX, Laurent	21.04.2016	TAKAI, Hironori
PELLISSARD, Thomas	(22) 30.09.2015	(31) 201662414520 P
(31) 1460310	(54) METHOD OF CURING A DENTAL ARTICLE	201662404647 P
(32) 27.10.2014	(73) 3M Innovative Properties Company	(32) 28.10.2016
(33) France	(72) HAUPTMANN, Holger	05.10.2016
(51) A61C 13/00	VELMAKANNI, Bhaskar V.	(33) United States of America
A61C 13/01	KORTEN, Malte	United States of America
A61C 13/08	MAYR, Helmar	(51) A61F 2/01
A61C 13/093	(31) 201462063454 P	(11) EP3538020
		(21) EP17804754.4
		(47) 30.08.2023
		(87) US2017060974
		17.05.2018
		(22) 10.11.2017

(54) EMBOLIC PROTECTION SYSTEM INCLUDING MULTIPLE FILTER BODIES	(87) CN2017079743 11.10.2018	(73) Edwards Lifesciences Corporation
(73) Covidien LP	(22) 07.04.2017	(72) CORONA, Jeanette
(72) SIRIVONG, Sengkham	(54) DEVICE FOR STIMULATING OPTIC NERVE FIBER	ROSALES, Oscar
(31) 201615350604	(73) Lin, Po-Kang	LIMSAKOUNE, Chacphet
(32) 14.11.2016	(72) Lin, Po-Kang	WHITE, Michael
(33) United States of America	(51) A61F 2/07	CUEVAS, Juan
(51) A61F 2/07	(11) EP3413837	ROBSON, Nina
A61F 2/00	(21) EP17706110.8	ESTELLE, David
(11) EP3413837	(47) 30.08.2023	SALGADO, Mitchell
(21) EP17706110.8	(87) US2017017327	MASHNI, Michael
(47) 30.08.2023	17.08.2017	YIN, Kenny
(87) US2017017327	(22) 10.02.2017	(31) 201862617114 P
17.08.2017	(54) STENT GRAFT WITH EXTERNAL SCAFFOLDING	(32) 12.01.2018
(22) 10.02.2017	(73) Coroneo, Minas Theodore	(33) United States of America
(54) STENT GRAFT WITH EXTERNAL SCAFFOLDING	(72) Coroneo, Minas Theodore	(51) A61F 2/24
(73) Medtronic Vascular Inc.	(31) 201462064262 P	(11) EP3923867
(72) RADHAKRISHNAN, Rajesh	(32) 15.10.2014	(21) EP20714327.2
PETRUSKA, Matt	(33) United States of America	(47) 30.08.2023
ROBAINA, Samuel	(51) A61F 2/16	(87) US2020018115
PERKINS, Keith	A61N 5/06	20.08.2020
GALLIGAN, Darren	A61M 21/02	(22) 13.02.2020
ARGENTINE, Jeffery	G02B 5/22	(54) HEART VALVE SEALING DEVICES AND DELIVERY DEVICES THEREFOR
(31) 201615043246	G02B 5/28	(73) Edwards Lifesciences Corporation
(32) 12.02.2016	G02C 7/10	(72) FOREMAN, Rachel, Liat, David
(33) United States of America	A61M 21/00	KEPLINGER, Stefan, Florian
(51) A61F 2/14	(11) EP2665443	DIXON, Eric, Robert
(11) EP3378441	(21) EP12802027.8	GOHRES, Rachel, Ann
(21) EP18168071.1	(47) 30.08.2023	POPP, Michael, J.
(47) 30.08.2023	(87) US2012021500	OKOS, Chris, J.
(22) 04.03.2014	27.12.2012	OBERWISE, Eric, Michael
(54) IN SITU ADJUSTABLE OPTICAL MASK	(22) 17.01.2012	FRESCHAUF, Lauren, R.
(73) AcuFocus, Inc.	(54) APPARATUS AND METHODS FOR REDUCING FREQUENCY OR SEVERITY OF PHOTOPHOBIC RESPONSES OR MODULATING CIRCADIAN CYCLES	FORD, Steven, M.
(72) SILVESTRINI, Thomas A.	(73) University of Utah Research Foundation	(31) 201962944325 P
(31) 201313802340	(72) BLAIR, Steven, M.	201962805847 P
(32) 13.03.2013	KATZ, Bradley, Jay	(32) 05.12.2019
(33) United States of America	(31) 201161433344 P	14.02.2019
(51) A61F 2/14	(32) 17.01.2011	(33) United States of America
A61F 2/02	(33) United States of America	United States of America
A61J 1/00	(51) A61F 2/24	(51) A61F 2/24
B65D 85/86	(11) EP3723664	(11) EP4000562
B65D 85/90	(21) EP18826823.9	(21) EP21215464.5
A61B 90/00	(47) 30.08.2023	(47) 30.08.2023
(11) EP3030212	(87) IL2018051350	(22) 28.04.2016
(21) EP14834336.1	20.06.2019	(54) LAMINATED SEALING MEMBER FOR PROSTHETIC HEART VALVE
(47) 30.08.2023	(22) 12.12.2018	(73) Edwards Lifesciences Corporation
(87) US2014031759	(54) PROSTHETIC VALVE AND DELIVERY TOOL THEREFOR	(72) NIR, Noam
12.02.2015	(73) Cardiovalve Ltd.	PELLED, Itai
(22) 25.03.2014	(72) IAMBERGER, Meni	GOLDBERG, Eran
(54) LONG-TERM PACKAGING FOR THE PROTECTION OF IMPLANT ELECTRONICS	HARITON, Ilia	SHERMAN, Elena
(73) California Institute of Technology	HARARI, Boaz	RUPP, Kevin D.
(72) CHANG, Han-Chieh	(31) 201720803	(31) 201615140387
TAI, Yu-Chong	(32) 13.12.2017	201562154610 P
(31) 201314142180	(33) United Kingdom	(32) 27.04.2016
201361862180 P	(51) A61F 2/24	29.04.2015
(32) 27.12.2013	(11) EP3737337	(33) United States of America
05.08.2013	(21) EP19702783.2	United States of America
(33) United States of America	(47) 30.08.2023	(51) A61F 2/24
United States of America	(87) US2019013340	(11) EP4062874
(51) A61F 2/14	18.07.2019	(21) EP22167265.2
A61N 1/05	(22) 11.01.2019	(47) 30.08.2023
A61N 1/36	(54) AUTOMATED HEART VALVE SEWING	(22) 18.02.2015
(11) EP3607994		(54) FLEXIBLE COMMISSURE FRAME
(21) EP17904988.7		(73) Edwards Lifesciences Corporation
(47) 30.08.2023		(72) LEVI, Tamir S.
		(31) 201461941123 P
		(32) 18.02.2014

<p>(33) United States of America</p> <hr/> <p>(51) A61F 2/24</p> <p>(11) EP3943047</p> <p>(21) EP21181385.2</p> <p>(47) 30.08.2023</p> <p>(22) 19.10.2012</p> <p>(54) DEVICE FOR HEART VALVE REPLACEMENT</p> <p>(73) Twelve, Inc.</p> <p>(72) FANN, James L. DUERI, Jean-Pierre SUTTON, Douglas DEEM, Mark MORRISS, John GITTINGS, Darrin GIFFORD, Hanson LUNA, Michael</p> <p>(31) 201161549037 P</p> <p>(32) 19.10.2011</p> <p>(33) United States of America</p> <hr/> <p>(51) A61F 2/24 A61B 17/12 A61B 17/00 A61B 17/064</p> <p>(11) EP4005535</p> <p>(21) EP21214620.3</p> <p>(47) 30.08.2023</p> <p>(22) 18.04.2018</p> <p>(54) HEART VALVE SEALING DEVICES AND DELIVERY DEVICES THEREFOR</p> <p>(73) Edwards Lifesciences Corporation</p> <p>(72) CHEN, Jensen DOMINICK, Douglas Thomas CAO, Hengchu DELGADO, Sergio DIXON, Eric Robert MORATORIO, Guillermo W. FRESCHAUF, Lauren R.</p> <p>(31) 201815953283 201815953263 201815953220 201815946604 201815927814 201815914143 201815910951 201815909803 201815884193 201762486835 P</p> <p>(32) 13.04.2018 13.04.2018 13.04.2018 05.04.2018 21.03.2018 07.03.2018 02.03.2018 01.03.2018 30.01.2018 18.04.2017</p> <p>(33) United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America</p> <hr/>	<p>(51) A61F 2/24 A61B 17/12 A61B 17/00 A61B 17/064</p> <p>(11) EP4005534</p> <p>(21) EP21214617.9</p> <p>(47) 30.08.2023</p> <p>(22) 18.04.2018</p> <p>(54) HEART VALVE SEALING DEVICES AND DELIVERY DEVICES THEREFOR</p> <p>(73) Edwards Lifesciences Corporation</p> <p>(72) DELGADO, Sergio DOMINICK, Douglas Thomas DIXON, Eric Robert CHEN, Jensen FRESCHAUF, Lauren R. MORATORIO, Guillermo W. CAO, Hengchu</p> <p>(31) 201815953283 201815953263 201815953220 201815946604 201815927814 201815914143 201815910951 201815909803 201815884193 201762486835 P</p> <p>(32) 13.04.2018 13.04.2018 13.04.2018 05.04.2018 21.03.2018 07.03.2018 02.03.2018 01.03.2018 30.01.2018 18.04.2017</p> <p>(33) United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America</p> <hr/> <p>(51) A61F 2/24 A61F 2/82</p> <p>(11) EP3842012</p> <p>(21) EP21152811.2</p> <p>(47) 30.08.2023</p> <p>(22) 18.12.2009</p> <p>(54) QUICK-CONNECT PROSTHETIC HEART VALVE</p> <p>(73) Edwards Lifesciences Corporation</p> <p>(72) HUNTLEY, Tammy OBA, Travis PINTOR, Rafael CAMPBELL, Louis ZENG, Qinggang YAMBAO, August KALAM, Faisal CHAU, Mark CRISTEA, Carey</p> <p>(31) 635471 139398 P</p>	<p>(32) 10.12.2009 19.12.2008</p> <p>(33) United States of America United States of America</p> <hr/> <p>(51) A61F 2/24 A61F 2/95</p> <p>(11) EP3949905</p> <p>(21) EP21198460.4</p> <p>(47) 30.08.2023</p> <p>(22) 24.02.2011</p> <p>(54) CATHETER ASSEMBLY WITH VALVE CRIMPING ACCESSORIES</p> <p>(73) Medtronic Ventor Technologies Ltd</p> <p>(72) GALLAGHER, John MEARNS, Paul DUFFY, Niall MILLER, Noam</p> <p>(31) 91145810 30773110 P</p> <p>(32) 25.10.2010 24.02.2010</p> <p>(33) United States of America United States of America</p> <hr/> <p>(51) A61F 2/24 A61F 2/95</p> <p>(11) EP4065045</p> <p>(21) EP20820347.1</p> <p>(47) 30.08.2023</p> <p>(87) EP2020083909 03.06.2021</p> <p>(22) 30.11.2020</p> <p>(54) ANNULOPLASTY DEVICE</p> <p>(73) HVR Cardio Oy</p> <p>(72) KERÄNEN, Olli</p> <p>(31) 19212595</p> <p>(32) 29.11.2019</p> <p>(33) European Patent Office (EPO)</p> <hr/> <p>(51) A61F 2/24 A61F 2/95 A61F 2/966</p> <p>(11) EP2954874</p> <p>(21) EP15151631.7</p> <p>(47) 30.08.2023</p> <p>(22) 06.04.2010</p> <p>(54) Deployment catheter with marker bands</p> <p>(73) Gyurus ACMI, Inc. d/b/a Olympus Surgical Technologies America</p> <p>(72) O'Connell, Desmond Kutsko, James, Mark Adams, Martin, Neal</p> <p>(31) 422179</p> <p>(32) 10.04.2009</p> <p>(33) United States of America</p> <hr/> <p>(51) A61F 2/24 A61F 2/95 B25B 27/10 B30B 7/04</p> <p>(11) EP3788989</p> <p>(21) EP20203658.8</p> <p>(47) 30.08.2023</p> <p>(22) 11.09.2006</p> <p>(54) PROSTHETIC VALVE CRIMPING DEVICE</p> <p>(73) Edwards Lifesciences Corporation</p> <p>(72) BENICHO, Netanel SPENSER, Benjamin</p> <p>(31) 71601105 P</p> <p>(32) 09.09.2005</p>
---	--	--

(33) United States of America	(22) 22.06.2020	(31) 201762526815 P
(51) A61F 2/24	(54) A PROSTHETIC IMPLANT	(32) 29.06.2017
A61M 25/00	(73) L-Università ta' Malta	(33) United States of America
A61M 25/01	(72) WISMAYER, Pierre Schembri	(51) A61F 2/44
(11) EP4003229	DALLI, Donald	A61F 2/30
(21) EP20751293.0	BUHAGIAR, Joseph	(11) EP3361997
(47) 30.08.2023	MOLLICONE, Pierluigi	(21) EP16856055.5
(87) IB2020056960	(31) 201909181	(47) 30.08.2023
28.01.2021	(32) 26.06.2019	(87) US2016056503
(22) 23.07.2020	(33) United Kingdom	20.04.2017
(54) DEVICE FOR IMPLANTING A	(51) A61F 2/34	(22) 12.10.2016
PROSTHESIS FOR A HEART VALVE	A61F 2/36	(54) ARTICULATING EXPANDABLE
(73) Innovheart S.r.l.	A61F 2/38	INTERVERTEBRAL IMPLANT
(72) SHIN, Dong Ik	A61F 2/30	(73) Globus Medical, Inc
TRINH, Cindy	(11) EP3328321	(72) FAULHABER, Kurt
MAGRINI, Kevin	(21) EP16766610.6	WEIMAN, Mark
RIGHINI, Giovanni	(47) 30.08.2023	(31) 201514885252
DENISON, Andy	(87) IB2016054548	(32) 16.10.2015
(31) 201900015653	02.02.2017	(33) United States of America
201916522164	(22) 29.07.2016	(51) A61F 2/46
(32) 05.09.2019	(54) PROSTHETIC DEVICE WITH	A61B 17/56
25.07.2019	ANTIBIOTICS	A61B 17/16
(33) Italy	(73) Tecres S.P.A.	A61B 17/17
United States of America	(72) FACCIOLI, Giovanni	A61F 2/38
(51) A61F 2/28	SOFFIATTI, Renzo	A61B 17/00
(11) EP3432837	(31) UB20152661	A61F 2/30
(21) EP17790021.4	(32) 30.07.2015	A61B 90/00
(47) 30.08.2023	(33) Italy	(11) EP3603581
(87) SG2017050139	(51) A61F 2/38	(21) EP18771519.8
02.11.2017	A61F 2/46	(47) 30.08.2023
(22) 22.03.2017	A61B 17/15	(87) KR2018003176
(54) MANDIBLE ENDOPROSTHESIS	A61B 17/02	27.09.2018
IMPLANT, IMPLANT SYSTEM AND	(11) EP3445291	(22) 19.03.2018
SURGICAL KIT	(21) EP17785147.4	(54) BASE PLATE TRIAL HOLDING
(73) Singapore Health Services Pte. Ltd.	(47) 30.08.2023	APPARATUS AND KNEE IMPLANT
(72) CHANCHAREONSOOK, Nattharee	(87) AU2017000092	SURGICAL INSTRUMENT SET
LIU, Yuchun	26.10.2017	COMPRISING SAME
LIU, Wei Yang Edwin	(22) 20.04.2017	(73) Corentec Co., Ltd.
GOH, Bee Tin	(54) AN ARRANGEMENT FOR USE	(72) KIM, Chan-Eol
(31) 10201602227S	IN THE PREPARATION OF THE	YOO, Oui-Sik
(32) 22.03.2016	PROXIMAL SURFACE OF THE TIBIA	KIM, Seok-Joo
(33) Singapore	FOR THE TIBIA COMPONENT OF A	OH, Seung-Hun
(51) A61F 2/28	PROSTHETIC KNEE JOINT	(31) 20170037830
A61F 2/30	(73) Cabot, Jonathan Peter	(32) 24.03.2017
(11) EP3585315	(72) Cabot, Jonathan Peter	(33) Korea (Republic)
(21) EP18712458.1	(31) 2016901499	(51) A61F 2/46
(47) 30.08.2023	(32) 22.04.2016	A61F 2/30
(87) IB2018051102	(33) Australia	A61F 2/32
30.08.2018	(51) A61F 2/44	A61F 2/34
(22) 22.02.2018	A61B 17/80	A61F 2/40
(54) SYSTEM FOR MAKING A CRANIAL	A61K 9/00	(11) EP3923871
OPENING IN A LIVING BEING	A61B 17/70	(21) EP20709911.0
(73) Intelligenza Trasparente S.r.l.	(11) EP3644908	(47) 30.08.2023
(72) PRADA, Francesco Ugo	(21) EP18825399.1	(87) US2020016994
ROTILIO, Alessandro	(47) 30.08.2023	20.08.2020
SOLBIATI, Marco	(87) US2018040445	(22) 06.02.2020
DI MECO, Francesco	03.01.2019	(54) ACETABULAR TRIAL LINER
(31) 201700020563	(22) 29.06.2018	(73) Encore Medical, L.P. (D/B/A DJO
(32) 23.02.2017	(54) BIOABSORBABLE IMPLANT	Surgical)
(33) Italy	COMBINED WITH TISSUE-	(72) WILLS, Kevin Michael
(51) A61F 2/34	ENGINEERED COMPOSITE	SHALLENBERG, Adam
A61F 2/36	INTERVERTEBRAL DISC	(31) 202016782721
A61F 2/32	(73) Cornell University	201962806589 P
(11) EP3989885	(72) HARTL, Roger	(32) 05.02.2020
(21) EP20735290.7	LANG, Gernot	15.02.2019
(47) 30.08.2023	NAVARRO-RAMIREZ, Rodrigo	(33) United States of America
(87) EP2020067366	BONASSAR, Lawrence	United States of America
30.12.2020	MORIGUCHI, Yu	(51) A61F 2/76

(11) EP3355837	(33) Germany	13.12.2018
(21) EP16852621.8	(51) A61F 5/44	(22) 07.12.2017
(47) 30.08.2023	A61F 5/451	(54) DEPTH FILTER FOR VISUAL
(87) US2016054510	A61F 5/453	PROSTHESES
06.04.2017	A61F 13/45	(73) Cortigent, Inc.
(22) 29.09.2016	(11) EP3490512	(72) DAGNELIE, Gislin
(54) ALIGNMENT ANGLE SENSOR	(21) EP17834999.9	SEIFERT, Greg
SYSTEMS FOR LIMB PROSTHESES	(47) 30.08.2023	CASPI, Avraham
(73) University of Pittsburgh- Of the	(87) US2017043025	ROY, Arup
Commonwealth System of Higher	01.02.2018	GIBSON, Paul
Education	(22) 20.07.2017	(31) 201662431273 P
(72) FIEDLER, Goeran	(54) APPARATUS AND METHODS FOR	(32) 07.12.2016
AKINS, Jonathan S.	RECEIVING DISCHARGED URINE	(33) United States of America
(31) 201562235766 P	(73) Purewick Corporation	(51) A61F 9/008
(32) 01.10.2015	(72) NEWTON, Raymond J.	(11) EP3781094
(33) United States of America	NEWTON, Camille R.	(21) EP20717617.3
(51) A61F 2/856	(31) 201715612325	(47) 30.08.2023
A61F 2/954	201615238427	(87) EP2020059662
A61F 2/958	201615221106	08.10.2020
A61F 2/97	(32) 02.06.2017	(22) 03.04.2020
A61F 2/95	16.08.2016	(54) SYSTEMS FOR MULTIPLE LAYER
A61M 25/10	27.07.2016	INTRAOCULAR LENS AND USING
A61F 2/06	(33) United States of America	REFRACTIVE INDEX WRITING
(11) EP3616655	United States of America	(73) AMO Groningen B.V.
(21) EP19203021.1	United States of America	(72) ALARCON HEREDIA, Aixa
(47) 30.08.2023	(51) A61F 5/443	GOUNOU, Franck Emmanuel
(22) 24.03.2011	A61F 5/445	ROSEN, Robert
(54) SELECTIVE STENT CRIMPING	A61F 5/44	CANOVAS VIDAL, Carmen
(73) Advanced Bifurcation Systems Inc.	A61F 5/441	(31) 201962830312 P
(72) KHORSANDI, Mehran	(11) EP3937862	(32) 05.04.2019
BOURANG, Henry	(21) EP20715689.4	(33) United States of America
(31) 31719810 P	(47) 30.08.2023	(51) A61F 9/008
(32) 24.03.2010	(87) EP2020056577	A61B 18/20
(33) United States of America	17.09.2020	A61B 18/24
(51) A61F 5/02	(22) 11.03.2020	A61B 18/22
A61F 5/03	(54) AN OSTOMY WAFER CONSTRUCTION	G02B 6/02
A61F 5/04	(73) Furine ApS	(11) EP3706684
A61F 5/048	(72) NIELSEN, Brian Thomsen	(21) EP18836651.2
(11) EP3280366	(31) PA201901049	(47) 30.08.2023
(21) EP16777219.3	PA201900307	(87) IB2018059981
(47) 30.08.2023	(32) 05.09.2019	20.06.2019
(87) US2016026257	11.03.2019	(22) 12.12.2018
13.10.2016	(33) Denmark	(54) THERMALLY ROBUST LASER PROBE
(22) 06.04.2016	Denmark	ASSEMBLY
(54) APPARATUS FOR SPINAL DISC	(51) A61F 7/12	(73) Alcon Inc.
DECOMPRESSION	(11) EP3520748	(72) COOK, Christopher
(73) Vertecore Technologies LLC	(21) EP19164951.6	MIRSEPASSI, Alireza
(72) LEAKE, Paul H.	(47) 30.08.2023	FARLEY, Mark Harrison
MONTALVO, Paul R.	(22) 03.10.2014	SMITH, Ronald T.
(31) 201562144958 P	(54) FLUID CASSETTE WITH POLYMERIC	PARTO, Kambiz
(32) 09.04.2015	MEMBRANES AND INTEGRAL INLET	DIAO, Chenguang
(33) United States of America	AND OUTLET TUBES FOR PATIENT	(31) 201862630865 P
(51) A61F 5/28	HEAT EXCHANGE SYSTEM	201862622299 P
A61F 5/30	(73) ZOLL Circulation, Inc.	201762598653 P
A61F 13/10	(72) Pistor, Christoph Matthias	201762597550 P
(11) EP3402447	Dabrowiak, Jeremy Thomas	(32) 15.02.2018
(21) EP17700361.3	Pamichev, Christo	26.01.2018
(47) 30.08.2023	Pendry, Craig Wendell	14.12.2017
(87) EP2017050654	(31) 201414180655	12.12.2017
20.07.2017	(32) 14.02.2014	(33) United States of America
(22) 13.01.2017	(33) United States of America	United States of America
(54) EPICONDYLITIS PRESSURE PAD	(51) A61F 9/00	United States of America
(73) Bauerfeind AG	A61F 9/08	United States of America
(72) BAUERFEIND, Hans B.	A61N 1/36	(51) A61F 9/008
SCHEUERMANN, Rainer	(11) EP3551279	A61B 34/00
BÖCKELMANN, Joachim	(21) EP17826339.8	(11) EP3349701
(31) 102016000490	(47) 30.08.2023	(21) EP16766539.7
(32) 13.01.2016	(87) US2017065191	(47) 30.08.2023

(87) EP2016071813 23.03.2017	(73) DAIO PAPER CORPORATION (72) KUNIMORI, Ayano (31) 2018182208	(87) US2018040313 03.01.2019
(22) 15.09.2016	(32) 27.09.2018	(22) 29.06.2018
(54) LASER ASSISTED EYE TREATMENT SYSTEM	(33) Japan	(54) HIP-TO-SIDE AND WAIST-TO-SIDE SILHOUETTES FOR BIKINI/ LOW RISE BRIEF TYPE DISPOSABLE ABSORBENT ARTICLES AND ARRAYS
(73) Carl Zeiss Meditec AG	(51) A61F 13/15	(73) The Procter & Gamble Company
(72) RILL, Michael Stefan ANDREWS, Delbert Peter WERTH, Julia GRÄBER, Stefan	A61F 13/505 (11) EP3895673 (21) EP20169465.0 (47) 30.08.2023 (22) 14.04.2020	(72) HERMES, Franz-Josef LAVON, Gary Dean SEITZ, Bret Darren
(31) 102015217847	(54) ENVIRONMENTALLY-FRIENDLY ABSORBENT ARTICLE	(31) 201762530490 P 201762527450 P
(32) 17.09.2015	(73) Ontex BV Ontex Group NV	(32) 10.07.2017 30.06.2017
(33) Germany	(72) WEBER, Ainas	(33) United States of America United States of America
(51) A61F 9/008 A61F 2/14	(51) A61F 13/15	(51) A61F 13/532
(11) EP4003248	B26D 1/42	(11) EP3747417
(21) EP20740654.7	B26D 7/01	(21) EP19748443.9
(47) 30.08.2023	B65H 35/08	(47) 30.08.2023
(87) EP2020070690	B65H 39/14	(87) JP2019003551
28.01.2021	B65G 47/84	08.08.2019
(22) 22.07.2020	B65G 47/91	(22) 01.02.2019
(54) METHOD FOR PRODUCING A PLURALITY OF IMPLANTS FROM A PREVIOUSLY REMOVED HUMAN OR ANIMAL CORNEA	F16H 53/06	(54) ABSORBENT BODY, METHOD FOR MANUFACTURING SAME, AND ABSORBENT ARTICLE
(73) Centre national de la recherche scientifique Université Jean Monnet Saint Etienne Centre Hospitalier Universitaire Manutech-USD	(11) EP2486903 (21) EP12167183.8 (47) 30.08.2023 (22) 21.02.2008	(73) DAIO PAPER CORPORATION (72) KOYAMA, Hidetoshi (31) 2018017005 (32) 02.02.2018 (33) Japan
(72) MAUCLAIR, Cyril THURET, Gilles EGAUD, Grégory ALBOURGOL, Samy GAIN, Philippe	(54) Single transfer insert placement method and apparatus (73) Curt G. Joa, Inc. (72) McCabe,, John A (31) 902477 P (32) 21.02.2007 (33) United States of America	(51) A61F 13/56 A61F 5/44 A61F 13/15 A61F 13/472 A61F 13/476
(31) 1908274	(51) A61F 13/15	(11) EP3692965
(32) 22.07.2019	B65B 9/04	(21) EP20166342.4
(33) France	A61F 13/532	(47) 30.08.2023
(51) A61F 13/00	A61F 13/539	(22) 26.11.2008
A61M 1/00	B05C 19/04	(54) ABSORBENT ARTICLE
A61F 13/02	(11) EP2770964	(73) Daio Paper Corporation
(11) EP3634327	(21) EP12775524.7	(72) ODOI, Haruko
(21) EP18730923.2	(47) 30.08.2023	(31) 2007305578
(47) 30.08.2023	(87) EP2012071072	(32) 27.11.2007
(87) US2018034468	02.05.2013	(33) Japan
13.12.2018	(22) 24.10.2012	(51) A61F 13/56
(22) 24.05.2018	(54) PROCESS FOR PREPARING AN ABSORBENT ARTICLE	A61F 13/47
(54) GRANULATING DRESSING FOR LOW EXUDING CHRONIC WOUNDS	(73) BASF SE Bostik, Inc.	(11) EP3694462
(73) 3M Innovative Properties Company	(72) CHARTREL, Jean-François (31) 11196130 11196129 11186337 11186336	(21) EP18792532.6 (47) 30.08.2023 (87) IB2018057778 18.04.2019
(72) SANDERS, Blane CARROLL, Christopher, A. GROTHUES, Hannah, I.	(32) 29.12.2011 29.12.2011 24.10.2011 24.10.2011	(22) 08.10.2018
(31) 201762517425 P	(33) European Patent Office (EPO) European Patent Office (EPO) European Patent Office (EPO) European Patent Office (EPO)	(54) SANITARY NAPKIN FOR HEAVY UTERINE BLEEDING
(32) 09.06.2017	(51) A61F 13/49	(73) Grupo P.I. Mabe S.A. de C.V.
(33) United States of America	A61F 13/496	(72) SERRANO, Liliana Sanchez RAMOS, Karla Paulina Hernandez GONZALEZ, Denisse Torres
(51) A61F 13/15	(11) EP3644922	(31) 17195397
A61F 13/47	(21) EP18746356.7	(32) 09.10.2017
A61F 13/475	(47) 30.08.2023	(33) European Patent Office (EPO)
A61F 13/56		(51) A61F 15/00
(11) EP3858308		B65D 83/08
(21) EP19864268.8		(11) EP3669846
(47) 30.08.2023		(21) EP19216931.6
(87) JP2019027343		
02.04.2020		
(22) 10.07.2019		
(54) INDIVIDUALLY PACKAGED ABSORBENT ARTICLE		

(47) 30.08.2023	(54) OPERATING TABLE AND METHOD FOR CONTROLLING ACTUATORS IN AN OPERATING TABLE	(33) South Africa
(22) 17.12.2019		(51) A61H 1/02
(54) PLASTER DISPENSER		A61H 1/00
(73) Wero GmbH & Co. KG	(73) Maquet GmbH	(11) EP3632396
(72) AUBELE, Sebastian	(72) BAMOUNI, Bapio	(21) EP18828576.1
(31) 102018222647	KIEFFER, Cédric	(47) 30.08.2023
102018222639	BÜRSTNER, Markus	(87) CN2018094197
(32) 20.12.2018	(31) 102016122939	10.01.2019
20.12.2018	(32) 28.11.2016	(22) 03.07.2018
(33) Germany	(33) Germany	(54) KNUCKLE REHABILITATION DEVICE
Germany	(51) A61G 13/12	(73) Beijing Hengtong Xinjia Technology Development Co, Ltd.
(51) A61G 5/10	(11) EP3682861	Zhongshan Changyao Medical Equipment Co, Ltd.
(11) EP3884918	(21) EP19152616.9	(72) MAO, Zhenwei
(21) EP20186172.1	(47) 30.08.2023	YANG, Keqiang
(47) 30.08.2023	(22) 18.01.2019	YAMAMOTO, Keijiron
(22) 16.07.2020	(54) OPERATING TABLE	(31) 201710552279
(54) CLAMPING ELEMENT	(73) Baxter Medical Systems GmbH + Co. KG	(32) 07.07.2017
(73) AnyoneGo, s.r.o.	(72) ZHAO, Tong	(33) China
(72) Jiránek, Jan	(51) A61G 13/12	(51) A61H 3/04
(31) 20203735	A61G 13/00	(11) EP3685814
(32) 23.03.2020	(11) EP3793503	(21) EP20152611.8
(33) Czech Republic	(21) EP19726502.8	(47) 30.08.2023
(51) A61G 7/10	(47) 30.08.2023	(22) 20.01.2020
(11) EP3920865	(87) IB2019053363	(54) WALKING ASSIST DEVICE
(21) EP20703551.0	21.11.2019	(73) JTEKT CORPORATION
(47) 30.08.2023	(22) 24.04.2019	(72) KANAYA, Manabu
(87) IB2020050836	(54) POSITIONING APPARATUS OF A PATIENT'S LIMB	MURATA, Genki
13.08.2020	(73) Medacta International SA	MATSUOKA, Yuki
(22) 03.02.2020	(72) ROSSI, Ermete	SHIBATA, Yoshiyuki
(54) PATIENT LIFT APPARATUS	LAUDE, Frederic	(31) 2019008662
(73) Invacare International GmbH	BERNARDONI, Massimiliano	(32) 22.01.2019
(72) FERREIRA, Joaquim	SICCARDI, Francesco	(33) Japan
MONTEIRO, Mark	RIGHETTINI, Paolo	(51) A61H 15/00
DE SEIXAS GUIMARÃES, Tiago	(31) 20180005431	A61H 1/00
LIPPERT, Stefan	(32) 16.05.2018	A61H 23/00
(31) 19155847	(33) Italy	A61H 23/02
19155846	(51) A61G 13/12	A61H 23/04
(32) 06.02.2019	A61G 13/10	B23B 29/00
06.02.2019	(11) EP3484431	B23B 31/107
(33) European Patent Office (EPO)	(21) EP17737760.3	B23B 31/11
European Patent Office (EPO)	(47) 30.08.2023	(11) EP3654903
(51) A61G 7/10	(87) EP2017066485	(21) EP18832923.9
(11) EP3692969	18.01.2018	(47) 30.08.2023
(21) EP20155965.5	(22) 03.07.2017	(87) US2018040795
(47) 30.08.2023	(54) ACCESSORY WITH CLAMPING FASTENING	17.01.2019
(22) 06.02.2020	(73) Maquet GmbH	(22) 03.07.2018
(54) PATIENT LIFT AND SLING HAVING WIRELESS COMMUNICATION	(72) OLSZEWSKI, Jan Donat	(54) ATTACHMENT SYSTEM FOR A PLURALITY OF TREATMENT MEMBERS
(73) Liko Research & Development AB	RATHMANN, Dorothee	(73) Therabody, Inc.
(72) PIRIO, Clementine	(31) 102016113050	(72) SOLANA, Jaime, Sanchez
JOHANSSON, Daniel	(32) 15.07.2016	WALDRON, Michael
AUDIC, Mickael	(33) Germany	WERSLAND, Jason
LINDE, Marcus	(51) A61H 1/02	NAZARIAN, Benjamin
SUNDQVIST, Johanna	(11) EP3723691	ENSING, Geert
KAIKENDER, Philippe	(21) EP18887911.8	COLONELLO, Dennis
DUVERT, Jean-Bernard	(47) 30.08.2023	(31) 201862648810 P
(31) 201962803686 P	(87) IB2018059931	201715647050
(32) 11.02.2019	20.06.2019	(32) 27.03.2018
(33) United States of America	(22) 12.12.2018	11.07.2017
(51) A61G 12/00	(54) CONTINUOUS PASSIVE MOTION APPARATUS	(33) United States of America
A61G 13/02	(73) Medev Innovations (Pty) Ltd	United States of America
(11) EP3544566	(72) MILANDRI, Giovanni Sergio	(51) A61J 1/10
(21) EP17808838.1	FOAT, Geoffrey Darren	B32B 27/08
(47) 30.08.2023	(31) 201708400	B32B 27/30
(87) EP2017080089	(32) 12.12.2017	B32B 27/32
31.05.2018		
(22) 22.11.2017		

(11) EP3804686	(87) EP2020071341	(47) 30.08.2023
(21) EP20192849.6	04.02.2021	(87) GB2016051681
(47) 30.08.2023	(22) 29.07.2020	15.12.2016
(22) 10.10.2018	(54) TREATMENT OF SEBACEOUS GLAND	(22) 08.06.2016
(54) INTRAVENOUS INFUSION DOSAGE	DISORDERS	(54) ANTI-DANDRUFF COMPOSITIONS
FORM FOR PEMETREXED	(73) Echo Pharmaceuticals B.V.	COMPRISING A SPIROFURANONE
(73) Sun Pharmaceutical Industries Ltd	(72) ROZENBLAT, Sharon	LACTAM TETRAMIC ACID DERIVATIVE
(72) BROWMICK, Subhas Balaram	VERBAKEL, Joost	(73) Croda International PLC
KANE, Prashant	(31) 19188766	(72) BERRUÉ, Fabrice
PATEL, Hishit	(32) 29.07.2019	KERR, Russell Greig
VARU, Ramaji Karshanbhai	(33) European Patent Office (EPO)	OVERY, David Patrick
KUMAR, Samarth	(51) A61K 8/37	(31) 201509849
(31) 201721035954	A61K 8/68	(32) 08.06.2015
(32) 10.10.2017	A61Q 19/00	(33) United Kingdom
(33) India	(11) EP3733157	(51) A61K 8/49
(51) A61K 8/02	(21) EP20170325.3	A61Q 7/00
A61K 8/26	(47) 30.08.2023	A61K 8/9789
A61K 8/34	(22) 20.04.2020	A61P 17/14
A61K 8/81	(54) COMPOSITION CONTAINING	A61K 36/74
A61K 8/891	AT LEAST ONE CERAMIDE, AT	(11) EP3787592
A61K 8/36	LEAST ONE SPHINGOID BASE AND	(21) EP19720686.5
A61K 8/73	TRIETHYL CITRATE	(47) 30.08.2023
A61Q 19/00	(73) Evonik Operations GmbH	(87) EP2019061445
(11) EP3656369	(72) Dietl, Claudia	07.11.2019
(21) EP19210429.7	Blasko-Begoihn, Heike	(22) 03.05.2019
(47) 30.08.2023	Maus, Lisa	(54) COMBINATION OF EXTRACTS
(22) 20.11.2019	Mecking, Maria	OF QUINQUINA AND OF
(54) COMPOSITION FOR IMPREGNATING	Salmira-Petersen, Manuela	LEONTOPODIUM ALPINUM AND
PERSONAL CARE WIPES	Maczkiewitz, Ursula	OF THE MANGANESE SALT OF L-
COMPRISING A LAYERED SILICATE	van Logchem, Monica Desiree	PYRROLIDONECARBOXYLIC ACID IN
(73) Arion Holding B.V.	(31) 19171845	THE TREATMENT OF ALOPECIA
(72) De Kogel, Christina Emmerentia	(32) 30.04.2019	(73) Pierre Fabre Dermo-Cosmétique
Joosten, Erik	(33) European Patent Office (EPO)	(72) DAUNES-MARION, Sylvie
(31) 2022049	(51) A61K 8/46	MANDEAU, Anne
(32) 22.11.2018	A61K 8/49	POIGNY, Stéphane
(33) Netherlands	A61Q 5/02	LEVEQUE, Marguerite
(51) A61K 8/27	A61Q 5/12	(31) 1853867
A61K 8/36	A61Q 19/00	(32) 04.05.2018
A61Q 11/00	A61K 8/02	(33) France
A61K 8/21	A61K 8/81	(51) A61K 8/49
(11) EP3386467	A61K 9/00	A61Q 17/00
(21) EP17734936.2	(11) EP3573593	A61Q 17/04
(47) 30.08.2023	(21) EP18705221.2	A61Q 19/00
(87) US2017038713	(47) 30.08.2023	A61Q 19/06
28.12.2017	(87) US2018015364	A61Q 19/08
(22) 22.06.2017	02.08.2018	A61K 8/97
(54) ORAL CARE COMPOSITIONS AND	(22) 26.01.2018	A61K 36/185
THEIR USE IN TREATING DENTAL	(54) COMPOSITIONS IN THE FORM OF	A61P 17/16
EROSION	DISSOLVABLE SOLID STRUCTURES	A61P 29/00
(73) Colgate-Palmolive Company	(73) The Procter & Gamble Company	A61K 31/192
(72) SURIANO, David	(72) MASSA, Alessandra	A61K 31/353
DOGU, Nihal	PRATT, Michael, Sean	(11) EP3393444
MORGAN, Andre	HILVERT, Jennifer, Elaine	(21) EP16812977.3
REGE, Aarti	HAMERSKY, Mark, William	(47) 30.08.2023
SULLIVAN, Richard	KAY, Melanie, Anne	(87) EP2016082216
FISHER, Steven	SIVIK, Mark, Robert	29.06.2017
COLLIGAN, Mary	KEUNE, Pamela, Ann	(22) 21.12.2016
(31) 201662354247 P	(31) 201762451237 P	(54) PASSIFLORE SEED EXTRACTS AND
(32) 24.06.2016	(32) 27.01.2017	COSMETIC, PHARMACEUTICAL OR
(33) United States of America	(33) United States of America	DERMATOLOGICAL COMPOSITIONS
(51) A61K 8/34	(51) A61K 8/49	THEREOF.
A61K 8/63	A61Q 5/00	(73) Laboratoires Expanscience
A61P 17/10	A61K 31/00	(72) LECLERE-BIENFAIT, Sophie
A61Q 19/00	A61K 31/336	BREDIF, Stéphanie
A61K 8/49	A61K 31/4025	(31) 1562949
(11) EP4003281	A61K 31/407	(32) 21.12.2015
(21) EP20746648.3	(11) EP3302713	(33) France
(47) 30.08.2023	(21) EP16730463.3	(51) A61K 8/60

A61K 31/7034	A61K 47/36	(21) EP20736330.0
A61P 17/00	A61K 47/40	(47) 30.08.2023
A61P 19/02	A61K 31/728	(87) EP2020068598
A61P 43/00	A61K 47/22	07.01.2021
A61Q 19/08	(11) EP3829643	(22) 02.07.2020
A61Q 19/02	(21) EP19742222.3	(54) ORAL THIN FILM
(11) EP3501490	(47) 30.08.2023	(73) LTS LOHMANN Therapie-Systeme AG
(21) EP17841550.1	(87) EP2019069892	(72) MÜLLER, Markus
(47) 30.08.2023	06.02.2020	LINN, Michael
(87) JP2017029571	(22) 24.07.2019	(31) 102019117870
22.02.2018	(54) SYNERGISTICALLY COOPERATIVE	(32) 02.07.2019
(22) 17.08.2017	COMPOSITIONS USEFUL FOR SOFT	(33) Germany
(54) COMPOSITION FOR EXTERNAL USE	TISSUE AUGMENTATION, DRUG	(51) A61K 9/00
THAT INCLUDES PTEROSTILBENE	DELIVERY AND RELATED FIELDS	A61K 47/10
GLYCOSIDE	(73) Altergon S.a.	A61K 9/19
(73) Tomoike Bio Ltd.	(72) SOLIMANDO, Nicola	A61K 45/06
(72) HAMADA, Hiroki	NICOLAIS, Luigi	A61K 31/4045
UESUGI, Daisuke	BORZACCHIELLO, Assunta	A61P 31/00
SHIMODA, Kei	PAGLIUCA, Maurizio	(11) EP3124023
(31) 2017130528	(31) 20180007683	(21) EP15769253.4
2016160127	(32) 31.07.2018	(47) 30.08.2023
(32) 03.07.2017	(33) Italy	(87) ES2015070236
17.08.2016	(51) A61K 9/00	01.10.2015
(33) Japan	A61K 9/16	(22) 27.03.2015
Japan	A61K 9/20	(54) DURABLE PREPARATION OF
(51) A61K 8/73	A61K 47/34	AN INJECTABLE OF MELATONIN
A61K 8/34	A61K 31/573	EXHIBITING LONG-TERM STABILITY
A61Q 5/12	A61L 2/00	(73) Universidad de Granada
A61K 8/23	A61L 2/08	Servicio Andaluz de Salud
A61K 8/04	A61P 27/02	(72) GONZÁLEZ CALLEJAS, Desirée
A61K 8/365	(11) EP3651771	ACUÑA CASTROVIEJO, Darío
(11) EP3393447	(21) EP18832321.6	COMINO PARDO, Ana
(21) EP15911174.9	(47) 30.08.2023	VENEGAS MALDONADO, Carmen
(47) 30.08.2023	(87) US2018041511	BUENO LARAÑO, Pablo
(87) CN2015098868	17.01.2019	HERNÁNDEZ MAGDALENA, José Jorge
29.06.2017	(22) 10.07.2018	MANSILLA ROSELLÓ, Alfonso
(22) 25.12.2015	(54) RADIATION STERILIZATION OF	ESCAMES ROSA, Germaine
(54) A SPRAYABLE GEL COMPOSITION	HYPERCOMPRESSED POLYMER	OLMEDO MARTÍN, Carmen
AND USE THEREOF	DOSAGE FORMS	CALLEJA HERNÁNDEZ, Miguel Ángel
(73) Henkel AG & Co. KGaA	(73) Sustained Nano Systems LLC	FERRÓN ORIHUELA, José Antonio
(72) SHI, Yi	(72) CHEN, Weiliam	(31) 201430442
CHANG, Xiaowei	LIBIN, Barry M.	(32) 27.03.2014
(51) A61K 9/00	LIEBMANN, Jeffrey M.	(33) Spain
A61K 9/06	(31) 201762531239 P	(51) A61K 9/00
A61K 31/4178	(32) 11.07.2017	C07K 16/00
A61K 47/10	(33) United States of America	A61K 9/08
A61K 47/32	(51) A61K 9/00	A61K 9/19
A61K 47/14	A61K 9/16	A61K 38/00
A61P 17/00	A61K 31/56	A61K 39/00
A61P 31/10	(11) EP3362040	A61K 47/02
(11) EP3861981	(21) EP16787928.7	A61K 47/18
(21) EP20156098.4	(47) 30.08.2023	A61K 47/26
(47) 30.08.2023	(87) GB2016053158	A61K 39/395
(22) 07.02.2020	20.04.2017	(11) EP3443346
(54) NOVEL SERTACONAZOLE	(22) 12.10.2016	(21) EP17782960.3
COMPOSITIONS	(54) METHOD OF PRODUCTION OF	(47) 30.08.2023
(73) Dr. Pfleger Arzneimittel GmbH	INHALABLE COMPOSITE PARTICLES	(87) US2017026963
(72) SCHWANTES, Ulrich	USING A THREE-FLUID NOZZLE	19.10.2017
GÖTZ, Marcus Rudolf	(73) Hovione Scientia Limited	(22) 11.04.2017
KRACHT, Tobias	(72) MOURA, Claudia	(54) USE OF AMINO ACIDS AS
MÜLLER-GOYMANN, Christel C.	COSTA, Eunice	STABILIZING COMPOUNDS
NEUMEISTER, Claudia	NEVES, Filipe	IN PHARMACEUTICAL
(51) A61K 9/00	(31) 2015108885	COMPOSITIONS CONTAINING HIGH
A61K 9/08	(32) 12.10.2015	CONCENTRATIONS OF PROTEIN-
A61K 31/355	(33) Portugal	BASED THERAPEUTIC AGENTS
A61K 31/724	(51) A61K 9/00	(73) Medimmune, LLC
A61P 29/00	A61K 31/135	(72) CHOUDHARY, Sureshkumar, Bhanaram
A61K 47/69	(11) EP3993769	PATEL, Sajal, Manubhai

(31) 201662321895 P	STERGAR, Matej	A61K 31/704
(32) 13.04.2016	URSIC, Darko	A61K 41/00
(33) United States of America	MAV GOLEZ , Ida	A61K 49/00
(51) A61K 9/08	TURK, Urska	A61P 35/00
A61K 9/00	(31) 19206227	C07D 401/06
A61K 9/19	(32) 30.10.2019	A61K 33/24
A61K 47/12	(33) European Patent Office (EPO)	A61K 31/44
A61K 47/18	(51) A61K 9/10	A61K 31/40
A61K 47/20	A61K 9/08	A61K 31/09
A61K 47/26	A61K 38/05	A61K 9/00
A61K 39/395	A61K 47/02	A61K 38/07
C07K 16/00	A61P 27/02	A61K 49/18
(11) EP3781209	A61K 9/00	A61K 47/69
(21) EP19719220.6	(11) EP3744316	(11) EP4072530
(47) 30.08.2023	(21) EP19743390.7	(21) EP20820941.1
(87) EP2019059780	(47) 30.08.2023	(47) 30.08.2023
24.10.2019	(87) CN2019072664	(87) EP2020085615
(22) 16.04.2019	01.08.2019	17.06.2021
(54) VISCOSITY REDUCTION OF HIGHLY CONCENTRATED PROTEIN FORMULATIONS	(22) 22.01.2019	(22) 10.12.2020
(73) Merck Patent GmbH	(54) OPHTHALMIC PHARMACEUTICAL COMPOSITION, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF	(54) STIMULI - OR BIO- RESPONSIVE COPOLYMERS, THE POLYMERSOMES COMPRISING THE SAME AND THEIR USE IN DRUG DELIVERY
(72) HILDEBRANDT, Christian ZILLMANN, Martin HENZLER, Tanja KROG, Alexandra GUEBELI, Raphael	(73) Seinda Pharmaceutical Guangzhou Corporation	(73) Université Paris Cité INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE - INSERM Université de Bordeaux Institut Polytechnique de Bordeaux ECOLE NATIONALE SUPERIEURE DE CHIMIE DE PARIS Centre national de la recherche scientifique
(31) 18167609	(72) LIU, Zuguo XU, Pengxiang WU, Yang TANG, Guo ZHAO, Yufen HUANG, Caihong LIU, Yan	(72) DOAN, Bich-Thuy DALKO, Peter I. CHINOY, Zoeisha DUNKEL, Petra RAMNICEANU, Grégory LECOMMANDOUX., Sébastien KUMAR, Amit SANDRE, Olivier
(32) 16.04.2018	(31) 201810063904	(31) 19306612
(33) European Patent Office (EPO)	(32) 23.01.2018	(32) 10.12.2019
(51) A61K 9/08	(33) China	(33) European Patent Office (EPO)
A61K 47/02	(51) A61K 9/107	(51) A61K 9/14
A61K 31/4439	A61K 47/26	A61K 9/51
A61P 1/00	A61K 31/12	A61K 9/50
A61P 1/04	A61K 36/324	A61K 41/00
A61P 25/20	A61P 3/06	A61K 49/00
(11) EP3965735	A61P 3/00	(11) EP3790534
(21) EP20720419.9	A61P 25/16	(21) EP19720106.4
(47) 30.08.2023	A61P 25/28	(47) 30.08.2023
(87) EP2020060869	A61P 29/00	(87) EP2019060410
12.11.2020	A61P 35/00	14.11.2019
(22) 17.04.2020	A61P 37/00	(22) 24.04.2019
(54) PHARMACEUTICAL FORMULATION COMPRISING A BENZIMIDAZOLE	A61P 3/10	(54) NANOPARTICLE COMPRISING A BIO-RESORBABLE POLYESTER, A HYDROPHILIC POLYMER AND AN ACYLATED HUMAN LACTOFERRIN- DERIVED PEPTIDE
(73) Alkaloid AD Skopje	A61K 38/48	(73) Evonik Operations GmbH
(72) KRSTESKA, Ljiljana WILLIS, Andrew KAZANDZIEVSKA, Elena	A61K 36/185	(72) BENEDIKT, Anne GRIMM, Silko DIEKER, Jürgen NABBEFELD, Rike BARON VAN ASBECK, Alexander Henrik
(31) 201906473	A61K 31/352	ENGEL, Andrea
(32) 08.05.2019	A61K 31/05	BROCK, Roland
(33) United Kingdom	A61P 3/04	
(51) A61K 9/08	(11) EP3820528	
A61K 47/18	(21) EP19736404.5	
A61K 31/365	(47) 30.08.2023	
A61K 31/4439	(87) EP2019068537	
A61P 33/10	16.01.2020	
A61P 33/14	(22) 10.07.2019	
(11) EP3815677	(54) SOLUBILISATE COMPRISING CURCUMIN AND AT LEAST ONE CANNABINOID AS A FURTHER ACTIVE AGENT	
(21) EP20204374.1	(73) Aquanova AG	
(47) 30.08.2023	(72) BEHNAM, Dariush	
(22) 28.10.2020	(31) PCT/EP2018/068731	
(54) STABLE VETERINARY COMPOSITION COMPRISING MOXIDECTIN AND IMIDACLOPRID	(32) 11.07.2018	
(73) KRKA, d.d., Novo mesto	(33) World Intellectual Property Office (WIPO)	
(72) LESKOVAR, Denise ZIBERT, Tanja TIHI, Jaroslav	(51) A61K 9/127	

(31) 18171195	(21) EP20746650.9	APPLICATIONS AND METHODS OF
(32) 08.05.2018	(47) 30.08.2023	MAKING AND USING THEREOF
(33) European Patent Office (EPO)	(87) EP2020071345	(73) Georgia State University Research
(51) A61K 9/16	04.02.2021	Foundation, Inc.
A61K 9/00	(22) 29.07.2020	(72) DRAGANOV, Alexander
A61K 47/34	(54) TREATMENT OF INFLAMMATORY SKIN	WANG, Binghe
A61K 31/551	CONDITIONS	JI, Xingyue
A61P 25/18	(73) Echo Pharmaceuticals B.V.	ZHENG, Yueqin
A61P 25/00	(72) VERBAKEL, Joost	DAI, Chaofeng
(11) EP3352735	ROZENBLAT, Sharon	VIENNOIS, Emilie
(21) EP16775424.1	(31) 19188768	WANG, Danzhu
(47) 30.08.2023	(32) 29.07.2019	DAMERA, Krishna
(87) US2016052757	(33) European Patent Office (EPO)	MERLIN, Didier
30.03.2017	(51) A61K 31/05	(31) 201462009451 P
(22) 21.09.2016	A61K 31/12	(32) 09.06.2014
(54) SUSTAINED RELEASE OLANZAPINE	A61P 31/12	(33) United States of America
FORMULATIONS	A61P 35/00	(51) A61K 31/13
(73) Teva Pharmaceuticals International	A61P 31/18	A61K 31/14
GmbH	A61P 31/22	A61P 25/22
(72) SMITH, Mark, Alan	A61P 25/28	A61K 45/06
CLAASSEN-PUNT, Carine	A61P 17/12	A61K 31/138
(31) 201562221290 P	A61P 11/02	A61K 31/135
(32) 21.09.2015	A61P 15/02	(11) EP3723742
(33) United States of America	A61P 31/20	(21) EP18815771.3
(51) A61K 9/20	(11) EP3278795	(47) 30.08.2023
A61K 31/00	(21) EP16771428.6	(87) EP2018085333
(11) EP3682870	(47) 30.08.2023	20.06.2019
(21) EP19151878.6	(87) CN2016078411	(22) 17.12.2018
(47) 30.08.2023	06.10.2016	(54) USE OF
(22) 15.01.2019	(22) 02.04.2016	FLUOROETHYLNORMEMANTINE FOR
(54) METHOD FOR THE PREPARATION	(54) USES OF HYDROXYBENZOPHENONE	THE PREVENTION AND TREATMENT
OF EASILY CONSUMABLE TABLETS	IN PREPARATION OF ANTIVIRAL AND	OF ANXIETY
CONTAINING GINKGO BILOBA LEAF	ANTITUMOR DRUGS	(73) REST THERAPEUTICS
EXTRACT	(73) Guangzhou J Treat Biosci. Ltd	(72) RUBINSTENN, Gilles
(73) Dr. Willmar Schwabe GmbH & Co. KG	(72) JIANG, Guangyu	(31) 1762290
(72) ROTHE, Andreas	QIN, Weihua	(32) 15.12.2017
HERRMANN, Joachim	(31) 201510154291	(33) France
(51) A61K 9/72	(32) 02.04.2015	(51) A61K 31/155
A61M 35/00	(33) China	A61K 8/43
C01B 21/24	(51) A61K 31/122	A61K 9/00
(11) EP3871664	A61K 31/015	A61K 9/48
(21) EP20217447.0	A61K 31/166	A61K 45/06
(47) 30.08.2023	A61K 31/216	A61K 35/741
(22) 10.03.2015	A61K 31/235	A01N 63/00
(54) COMPOSITIONS AND METHODS FOR	A61K 31/5375	A01N 65/00
TREATING DISEASES OR DISORDERS	C01B 32/40	A61P 1/04
USING EXTENDED RELEASE NITRIC	C07B 37/12	A61P 35/00
OXIDE RELEASING SOLUTIONS	A61K 47/61	C12Q 1/6883
(73) SaNOtize Research and Developemnt	A61P 1/04	C12Q 1/6886
Corp.	A61P 9/10	C12Q 1/689
(72) REGEV-SHOSHAN, Gilly	A61P 17/02	(11) EP3606346
STENZLER, Alex	A61P 17/06	(21) EP18781918.0
MILLER, Christopher C.	A61P 19/02	(47) 30.08.2023
(31) 201461953053 P	A61P 27/02	(87) US2018026689
(32) 14.03.2014	A61P 27/16	11.10.2018
(33) United States of America	A61P 29/00	(22) 09.04.2018
(51) A61K 31/05	A61P 31/04	(54) ORAL ANTIMICROBIAL OR
A61K 8/34	A61P 35/00	ANTISEPTIC RINSE FOR USE
A61P 17/10	A61P 43/00	IN TREATING OR PREVENTING
A61Q 19/00	(11) EP3151919	BARRETT'S OESOPHAGUS
A61K 31/352	(21) EP15807244.7	(73) The Trustees of Columbia University in
A61K 8/9789	(47) 30.08.2023	the City of New York
A61K 31/357	(87) US2015034948	(72) ABRAMS, Julian
A61K 31/7024	17.12.2015	(31) 201762483099 P
A61K 36/185	(22) 09.06.2015	(32) 07.04.2017
A61K 36/23	(54) CARBON MONOXIDE-RELEASING	(33) United States of America
A61K 36/28	MOLECULES FOR THERAPEUTIC	(51) A61K 31/18
(11) EP4003283		A61K 47/32

A61K 9/28	(33) Italy	TATEISHI, Norifumi
A61K 9/48	(51) A61K 31/196	(31) 2005133271
A61K 9/16	A61P 35/04	2005133264
A61K 31/58	A61K 31/555	2005036235
A61K 9/50	(11) EP3685832	(32) 28.04.2005
(11) EP3796899	(21) EP19206911.0	28.04.2005
(21) EP19806977.5	(47) 30.08.2023	14.02.2005
(47) 30.08.2023	(22) 18.09.2015	(33) Japan
(87) IN2019050403	(54) METHODS FOR TREATING BRAIN	Japan
28.11.2019	METASTASIS	Japan
(22) 20.05.2019	(73) Memorial Sloan-Kettering Cancer Center	(51) A61K 31/353
(54) NOVEL PHARMACEUTICAL	(72) MASSAGUE, Joan	A61K 31/352
COMPOSITION OF TAMSULOSIN AND	BOIRE, Adrienne	A61K 31/05
DUTASTERIDE	CHEN, Qing	A61P 17/00
(73) Zim Laboratories Limited	(31) 201462052966 P	A61P 17/04
(72) MASKI, Nitin	(32) 19.09.2014	A61P 25/00
WADLE, Shashikant	(33) United States of America	A61K 9/08
DAUD, Anwar	(51) A61K 31/198	A61K 9/20
ACHLIYA, Girish	A61K 31/716	A61K 9/48
(31) 201821018849	A61K 31/702	(11) EP3868373
(32) 19.05.2018	A61K 31/718	(21) EP18940322.3
(33) India	A61K 31/685	(47) 30.08.2023
(51) A61K 31/192	A23L 33/10	(87) CN2018115075
A61K 31/375	A23L 33/175	22.05.2020
A61K 31/4418	A23L 33/12	(22) 12.11.2018
A61K 31/4545	A23L 33/125	(54) USE OF A CANNABINOID
A61K 31/506	A23L 33/15	COMPOSITION IN THE TREATMENT
A61K 33/14	A23L 33/16	OF NEURODERMATITIS
A61P 25/00	A61P 29/00	(73) Hanyi Bio-Technology (Beijing) Co., Ltd.
A61P 25/28	A61P 1/00	(72) TAN, Xin
C12N 5/0793	A61P 25/22	JIN, Qian
(11) EP3795147	A61P 25/28	CHANG, Tanran
(21) EP20207658.4	(11) EP3866615	ZHANG, Ke
(47) 30.08.2023	(21) EP19874358.5	(51) A61K 31/397
(22) 02.12.2016	(47) 30.08.2023	A61P 17/00
(54) CHEMICAL REPROGRAMMING OF	(87) US2019056045	A61P 17/14
HUMAN GLIAL CELLS INTO NEURONS	23.04.2020	A61P 27/12
WITH SMALL MOLECULE COCKTAIL	(22) 14.10.2019	A61P 43/00
(73) The Penn State Research Foundation	(54) DIETARY SUPPLEMENT FOR	C07D 409/12
(72) CHEN, Gong	TREATING DYSBIOSIS	(11) EP3705121
ZHANG, Lei	(73) Freedom Health, LLC	(21) EP18873445.3
MA, Ningxin	(72) YOHO, Mark	(47) 30.08.2023
YIN, Jiuchao	ANDERSON, Scott	(87) JP2018040283
(31) 201562263353 P	HALL, John	09.05.2019
(32) 04.12.2015	(31) 201816160658	(22) 30.10.2018
(33) United States of America	(32) 15.10.2018	(54) EMOPAMIL BINDING PROTEIN
(51) A61K 31/195	(33) United States of America	BINDING AGENT AND USE THEREOF
A61K 31/496	(51) A61K 31/202	(73) FUJIFILM Toyama Chemical Co., Ltd.
A61P 25/02	A61K 31/232	(72) SAITO Koichi
A61P 25/04	A61K 31/715	YANO Takeaki
A61K 45/06	A23L 33/12	MIYAMOTO Kaori
(11) EP3965752	A61P 17/00	(31) 2017209391
(21) EP20727843.3	A61P 17/16	(32) 30.10.2017
(47) 30.08.2023	A61P 27/00	(33) Japan
(87) IB2020054275	A61P 37/08	(51) A61K 31/4353
12.11.2020	A61P 43/00	A61P 35/00
(22) 06.05.2020	A61K 31/66	A61K 45/06
(54) PHARMACEUTICAL COMBINATION	A61P 11/06	A61K 31/4439
COMPRISES TRAZODONE FOR THE	A61P 35/00	A61K 31/506
TREATMENT OF NEUROPATHIC PAIN	(11) EP3581178	A61K 31/513
(73) Aziende Chimiche Riunite Angelini	(21) EP19183855.6	A61K 31/519
Francesco A.C.R.A.F. S.p.A.	(47) 30.08.2023	A61K 31/53
(72) POLENZANI, Lorenzo	(22) 10.02.2006	A61K 31/5375
TONGIANI, Serena	(54) COMPOSITION CONTAINING DIHOMO-	(11) EP3568204
CALISTI, Fabrizio	(GAMMA)-LINOLENIC ACID (DGLA) AS	(21) EP18701574.8
LIPONE, Paola	ACTIVE INGREDIENT	(47) 30.08.2023
(31) 201900006602	(73) Suntory Holdings Limited	(87) IB2018050111
(32) 07.05.2019	(72) KAWASHIMA, Hiroshi	19.07.2018

(22) 08.01.2018	A61K 31/538	A61K 45/06
(54) PHARMACEUTICAL COMBINATION COMPRISING AN ALK INHIBITOR AND AN SHP2 INHIBITOR	A23L 33/10 A61P 25/28 (11) EP3888655	A61K 31/7064 A61K 31/675 A61K 31/5377
(73) THE GENERAL HOSPITAL CORPORATION DBA MASSACHUSETTS GENERAL HOSPITAL Novartis AG	(21) EP19889734.0 (47) 30.08.2023 (87) KR2019016599 04.06.2020 (22) 28.11.2019	C07D 239/84 C07D 401/12 C07D 403/12 C07F 9/6558 C07H 17/02
(72) DARDAEI ALGHALANDIS, Leila LI, Fang LAMARCHE, Matthew J. WANG, Hui-Qin HAO, Huaixiang ENGELMAN, Jeffrey Adam	(54) THERAPEUTIC COMPOSITION COMPRISING RIFAPENTINE FOR USE IN TREATING AMYLOID NEUROLOGICAL DISEASES (73) Amyloid Solution Inc. (72) LEE, Dong Hee SHIN, Ji Su KIM, Hye Ju JEON, Han Na KIM, Young Soo KIM, Seong Muk	(11) EP3880205 (21) EP19801384.9 (47) 30.08.2023 (87) EP2019081516 22.05.2020 (22) 15.11.2019 (54) MADRASIN-DERIVATIVE COMPOUNDS, COMPOSITION AND USES THEREOF FOR TREATING CANCER
(31) 201762444493 P (32) 10.01.2017 (33) United States of America	(31) 20180160289 20180151835 (32) 12.12.2018 30.11.2018 (33) Korea (Republic) Korea (Republic)	(73) Centre National de la Recherche Scientifique Institut Gustave-Roussy Institut National de la Santé et de la Recherche Médicale (INSERM) Université Paris-Saclay
(51) A61K 31/436 A61K 31/4025 A61K 31/422 A61K 31/497 A61K 31/4985 A61K 31/505 A61K 31/519 A61K 31/53 A61K 31/5575 A61K 31/506 A61K 31/5585 A61K 45/06 A61P 11/00	(51) A61K 31/505 A61P 15/10 (11) EP3654983 (21) EP18740208.6 (47) 30.08.2023 (87) EP2018068992 24.01.2019 (22) 12.07.2018 (54) MPO INHIBITORS FOR USE IN MEDICINE	(72) APCHER, Sébastien MESSAOUDI, Samir SALGUES, Valérie RENKO, Zafarisoa, Dolor ALAMI, Mouad DARRIGRAND, Romain YEN-PON, Expedite
(11) EP3244968 (21) EP16737651.6 (47) 30.08.2023 (87) US2016012694 21.07.2016	(87) EP2018068992 24.01.2019 (22) 12.07.2018 (54) MPO INHIBITORS FOR USE IN MEDICINE	(31) 18306499 (32) 15.11.2018 (33) European Patent Office (EPO)
(22) 08.01.2016 (54) COMBINATION THERAPY FOR PULMONARY HYPERTENSION	(73) Astrazeneca AB (72) SANGANEE, Hitesh, Jayantilal WHITTAKER, Andrew	(51) A61K 31/5386 A61K 31/55 A61K 31/506 C07D 409/14 C07D 498/08 C07D 471/04 C07D 417/14 C07D 403/12 C07D 405/14 C07D 403/14 C07D 401/14 A61P 35/00 A61P 35/02 A61P 43/00
(73) Vivus LLC (72) GU, Leo BANAIT, Narinder S. NAKAGAKI, Paul C.	(31) 201762533448 P (32) 17.07.2017 (33) United States of America	(11) EP3150592 (21) EP15800668.4 (47) 30.08.2023 (87) CN2015080273 03.12.2015 (22) 29.05.2015 (54) ALK KINASE INHIBITOR, AND PREPARATION METHOD AND USE THEREOF
(31) 201562103020 P (32) 13.01.2015 (33) United States of America	(51) A61K 31/505 A61P 35/00 C07D 403/12 C07D 401/14 C07D 401/12 C07D 403/14 C07D 239/38 C07D 239/47 C07D 239/48 C07D 495/04 (11) EP3733184 (21) EP20179880.8 (47) 30.08.2023 (22) 13.03.2014 (54) PYRIMIDINE COMPOUNDS FOR USE IN THE TREATMENT OF CANCER	(73) Shanghai Emerald Wellcares Pharmaceutical Co., LTD (72) ZHONG, Boyu ZHANG, Deyi CHU, Shaosong DONG, Jiaqiang YUAN, Hongbin SHI, Quan ZHANG, Ruihao
(51) A61K 31/495 (11) EP3160959 (21) EP15811080.9 (47) 30.08.2023 (87) US2015037392 30.12.2015	(31) 201361785754 P (32) 14.03.2013 (33) United States of America	(87) CN2015080273 03.12.2015 (22) 29.05.2015 (54) ALK KINASE INHIBITOR, AND PREPARATION METHOD AND USE THEREOF
(22) 24.06.2015 (54) STEREOCHEMICALLY ENRICHED COMPOSITIONS FOR DELIVERY OF NUCLEIC ACIDS	(73) Icahn School of Medicine at Mount Sinai (72) REDDY, E. Premkumar REDDY, M. V. Ramana	(73) Shanghai Emerald Wellcares Pharmaceutical Co., LTD (72) ZHONG, Boyu ZHANG, Deyi CHU, Shaosong DONG, Jiaqiang YUAN, Hongbin SHI, Quan ZHANG, Ruihao
(73) Translate Bio, Inc. (72) KARVE, Shrirang DEROSA, Frank HEARTLEIN, Michael	(31) 201361785754 P (32) 14.03.2013 (33) United States of America	(31) 201410238263
(31) 201462016512 P (32) 24.06.2014 (33) United States of America	(51) A61K 31/517 A61P 35/04 A61P 35/02 A61P 35/00	
(51) A61K 31/496 A61K 31/5415 A61K 31/395 A61K 31/437 A61K 31/438		

(32) 30.05.2014	RABHI, Chérif	A61P 43/00
(33) China	DA COSTA NOBLE, Christian	(11) EP3463382
(51) A61K 31/566	OUAZZANI, Jamal	(21) EP17743096.4
A61K 31/57	(51) A61K 31/616	(47) 30.08.2023
A61K 45/06	A61K 9/00	(87) IN2017050204
A61K 9/00	A61K 47/14	07.12.2017
A61P 37/00	A61K 9/08	(22) 27.05.2017
(11) EP3137088	A61P 29/00	(54) UTTROSIDE B AND DERIVATIVES
(21) EP15786637.7	A61P 9/00	THEREOF AS THERAPEUTICS FOR
(47) 30.08.2023	A61P 35/00	HEPATOCELLULAR CARCINOMA
(87) US2015027756	A61K 47/20	(73) Rajiv Gandhi Centre for Biotechnology,
05.11.2015	A61P 9/02	an Autonomous Institute under the
(22) 27.04.2015	A61P 9/06	Department of Bio-Technology,
(54) PHARMACEUTICAL PACKAGING	A61P 9/10	Government of India
FOR ESTRIOL THERAPY FOR	A61P 25/28	(72) JOHN ANTO, Ruby
THE TREATMENT OF MULTIPLE	A61P 9/04	REGHU NATH, Lekshmi
SCLEROSIS	(11) EP3236971	(31) 201641018401
(73) The Regents of the University of	(21) EP15826045.5	(32) 28.05.2016
California	(47) 30.08.2023	(33) India
(72) VOSKUIH, Rhonda R.	(87) GB2015054129	(51) A61K 31/7076
(31) 201462032944 P	30.06.2016	A61K 31/7084
201461985380 P	(22) 22.12.2015	C07H 19/20
201461985184 P	(54) SALICYLATE COMPOUND	C07H 19/213
(32) 04.08.2014	COMPOSITION	C07H 21/04
28.04.2014	(73) Innovate Pharmaceuticals Limited	A61P 35/00
28.04.2014	(72) COHEN, Simon Jason	(11) EP3621624
(33) United States of America	HURST, Craig	(21) EP18798351.5
United States of America	(31) 201514012	(47) 30.08.2023
United States of America	201423109	(87) US2018031380
(51) A61K 31/575	(32) 07.08.2015	15.11.2018
A61K 31/688	23.12.2014	(22) 07.05.2018
A61P 39/00	(33) United Kingdom	(54) CYCLIC DI-NUCLEOTIDE
A61P 11/00	United Kingdom	COMPOUNDS AS STING AGONISTS
A61K 45/06	(51) A61K 31/635	(73) Merck Sharp & Dohme LLC
A61K 9/00	A61K 31/5377	(72) WU, Wen-Lian
A61K 9/127	A61K 45/06	TROTTER, Benjamin Wesley
(11) EP3781172	A61P 35/00	CUMMING, Jared, N.
(21) EP19716950.1	A61P 35/02	LIM, Jongwon
(47) 30.08.2023	(11) EP3969000	CHANG, Wonsuk
(87) EP2019059826	(21) EP20723447.7	(31) 201762505194 P
24.10.2019	(47) 30.08.2023	(32) 12.05.2017
(22) 16.04.2019	(87) EP2020063089	(33) United States of America
(54) TREATMENT OF PNEUMONIA	19.11.2020	(51) A61K 35/12
(73) Combioxin SA	(22) 11.05.2020	A61K 35/37
(72) AZEREDO DA SILVEIRA LAJAUNIAS,	(54) BCL-2 INHIBITORS FOR USE IN THE	A61K 35/39
Samareh	TREATMENT OF A BCL-2 MEDIATED	A61K 38/28
LAJAUNIAS, Frédéric	CANCER CARRYING THE GLY101VAL	A61F 2/00
(31) 18167848	MUTATION	A61F 2/06
(32) 17.04.2018	(73) Novartis AG	A61P 3/10
(33) European Patent Office (EPO)	Les Laboratoires Servier	A61L 27/36
(51) A61K 31/585	(72) CLAPERON, Audrey	(11) EP3615043
A61P 25/28	MURRAY, James	(21) EP18790966.8
C07J 71/00	COLLAND, Frédéric	(47) 30.08.2023
C07J 41/00	(31) 202062971297 P	(87) US2018029815
(11) EP3723859	20196284747 P	01.11.2018
(21) EP17851874.2	19178908	(22) 27.04.2018
(47) 30.08.2023	(32) 07.02.2020	(54) TISSUE CONSTRUCTS INCLUDING
(87) IB2017001758	14.05.2019	PANCREAS DERIVED MICROVESSEL
20.06.2019	07.06.2019	FRAGMENTS AND RELATED
(22) 11.12.2017	(33) United States of America	METHODS
(54) COMPOUNDS FOR TREATING	United States of America	(73) University of Louisville Research
NEURODEGENERATIVE DISORDERS	European Patent Office (EPO)	Foundation, Inc.
(73) CENTRE NATIONAL DE LA	(51) A61K 31/7048	(72) WILLIAMS, Stuart K.
RECHERCHE SCIENTIFIQUE -CNRS-	A61K 31/44	APPALALAI, Balamurugan
Ethnodyne	A61K 31/4706	(31) 201762491895 P
(72) ARCILE, Guillaume	A61P 1/16	(32) 28.04.2017
LE GOFF, Géraldine	A61P 29/00	(33) United States of America
CARIEL, Léon	A61P 35/00	(51) A61K 35/612

A61K 35/618	(21) EP19734252.0	04.02.2021
A61P 29/00	(47) 30.08.2023	(22) 31.07.2020
(11) EP3727404	(87) EP2019064211	(54) MEMBRANE FILTRATION OF PLANT
(21) EP18892617.4	05.12.2019	EXTRACTS USING CYCLODEXTRIN
(47) 30.08.2023	(22) 31.05.2019	(73) Bionorica SE
(87) IB2018060482	(54) EXTRACT AND DERMATOLOGICAL	(72) RUBNER, Moritz
27.06.2019	COMPOSITION COMPRISING SAME,	FERSCH, Silvia
(22) 21.12.2018	FOR TREATING SENSITIVE SKIN	(31) 19189464
(54) COMPOSITIONS COMPRISING	(73) Pierre Fabre Dermo-Cosmétique	(32) 31.07.2019
MUSSEL LIPID EXTRACT AND	(72) CHOL, Bertrand	(33) European Patent Office (EPO)
KRILL OIL, AND THEIR MEDICAL	CASTEX-RIZZI, Nathalie	(51) A61K 36/324
APPLICATIONS	LESTIENNE, Fabrice	(11) EP1326588
(73) Pharmed International Limited	(31) 1854794	(21) EP01967355.7
(72) HODGSON, Charles	(32) 01.06.2018	(47) 30.08.2023
MYERS, Stephen	(33) France	(87) EP2001010821
OLIVER, Christopher	(51) A61K 35/741	28.03.2002
(31) 2017905181	A61P 25/28	(22) 19.09.2001
(32) 22.12.2017	A61K 31/739	(54) ORAL DOSAGE FORMS OF
(33) Australia	A23L 33/135	BOSWELLIA EXTRACTS
(51) A61K 35/74	(11) EP3643314	(73) Catalent Germany Eberbach GmbH
A61P 1/12	(21) EP17911728.8	(72) REIDELSHÖFER, Alfred
C12N 1/20	(47) 30.08.2023	FISCHER, Gerhard
(11) EP3801578	(87) JP2017043429	RADDATZ, Klaus
(21) EP19814403.2	06.12.2018	(31) 10058734
(47) 30.08.2023	(22) 04.12.2017	(32) 20.09.2000
(87) US2019035740	(54) BRAIN FUNCTION-IMPROVING	(33) Germany
12.12.2019	AGENT, FOOD, AND MEDICINE USING	(51) A61K 36/47
(22) 06.06.2019	LIPOPOLYSACCHARIDE	A61P 37/02
(54) B. AMYLOLIQUEFACIENS STRAIN AND	(73) National University Corporation Kagawa	(11) EP3443974
THERAPEUTIC USE	University	(21) EP18187461.1
(73) Artugen Therapeutics Ltd.	Macrophil Inc.	(47) 30.08.2023
(72) CHESNEL, Laurent	Control Of Innate Immunity Technology	(22) 06.08.2018
FARQUHAR, Ronald	Research Association	(54) COMPOSITION FOR ENHANCING
REA, Mary	Biomedical Research Group Inc.	IMMUNITY OF INSECTS AND METHOD
HILL, Colin	(72) INAGAWA Hiroyuki	THEREOF
HEALY, Brian	KOHCHI Chie	(73) NatureWise Biotech & Medicals
MURPHY, Christopher K.	KOBAYASHI Yutaro	Corporation
O'DONNELL, Michelle	SOMA Gen-Ichiro	(72) HOU, Chia-Chung
ROSS, Paul	(31) 2017105133	HUANG, Chung-Yang
(31) 201862681774 P	(32) 28.05.2017	KUO, Yu-Cheng
(32) 07.06.2018	(33) Japan	CHEN, Chi-Jung
(33) United States of America	(51) A61K 36/14	(31) 106128193
(51) A61K 35/74	A61K 36/185	(32) 18.08.2017
A61P 1/16	A61K 36/21	(33) Taiwan, Chinese Taipei
A61P 3/06	A61P 13/12	(51) A61K 38/00
(11) EP3532081	(11) EP3787657	A61P 7/02
(21) EP17804944.1	(21) EP19796025.5	(11) EP3936140
(47) 30.08.2023	(47) 30.08.2023	(21) EP21173294.6
(87) IB2017056728	(87) US2019030005	(47) 30.08.2023
03.05.2018	07.11.2019	(22) 23.01.2018
(22) 30.10.2017	(22) 30.04.2019	(54) THROMBOLYTIC AGENT FOR THE
(54) COMPOSITION FOR THE PREVENTIVE	(54) HERBAL MEDICINES FOR TREATING	TREATMENT OF THROMBOEMBOLISM
OR CURATIVE TREATMENT OF LIVER	POLYCYSTIC KIDNEY DISEASES	(73) Boston Scientific Scimed, Inc.
DISORDERS	(73) Yarnell, Eric	(72) ALLEN, Lynn Gourley
(73) Probiotal S.P.A.	(72) Yarnell, Eric	(31) 201762449966 P
(72) MOGNA, Giovanni	(31) 201862664709 P	(32) 24.01.2017
(31) 201600109507	(32) 30.04.2018	(33) United States of America
(32) 28.10.2016	(33) United States of America	(51) A61K 38/00
(33) Italy	(51) A61K 36/25	C12N 9/20
(51) A61K 35/74	A61K 36/53	C07F 9/09
A61P 17/08	A61K 47/00	C07C 59/125
A61P 17/06	B01D 1/00	A61K 39/00
A61P 17/04	A61K 9/08	(11) EP3735981
A61P 37/06	A61K 47/40	(21) EP20173650.1
A61K 31/7105	(11) EP4003385	(47) 30.08.2023
A61K 9/00	(21) EP20760775.5	(22) 29.07.2016
C12N 1/20	(47) 30.08.2023	(54) MOTILE SPERM DOMAIN CONTAINING
(11) EP3801580	(87) EP2020071738	PROTEIN 2 AND INFLAMMATION

(73) Vascular Biogenics Ltd.	(54) PHARMACEUTICAL COMPOSITION COMPRISING AN ALTERED PEPTIDE LIGAND (APL) TYPE PEPTIDE	C12Q 1/68 G01N 33/574 C07K 16/28 G16B 30/10
(72) MENDEL, Itzhak SHOHAM, Anat PROPHETA-MEIRAN, Oshrat BREITBART, Eyal SALEM, Yaniv	(73) Centro De Ingenieria Genetica Y Biotecnologia	(11) EP3576781
(31) 201562199609 P	(72) LOPEZ ABAD, Cruz Matilde	(21) EP18741256.4
(32) 31.07.2015	DOMÍNGUEZ HORTA, María del Carmen	(47) 30.08.2023
(33) United States of America	BESADA PÉREZ, Vladimir Armando	(87) US2018014282
(51) A61K 38/10	GONZÁLEZ LÓPEZ, Luis Javier	26.07.2018
A61P 1/00	(31) 20170176	(22) 18.01.2018
A61P 1/04	(32) 29.12.2017	(54) NEOANTIGENS AND USES THEREOF FOR TREATING CANCER
A61P 1/12	(33) Cuba	(73) The Simons Center for Systems Biology at The Institute for Advanced Study Memorial Sloan-Kettering Cancer Center Laessig, Michael
A61P 3/04	(51) A61K 38/28	Icahn School of Medicine at Mount Sinai
A61P 3/10	A61M 5/14	(72) CHAN, Timothy, A.
A61P 7/12	A61M 5/168	MERGHOUB, Taha
A61P 9/02	A61M 5/172	GREENBAUM, Benjamin, D.
A61P 11/08	A61M 5/145	WOLCHOK, Jedd, D.
A61P 13/00	(11) EP3233157	LUKSZA, Marta
A61P 25/02	(21) EP15871147.3	LEVINE, Arnold, J.
C07K 14/47	(47) 30.08.2023	LAESSIG, Michael
(11) EP3871685	(87) US2015066595	LEACH, Steven, D.
(21) EP19877309.5	23.06.2016	BALACHANDRAN, Vinod, P.
(47) 30.08.2023	(22) 18.12.2015	(31) 201862618540 P
(87) JP2019040809	(54) INFUSION SYSTEM WITH CONCURRENT TPN/INSULIN INFUSION	201762582851 P
30.04.2020	(73) ICU Medical, Inc.	201762554232 P
(22) 17.10.2019	(72) BROWN, James B.	201762448247 P
(54) ANTI-OBESITY AGENT, POLLAKIURIA IMPROVING AGENT, AND AUTONOMIC NERVOUS ACTIVITY REGULATOR	DAY, William Kenneth	201762448291 P
(73) Asahi Group Holdings, Ltd.	SCHMIDT, Justin J.	201762447852 P
(72) SATO, Koki	SILEIKA, Tadas S.	(32) 17.01.2018
OHKI, Kohji	(31) 201514972585	07.11.2017
OHSAWA, Kazuhito	201462094552 P	05.09.2017
(31) 2018202084	(32) 17.12.2015	19.01.2017
(32) 26.10.2018	19.12.2014	19.01.2017
(33) Japan	(33) United States of America United States of America	18.01.2017
(51) A61K 38/16	(51) A61K 38/48	(33) United States of America
G01N 33/576	C12N 9/64	United States of America
C07K 19/00	(11) EP3645034	United States of America
C07K 14/18	(21) EP18736860.0	United States of America
C07K 14/005	(47) 30.08.2023	United States of America
G01N 33/569	(87) EP2018067523	United States of America
(11) EP3658171	03.01.2019	United States of America
(21) EP18743526.8	(22) 29.06.2018	(51) A61K 39/002
(47) 30.08.2023	(54) 21-DAY DOSING REGIMEN FOR FUSION PROTEINS COMPRISING FACTOR IX AND HUMAN ALBUMIN FOR PROPHYLACTIC TREATMENT OF HEMOPHILIA AND METHODS THEREOF	C07K 14/435 C07K 14/44
(87) EP2018069985	(73) CSL Behring Lengnau AG	(11) EP3368070
31.01.2019	(72) BENSEN-KENNEDY, Debra	(21) EP16795246.4
(22) 24.07.2018	LI, Yanyan	(47) 30.08.2023
(54) MULTI-EPIPOPE FUSION PROTEIN OF AN HCV ANTIGEN AND USES THEREOF	JACOBS, Iris	(87) EP2016076137
(73) F. Hoffmann-La Roche AG	VOIGT, Christine	04.05.2017
(72) UPMEIER, Barbara	(31) 201762526377 P	(22) 28.10.2016
ZARNT, Toralf	(32) 29.06.2017	(54) NEOSPORIA VACCINE COMPOSITION
BOLLHAGEN, Ralf	(33) United States of America	(73) Universidad Complutense De Madrid
(31) 17183523	(51) A61K 39/00	(72) REGIDOR CERRILLO, Javier
(32) 27.07.2017	G01N 33/569	ÁLVAREZ GARCÍA, Gema
(33) European Patent Office (EPO)	G01N 33/50	ARRANZ SOLÍS, David
(51) A61K 38/17	C12Q 1/6886	ORTEGA MORA, Luis Miguel
C07K 14/47	A61K 39/395	COLLANTES FERNÁNDEZ, Esther
A61P 29/00	G01N 33/68	(31) 15382532
(11) EP3733196	A61K 35/17	(32) 28.10.2015
(21) EP18845399.7	A61K 35/15	(33) European Patent Office (EPO)
(47) 30.08.2023	A61P 35/00	(51) A61K 39/12
(87) CU2018050007		A61K 39/145
04.07.2019		C07K 14/005
(22) 21.12.2018		(11) EP3423090
		(21) EP17708482.9

(47) 30.08.2023	A61K 39/00	(54) AGENTS FOR THE TREATMENT
(87) EP2017054843	(11) EP3849608	OF RETINAL DEGENERATION AND
08.09.2017	(21) EP19860440.7	CONDITIONS ASSOCIATED WITH
(22) 02.03.2017	(47) 30.08.2023	LIGHT RECEPTION
(54) NOVEL INFLUENZA ANTIGENS	(87) US2019050727	(73) Osaka University
(73) GlaxoSmithKline Biologicals S.A.	19.03.2020	(72) FURUKAWA, Takahisa
(72) VASSILEV, Ventsislav Bojidarov	(22) 12.09.2019	(31) 2017248490
(31) 201603625	(54) NOVEL LILRB4 ANTIBODIES AND	2017053811
(32) 02.03.2016	USES THEREOF	(32) 25.12.2017
(33) United Kingdom	(73) Immune-ONC Therapeutics, Inc.	17.03.2017
(51) A61K 39/395	The Board of Regents of The University	(33) Japan
A61K 31/00	of Texas System	Japan
A61K 33/00	(72) DENG, Mi	(51) A61K 45/06
C07K 16/28	LIU, Qiang	A61K 31/496
(11) EP4114465	ZHANG, Chengcheng	A61K 31/704
(21) EP22724683.2	LIAO, X. Charlene	A61K 31/7105
(47) 30.08.2023	HUANG, Tao	A61K 31/713
(87) EP2022060592	ZHANG, Ningyan	C12Q 1/6886
27.10.2022	GUI, Xun	(11) EP3325662
(22) 21.04.2022	AN, Zhiqiang	(21) EP16826961.1
(54) ANTI-IFNAR1 DOSING REGIME FOR	(31) 201862730715 P	(47) 30.08.2023
SUBCUTANEOUS INJECTION	(32) 13.09.2018	(87) CA2016050846
(73) AstraZeneca AB	(33) United States of America	26.01.2017
(72) TUMMALA, Rajendra	(51) A61K 39/44	(22) 18.07.2016
ROUSE, Tomas	A61K 47/69	(54) EPIGENETIC SILENCING OF NMT2
ROSKOS, Lorin	C07K 14/705	(73) Pacylex Pharmaceuticals Inc.
CHIA, Yen Lin	A61P 29/00	(72) BEAUCHAMP, Erwan
LINDHOLM, Catharina	A61P 35/00	BERTHIAUME, Luc G.
ALMQUIST, Joachim	A61P 37/06	(31) 201562194109 P
(31) 202163272851 P	A61P 43/00	(32) 17.07.2015
202163245285 P	(11) EP3487528	(33) United States of America
202163178739 P	(21) EP17749395.4	(51) A61K 47/18
(32) 28.10.2021	(47) 30.08.2023	A61K 39/395
17.09.2021	(87) EP2017068476	A61K 9/19
23.04.2021	25.01.2018	(11) EP3909611
(33) United States of America	(22) 21.07.2017	(21) EP21175309.0
United States of America	(54) EXTRACELLULAR VESICLE	(47) 30.08.2023
United States of America	COMPRISING A FUSION PROTEIN	(22) 22.10.2015
(51) A61K 39/395	HAVING FC BINDING CAPACITY	(54) REDUCING VISCOSITY OF
C07K 16/28	(73) Evox Therapeutics Ltd	PHARMACEUTICAL FORMULATIONS
A61P 35/00	(72) WIKLANDER, Oscar	(73) Amgen Inc.
A61K 47/68	GUPTA, Dhanu	(72) KANAPURAM, Sekhar
(11) EP3316909	GÖRGENS, André	SLOEY, Christopher James
(21) EP16818762.3	(31) 201612643	(31) 201462067637 P
(47) 30.08.2023	(32) 21.07.2016	(32) 23.10.2014
(87) US2016040307	(33) United Kingdom	(33) United States of America
05.01.2017	(51) A61K 45/00	(51) A61K 49/00
(22) 30.06.2016	A61K 31/7088	(11) EP3673923
(54) ANTI-NTB-A ANTIBODIES AND	A61K 31/7105	(21) EP20158800.1
RELATED COMPOSITIONS AND	A61K 31/713	(47) 30.08.2023
METHODS	A61K 38/02	(22) 13.04.2012
(73) Seagen Inc.	A61K 39/395	(54) IN VIVO IMAGING OF ENZYMATI
(72) LAW, Che-Leung	A61K 48/00	ACTIVITY
WESTENDORF, Lori	A61P 25/06	(73) Caliper Life Sciences, Inc.
SUSSMAN, Django	A61P 25/08	(72) ANSALDI, Daniel
LEWIS, Timothy	A61P 25/18	FRANCIS, Kevin P.
(31) 201662321849 P	A61P 25/20	SINGH, Rajendra
201562186596 P	A61P 27/02	ZHANG, Ning
(32) 13.04.2016	A61P 43/00	(31) 201161517090 P
30.06.2015	A61K 45/06	(32) 13.04.2011
(33) United States of America	C12Q 1/68	(33) United States of America
United States of America	G01N 33/00	(51) A61K 49/00
(51) A61K 39/395	(11) EP3597221	C07K 16/18
C07K 16/46	(21) EP18766987.4	C07K 16/30
C07K 19/00	(47) 30.08.2023	G01N 33/533
C12N 15/13	(87) JP2018010660	(11) EP3645055
C12P 21/08	20.09.2018	(21) EP18749508.0
C07K 16/28	(22) 16.03.2018	(47) 30.08.2023

- (87) IB2018054712
03.01.2019
(22) 26.06.2018
(54) REAGENTS FOR OPTICAL
MICROSCOPY COMPRISING AN
ANTIBODY OR FAB FRAGMENT AND A
FLUOROPHORE
(73) ALDA S.r.l.
(72) LICCARDO, Federica
LUIINI, Alberto
PALUMBO, Giuseppe
MARZULLO, Vincenzo Manuel
(31) 201700071296
(32) 26.06.2017
(33) Italy
-
- (51) A61K 51/04
(11) EP3058960
(21) EP14853995.0
(47) 30.08.2023
(87) JP2014074738
23.04.2015
(22) 18.09.2014
(54) DIAGNOSTIC AGENT FOR
THERAPEUTIC EFFECT ON CANCER
(73) Hamamatsu Photonics K.K.
(72) HARADA, Norihiro
NISHIYAMA, Shingo
TSUKADA, Hideo
KANAZAWA, Masakatsu
(31) 2013215636
(32) 16.10.2013
(33) Japan
-
- (51) A61L 2/00
A61L 2/10
A61L 9/20
(11) EP3981439
(21) EP21199352.2
(47) 30.08.2023
(22) 28.09.2021
(54) ULTRAVIOLET LIGHT EMITTING
DISINFECTING DEVICE
(73) The Boeing Company
(72) Childress, Jamie J.
(31) 202117366476
202063089105 P
(32) 02.07.2021
08.10.2020
(33) United States of America
United States of America
-
- (51) A61L 2/18
A01N 33/12
C11D 1/62
C11D 3/48
C11D 17/04
A01N 47/44
(11) EP3065787
(21) EP14802747.7
(47) 30.08.2023
(87) US2014063917
14.05.2015
(22) 04.11.2014
(54) DISINFECTING COMPOSITION AND
WIPES WITH REDUCED CONTACT
TIME
(73) Arxada, LLC
(72) COLURCIELLO, Andrew
KOEHL, David
(31) 201361900797 P
- (32) 06.11.2013
(33) United States of America
-
- (51) A61L 2/20
(11) EP3600456
(21) EP18711784.1
(47) 30.08.2023
(87) US2018021013
04.10.2018
(22) 06.03.2018
(54) STERILISATION METHOD
(73) Regeneron Pharmaceuticals, Inc.
(72) SHODDER, Philip Stephen
(31) 201762568850 P
201762477030 P
(32) 06.10.2017
27.03.2017
(33) United States of America
United States of America
-
- (51) A61L 9/01
A61L 9/04
A61L 9/12
A61L 9/14
C11D 3/50
(11) EP3541435
(21) EP17801694.5
(47) 30.08.2023
(87) EP2017079665
24.05.2018
(22) 17.11.2017
(54) USE OF VOLATILE COMPOSITIONS TO
LIMIT OR ELIMINATE PERCEPTION OF
FECAL MALODOUR
(73) Firmenich SA
(72) ROGERS, Matthew
MARGOT, Christian
CHAPPUIS, Charles
O'LEARY, Nicholas
VUILLEUMIER, Christine
MARR, Gary
STARKENMANN, Christian
CHAPUIS, Christian
SMITH, Ben
(31) 201762556714 P
201762485060 P
201662424072 P
17175114
(32) 11.09.2017
13.04.2017
18.11.2016
08.06.2017
(33) United States of America
United States of America
United States of America
European Patent Office (EPO)
-
- (51) A61L 15/42
A61L 15/22
A61L 15/28
A61L 15/32
A61L 15/44
A61L 15/46
A61L 15/64
A61L 26/00
(11) EP3659631
(21) EP18839106.4
(47) 30.08.2023
(87) KR2018008397
31.01.2019
(22) 25.07.2018
- (54) WOUND DRESSING COMPRISING
HYALURONIC ACID-CALCIUM AND
POLYLYSINE AND MANUFACTURING
METHOD THEREFOR
(73) Youreh Co., Ltd.
(72) UM, Hyang Mae
SEOL, Ja Young
(31) 20170094693
(32) 26.07.2017
(33) Korea (Republic)
-
- (51) A61L 27/10
A61L 27/46
A61L 27/58
(11) EP2896411
(21) EP15155133.0
(47) 30.08.2023
(22) 29.06.2007
(54) Bioactive bone graft substitute
(73) Orthovita, Inc.
(72) Darmoc, Marissa, M.
Bagga, Charanpreet, S.
Clineff, Theodore, D.
Nagvajara, Gina, M.
Erbe, Erik, M.
Koblish, Antony
(31) 817617 P
(32) 29.06.2006
(33) United States of America
-
- (51) A61L 29/16
A61L 29/00
A61L 29/08
A61L 31/16
(11) EP3762054
(21) EP19721721.9
(47) 30.08.2023
(87) IB2019051904
12.09.2019
(22) 08.03.2019
(54) USES OF CYANOBACTERIUM
EXTRACELLULAR POLYMER,
COMPOSITIONS, COATED SURFACES
OR ARTICLES
(73) Instituto De Biologia Molecular E Celular
- IBMC
INEB-Instituto Nacional De Engenharia
Biomédica
(72) COSTA MOUTINHO, Fabiola
GIL VASCONCELOS MOTA, Rita
TEIXEIRA LOPES DA COSTA PINTO,
M. Cristina
TAMAGNINI, Paula
(31) 2018110718
2018110614
(32) 03.05.2018
08.03.2018
(33) Portugal
Portugal
-
- (51) A61L 31/10
A61L 31/16
(11) EP3829666
(21) EP19752815.1
(47) 30.08.2023
(87) US2019044244
06.02.2020
(22) 30.07.2019
(54) DRUG RELEASE COATING
COMPOSITIONS
(73) Boston Scientific Scimed Inc.

(72) CHAKY, Jonathan Pascal CHEN, Yen-Lane ZENG, Hongxia DANG, Ming	(54) THERAPY APPARATUS WITH INTEGRATED FLUID CONDUCTORS AND NOISE ATTENUATION	(87) EP2017060769 09.11.2017
(31) 201862713081 P	(73) 3M Innovative Properties Company	(22) 05.05.2017
(32) 01.08.2018	(72) FRANCIS, Loren	(54) SYSTEM FOR PROPORTIONING FLUIDS
(33) United States of America	PRATT, Benjamin Andrew	(73) Gambro Lundia AB
(51) A61M 1/00	LOCKE, Christopher, Brian	(72) ENARSSON, Simon
A61F 13/02	SEDDON, James Killingworth	HOBRO, Sture
(11) EP3248623	MERCER, David	SANDIN, Karin
(21) EP17164033.7	(31) 201462048638 P	JANSSON, Olof
(47) 30.08.2023	(32) 10.09.2014	WIESLANDER, Anders
(22) 05.03.2009	(33) United States of America	CARLSSON, Ola
(54) DRESSING FOR APPLYING REDUCED PRESSURE TO AND COLLECTING AND STORING FLUID FROM A TISSUE SITE	(51) A61M 1/16	(31) 1650611
(73) 3M Innovative Properties Company	A61J 1/10	(32) 06.05.2016
(72) LOCKE, Christopher Brian	A61J 1/14	(33) Sweden
JAEB, Jonathan Paul	A61J 1/16	(51) A61M 1/34
ROBINSON, Timothy Mark	(11) EP4028073	A61M 1/36
COULTHARD, Richard Daniel John	(21) EP20768043.0	A61M 1/16
TOUT, Aidan Marcus	(47) 30.08.2023	(11) EP3021886
(31) 49028 P	(87) EP2020075272	(21) EP14739431.6
34013 P	18.03.2021	(47) 30.08.2023
(32) 30.04.2008	(22) 10.09.2020	(87) EP2014065119
05.03.2008	(54) SYSTEM AND METHOD FOR OPENING A CONCENTRATE CONTAINER AND CONNECTING THE CONCENTRATE CONTAINER TO A BLOOD TREATMENT DEVICE	22.01.2015
(33) United States of America	(73) Fresenius Medical Care Deutschland GmbH	(22) 15.07.2014
United States of America	(72) BREHM, Winfried	(54) A CONTROL DEVICE CONFIGURED TO CONTROL A METHOD FOR CONTROLLING A BLOOD TREATMENT APPARATUS
(51) A61M 1/00	LAFFAY, Philippe	(73) Fresenius Medical Care Deutschland GmbH
A61M 3/02	WIESEN, Gerhard	(72) WEHMEYER, Wolfgang
(11) EP3648811	(31) 201910866972	KOPPERSCHMIDT, Pascal
(21) EP18749691.4	201916568599	CHAMNEY, Paul
(47) 30.08.2023	19196997	(31) 102013011715
(87) US2018042261	(32) 12.09.2019	(32) 15.07.2013
24.01.2019	12.09.2019	(33) Germany
(22) 16.07.2018	12.09.2019	(51) A61M 1/36
(54) NEGATIVE-PRESSURE THERAPY WITH ADJUSTABLE INSTILLATION PUMP CHAMBER	(33) China	A61M 1/38
(73) 3M Innovative Properties Company	United States of America	(11) EP3741404
(72) LOCKE, Christopher, Brian	European Patent Office (EPO)	(21) EP20175596.4
PRATT, Benjamin, Andrew	(51) A61M 1/16	(47) 30.08.2023
(31) 201762533729 P	B01D 19/00	(22) 20.05.2020
(32) 18.07.2017	(11) EP3706821	(54) CENTRIFUGAL SEPARATION AND COLLECTION OF RED BLOOD CELLS OR BOTH RED BLOOD CELLS AND PLASMA
(33) United States of America	(21) EP18807562.6	(73) Fenwal, Inc.
(51) A61M 1/00	(47) 30.08.2023	(72) KUSTERS, Benjamin E.
A61M 5/14	(87) EP2018080605	MIN, Kyungyoon
(11) EP3488881	16.05.2019	(31) 201962851725 P
(21) EP18215218.1	(22) 08.11.2018	(32) 23.05.2019
(47) 30.08.2023	(54) METHOD AND DEVICE FOR DEGASSING LIQUIDS	(33) United States of America
(22) 10.09.2015	(73) Fresenius Medical Care Deutschland GmbH	(51) A61M 5/00
(54) DYNAMIC NEGATIVE-PRESSURE THERAPY WITH INSTILLATION	(72) FISCHER, Gerome	A61B 5/00
(73) 3M Innovative Properties Company	PETERS, Arne	A61M 5/142
(72) PRATT, Benjamin, Andrew	(31) 102017126136	(11) EP2554193
SEDDON, James, Killingworth	(32) 08.11.2017	(21) EP11765341.0
(31) 201462048615 P	(33) Germany	(47) 30.08.2023
(32) 10.09.2014	(51) A61M 1/28	(87) JP2011056218
(33) United States of America	A61M 1/16	13.10.2011
(51) A61M 1/00	A61K 31/19	(22) 16.03.2011
B29C 33/00	A61K 31/194	(54) INTEGRATED CIRCUIT AND MEDICAL INSTRUMENT USING SAME
(11) EP3590555	A61K 31/7004	(73) Terumo Kabushiki Kaisha
(21) EP19193338.1	A61K 33/14	(72) MORITA, Takashi
(47) 30.08.2023	A61K 33/20	SUGAWARA, Yoshihisa
(22) 09.09.2015	(11) EP3452139	IWATA, Takeharu
	(21) EP17722015.9	(31) 2010080224
	(47) 30.08.2023	

(32) 31.03.2010	A61M 1/36	(11) EP3426324
(33) Japan	(11) EP3506964	(21) EP17703974.0
(51) A61M 5/00	(21) EP17847288.2	(47) 30.08.2023
A61M 5/20	(47) 30.08.2023	(87) EP2017052623
A61M 5/24	(87) US2017048836	14.09.2017
G16H 20/17	08.03.2018	(22) 07.02.2017
(11) EP3651830	(22) 28.08.2017	(54) ELECTRICAL INFORMATION DEVICE
(21) EP18735336.2	(54) BINDING SYRINGE	FOR COMMUNICATING INFORMATION
(47) 30.08.2023	(73) Arthrex, Inc	RELATED TO A MEDICAMENT
(87) EP2018068502	(72) BARE, Christopher, M.	DELIVERY
17.01.2019	TUCKER, Melissa, S.	(73) SHL Medical AG
(22) 09.07.2018	HARRISON, Robert, M. IV	(72) SÄLL, Daniel
(54) PACKAGING ASSEMBLY	NABORS, Abigail	(31) 16159891
(73) Sanofi	(31) 201615254667	(32) 11.03.2016
(72) HELMER, Michael	(32) 01.09.2016	(33) European Patent Office (EPO)
(31) 17305942	(33) United States of America	(51) A61M 5/20
(32) 14.07.2017	(51) A61M 5/20	A61M 5/315
(33) European Patent Office (EPO)	A61M 5/142	A61M 5/48
(51) A61M 5/145	A61M 5/148	(11) EP3655071
A61M 5/168	A61M 5/28	(21) EP18740245.8
A61M 5/315	(11) EP2906273	(47) 30.08.2023
A61M 5/24	(21) EP13802136.5	(87) EP2018069713
A61M 5/142	(47) 30.08.2023	24.01.2019
A61M 5/31	(87) US2013065136	(22) 20.07.2018
(11) EP3626287	17.04.2014	(54) ASSISTED INJECTION DEVICE
(21) EP19208857.3	(22) 15.10.2013	FOR SELECTIVELY INJECTING A
(47) 30.08.2023	(54) CHEMICAL ENGINES AND METHODS	COMPOSITION CONTAINED IN A
(22) 22.09.2016	FOR THEIR USE, ESPECIALLY IN THE	MEDICAL CONTAINER
(54) ROTATION RESISTANT FRICTION	INJECTION OF HIGHLY VISCOUS	(73) Becton Dickinson France
ELEMENT FOR HOUSING OF DRUG	FLUIDS	(72) CARREL, Franck
DELIVERY DEVICE	(73) Eli Lilly and Company	PEROT, Frederic
(73) Medimop Medical Projects Ltd	(72) BLUM, Timothy M.	GAGLIANO, Julien
(72) CABIRI, Oz	MADLAND, Steven M.	(31) 17305983
HEZKIAHU, Ran	BENNISON, Corrie	(32) 21.07.2017
(31) 201615269248	ELLIS, Jeffrey L.	(33) European Patent Office (EPO)
201514861478	HEINTZ, Amy M.	(51) A61M 5/30
(32) 19.09.2016	KASEMAN, Brian	A61M 5/315
22.09.2015	MUENZER, Christopher H.	(11) EP3187214
(33) United States of America	MCKENZIE, Christopher P.	(21) EP15835157.7
United States of America	(31) 201361817312 P	(47) 30.08.2023
(51) A61M 5/168	201261713250 P	(87) CN2015084819
A61M 5/142	201261713236 P	03.03.2016
A61M 5/172	(32) 29.04.2013	(22) 22.07.2015
(11) EP3481463	12.10.2012	(54) ELECTRICALLY POWERED
(21) EP17735151.7	12.10.2012	NEEDLELESS INJECTOR
(47) 30.08.2023	(33) United States of America	(73) Beijing QS Medical Technology Co. Ltd.
(87) EP2017066901	United States of America	(72) ZHANG, Ming
11.01.2018	United States of America	(31) 201420488275 U
(22) 06.07.2017	(51) A61M 5/20	(32) 27.08.2014
(54) FLOW DETECTOR	A61M 5/315	(33) China
(73) F. Hoffmann-La Roche AG	(11) EP3655069	(51) A61M 5/315
(72) LIST, Hans	(21) EP18740242.5	A61M 5/178
WEHOWSKI, Frederic	(47) 30.08.2023	A61M 5/32
(31) 16187465	(87) EP2018069700	(11) EP3569273
16178656	24.01.2019	(21) EP19185524.6
(32) 06.09.2016	(22) 20.07.2018	(47) 30.08.2023
08.07.2016	(54) ASSISTED INJECTION DEVICE	(22) 16.06.2011
(33) European Patent Office (EPO)	FOR INJECTING A COMPOSITION	(54) SYRINGE WITH ADJUSTABLE DOSE
European Patent Office (EPO)	CONTAINED IN A MEDICAL	SETTING PLUNGER
(51) A61M 5/178	CONTAINER	(73) Becton, Dickinson and Company
A61M 5/19	(73) Becton Dickinson France	(72) CHANOCH, Lawrence, H.
A61M 5/31	(72) CARREL, Franck	WILSON, John B.
A61M 5/315	GAGLIANO, Julien	(31) 34425710 P
G01N 1/10	(31) 17305984	(32) 18.06.2010
G01N 33/53	(32) 21.07.2017	(33) United States of America
B01D 15/18	(33) European Patent Office (EPO)	(51) A61M 5/32
A61M 1/00	(51) A61M 5/20	(11) EP3574947
A61M 1/02	A61M 5/315	(21) EP19177714.3

(47) 30.08.2023	08.09.2017	(54) GAS SUPPLY DEVICE FOR RESPIRATION
(22) 31.05.2019	(22) 28.02.2017	(73) Teijin Pharma Limited
(54) DISPOSABLE INJECTION NEEDLE	(54) DEVICES FOR EVAPORATION AND INHALATION OF ACTIVE AGENTS	(72) IIDA, Naoyuki
(73) Tianjin Huahong Technology Co., Ltd.	(73) Emplicure AB	SASAKI, Masato
(72) ZHANG, Libo	(72) ENGQVIST, Håkan	(31) 2017061658
(31) 201810559376	(31) 201702805	(32) 27.03.2017
(32) 01.06.2018	201603463	(33) Japan
(33) China	(32) 21.02.2017	(51) A61M 16/00
(51) A61M 5/32	29.02.2016	(11) EP3936177
(11) EP3669914	(33) United Kingdom	(21) EP20184927.0
(21) EP19213935.0	United Kingdom	(47) 30.08.2023
(47) 30.08.2023	(51) A61M 15/00	(22) 09.07.2020
(22) 05.12.2019	A61J 7/02	(54) BREATHING APPARATUS
(54) INTRODUCER NEEDLE DEVICE	G01F 11/00	(73) Albert, Alfred
(73) Kimal PLC	G06M 1/06	(72) Laier-Groeneveld, Gerhard
(72) SHEWARD, Adam Nicholas	G06M 3/02	(51) A61M 16/00
(31) 201820526	G06M 3/12	(11) EP4115931
(32) 17.12.2018	(11) EP3988148	(21) EP22193639.6
(33) United Kingdom	(21) EP21209196.1	(47) 30.08.2023
(51) A61M 5/46	(47) 30.08.2023	(22) 05.12.2017
A61B 5/103	(22) 14.06.2017	(54) VENTILATOR APPARATUS
A61B 5/00	(54) COUNTING DEVICE WITH LOCK OUT MECHANISM	(73) imtmedical ag
A61M 5/168	(73) TTP plc	(72) FRIBERG, Harri
(11) EP3226946	(72) BAKER, Lawrence	VAN DER STAAY, Matthias
(21) EP15864524.2	STRANGE, Daniel	(31) 201615370255
(47) 30.08.2023	(31) 201610450	(32) 06.12.2016
(87) SG2015050480	(32) 15.06.2016	(33) United States of America
09.06.2016	(33) United Kingdom	(51) A61M 16/00
(22) 01.12.2015	(51) A61M 15/00	A61M 16/04
(54) SENSOR PATCH AND SENSING DEVICE HAVING THE SAME	A24F 47/00	(11) EP3720532
(73) Singapore Health Services Pte Ltd	A61M 11/04	(21) EP18830576.7
Agency for Science, Technology and Research	(11) EP3615115	(47) 30.08.2023
(72) CHENG, Ming-yuan	(21) EP18719871.8	(87) US2018064603
TAN, Swee Kim	(47) 30.08.2023	13.06.2019
DAMALERIO, Ramona	(87) EP2018060502	(22) 07.12.2018
CHEN, Weiguo	01.11.2018	(54) ENDOTRACHEAL TUBE GUARD WITH OPTIONAL HOLDING SYSTEM AND OPTIONAL SENSOR
HE, Cairan	(22) 24.04.2018	(73) Pavini, Marie
BONG, Choon Looi	(54) AEROSOL DELIVERY SYSTEM	(72) Pavini, Marie
HO, Chee Keong	(73) Imperial Tobacco Limited	(31) 201762595778 P
GU, Yuandong	(72) TALBOT, Oliver	(32) 07.12.2017
(31) 10201408029P	SUDLOW, Tom	(33) United States of America
(32) 02.12.2014	SHENTON, Edward Ross	(51) A61M 16/00
(33) Singapore	MADDEN, Alfred	A61M 16/04
(51) A61M 11/00	ILLIDGE, Ben	A61M 16/08
A61M 11/04	JONES, David	A61M 16/10
A61M 15/00	LORD, Chris	(11) EP3852853
A61M 15/08	(31) 201802845	(21) EP19813720.0
(11) EP3909626	201802844	(47) 30.08.2023
(21) EP21171109.8	201802843	(87) DE2019000246
(47) 30.08.2023	201706593	26.03.2020
(22) 29.04.2021	(32) 22.02.2018	(22) 20.09.2019
(54) LIQUID ADMINISTERING DEVICE	22.02.2018	(54) SYSTEM FOR ASSISTING BREATHING
(73) Funai Electric Co., Ltd.	22.02.2018	(73) Gründler GmbH
(72) YONEKAWA, Ryo	25.04.2017	(72) KÖBRICH, Rainer
MOTOBAYASHI, Naoki	(33) United Kingdom	GRÜNDLER, Markus
AZUMA, Akihiro	United Kingdom	GRÜNDLER, Christoph
TANABE, Hideki	United Kingdom	JOOST, Thilo
(31) 2020083475	United Kingdom	RESLO, Bernd
(32) 11.05.2020	(51) A61M 16/00	(31) 102018007517
(33) Japan	(11) EP3603714	(32) 21.09.2018
(51) A61M 15/00	(21) EP18777701.6	(33) Germany
A24F 47/00	(47) 30.08.2023	(51) A61M 16/00
(11) EP3423134	(87) JP2018011307	A61M 16/16
(21) EP17714509.1	04.10.2018	(11) EP4051352
(47) 30.08.2023	(22) 22.03.2018	
(87) GB2017050531		

(21) EP20807503.6	(22) 10.12.2012	(54) RE-ENTRY DEVICE FOR PERIPHERAL
(47) 30.08.2023	(54) VALVE FOR RESPIRATORY MASKS	ARTERIAL RECANALIZATION
(87) IB2020060245	(73) Intersurgical AG	PROCEDURES
06.05.2021	(72) BOWSHER, Richard Francis	(73) Graziani, Lanfroi
(22) 30.10.2020	(31) 201121192	(72) Graziani, Lanfroi
(54) SYSTEMS FOR SMART	(32) 09.12.2011	(31) 201700090381
HUMIDIFICATION	(33) United Kingdom	201715668753
(73) ResMed Sensor Technologies Limited	(51) A61M 16/20	(32) 04.08.2017
(72) SHOULDICE, Redmond	(11) EP3895752	04.08.2017
(31) 201962928911 P	(21) EP21382313.1	(33) Italy
(32) 31.10.2019	(47) 30.08.2023	United States of America
(33) United States of America	(22) 14.04.2021	(51) A61M 25/06
(51) A61M 16/06	(54) RESPIRATOR VALVE	A61M 25/00
A61M 16/08	(73) Hospital Sant Joan de Deu	A61M 5/32
A61M 16/00	(72) PONS ODENA, Martí	A61M 39/06
A61M 16/16	FONT VIZCARRA, Lluís	(11) EP3695872
A61M 16/20	BERMÚDEZ CASTEL, Adrian	(21) EP20160607.6
B33Y 80/00	MURCIA LAGUNA, Marc	(47) 30.08.2023
(11) EP3924027	PENA PÉREZ, Xoel	(22) 06.10.2016
(21) EP20756114.3	PALAU FORTE, Enric	(54) COMPLIANT CATHETER ADAPTER
(47) 30.08.2023	VALLS ESTEVE, Arnau	HAVING SELF-SLITTING NEEDLE
(87) IB2020051080	ALAEZ VASCONCELLOS, Carlos	(73) Becton, Dickinson and Company
20.08.2020	(31) 202030640 U	(72) ELLIS, Carl
(22) 11.02.2020	(32) 15.04.2020	MAUL, Christopher
(54) TEXTILE SEAL WITH AIR-ASSISTED	(33) Spain	WANG, Bin
BIASING PORTION	(51) A61M 16/20	BURKHOLZ, Jonathan Karl
(73) ResMed Pty Ltd	A61M 16/00	PETERSON, Bart D.
(72) ENGSTROM, Hans Christer Henric	(11) EP3884986	CHRISTENSEN, Corey
GUNEY, Memduh	(21) EP21157408.2	HYER, Daniel Kirk
BATE, Andrew James	(47) 30.08.2023	DAVIS, Eric
SCHEINER, Rupert Christian	(22) 09.12.2016	(31) 201615286223
(31) 2019900644	(54) APPARATUS FOR RESPIRATORY	201662296385 P
201962805147 P	TREATMENT	201662296383 P
PCT/IB2019/058832	(73) ResMed Pty Ltd	201562247626 P
(32) 28.02.2019	(72) YANG, Quangang	201562247624 P
13.02.2019	HOLLEY, Liam	201562247621 P
16.10.2019	MARTIN, Dion Charles Chewe	201562247607 P
(33) Australia	WLODARCZYK, Peter	201562247617 P
United States of America	MALOUF, Gordon Joseph	201562247599 P
World Intellectual Property Office (WIPO)	(31) 201562265700 P	201562247596 P
(51) A61M 16/06	(32) 10.12.2015	(32) 05.10.2016
A61M 16/08	(33) United States of America	17.02.2016
A61M 16/10	(51) A61M 25/00	17.02.2016
A61B 5/08	A61B 5/20	28.10.2015
A61B 5/097	A61B 5/00	28.10.2015
A61M 16/00	(11) EP3990085	28.10.2015
A61M 16/04	(21) EP20736569.3	28.10.2015
A61B 5/083	(47) 30.08.2023	28.10.2015
(11) EP3762078	(87) DK2020050193	28.10.2015
(21) EP19764074.1	30.12.2020	28.10.2015
(47) 30.08.2023	(22) 25.06.2020	(33) United States of America
(87) US2019018415	(54) CATHETER COMPRISING COMBINED	United States of America
12.09.2019	VALVE AND SENSOR	United States of America
(22) 18.02.2019	(73) Coloplast A/S	United States of America
(54) CAPNOGRAPHY FITTING	(72) PEDERSEN, Troels Gottfried	United States of America
(73) Hu-Friedy Mfg. Co., LLC	(31) PA201970407	United States of America
(72) VANPELT, Benjamin F.	(32) 26.06.2019	United States of America
(31) 201862641011 P	(33) Denmark	United States of America
(32) 09.03.2018	(51) A61M 25/01	United States of America
(33) United States of America	A61B 17/22	United States of America
(51) A61M 16/06	(11) EP3661580	(51) A61M 25/06
A61M 16/08	(21) EP18752634.8	A61M 25/10
A61M 16/12	(47) 30.08.2023	(11) EP3513829
A61M 16/20	(87) IB2018055858	(21) EP19150998.3
A61B 18/10	07.02.2019	(47) 30.08.2023
(11) EP3597248	(22) 03.08.2018	(22) 09.01.2019
(21) EP19190874.8		(54) CATHETER DEVICE COMPRISING A
(47) 30.08.2023		SPLITTABLE SHEATH

<p>(73) Medtronic, Inc. (72) MORERO, Massimo SASSI, Andrea (31) 201815875318 (32) 19.01.2018 (33) United States of America <hr/> (51) A61M 27/00 (11) EP3484573 (21) EP17743456.0 (47) 30.08.2023 (87) US2017042369 25.01.2018 (22) 17.07.2017 (54) ELECTRONIC VALVE READER HAVING ORIENTATION SENSING MECHANISM (73) Medtronic Xomed, Inc. (72) AMERY, Drew (31) 201662363524 P (32) 18.07.2016 (33) United States of America <hr/> (51) A61M 31/00 A61M 25/01 A61M 29/02 (11) EP3003455 (21) EP14808427.0 (47) 30.08.2023 (87) US2014041445 11.12.2014 (22) 08.06.2014 (54) SYSTEMS FOR PERFORMING MEDICAL PROCEDURES INVOLVING ACCESSING THE LYMPHATIC SYSTEM (73) LXS, LLC (72) EVERSULL, Christian, Scott CALLAGHAN, Matthew, John LEFFLANG, Stephen, Arie (31) 201361832820 P (32) 08.06.2013 (33) United States of America <hr/> (51) A61M 36/06 A61M 36/08 G01T 1/164 G01T 1/20 G05B 13/02 A61M 5/00 (11) EP3453422 (21) EP18179950.3 (47) 30.08.2023 (22) 26.02.2007 (54) RUBIDIUM ELUTION SYSTEM CONTROL (73) Ottawa Heart Institute Research Corporation (72) KLEIN, Ran DEKEMP, Robert A (31) 372149 (32) 10.03.2006 (33) United States of America <hr/> (51) A61M 37/00 A61C 7/08 A61K 9/22 A61P 25/16 (11) EP3065808 (21) EP14859759.4 (47) 30.08.2023 (87) US2014064137 14.05.2015 (22) 05.11.2014</p>	<p>(54) CONTINUOUS DRUG DELIVERY VIA THE MOUTH (73) SynAgile Corporation (72) SPIRIDIGLOZZI, John HELLER, Ephraim REHLAENDER, Bruce HELLER, Adam (31) 201462042553 P 201461987899 P 201461926022 P 201361899979 P (32) 27.08.2014 02.05.2014 10.01.2014 05.11.2013 (33) United States of America United States of America United States of America United States of America <hr/> (51) A61M 39/24 A61F 5/44 A61F 5/441 (11) EP3682940 (21) EP19207487.0 (47) 30.08.2023 (22) 06.11.2019 (54) BACKFLOW PREVENTION DEVICE (73) Curaco, Inc. (72) LEE, Hoonsang CHOI, Sungpil LEE, Hosang PARK, Minjae (31) 20190006531 (32) 18.01.2019 (33) Korea (Republic) <hr/> (51) A61M 60/113 A61M 60/531 A61M 60/515 A61M 60/38 A61M 60/237 (11) EP2832383 (21) EP14002553.7 (47) 30.08.2023 (22) 23.07.2014 (54) Assembly having a blood pump and a pump control (73) Xenios AG (72) Gorhan, Holger Matheis, Georg (31) 102013012433 (32) 29.07.2013 (33) Germany <hr/> (51) A61M 60/17 A61M 60/268 A61M 60/295 A61M 60/427 A61M 60/497 A61M 60/837 A61M 60/843 A61M 60/861 A61M 60/869 A61M 60/894 (11) EP4010043 (21) EP20754364.6 (47) 30.08.2023 (87) IB2020056544 21.01.2021 (22) 13.07.2020</p>	<p>(54) CARDIAC CHAMBER PROSTHESIS AND RELATED CARDIAC ASSISTANCE SYSTEM (73) Romano, Salvatore (72) Romano, Salvatore (31) 201900011640 (32) 12.07.2019 (33) Italy <hr/> (51) A61N 1/00 A61N 1/36 (11) EP2340078 (21) EP09818122.5 (47) 30.08.2023 (87) US2009005459 08.04.2010 (22) 05.10.2009 (54) NON-REGULAR ELECTRICAL STIMULATION PATTERNS FOR TREATING NEUROLOGICAL DISORDERS (73) Duke University (72) GRILL, Warren M. DORVAL, Alan D. (31) 102575 P (32) 03.10.2008 (33) United States of America <hr/> (51) A61N 1/05 A61N 1/36 A61B 5/24 A61B 5/00 A61B 5/0245 A61B 5/283 A61B 5/287 (11) EP3760276 (21) EP20177805.7 (47) 30.08.2023 (22) 21.11.2014 (54) APPARATUS FOR ASSISTED BREATHING BY TRANSVASCULAR NERVE STIMULATION (73) Lungpacer Medical Inc. (72) HOFFER, Joaquin Andres TRAN, Bao Dung REYNOLDS, Steven Campbell THAKKAR, Viral EVANS, Douglas NASH, John (31) 201361907993 P (32) 22.11.2013 (33) United States of America <hr/> (51) A61N 1/05 A61N 1/36 A61N 1/372 (11) EP3972682 (21) EP20731400.6 (47) 30.08.2023 (87) EP2020063859 26.11.2020 (22) 18.05.2020 (54) SYSTEM FOR ELECTRICAL NERVE STIMULATION (73) Nyxoah SA (72) TSUKRAN, Roi Moshe (31) 201962850077 P (32) 20.05.2019 (33) United States of America <hr/> (51) A61N 1/05 H01L 23/31</p>
--	--	--

A61N 1/36	ASPECTS IN AN IMPLANTABLE	G06F 3/01
H01L 23/10	STIMULATOR DEVICE	G16H 10/60
H01L 23/055	(73) Boston Scientific Neuromodulation	G16H 20/30
H01L 23/08	Corporation	G16H 40/67
A61N 1/375	(72) GURURAJ, Kiran, K.	(11) EP3897817
H01L 21/50	CARBUNARU, Rafael	(21) EP19900894.7
(11) EP3741326	MARNFELDT, Goran, N.	(47) 30.08.2023
(21) EP18900745.3	(31) 201862670551 P	(87) US2019063404
(47) 30.08.2023	(32) 11.05.2018	25.06.2020
(87) CN2018087067	(33) United States of America	(22) 26.11.2019
25.07.2019	(51) A61N 1/36	(54) SYSTEM FOR MICROCURRENT
(22) 16.05.2018	(11) EP3777963	STIMULATION THERAPY
(54) PACKAGING METHOD FOR RETINAL	(21) EP20193914.7	(73) i-Lumen Scientific, Inc.
PROSTHESIS IMPLANT CHIP	(47) 30.08.2023	(72) MASKO, Marshall, T.
(73) Hangzhou Nanochap Electronics Co.,	(22) 18.07.2014	MOWERY, Blair, P.
Ltd.	(54) TRIPHASIC PULSES TO REDUCE	(31) 201862783116 P
(72) YU, Guangjun	UNDESIRABLE SIDE-EFFECTS IN	(32) 20.12.2018
YANG, Jiawei	COCHLEAR IMPLANTS	(33) United States of America
YANG, Xuyan	(73) MED-EL Elektromedizinische Geräte	(51) A61N 1/362
TRAN, Nhan	GmbH	A61N 1/365
(31) 201810044188	(72) SÜRTH, Werner	A61N 1/37
(32) 17.01.2018	SCHATZER, Reinhold	A61B 5/021
(33) China	(31) 201361856090 P	A61B 5/0245
(51) A61N 1/18	(32) 19.07.2013	A61B 5/316
A61N 1/32	(33) United States of America	A61B 5/352
A61F 7/00	(51) A61N 1/36	A61B 5/363
A61B 17/34	(11) EP3922302	A61B 5/00
A61N 1/04	(21) EP21190186.3	A61B 5/341
A61N 1/00	(47) 30.08.2023	(11) EP3925663
A61B 18/14	(22) 15.09.2017	(21) EP21190876.9
A61M 37/00	(54) DORSAL SPINAL COLUMN	(47) 30.08.2023
(11) EP3799922	CHARACTERIZATION WITH EVOKED	(22) 26.07.2017
(21) EP20188200.8	POTENTIALS	(54) CARDIAC ELECTRICAL SIGNAL
(47) 30.08.2023	(73) Medtronic Inc.	GROSS MORPHOLOGY-BASED NOISE
(22) 30.12.2016	(72) DINSMOOR, David A.	DETECTION FOR REJECTION OF
(54) ELECTROPORATION DEVICE WITH	SU, Xin	VENTRICULAR TACHYARRHYTHMIA
DETACHABLE NEEDLE ARRAY WITH	DENISON, Timothy J.	DETECTION
LOCK-OUT SYSTEM	(31) 201715704893	(73) Medtronic Inc.
(73) Inovio Pharmaceuticals, Inc.	201662395727 P	(72) Greenhut, Saul E.
(72) STADELMANN, Beat	(32) 14.09.2017	Zhang, Xusheng
KEMMERRER, Stephen	16.09.2016	Cao, Jian
LOVELL, Nathan	(33) United States of America	(31) 201715653969
MASTERSON, Steven	United States of America	201662367166 P
HO, Eduardo E.	(51) A61N 1/36	(32) 19.07.2017
CAMPILLO-AGUSTI, Alejandro	A61N 1/05	27.07.2016
(31) 201562272758 P	(11) EP3582849	(33) United States of America
(32) 30.12.2015	(21) EP18707575.9	United States of America
(33) United States of America	(47) 30.08.2023	(51) A61N 1/372
(51) A61N 1/36	(87) US2018018182	A61M 25/01
(11) EP3269421	23.08.2018	A61N 1/05
(21) EP16179720.4	(22) 14.02.2018	(11) EP3752246
(47) 30.08.2023	(54) MODULAR IMPLANT DELIVERY AND	(21) EP19709201.8
(22) 15.07.2016	POSITIONING SYSTEM	(47) 30.08.2023
(54) NEUROSTIMULATION USING AC AND/	(73) lotamotion, Inc.	(87) US2019018329
OR DC STIMULATION PULSES	(72) HANSEN, Marlan	22.08.2019
(73) PRECISIS GmbH	HAHN, Adam	(22) 15.02.2019
(72) Coman, Dumitru-Ovidiu-Silviu	KAUFMANN, Christopher	(54) DEFLECTABLE MAPPING GUIDE
Liedler, Angela, Dr.	HENSLEE, Allan	SHEATH FOR HIS BUNDLE PACING
Remmert, Gregor, Dr.	TIMKO, Eric	(73) St. Jude Medical, Cardiology Division,
(51) A61N 1/36	(31) 201762573487 P	Inc.
(11) EP3755426	201762458846 P	(72) BORNZIN, Gene, A.
(21) EP19729892.0	(32) 17.10.2017	WEISS, Emily
(47) 30.08.2023	14.02.2017	STOERMER, Erich, W.
(87) US2019028954	(33) United States of America	KRAMER, Scott, A.
14.11.2019	United States of America	BELK, Paul, A.
(22) 24.04.2019	(51) A61N 1/36	HANENBERG, Amy, L.
(54) STIMULATION WAVEFORMS WITH	A61N 5/06	SENARITH, Patrick, P.
HIGH-AND LOW-FREQUENCY	A61N 1/04	SOMOGYI, Zoltan

CONWAY, Joshua, C.	H01S 3/10	(51) A61P 35/00
(31) 201862743460 P	G02F 1/35	A61P 35/02
201862710431 P	A61B 18/26	C07K 14/705
(32) 09.10.2018	A61B 18/00	A61P 43/00
16.02.2018	(11) EP3711819	C12N 5/0789
(33) United States of America	(21) EP19883329.5	A61K 35/12
United States of America	(47) 30.08.2023	A61K 39/00
(51) A61N 1/375	(87) CN2019084444	C07K 16/30
A61B 5/0215	28.05.2020	A61K 35/28
A61N 1/365	(22) 26.04.2019	A61K 35/17
A61B 5/287	(54) ELECTRO-OPTICAL Q-SWITCH	C07K 19/00
A61B 5/00	DOUBLE-FREQUENCY DOUBLE-	C07K 16/28
A61B 7/00	PULSE LASER LITHOTRIpsy SYSTEM	C07K 14/725
A61B 7/04	(73) JILIN PROVINCE KING LASER CO.,	(11) EP3362472
A61B 5/349	LTD.	(21) EP16856410.2
(11) EP3532161	(72) DU, Jinbo	(47) 30.08.2023
(21) EP17794574.8	DIAO, Lingtian	(87) US2016057339
(47) 30.08.2023	DONG, Jiazuo	20.04.2017
(87) US2017057929	SHAO, Jianhua	(22) 17.10.2016
03.05.2018	(31) 201811381556	(54) COMPOSITIONS AND METHODS FOR
(22) 23.10.2017	(32) 20.11.2018	INHIBITION OF LINEAGE SPECIFIC
(54) IMPLANTABLE MEDICAL DEVICE WITH	(33) China	ANTIGENS
PRESSURE SENSOR	(51) A61P 31/00	(73) The Trustees of Columbia University in
(73) Cardiac Pacemakers, Inc.	A61P 35/00	the City of New York
(72) MAILE, Keith R.	C07D 417/04	(72) BOROT, Florence
HAASL, Benjamin J.	C07D 495/04	MUKHERJEE, Siddhartha
KANE, Michael J.	A61K 31/381	MAHMOOD ALI, Abdullah
(31) 201662413766 P	C07D 471/14	(31) 201562242685 P
(32) 27.10.2016	C07D 519/00	(32) 16.10.2015
(33) United States of America	(11) EP3999185	(33) United States of America
(51) A61N 1/39	(21) EP20746915.6	(51) A61P 35/00
(11) EP3434325	(47) 30.08.2023	C07D 417/14
(21) EP18186221.0	(87) EP2020070334	A61K 31/427
(47) 30.08.2023	21.01.2021	(11) EP3986565
(22) 30.07.2018	(22) 17.07.2020	(21) EP20734486.2
(54) WEARABLE CARDIOVERTER	(54) BENZOTHIOPHENE, THIENOPYRIDINE	(47) 30.08.2023
DEFIBRILLATOR (WCD) SYSTEM	AND THIENOPYRIMIDINE	(87) EP2020067053
REACTING TO HIGH-FREQUENCY	DERIVATIVES FOR THE MODULATION	24.12.2020
ECG NOISE	OF STING	(22) 19.06.2020
(73) West Affum Holdings DAC	(73) CTXT PTY LTD	(54) NEW EGFR INHIBITORS
(72) Sullivan, Joseph Leo	(72) CAMERINO, Michelle Ang	(73) F. Hoffmann-La Roche AG
Kim, Jaeho	BOZIKIS, Ylva Elisabet Bergman	(72) NAGEL, Yvonne Alice
(31) 201816037990	MORROW, Benjamin Joseph	JAESCHKE, Georg
201762538159 P	CUZZUPE, Anthony Nicholas	RICCI, Antonio
(32) 17.07.2018	HUBERT, Jonathan Grant	KUHN, Bernd
28.07.2017	STUPPLE, Paul Anthony	RUEHER, Daniel
(33) United States of America	(31) 201910305	STEINER, Sandra
United States of America	(32) 18.07.2019	(31) 19181762
(51) A61N 5/06	(33) United Kingdom	(32) 21.06.2019
A61B 18/20	(51) A61P 35/00	(33) European Patent Office (EPO)
A61N 5/067	A61K 35/768	(51) A61P 35/00
A61B 18/22	A61K 35/761	C07D 417/14
A61B 17/00	A61K 39/395	A61K 31/427
A61B 18/00	C07K 16/46	(11) EP3986566
(11) EP4003507	A61K 35/17	(21) EP20734487.0
(21) EP20771349.6	(11) EP3870297	(47) 30.08.2023
(47) 30.08.2023	(21) EP19797995.8	(87) EP2020067055
(87) IB2020056888	(47) 30.08.2023	24.12.2020
28.01.2021	(87) EP2019079123	(22) 19.06.2020
(22) 22.07.2020	30.04.2020	(54) NEW EGFR INHIBITORS
(54) SYSTEM AND METHOD FOR GUIDED	(22) 25.10.2019	(73) F. Hoffmann-La Roche AG
HAIR REMOVAL USING DIODE LASER	(54) ONCOLYTIC VIROTHERAPY AND	(72) NORCROSS, Roger David
(73) Mulè, Salvatore Vincenzo	IMMUNOTHERAPY	STEINER, Sandra
(72) PERROTTA, Piero	(73) Baylor College of Medicine	RICCI, Antonio
(31) 201900012771	(72) SUZUKI, Masataka	OBST-SANDER, Christa Ulrike
(32) 24.07.2019	(31) 201862750402 P	GOERGLER, Annick
(33) Italy	(32) 25.10.2018	JAESCHKE, Georg
(51) A61N 5/067	(33) United States of America	RUEHER, Daniel

NAGEL, Yvonne Alice	(31) 19218390	A62B 17/00
KUHN, Bernd	(32) 20.12.2019	A42B 1/04
DOLENTE, Cosimo	(33) European Patent Office (EPO)	A41D 31/08
HEWINGS, David Stephen	(51) A61Q 1/10	A41D 31/02
(31) 19181772	A61K 8/87	A42B 1/046
(32) 21.06.2019	A61K 8/06	A41D 31/14
(33) European Patent Office (EPO)	(11) EP3682948	(11) EP3565644
(51) A61P 35/00	(21) EP19020025.3	(21) EP18701837.9
C07D 417/14	(47) 30.08.2023	(47) 30.08.2023
A61K 31/427	(22) 16.01.2019	(87) US2018012397
(11) EP3986567	(54) COSMETIC O/W MASCARA	12.07.2018
(21) EP20734489.6	COMPOSITIONS COMPRISING	(22) 04.01.2018
(47) 30.08.2023	POLYURETHANE RESIN	(54) HOOD INCLUDING PARTICLE
(87) EP2020067057	(73) The Boots Company PLC	BARRIER
24.12.2020	(72) Billinger, Emma	(73) W. L. Gore & Associates, GmbH
(22) 19.06.2020	Tomlinson, Paul James	W.L. Gore & Associates, Inc.
(54) NEW EGFR INHIBITORS	(51) A61Q 19/08	(72) ZISCHKA, Bernd
(73) F. Hoffmann-La Roche AG	A61K 8/37	HARPER, Seth
(72) JAESCHKE, Georg	A61K 8/49	STÜBIGER, Werner
HEWINGS, David Stephen	A61Q 19/00	BLAKE, Holly
RICCI, Antonio	A61K 8/9789	MAPLES, Allen
NORCROSS, Roger David	A61K 31/05	RILEY, Shawn
KUHN, Bernd	A61K 31/202	(31) 201762443057 P
GOERGLER, Annick	A61K 36/185	(32) 06.01.2017
NAGEL, Yvonne Alice	A61K 8/34	(33) United States of America
RUEHER, Daniel	A61K 8/36	(51) A62B 18/00
OBST-SANDER, Christa Ulrike	A61K 8/365	A61B 5/00
STEINER, Sandra	(11) EP4003282	A61B 5/08
DOLENTE, Cosimo	(21) EP20746649.1	A62B 18/02
(31) 19181772	(47) 30.08.2023	(11) EP3932305
(32) 21.06.2019	(87) EP2020071342	(21) EP21169817.0
(33) European Patent Office (EPO)	04.02.2021	(47) 30.08.2023
(51) A61P 35/00	(22) 29.07.2020	(22) 22.04.2021
C07D 487/04	(54) TREATMENT OF AGING OR UV-	(54) MASK APPARATUS
A61K 31/454	DAMAGED SKIN	(73) LG Electronics Inc.
(11) EP4076664	(73) Echo Pharmaceuticals B.V.	(72) KIM, Hojung
(21) EP20833855.8	(72) ROZENBLAT, Sharon	HEO, Taeun
(47) 30.08.2023	VERBAKEL, Joost	CHOI, Chiyoung
(87) EP2020086914	(31) 20165447	YOUN, Wansu
24.06.2021	19188767	LEE, Keonwang
(22) 18.12.2020	(32) 25.03.2020	MUN, Yeongcheol
(54) EGFR INHIBITORS	29.07.2019	BAEK, Sangkyun
(73) F. Hoffmann-La Roche AG	(33) European Patent Office (EPO)	(31) 20200080437
(72) KUHN, Bernd	European Patent Office (EPO)	(32) 30.06.2020
NAGEL, Yvonne Alice	(51) A62B 9/00	(33) Korea (Republic)
RICCI, Antonio	A62B 17/04	(51) A62B 18/10
JAESCHKE, Georg	A62B 7/02	A62B 9/02
(31) 19218403	A62B 7/08	A41D 13/11
(32) 20.12.2019	(11) EP3019245	(11) EP3021950
(33) European Patent Office (EPO)	(21) EP14744255.2	(21) EP14745324.5
(51) A61P 35/00	(47) 30.08.2023	(47) 30.08.2023
C07D 487/04	(87) US2014045986	(87) US2014046627
A61K 31/454	15.01.2015	22.01.2015
A61K 31/427	(22) 09.07.2014	(22) 15.07.2014
A61K 31/55	(54) AIRCRAFT CREW MEMBER	(54) RESPIRATOR HAVING OPTICALLY
(11) EP4076665	PROTECTIVE BREATHING	ACTIVE EXHALATION VALVE
(21) EP20835790.5	APPARATUS	(73) 3M Innovative Properties Company
(47) 30.08.2023	(73) B/E Aerospace, Inc.	(72) BUCCELLATO, Gina M.
(87) EP2020086917	(72) KUPER, Chip	YUST, David T.
24.06.2021	KSHIRSAGAR, Girish	YLITALO, Caroline M.
(22) 18.12.2020	ELLIOTT, Andrew	MARTIN, Philip G.
(54) EGFR INHIBITORS	NOEHREN, Wayne	MERRILL, William Ward
(73) F. Hoffmann-La Roche AG	(31) 201313938707	JONZA, James M.
(72) NAGEL, Yvonne Alice	(32) 10.07.2013	DUNN, Douglas S.
KUHN, Bernd	(33) United States of America	(31) 201361846456 P
HEWINGS, David Stephen	(51) A62B 17/04	(32) 15.07.2013
RICCI, Antonio	A41D 31/00	(33) United States of America
JAESCHKE, Georg	A41D 13/11	(51) A62C 31/00

A62C 35/00	(11) EP3630308	(22) 18.05.2021
A62C 37/00	(21) EP18733432.1	(54) APPARATUS FOR FIXING GOLF TEES
F16L 3/00	(47) 30.08.2023	(73) Wendland, Kai
A62C 35/68	(87) US2018035368	Richter, Tino
A62C 37/11	06.12.2018	(72) Richter, Tino
F16L 3/133	(22) 31.05.2018	Wendland, Kai
F16L 15/08	(54) TREADMILL WITH VERTICALLY	(31) 202020002355 U
(11) EP3645131	DISPLACEABLE PLATFORM	102020003211
(21) EP18829045.6	(73) Nike Innovate C.V.	(32) 18.05.2020
(47) 30.08.2023	(72) LEWIS, Andrew James	18.05.2020
(87) US2018040938	BROTHERS, Brian R.	(33) Germany
10.01.2019	BEYER, Jeffrey A.	Germany
(22) 05.07.2018	WETTTLAUFER, Edward F.	(51) A63B 71/00
(54) ASSEMBLY FOR A SPRINKLER	SAWARYNSKI, Thomas J.	A63B 21/072
SYSTEM	WOROBETS, Jay T.	A63B 21/075
(73) ASC Engineered Solutions, LLC	STAMM, Stacy E.	(11) EP3746193
(72) BEAGEN, Joseph	(31) 201815991499	(21) EP19706837.2
(31) 201715644141	201762512769 P	(47) 30.08.2023
(32) 07.07.2017	201762512770 P	(87) US2019016546
(33) United States of America	(32) 29.05.2018	08.08.2019
(51) A62C 31/22	31.05.2017	(22) 04.02.2019
(11) EP3658242	31.05.2017	(54) ADJUSTABLE WEIGHT KETTLEBELL
(21) EP18755139.5	(33) United States of America	(73) Nautilus, Inc.
(47) 30.08.2023	United States of America	(72) BAKER, Bryce C.
(87) EP2018069728	United States of America	BUSH, Pj M.
31.01.2019	(51) A63B 33/00	FLICK, Edward L.
(22) 20.07.2018	B63C 11/16	(31) 201862625812 P
(54) E-EXTINGUISHING LANCE FOR	(11) EP3727613	(32) 02.02.2018
FIREFIGHTING IN ELECTRICALLY	(21) EP18842802.3	(33) United States of America
CHARGED OBJECTS	(47) 30.08.2023	(51) A63B 71/06
(73) MURER-Feuerschutz GmbH	(87) FR2018053521	H04N 21/2368
Volkswagen Aktiengesellschaft	27.06.2019	H04N 21/43
(72) RESCHKE, Albrecht	(22) 21.12.2018	H04N 21/242
WILLE, Thomas	(54) DIVING MASK ENABLING PRESSURE	(11) EP3723877
PETERMANN, Matthias	EQUALISATION AT THE EARS	(21) EP18889794.6
(31) 202017104411 U	(73) Decathlon	(47) 30.08.2023
(32) 24.07.2017	(72) GRIMALDI, Charles	(87) US2018065706
(33) Germany	VIS, Raphael	20.06.2019
(51) A62C 99/00	SORIGUE, Quentin	(22) 14.12.2018
(11) EP3753608	(31) 1762873	(54) COORDINATING WORKOUTS ACROSS
(21) EP20180555.3	(32) 21.12.2017	REMOTE EXERCISE MACHINES
(47) 30.08.2023	(33) France	(73) Peloton Interactive, Inc.
(22) 17.06.2020	(51) A63B 47/04	(72) PACKLES, David, Owen
(54) FIRE SIMULATING APPARATUS	A45F 5/00	INTONATO, Joseph
(73) HeatWave Fire Trainer Systems	A45F 5/02	DION, Benoit
(72) Naderer, Matthias	A63B 57/20	SONIER, Matthew
Naderer, Gerhard	A63B 47/00	FOLEY, John
(31) 8292019	(11) EP3151933	FENG, Yu
(32) 19.06.2019	(21) EP15802397.8	CORTESE, Thomas
(33) Switzerland	(47) 30.08.2023	(31) 201762598997 P
(51) A63B 22/00	(87) CA2015000364	(32) 14.12.2017
A63B 22/06	10.12.2015	(33) United States of America
A63B 22/08	(22) 04.06.2015	(51) A63B 71/12
A63B 23/04	(54) GOLF BALL HOLDER AND METHOD	A41D 13/015
(11) EP3721948	THEREOF	A41D 13/05
(21) EP20177056.7	(73) Darr, Adnan	A61F 5/055
(47) 30.08.2023	(72) Darr, Adnan	F41H 1/00
(22) 11.03.2016	(31) 2854044	(11) EP3618936
(54) IMPROVED EXERCISE DEVICE AND	(32) 06.06.2014	(21) EP18794080.4
METHOD OF EXERCISE	(33) Canada	(47) 30.08.2023
(73) M&S Distribution, Inc.	(51) A63B 57/20	(87) CA2018000088
(72) Snyderman, Leonard	A63B 71/06	08.11.2018
(31) 201562131276 P	A63B 57/12	(22) 04.05.2018
(32) 11.03.2015	(11) EP3999196	(54) PROTECTIVE ARTICLES AND
(33) United States of America	(21) EP21739935.1	METHODS THEREOF
(51) A63B 22/02	(47) 30.08.2023	(73) KAPSUL TECH CORP.
A63B 22/00	(87) DE2021000099	(72) CORRIGAN, Charles Ryan
A63B 24/00	25.11.2021	(31) 201762543854 P

201762502254 P	(21) EP20705373.7	(54) CREATION OF WINNER
(32) 10.08.2017	(47) 30.08.2023	TOURNAMENTS WITH FANDOM
05.05.2017	(87) EP2020054670	INFLUENCE
(33) United States of America	12.11.2020	(73) Sony Interactive Entertainment LLC
United States of America	(22) 21.02.2020	(72) TROMBETTA, Steven
(51) A63D 15/08	(54) MULTIAXIS MANIPULATION CONTROL	THIELBAR, Christopher
(11) EP3795223	DEVICE	(31) 201815908707
(21) EP20196589.4	(73) 9 AXIS Kft.	(32) 28.02.2018
(47) 30.08.2023	(72) KOSNAS, Robin	(33) United States of America
(22) 17.09.2020	(31) 1900078 U	(51) A63F 13/86
(54) CUE WITH KINETIC ENERGY	19462002	A63F 13/5258
ABSORBING INSERT	(32) 03.05.2019	(11) EP3429714
(73) McDermott Cue Mfg., LLC	15.05.2019	(21) EP17719368.7
(72) LIEBL, Larry	(33) Hungary	(47) 30.08.2023
(31) 201916574717	European Patent Office (EPO)	(87) US2017023007
(32) 18.09.2019	(51) A63F 13/24	21.09.2017
(33) United States of America	A63F 13/21	(22) 17.03.2017
(51) A63F 7/00	A63F 13/213	(54) SPECTATOR VIEW TRACKING OF
A63F 7/02	A63F 13/214	VIRTUAL REALITY (VR) USER IN VR
A63F 7/28	G06F 3/0338	ENVIRONMENTS
A63F 7/38	(11) EP3741438	(73) Sony Interactive Entertainment Inc.
(11) EP3747515	(21) EP20186228.1	(72) MARKS, Richard
(21) EP20161809.7	(47) 30.08.2023	OSMAN, Steven
(47) 30.08.2023	(22) 11.07.2013	(31) 201715461442
(22) 09.03.2020	(54) OPERATING DEVICE	201662310612 P
(54) GAME DEVICE	(73) Sony Interactive Entertainment Inc.	(32) 16.03.2017
(73) Tomy Company, Ltd.	(72) IGARASHI, Takeshi	18.03.2016
(72) MIZUNUMA, Masanori	ENOMOTO, Kazuyoshi	(33) United States of America
(31) 2019107180	AOKI, Toshimasa	United States of America
(32) 07.06.2019	MORITA, Masaho	(51) A63G 1/00
(33) Japan	(31) 2013029458	A63G 7/00
(51) A63F 9/24	2012228481	A63G 1/24
A63F 5/00	(32) 18.02.2013	A63G 31/00
G07F 17/32	15.10.2012	(11) EP3946660
(11) EP3407992	(33) Japan	(21) EP20715628.2
(21) EP17744646.5	Japan	(47) 30.08.2023
(47) 30.08.2023	(51) A63F 13/327	(87) US2020021083
(87) SE2017050053	A63F 13/235	08.10.2020
03.08.2017	A63F 13/26	(22) 05.03.2020
(22) 19.01.2017	H04B 7/06	(54) LOADING TURNABLE SYSTEMS AND
(54) COMPACT MULTI-USER GAMING	(11) EP3436167	METHODS
SYSTEM	(21) EP16910755.4	(73) Universal City Studios LLC
(73) Tangiamo Touch Technology AB	(47) 30.08.2023	(72) TOWNS, JR., Robbie Lewis
(72) EITERJORD, Jimmy	(87) US2016044766	(31) 202016739895
NORDAHL, Mats	01.02.2018	201962826306 P
(31) 1630018	(22) 29.07.2016	(32) 10.01.2020
(32) 30.01.2016	(54) VIRTUAL REALITY DOCKING STATION	29.03.2019
(33) Sweden	(73) Hewlett-Packard Development Company,	(33) United States of America
(51) A63F 9/24	L.P.	United States of America
A63F 13/30	(72) CHEN, Chung-Chen	(51) A63G 7/00
(11) EP3429708	TSAI, Ming-Shien	(11) EP3860735
(21) EP17756983.7	HSIEH, David	(21) EP19783852.7
(47) 30.08.2023	HSIEH, YK	(47) 30.08.2023
(87) US2017017138	GERTEN, Leo Joseph	(87) US2019052702
31.08.2017	(51) A63F 13/86	09.04.2020
(22) 09.02.2017	A63F 13/30	(22) 24.09.2019
(54) GAME SELECTION AND INVITATION	A63F 13/335	(54) RIDE EVACUATION SYSTEMS AND
PROCESS	A63F 13/35	METHODS
(73) Sony Interactive Entertainment America	A63F 13/352	(73) Universal City Studios LLC
LLC	A63F 13/355	(72) MCCORMICK, Dennis
(72) PRAKASH, Ramana Bangalore	(11) EP3758819	(31) 201916533766
(31) 201615051561	(21) EP19760493.7	201862740216 P
(32) 23.02.2016	(47) 30.08.2023	(32) 06.08.2019
(33) United States of America	(87) US2019016698	02.10.2018
(51) A63F 13/24	06.09.2019	(33) United States of America
A63F 13/21	(22) 05.02.2019	United States of America
(11) EP3962614		(51) A63G 7/00
		A63G 31/00

A63G 31/10	B01D 63/08	(31) 201862719626 P
A63G 31/16	C02F 1/44	201862715213 P
A63J 1/02	(11) EP3801800	201862695387 P
(11) EP3938067	(21) EP18731772.2	(32) 18.08.2018
(21) EP20713805.8	(47) 30.08.2023	06.08.2018
(47) 30.08.2023	(87) EP2018065220	09.07.2018
(87) US2020020608	12.12.2019	(33) United States of America
17.09.2020	(22) 08.06.2018	United States of America
(22) 02.03.2020	(54) MULTISTAGE MEMBRANE	United States of America
(54) VERTICAL MOTION DRIVE SYSTEM	DISTILLATION APPARATUS	<hr/>
FOR A RIDE SYSTEM	(73) EvCon GmbH	(51) B01D 25/02
(73) Universal City Studios LLC	(72) WENZEL, Markus	B01L 3/00
(72) BRISTER, Michael Keith	HEINZL, Wolfgang	(11) EP3655128
TRESAUGUE, Michael Joseph	BORGSMANN, Norbert	(21) EP18779585.1
LEVY, Lisa Marie	<hr/>	(47) 30.08.2023
(31) 201916588607	(51) B01D 3/00	(87) EP2018075413
201962818457 P	(11) EP3983104	04.04.2019
(32) 30.09.2019	(21) EP20736704.6	(22) 20.09.2018
14.03.2019	(47) 30.08.2023	(54) FILTRATION DEVICE, METHOD
(33) United States of America	(87) EP2020069037	OF ASSEMBLING A MODULAR
United States of America	28.01.2021	FILTRATION DEVICE, AND METHOD
<hr/>	(22) 06.07.2020	OF CHARACTERIZING A FILTER
(51) A63H 1/02	(54) PROCESS FOR DISTILLING A CRUDE	MEDIA AND/OR MEDIUM TO BE
(11) EP3838359	COMPOSITION IN A RECTIFICATION	FILTERED
(21) EP19849320.7	PLANT INCLUDING AN INDIRECT	(73) Sartorius Stedim Biotech GmbH
(47) 30.08.2023	HEAT PUMP	(72) KOSIOL, Peter
(87) CN2019092932	(73) Sulzer Management AG	WARNKE, Magnus
20.02.2020	(72) NI, Lin Feng	HANSMANN, Björn
(22) 26.06.2019	ZUBER, Laurent	THOM, Volkmar
(54) SUCKER MODULE OF LAUNCHER,	(31) 19187599	(31) 102017009147
LAUNCHER AND TOY SUITE	(32) 22.07.2019	(32) 29.09.2017
(73) Guangzhou Alpha Culture	(33) European Patent Office (EPO)	(33) Germany
Communications Co., Ltd.	<hr/>	<hr/>
Alpha Group Co., Ltd.	(51) B01D 3/20	(51) B01D 29/00
(72) LIANG, Guochuang	(11) EP3856382	B01D 29/21
LI, Ming	(21) EP19745148.7	B01D 35/153
(31) 201810943114	(47) 30.08.2023	B01D 35/16
(32) 17.08.2018	(87) EP2019070438	(11) EP3700651
(33) China	02.04.2020	(21) EP18868618.2
<hr/>	(22) 30.07.2019	(47) 30.08.2023
(51) A63H 17/26	(54) A PERFORATED-TRAY COLUMN AND	(87) US2018056235
(11) EP3573881	A METHOD OF REVAMPING THE	25.04.2019
(21) EP18745186.9	SAME	(22) 17.10.2018
(47) 30.08.2023	(73) CASALE SA	(54) FILTRATION SYSTEM WITH DUAL LIP
(87) US2018015663	(72) PANZA, Sergio	SEAL
02.08.2018	(31) 18197581	(73) Cummins Filtration IP, Inc.
(22) 29.01.2018	(32) 28.09.2018	(72) ABDALLA, Wassem
(54) WHEEL WELL SYSTEM AND METHOD	(33) European Patent Office (EPO)	YESANE, Swati Sakharam
FOR MODEL VEHICLES	<hr/>	MALGORN, Gerard
(73) Traxxas LP	(51) B01D 21/26	GANGADHARE, Amol Sukhdev
(72) WOOD, Jonathan Scott	B04B 5/04	(31) 201741037236
(31) 201762451642 P	G01N 33/49	(32) 21.10.2017
(32) 27.01.2017	(11) EP3820589	(33) India
(33) United States of America	(21) EP19834761.9	<hr/>
<hr/>	(47) 30.08.2023	(51) B01D 35/30
(51) A63H 33/06	(87) US2019040945	C02F 1/28
A63H 17/00	16.01.2020	C02F 1/42
A63H 33/08	(22) 09.07.2019	C02F 1/44
A63H 23/00	(54) DEVICES AND METHODS FOR	C02F 1/00
A63H 3/16	PLASMA SEPARATION AND STORAGE	(11) EP3242734
(11) EP4005653	(73) Laboratory Corporation of America	(21) EP15700276.7
(21) EP20210556.5	Holdings	(47) 30.08.2023
(47) 30.08.2023	(72) SOMMER, Greg	(87) EP2015050155
(22) 30.11.2020	IACOVETTI, Gabriella	14.07.2016
(54) ASSEMBLY SYSTEM FOR TOYS	HONG, Kyungjin	(22) 07.01.2015
(73) Magic Box Int. Toys, S.L.U.	KENDALL, Eric	(54) LIQUID TREATMENT CARTRIDGE, SET
(72) BELLA MARTORELL, DAVID	EPPERSON, Jon	OF SUCH CARTRIDGES AND METHOD
<hr/>	FREDRIKSEN, Laura	OF MANUFACTURING IT
(51) B01D 1/26	HONG, Sean	(73) BRITA SE
B01D 3/06	RAHIMIYAN, Ali	(72) ZÖLLER, Jochen
B01D 5/00	SCHAFF, Ulrich	<hr/>
B01D 61/36		(51) B01D 45/08

F01D 25/32	(54) AIR FILTER CARTRIDGE	(11) EP3501622
F02C 7/052	(73) Donaldson Company, Inc.	(21) EP17400071.1
(11) EP3808430	(72) Manahan, Richrad Patrick	(47) 30.08.2023
(21) EP20199117.1	Brown, Scott	(22) 22.12.2017
(47) 30.08.2023	Johnston, Robert D.	(54) ABSORBER COLUMN AND METHOD
(22) 29.09.2020	Kalis, Matthew Alan	FOR PURIFYING RAW SYNTHESIS
(54) SELF REFRESHING PARTICLE	Adamek, Daniel E.	GAS
SEPARATOR	(31) 201562188861 P	(73) L'AIR LIQUIDE, SOCIÉTÉ ANONYME
(73) Honeywell International Inc.	201562127166 P	POUR L'ÉTUDE ET L'EXPLOITATION
(72) SHEORAN, Yogendra	(32) 06.07.2015	DES PROCÉDÉS GEORGES CLAUDE
KOLLATI, Vighneswara Rao	02.03.2015	(72) Jensen, Sandra
(31) 201916653682	(33) United States of America	Corbet, Sharon
(32) 15.10.2019	United States of America	Gubinski, Alfred
(33) United States of America		
(51) B01D 46/00	(51) B01D 46/10	(51) B01D 53/26
B01D 46/10	B01D 27/00	F24F 3/14
B01D 46/52	B01D 27/04	(11) EP3669128
(11) EP3892352	B01D 27/06	(21) EP18857866.0
(21) EP20168346.3	B01D 27/08	(47) 30.08.2023
(47) 30.08.2023	B01D 27/14	(87) US2018052341
(22) 07.04.2020	(11) EP3906108	28.03.2019
(54) FILTER WITH SEALING COMPOUND	(21) EP19906678.8	(22) 24.09.2018
AND FILTER ASSEMBLY WITH SUCH A	(47) 30.08.2023	(54) AIR-WATER EXTRACTION SYSTEM
FILTER	(87) US2019067497	(73) Skyre, Inc.
(73) Carl Freudenberg KG	09.07.2020	(72) MOLTER, Trent
(72) Schumacher, Sascha	(22) 19.12.2019	PRESTON, Joshua
Beisel, Marcel	(54) INTEGRATED MULTIFUNCTIONAL	(31) 201762561987 P
Papa, Sergio	ENDCAP SEAL MEMBER	(32) 22.09.2017
Menzio, Giacomo	(73) Cummins Filtration IP, Inc.	(33) United States of America
Sieh, Maik	(72) MALGORN, Gerard	
	ABDALLA, Wasseem	(51) B01D 53/26
(51) B01D 46/00	(31) 201862786602 P	H01G 9/26
B01D 46/24	(32) 31.12.2018	H01L 31/048
B01D 46/52	(33) United States of America	H10K 30/88
(11) EP3930872		H10K 39/10
(21) EP20709687.6	(51) B01D 46/24	(11) EP4062466
(47) 30.08.2023	(11) EP3821967	(21) EP20828990.0
(87) GB2020050488	(21) EP20194255.4	(47) 30.08.2023
03.09.2020	(47) 30.08.2023	(87) EP2020086634
(22) 28.02.2020	(22) 17.07.2008	05.08.2021
(54) FILTER CARTRIDGE AND CASING	(54) AIR CLEANER ARRANGEMENTS AND	(22) 17.12.2020
(73) PSI Global Ltd	CARTRIDGES	(54) DEHUMIDIFICATION OF A
(72) HUNTER, Daniel Stuart	(73) Donaldson Company, Inc.	PHOTOVOLTAIC MODULE BY
COCHRANE, Lloyd	(72) Dils, Julien	ELECTROLYSIS
HUNTER, Susanne Phyllis	Coulonvaux, Paul R.	(73) Siemens Energy Global GmbH & Co. KG
(31) 201902706	Mercckx, Roberto	(72) VON SICARD, Olivier
(32) 28.02.2019	Baseotto, Michel	SIMON, Elfriede
(33) United Kingdom	(31) 126222 P	POHLE, Roland
	96152107 P	FLEISCHER, Maximilian
(51) B01D 46/00	(32) 30.04.2008	(31) 20154798
B01D 46/42	20.07.2007	(32) 31.01.2020
B01D 46/52	(33) United States of America	(33) European Patent Office (EPO)
B01D 50/00	United States of America	
(11) EP3981492	(51) B01D 47/10	(51) B01D 53/48
(21) EP21189768.1	F01N 3/00	B01D 53/84
(47) 30.08.2023	(11) EP3171963	B01D 53/96
(22) 21.06.2017	(21) EP15752935.5	C12M 1/00
(54) AIR CLEANER ASSEMBLIES	(47) 30.08.2023	C12N 1/20
(73) Donaldson Company, Inc.	(87) EP2015066848	C01B 17/74
(72) Burton, David, J	28.01.2016	C12R 1/07
Rahn, Hubert Julius	(22) 23.07.2015	C12P 1/04
(31) 201662358932 P	(54) PROCESS AND PLANT FOR THE	(11) EP3673977
(32) 06.07.2016	MODIFICATION OF THE SURFACE	(21) EP19219418.1
(33) United States of America	CHARGE	(47) 30.08.2023
		(22) 23.12.2019
(51) B01D 46/00	(73) Vomm Impianti e Processi S.P.A.	(54) METHOD FOR REMOVAL OF
B01D 46/52	(72) CEREÀ, Giuseppina	HARMFUL SULPHUROUS
(11) EP3799944	(31) MI20141356	COMPOUNDS FROM GAS MIXTURES
(21) EP20203378.3	(32) 25.07.2014	(73) Koers, Bonno
(47) 30.08.2023	(33) Italy	(72) Koers, Bonno
(22) 02.03.2016	(51) B01D 53/14	(31) 2022310

(32) 24.12.2018	Muerner, Hansruedi	(31) 102015217837
(33) Netherlands	Messinger, Alain	(32) 17.09.2015
(51) B01D 53/62	(31) 8622018	(33) Germany
C07F 7/08	(32) 12.07.2018	(51) B01F 25/721
(11) EP3606643	(33) Switzerland	B04C 5/22
(21) EP17720625.7	(51) B01D 69/10	B04C 9/00
(47) 30.08.2023	A61M 1/16	B08B 9/00
(87) US2017026289	B01D 71/70	B08B 9/08
11.10.2018	B01D 63/06	D21B 1/02
(22) 06.04.2017	B01D 63/08	B27N 1/02
(54) ABSORBENT COMPOSITIONS	B01D 63/10	D21B 1/06
INCLUDING AMINO-SILOXANES	B01D 67/00	(11) EP4038233
(73) GE Oil & Gas, Inc.	(11) EP3268116	(21) EP20754172.3
(72) RAINKA, Matthew, Paul	(21) EP16710945.3	(47) 30.08.2023
PERRY, Robert, James	(47) 30.08.2023	(87) EP2020068602
(51) B01D 57/02	(87) EP2016055285	08.04.2021
G01N 27/447	22.09.2016	(22) 02.07.2020
(11) EP3113863	(22) 11.03.2016	(54) PLANT AND METHOD FOR APPLYING
(21) EP15751875.4	(54) MEMBRANE FOR AN OXYGENATOR	GLUE TO A FIBROUS MATERIAL
(47) 30.08.2023	FOR GAS EXCHANGE IN THE	(73) Andritz AG
(87) CA2015050139	BLOODSTREAM, OXYGENATOR	(72) SEIDL, Clemens
27.08.2015	HAVING SUCH A MEMBRANE, AND	(31) 508282019
(22) 24.02.2015	METHOD FOR PRODUCING SUCH A	(32) 30.09.2019
(54) ELECTROPHORESIS SYSTEM WITH	MEMBRANE	(33) Austria
MODULAR PEDESTALS	(73) Raumedic AG	(51) B01F 25/82
(73) Yourgene Health Canada Inc.	(72) STÖCKER, Martin	B01F 25/90
(72) SLOBODAN, Jared	(31) 102015204638	B01F 27/191
NESBITT, Matthew	(32) 13.03.2015	B01F 27/271
CHENG, Darren	(33) Germany	G01G 13/16
NOBLES, Andrew	(51) B01F 23/232	B01F 25/00
BAILLIE, Kevin	B01F 25/21	(11) EP3140625
(31) 201461944051 P	B01F 25/25	(21) EP15732966.5
(32) 24.02.2014	B01F 35/53	(47) 30.08.2023
(33) United States of America	B03D 1/24	(87) NL2015050325
(51) B01D 63/08	B03D 1/14	12.11.2015
B01D 29/085	(11) EP3829777	(22) 08.05.2015
C12M 3/00	(21) EP18928676.8	(54) MIXING DEVICE
B01D 29/05	(47) 30.08.2023	(73) Zuidema, Casper Johan
B01D 69/10	(87) FI2018050564	(72) ZUIDEMA, Hette
(11) EP3717107	06.02.2020	ZUIDEMA, Casper Johan
(21) EP18788751.8	(22) 01.08.2018	(31) 2012786
(47) 30.08.2023	(54) FLOTATION CELL	(32) 08.05.2014
(87) EP2018078182	(73) Metso Outotec Finland Oy	(33) Netherlands
31.05.2019	(72) BOURKE, Peter	(51) B01F 27/07
(22) 16.10.2018	RINNE, Antti	B01F 27/70
(54) FILTRATION DEVICE FOR VACUUM	TUOMINEN, Jere	C12M 1/06
MEMBRANE FILTRATION	PELTOLA, Aleks	B01F 27/072
(73) Sartorius Stedim Biotech GmbH	VAARNA, Valtteri	(11) EP3525923
(72) PFLANZ, Karl	SCHMIDT, Steve	(21) EP16782033.1
SCHUETZLER, Michael	(51) B01F 23/53	(47) 30.08.2023
GROSSMANN, Juliane	B01F 25/85	(87) EP2016074365
PRUEHL, Sebastian	B01F 27/117	19.04.2018
(31) 102017127970	B01F 27/60	(22) 11.10.2016
(32) 27.11.2017	B01F 33/452	(54) STIRRING DEVICE WITH IMPROVED
(33) Germany	B01F 33/453	STIRRING ELEMENT CONFIGURATION
(51) B01D 65/02	B01F 101/14	(73) Thöni Industriebetriebe GmbH
B01D 61/22	(11) EP3144057	(72) KÖLL, Thomas
C02F 1/68	(21) EP16188873.0	(51) B01J 2/12
(11) EP3593895	(47) 30.08.2023	(11) EP3405282
(21) EP19181618.0	(22) 15.09.2016	(21) EP17703787.6
(47) 30.08.2023	(54) MIXING DEVICE AND BEVERAGE	(47) 30.08.2023
(22) 21.06.2019	PREPARER WITH SUCH A MIXING	(87) FI2017050024
(54) METHOD FOR OPTIMISING	DEVICE	27.07.2017
PRODUCTION RELIABILITY FOR	(73) WMF GmbH	(22) 19.01.2017
MEMBRANE SYSTEMS	(72) Stäß, Rolf	(54) APPARATUS FOR GRANULATING
(73) Halag Chemie AG	Schirmacher, Philipp	MATERIAL COMPRISING ASH
(72) Schenk, Martin	Ostowski, Manfred	(73) Rakeistus Oy
Alho, Eric	Startz, Armin	(72) PELKONEN, Juha

LESKINEN, Teemu	(73) L'AIR LIQUIDE, SOCIÉTÉ ANONYME	(32) 27.03.2018
(31) 20165034	POUR L'ÉTUDE ET L'EXPLOITATION	(33) European Patent Office (EPO)
(32) 20.01.2016	DES PROCÉDÉS GEORGES CLAUDE	(51) B01J 19/16
(33) Finland	(72) AHLERS, Bernd	B65D 88/34
(51) B01J 4/00	JANKO, Lutz	B65D 88/44
B01J 8/02	HAAG, Stéphane	B01D 35/06
(11) EP3157661	GORNY, Martin	B01J 19/08
(21) EP15730468.4	(51) B01J 13/00	C02F 1/48
(47) 30.08.2023	(11) EP3840872	B65D 90/42
(87) EP2015063430	(21) EP19749380.2	B01J 20/28
30.12.2015	(47) 30.08.2023	(11) EP3363535
(22) 16.06.2015	(87) EP2019071450	(21) EP18156897.3
(54) DEVICE FOR DISPENSING DROPS	27.02.2020	(47) 30.08.2023
OF A MONOMER SOLUTION INTO A	(22) 09.08.2019	(22) 15.02.2018
REACTOR	(54) METHOD FOR THE PRODUCTION OF	(54) FLOAT AND EVAPORATION
(73) BASF SE	SUPERABSORBENTS	SUPPRESSING METHOD
(72) FREIBERG, Jürgen	(73) BASF SE	(73) FANUC CORPORATION
SCHLIWA, Rudolf	(72) WEISMANTEL, Matthias	(72) Ai, Minjie
BAYER, Robert	KRUEGER, Marco	(31) 2017026566
POSSEMIERS, Karl J.	SCHROEDER, Juergen	(32) 16.02.2017
KRÜGER, Marco	FUNK, Ruediger	(33) Japan
DAISS, Andreas	POSSEMIERS, Karl	(51) B01J 19/18
(31) 14173491	PFEIFFER, Thomas	B01J 19/12
(32) 23.06.2014	(31) 18189715	B01J 19/00
(33) European Patent Office (EPO)	(32) 20.08.2018	C08L 27/06
(51) B01J 8/06	(33) European Patent Office (EPO)	(11) EP3576869
B01J 19/30	(51) B01J 13/14	(21) EP18700328.0
C07D 307/60	A61L 27/12	(47) 30.08.2023
C07D 301/08	A61L 27/54	(87) EP2018050546
(11) EP3067113	A61K 8/24	09.08.2018
(21) EP14859584.6	A61K 8/72	(22) 10.01.2018
(47) 30.08.2023	C08J 3/24	(54) STIRRING DEVICE
(87) JP2014078971	(11) EP3995206	(73) EKATO Rühr- und Mischtechnik GmbH
14.05.2015	(21) EP19937266.5	(72) KÖNIG, Marco
(22) 30.10.2014	(47) 30.08.2023	BERNER, Christian
(54) PACKING ELEMENT FOR REACTION	(87) CN2019094868	MULTNER, Benjamin
TUBE	14.01.2021	(31) 102017102165
(73) Nippon Shokubai Co., Ltd.	(22) 05.07.2019	(32) 03.02.2017
(72) SHIMASAKI, Yuuji	(54) PREPARATION METHOD OF A DRUG-	(33) Germany
(31) 2013231370	CARRYING MICROSPHERE	(51) B01J 19/18
(32) 07.11.2013	(73) Guangzhou Zhongda Medical Instrument	B01J 19/24
(33) Japan	Co., Ltd.	C07C 29/141
(51) B01J 8/08	(72) WU, Jiexin	C07C 31/20
B01J 19/24	LIU, Jingling	B01J 8/22
B01J 19/26	ZHANG, Chao	B01J 8/20
C08G 65/26	YANG, Yuexiong	B01J 10/00
(11) EP3766570	HUANG, Dan	B01J 16/00
(21) EP19186525.2	YANG, Yang	C07C 29/132
(47) 30.08.2023	LI, Jing	C07C 29/60
(22) 16.07.2019	ZHANG, Yang	(11) EP3386630
(54) PROCESS FOR THE PRODUCTION OF	(51) B01J 19/00	(21) EP16806167.9
ALKOXYLATES	B01J 19/18	(47) 30.08.2023
(73) thyssenkrupp AG	C01G 53/00	(87) EP2016080116
thyssenkrupp Industrial Solutions AG	C01G 53/04	15.06.2017
(72) JENKINS, Christopher	C01G 53/06	(22) 07.12.2016
(51) B01J 12/00	(11) EP3774018	(54) PROCESS FOR THE PREPARATION
C10L 3/12	(21) EP19711911.8	OF GLYCOLS
C10G 3/00	(47) 30.08.2023	(73) Shell Internationale Research
C07C 1/20	(87) EP2019057026	Maatschappij B.V.
B01J 19/30	03.10.2019	(72) CHEWTER, Leslie, Andrew
B01J 8/04	(22) 21.03.2019	HUIZENGA, Pieter
(11) EP3705178	(54) PROCESS FOR PRECIPITATING A	MUTHUSAMY, Duraisamy
(21) EP19020106.1	CARBONATE OR (OXY)HYDROXIDE	NISBET, Timothy, Michael
(47) 30.08.2023	(73) BASF SE	LANGE, Jean Paul, Andre, Marie,
(22) 06.03.2019	(72) BEIERLING, Thorsten	Joseph, Ghislain
(54) METHOD AND SYSTEM FOR THE	RAULS, Matthias	VAN DER HEIDE, Evert
PRODUCTION OF OLEFINS FROM	RIEMANN, Christian	(31) 15198769
OXYGENATES	(31) 18164399	(32) 09.12.2015

(33) European Patent Office (EPO)	C07C 51/235	(47) 30.08.2023
(51) B01J 20/26	C07C 63/06	(87) US2013031640
B01J 20/24	C07D 219/06	07.11.2013
B01J 20/28	C07F 15/06	(22) 14.03.2013
G01N 1/34	C07B 61/00	(54) MODULES AND CALIBRATION
G01N 1/40	C07F 9/53	METHOD FOR A ROBOTIC
C07K 1/34	(11) EP3391965	POLYNUCLEOTIDE SAMPLE
B01D 15/08	(21) EP16875771.4	PREPARATION SYSTEM
B01D 15/34	(47) 30.08.2023	(73) Life Technologies Corporation
B01D 36/00	(87) JP2016087539	(72) JONES, Ryan
B01D 61/00	22.06.2017	MCCUSKER, Sean
(11) EP3885739	(22) 16.12.2016	HOSHIZAKI, Jon
(21) EP19889316.6	(54) USE OF A RADICAL GENERATING	BARBEE, Kristopher
(47) 30.08.2023	CATALYST AND METHOD FOR	LEAMON, John
(87) CN2019120118	PRODUCING OXIDATION REACTION	SCHULTZ, Jonathan
04.06.2020	PRODUCT	CARPINO, Maximilian
(22) 22.11.2019	(73) Acenet Inc.	(31) 201261700003 P
(54) METHOD TO MASS CONCENTRATE	(72) TAKAMORI Kiyoto	201261668938 P
A MACROMOLECULE WITH	SHIBATA Takekatsu	201261640243 P
DETERGENT-MIXED DRY HYDROGEL	(31) 2015248069	(32) 12.09.2012
PARTICLES	2015248068	06.07.2012
(73) Amount Biotechnology Inc.	2015248067	30.04.2012
(72) LV, Changqing	(32) 18.12.2015	(33) United States of America
HUANG, Eric Zhijian	18.12.2015	United States of America
LUO, Min	18.12.2015	United States of America
(31) 201811485330	(33) Japan	(51) B02C 13/14
(32) 29.11.2018	Japan	B02C 13/284
(33) China	Japan	B02C 18/08
(51) B01J 27/122	(51) B01L 3/00	B02C 18/22
B01J 27/125	B29C 65/48	B29B 17/04
B01J 27/138	B29C 65/54	(11) EP3766583
B01J 27/16	B29C 65/00	(21) EP20000247.5
B01J 31/02	B29L 31/00	(47) 30.08.2023
B01J 31/26	(11) EP2931429	(22) 08.07.2020
C07C 51/377	(21) EP13836251.2	(54) CRUSHING DEVICE
(11) EP3490705	(47) 30.08.2023	(73) HOSOKAWA ALPINE Aktiengesellschaft
(21) EP17754219.8	(87) DE2013100408	(72) Krause, Jörg
(47) 30.08.2023	19.06.2014	Michalek, Thomas
(87) US2017044075	(22) 05.12.2013	Zöttl, Josef
01.02.2018	(54) METHOD FOR CONNECTING	(31) 102019004847
(22) 27.07.2017	COMPONENTS OF A MICROFLUIDIC	(32) 12.07.2019
(54) CATALYSTS FOR MAKING ACRYLIC	FLOW CELL	(33) Germany
ACID FROM LACTIC ACID OR ITS	(73) thinXXS Microtechnology GmbH	(51) B03B 9/06
DERIVATIVES IN LIQUID PHASE	(72) WEBER, Lutz	(11) EP4051435
(73) The Procter & Gamble Company	(31) 102012112306	(21) EP20807471.6
(72) TACCARDI, Nicola	(32) 14.12.2012	(47) 30.08.2023
COLLIAS, Dimitris, Ioannis	(33) Germany	(87) FR2020051908
KEHRER, Matthias	(51) B01L 3/02	06.05.2021
KADAR, Julian	(11) EP3242750	(22) 22.10.2020
ALBERT, Jakob	(21) EP16711887.6	(54) TREATMENT PLANT WITH OPTIMISED
NAGENGAST, Jens	(47) 30.08.2023	DENSIMETRIC SORTING AND
WASSERSCHIED, Peter	(87) IB2016000108	RELATED TREATMENT PROCESS
(31) 201762522196 P	14.07.2016	(73) Avenir Innovation
201762490087 P	(22) 06.01.2016	(72) CHARREYRE, Fabien, Michel, Alain
201662427284 P	(54) MANUAL PIPETTE WITH SELECTABLE	(31) 1912159
201662384812 P	PLUNGER FORCE	(32) 29.10.2019
201662368216 P	(73) INTEGRA Biosciences AG	(33) France
(32) 20.06.2017	(72) LACROIX, Christopher	(51) B03C 1/00
26.04.2017	(31) 201562101038 P	B03C 1/30
29.11.2016	(32) 08.01.2015	(11) EP3784407
08.09.2016	(33) United States of America	(21) EP19717433.7
29.07.2016	(51) B01L 7/00	(47) 30.08.2023
(33) United States of America	C12Q 1/68	(87) EP2019000096
United States of America	G01N 35/10	31.10.2019
United States of America	G01N 35/00	(22) 26.03.2019
United States of America	B04B 5/04	(54) SEPARATING INSTALLATION AND
United States of America	(11) EP2844392	SEPARATING METHOD
(51) B01J 31/02	(21) EP13713643.8	(73) Karlsruher Institut Für Technologie (KIT)

- (72) TOBIE, Winfried
SCHILD, Dieter
PLASCHKE, Markus
KRAUß, Carla-Olivia
BECKER, Frank
HENEKA, Alexander
BRANDAUER, Martin
(31) 102018110204
(32) 27.04.2018
(33) Germany
-
- (51) B03C 5/00
B04B 5/10
B04B 1/08
(11) EP3700678
(21) EP18795413.6
(47) 30.08.2023
(87) EP2018078970
02.05.2019
(22) 23.10.2018
(54) METHOD FOR PROCESSING
A FLOWABLE PRODUCT AND
CENTRIFUGE
(73) GEA Mechanical Equipment GmbH
(72) KELLENS, Marc
ULLMANN, Detlef
MACKEL, Wilfried
SCHÖNEBERG, Knud
EICKHOFF, Klaus-Peter
(31) 102017125057
(32) 26.10.2017
(33) Germany
-
- (51) B03D 1/14
B03D 1/02
B03D 1/20
(11) EP3648892
(21) EP17916488.4
(47) 30.08.2023
(87) FI2017050505
10.01.2019
(22) 04.07.2017
(54) FROTH FLOTATION UNIT
(73) Metso Outotec Finland Oy
(72) GRAU, Rodrigo
MIETTINEN, Tatu
MÖNKÄRE, Zakaria
TUOMINEN, Jere
-
- (51) B04B 15/12
B04B 3/02
B04B 3/00
B04B 7/12
F26B 5/08
F26B 3/06
(11) EP3848126
(21) EP20848781.9
(47) 30.08.2023
(87) KR2020009206
27.05.2021
(22) 13.07.2020
(54) PRESSURIZING CENTRIFUGAL
DEHYDRATOR
(73) LG CHEM, LTD.
(72) JOO, Eun Jung
SHIN, Dae Young
LEE, Sang Ho
JEONG, Sung Woo
(31) 20190147408
(32) 18.11.2019
(33) Korea (Republic)
-
- (51) B04B 15/12
B04B 3/02
B04B 3/00
F26B 5/08
B01D 33/11
(11) EP3851197
(21) EP20848780.1
(47) 30.08.2023
(87) KR2020009203
27.05.2021
(22) 13.07.2020
(54) PRESSURIZING CENTRIFUGAL
DEHYDRATOR
(73) LG CHEM, LTD.
(72) JOO, Eun Jung
SHIN, Dae Young
LEE, Sang Ho
JEONG, Sung Woo
(31) 20190147409
(32) 18.11.2019
(33) Korea (Republic)
-
- (51) B05B 3/04
(11) EP3888796
(21) EP21175971.7
(47) 30.08.2023
(22) 05.11.2018
(54) ROTARY JET NOZZLE ASSEMBLY FOR
PRESSURE CLEANING DEVICES
(73) P.A. S.p.A.
(72) BENETTI, Arnaldo
-
- (51) B05B 3/04
(11) EP3970860
(21) EP21202947.4
(47) 30.08.2023
(22) 06.02.2020
(54) ROTOR NOZZLE STRUCTURE AND
WATERING DEVICE
(73) Yuan Mei Corp.
(72) LO, Shun Nan
-
- (51) B05B 3/04
B05B 3/16
(11) EP3965943
(21) EP20731203.4
(47) 30.08.2023
(87) IB2020054283
12.11.2020
(22) 06.05.2020
(54) SPRINKLER DEVICE FOR DELIVERY
OF AN IRRIGATION LIQUID AND
METHOD OF DELIVERY USING SUCH
DEVICE
(73) Komet Austria GmbH
(72) DRECHSEL, Arno
(31) 201900006564
(32) 06.05.2019
(33) Italy
-
- (51) B05B 7/04
B05B 13/06
B05B 7/06
F16L 58/10
F16L 9/18
(11) EP4100171
(21) EP22701182.2
(47) 30.08.2023
(87) EP2022050569
21.07.2022
(22) 12.01.2022
-
- (54) SYSTEM FOR SPRAYING A COATING
AGENT ONTO PIPE INNER WALLS,
AND SPRAYING APPARATUS FOR
THIS SYSTEM
(73) Säkaphen GmbH
Donelli Alexo S.r.l.
(72) DONELLI, Martino
FISCHER-ZERNIN, Christoph
(31) 102021000092
(32) 12.01.2021
(33) Germany
-
- (51) B05B 7/24
A01N 25/00
A01N 43/40
B05B 15/62
(11) EP3866987
(21) EP19786435.8
(47) 30.08.2023
(87) EP2019078282
23.04.2020
(22) 17.10.2019
(54) MANIFOLD ASSEMBLY OF A
SPRAYING APPARATUS
(73) Syngenta Crop Protection AG
(72) BECKETT, Trevor
WILLIAMS, Erik
JOHNSTONE, Sam
KILBY, Charles
(31) 201817069
201817066
201817080
(32) 19.10.2018
19.10.2018
19.10.2018
(33) United Kingdom
United Kingdom
United Kingdom
-
- (51) B05B 17/00
B05B 17/06
(11) EP3769854
(21) EP20185682.0
(47) 30.08.2023
(22) 19.07.2017
(54) AEROSOL GENERATING APPARATUS
(73) Microbase Technology Corp.
(72) Kao, Laurence
Tsai, Ting-Kai
Hsieh, Shu-Pin
Chen, Po-Chuan
Chen, Yi-Tong
Lu, Chih-Wei
(31) 201662364309 P
(32) 19.07.2016
(33) United States of America
-
- (51) B05D 1/28
B32B 37/12
(11) EP3943199
(21) EP21191142.5
(47) 30.08.2023
(22) 10.03.2016
(54) MATERIAL DELIVERY PROCESS FOR
LAMINATOR
(73) DOW GLOBAL TECHNOLOGIES LLC
(72) SEHANOBISH, Kalyan
XIE, Rui
GUO, Yinzhang
(31) 201562162113 P
(32) 15.05.2015

(33) United States of America	PILLAI, Krishnan S.	C10B 43/02
(51) B05D 5/00	(31) 201562264978 P	B08B 9/055
B82Y 30/00	(32) 09.12.2015	C10G 75/00
C22C 47/12	(33) United States of America	C10B 43/06
B29C 70/08	(51) B06B 1/06	C10G 9/16
B29C 70/24	(11) EP3463691	B08B 7/00
C22C 47/06	(21) EP17726641.8	C10B 33/00
C22C 49/06	(47) 30.08.2023	G05D 16/16
C22C 49/14	(87) EP2017063156	C10B 55/00
B29K 105/12	07.12.2017	G05D 7/06
B29K 105/14	(22) 31.05.2017	(11) EP3320990
(11) EP3148711	(54) ARRAY OF ULTRASONIC	(21) EP17210413.5
(21) EP15798682.9	TRANSDUCER ELEMENTS	(47) 30.08.2023
(47) 30.08.2023	(73) Imasonic	(22) 22.10.2014
(87) US2015033000	(72) GUEY, Jean-Luc	(54) SYSTEM FOR ON-LINE PIGGING AND
03.12.2015	FLEURY, Gérard	SPALLING OF COKER FURNACE
(22) 28.05.2015	(31) 1654886	OUTLETS
(54) APPARATUS AND METHOD FOR	(32) 31.05.2016	(73) Bechtel Energy Technologies &
DIRECTIONAL ALIGNMENT OF	(33) France	Solutions, Inc.
NANOFIBERS IN A POROUS MEDIUM	(51) B06B 1/06	(72) VON BRECHT, Richard
(73) University of South Alabama	(11) EP3708263	WARD, John
(72) HSIAO, Kuang-ting	(21) EP19162702.5	GONZALEZ, Jorge
(31) 201462003982 P	(47) 30.08.2023	HENIFORD, Rick
(32) 28.05.2014	(22) 14.03.2019	DOERKSEN, Brian
(33) United States of America	(54) FLEXIBLE ULTRASOUND ARRAY	ALEXANDER, Scott
(51) B05D 5/06	(73) IMEC vzw	(31) 201361894087 P
B05D 7/24	Katholieke Universiteit Leuven KU	(32) 22.10.2013
C09K 11/00	Leuven Research & Development	(33) United States of America
C09D 5/22	(72) CHEYNS, David	(51) B08B 9/20
H01L 33/04	ROTTENBERG, Xavier	B08B 9/44
H01L 33/44	JEONG, Yongbin	B07C 5/34
G02F 1/017	(51) B07B 1/54	B65G 43/08
G02F 1/1335	B08B 7/02	(11) EP3501676
(11) EP3297770	(11) EP3317029	(21) EP18176907.6
(21) EP16797424.5	(21) EP16734305.2	(47) 30.08.2023
(47) 30.08.2023	(47) 30.08.2023	(22) 11.06.2018
(87) US2016033656	(87) EP2016065176	(54) BOTTLE CLEANING DEVICE
24.11.2016	05.01.2017	(73) Kronos AG
(22) 20.05.2016	(22) 29.06.2016	(72) Grzeskowiak, Maximilian
(54) INSULATOR-COATED QUANTUM	(54) METHOD AND DEVICE FOR	(31) 202017107882 U
DOTS FOR USE IN LED LIGHTING AND	CLASSIFYING SUPERABSORBENT	(32) 22.12.2017
DISPLAY DEVICES	PARTICLES	(33) Germany
(73) OSRAM Opto Semiconductors GmbH	(73) BASF SE	(51) B09C 1/08
(72) ZHAO, Weiwen	(72) FUNK, Ruediger	(11) EP3169459
JANSEN, Michael	STEPHAN, Oskar	(21) EP15822878.3
KURTIN, Juanita	VOLL, Norbert Eugen	(47) 30.08.2023
MCLAUGHLIN, Nathan	(31) 15174750	(87) US2015037389
(31) 201562164430 P	(32) 01.07.2015	21.01.2016
(32) 20.05.2015	(33) European Patent Office (EPO)	(22) 24.06.2015
(33) United States of America	(51) B08B 1/00	(54) METHOD AND COMPOSITION FOR
(51) B05D 7/22	B60S 1/56	INHIBITING METHANOGENESIS
B05C 3/109	G01S 7/00	DURING IN-SITU SEDIMENT
B05C 7/04	(11) EP3815978	TREATMENT
B01J 35/04	(21) EP19826763.5	(73) Aquablok, Ltd.
B05C 11/10	(47) 30.08.2023	(72) MUELLER, James, G.
F01N 3/28	(87) CN2019093590	HULL, John, H.
B01J 37/02	02.01.2020	(31) 201462024649 P
B05D 3/04	(22) 28.06.2019	(32) 15.07.2014
(11) EP3386642	(54) SENSOR MOUNTING APPARATUS	(33) United States of America
(21) EP16872498.7	(73) Beijing Tusen Zhitu Technology Co., Ltd.	(51) B21C 37/04
(47) 30.08.2023	(72) SUN, Jie	B21D 5/08
(87) IB2016056848	GU, Xiaoping	B23K 35/40
15.06.2017	(31) 201810692082	B23K 35/02
(22) 14.11.2016	(32) 28.06.2018	(11) EP3880380
(54) SYSTEMS AND METHODS FOR	(33) China	(21) EP18825561.6
SOLUTION COATING A SUBSTRATE	(51) B08B 9/032	(47) 30.08.2023
(73) BASF Corporation	C10G 9/12	(87) EP2018000513
(72) GRAMICCIONI, Gary A.		28.03.2019

(22) 15.11.2018	B21D 5/00	LORENZ, Maximilian
(54) METHOD FOR PRODUCING A RAW WIRE FROM A FIRST METAL STRIP AND AT LEAST ONE FURTHER METAL STRIP BY ROLL PROFILING	(11) EP3747565 (21) EP18903060.4 (47) 30.08.2023 (87) JP2018048007	LAYH, Michael (31) 102017212253 (32) 18.07.2017 (33) Germany
(73) Mols, Andreas Stuth, Theodor	08.08.2019	(51) B21D 39/03
(72) Mols, Andreas Stuth, Theodor	(22) 27.12.2018 (54) PRESS BRAKE CONTROL DEVICE, PRESS BRAKE CONTROL METHOD, TOOL MANAGEMENT METHOD, AND DATA STRUCTURE FOR DIE MANAGEMENT DATA	B21D 26/14 B21D 53/10 F16C 33/12 F16C 33/14
(51) B21D 5/00 B21D 5/02 B21D 5/04 G05B 19/409	(73) AMADA CO., LTD. (72) KENMOTSU, Hideki (31) 2018015183 (32) 31.01.2018 (33) Japan	(11) EP3976286 (21) EP20739237.4 (47) 30.08.2023 (87) AT2020060217 03.12.2020 (22) 28.05.2020
(11) EP3996855 (21) EP20757514.3 (47) 30.08.2023 (87) AT2020060267 14.01.2021	(51) B21D 22/22 B21D 24/14 B21D 22/28	(54) MULTILAYER SLIDE BEARING AND METHOD FOR PRODUCING A MULTILAYER SLIDE BEARING
(22) 09.07.2020	(11) EP3668663 (21) EP18746678.4 (47) 30.08.2023 (87) EP2018070284 21.02.2019	(73) Miba Gleitlager Austria GmbH (72) REISENBERGER, Johannes HÖLZL, Johannes Sebastian (31) 504952019 (32) 29.05.2019 (33) Austria
(54) METHOD FOR POSITIONING AN OPERATING APPARATUS IN RESPECT OF A BENDING MACHINE	(22) 26.07.2018 (54) DEEP DRAWING TOOL FOR DEEP DRAWING BLANKS	(51) B21F 27/12 B23K 37/02
(73) TRUMPF Maschinen Austria GmbH & Co. KG.	(73) NeoForm Flensburg GmbH & Co. KG (72) NAROSKA, Marcus (31) 102017118559 (32) 15.08.2017 (33) Germany	(11) EP4032634 (21) EP22151957.2 (47) 30.08.2023 (22) 18.01.2022 (54) PILE CAGE MACHINE PROVIDED WITH WELDING UNIT
(72) ECKL, Dominik (31) 506312019 (32) 10.07.2019 (33) Austria	(51) B21D 22/28 B21D 51/26	(73) EMG Societa' A Responsabilita' Limitata (72) DI CARLO, Sergio (31) 202100001202 (32) 22.01.2021 (33) Italy
(51) B21D 5/01 (11) EP3225321 (21) EP15863977.3 (47) 30.08.2023 (87) JP2015081818 02.06.2016	(11) EP3490739 (21) EP17737030.1 (47) 30.08.2023 (87) GB2017051952 01.02.2018	(51) B21J 15/22 B21J 15/28
(22) 12.11.2015	(22) 03.07.2017 (54) MODULAR CAN BODYMAKER	(11) EP3670022 (21) EP19210991.6 (47) 30.08.2023 (22) 22.11.2019
(54) A METHOD OF PRODUCING A STEEL PIPE	(73) Crown Packaging Technology, Inc. (72) RUKAT, Bronislaw (31) 201613053 (32) 28.07.2016 (33) United Kingdom	(54) HYDRAULIC RIVETING TOOL AND METHOD FOR AUTOMATICALLY CONTROLLING PNEUMATICALLY DRIVEN HYDRAULIC RIVETING TOOLS
(73) JFE Steel Corporation (72) TAMURA, Yukuya MIWA, Toshihiro TATENNO, Junichi HORIE, Masayuki (31) 2014237608 (32) 25.11.2014 (33) Japan	(31) 201613053 (32) 28.07.2016 (33) United Kingdom	(73) TKR Spezialwerkzeuge GmbH (72) Enriquez, Heinz Zurmühlen, Martin (31) 102018132914 (32) 19.12.2018 (33) Germany
(51) B21D 5/02 B21D 37/04 B21D 37/14	(51) B21D 28/34 B21D 28/16 B21D 28/26 B21D 55/00 B26D 5/00 G01B 11/24 G01B 11/28 G01N 21/956	(51) B21K 1/22 B23P 15/00 F01L 3/14 B21J 5/12
(11) EP3645186 (21) EP18752307.1 (47) 30.08.2023 (87) US2018039931 03.01.2019	(11) EP3655175 (21) EP18732709.3 (47) 30.08.2023 (87) EP2018065683 24.01.2019	(11) EP4007666 (21) EP20747354.7 (47) 30.08.2023 (87) EP2020070669 03.06.2021
(22) 28.06.2018	(22) 13.06.2018 (54) METHOD FOR OPERATING A PROCESSING INSTALLATION WITH A MOVABLE PUNCH	(22) 22.07.2020
(54) MAGNETIC PRESS BRAKE AND MACHINE TOOLING ENGAGEMENT SYSTEMS	(73) Donhauser, Christian (72) DONHAUSER, Christian MENZL, Matthias PINZER, Bernd	(54) METHOD AND DEVICE FOR MANUFACTURING HOLLOW, INTERNALLY COOLED VALVES
(73) Mate Precision Technologies Inc. (72) MORGAN, Christopher SUNDQUIST, Dean (31) 201715637893 (32) 29.06.2017 (33) United States of America	(11) EP3655175 (21) EP18732709.3 (47) 30.08.2023 (87) EP2018065683 24.01.2019	
(51) B21D 5/02 B21D 37/14 G05B 19/409 G05B 19/4093 B21D 5/04		

(73) Federal-Mogul Valvetrain GmbH	(73) CITIC Dicastal Co., Ltd	B33Y 30/00
(72) SCHOBER, Dirk	(72) HUANG, Xiaobing	B29C 64/165
MATTHIAS, Thorsten	ZHU, Zhihua	B29C 64/314
(31) 102019132085	LI, Zhiguang	B33Y 70/00
(32) 27.11.2019	WU, Yaqi	C08K 3/34
(33) Germany	WANG, Hui	C08G 18/79
(51) B22C 9/12	XU, Zuo	B29C 64/30
(11) EP4058222	XIONG, Guoyuan	B33Y 40/20
(21) EP20808070.5	WU, Hanqi	C04B 35/111
(47) 30.08.2023	(31) 202011227589	C04B 35/14
(87) EP2020082209	(32) 06.11.2020	C04B 35/46
20.05.2021	(33) China	C04B 35/486
(22) 16.11.2020	(51) B22D 18/06	C04B 35/622
(54) MICROWAVE SAND MOULDING BOX	B22D 27/04	C04B 35/628
(73) Fricke und Mallah Microwave Technology GmbH	B22D 18/04	C04B 35/634
(72) MALLAH, Marcel	(11) EP3570994	B22F 1/102
(31) 102020102784	(21) EP18813729.3	C08G 18/48
102019131004	(47) 30.08.2023	(11) EP3995229
(32) 04.02.2020	(87) US2018036402	(21) EP20834403.6
17.11.2019	13.12.2018	(47) 30.08.2023
(33) Germany	(22) 07.06.2018	(87) JP2020026493
Germany	(54) METHOD AND APPARATUS FOR	07.01.2021
(51) B22D 11/124	COUNTER-GRAVITY MOLD FILLING	(22) 06.07.2020
B22D 11/22	(73) Metal Casting Technology, Incorporated	(54) METHOD AND APPARATUS
(11) EP4052815	(72) MICHALIK, JR., Joseph C.	FOR PRODUCING ADDITIVELY
(21) EP20882570.3	SHENDYE, Sanjay	MANUFACTURED ARTICLE,
(47) 30.08.2023	(31) 201715618852	CURING SOLUTION FOR ADDITIVE
(87) JP2020040435	(32) 09.06.2017	MANUFACTURING, AND KIT FOR
06.05.2021	(33) United States of America	ADDITIVE MANUFACTURING
(22) 28.10.2020	(51) B22D 41/24	(73) Ricoh Company, Ltd.
(54) SECONDARY COOLING METHOD FOR	B22D 41/34	(72) MIYAZAKI, Kohsuke
CONTINUOUS CAST STRAND	B22D 41/38	SATOH, Shinichiroh
(73) JFE Steel Corporation	(11) EP3930941	OYA, Naoki
(72) UEOKA, Satoshi	(21) EP20706745.5	SOGAME, Junjiroh
OSUKA, Kenichi	(47) 30.08.2023	YOKOYAMA, Takumi
(31) 2019195833	(87) EP2020055211	(31) 2019179716
(32) 29.10.2019	03.09.2020	2019125603
(33) Japan	(22) 27.02.2020	(32) 30.09.2019
(51) B22D 11/128	(54) SLIDING GATE VALVE COMPRISING A	04.07.2019
F16C 13/00	CARRIAGE	(33) Japan
(11) EP3405302	(73) Vesuvius Group (SA)	Japan
(21) EP17700969.3	(72) BUTTS, Jeffrey	(51) B23B 7/06
(47) 30.08.2023	QUINN, Jason	B23B 13/12
(87) EP2017051146	(31) 19160063	B23Q 1/76
27.07.2017	(32) 28.02.2019	(11) EP2832476
(22) 20.01.2017	(33) European Patent Office (EPO)	(21) EP13769571.4
(54) STRAND GUIDING ROLLER FOR	(51) B22F 1/00	(47) 30.08.2023
GUIDING A METAL STRAND IN A	B22F 9/24	(87) JP2013059033
CONTINUOUS CASTING FACILITY	C22C 32/00	03.10.2013
(73) Primetals Technologies Austria GmbH	B22F 1/054	(22) 27.03.2013
(72) STARRERMAIR, Michael	A44C 27/00	(54) PROCESSING EQUIPMENT
GUTTENBRUNNER, Josef	(11) EP3482851	(73) CITIZEN WATCH CO., LTD.
DEIBL, Günther	(21) EP18203166.6	Citizen Machinery Co., Ltd.
(31) 500272016	(47) 30.08.2023	(72) ASAHARA, Noriyuki
(32) 21.01.2016	(22) 29.10.2018	KOTAKE, Kyota
(33) Austria	(54) METHOD OF MANUFACTURING A	KASUYA, Hiroshi
(51) B22D 17/32	BLACK OR ANTHRACITE COLOUR	(31) 2012079332
G01N 23/04	MATERIAL COMPRISING AT LEAST 18	(32) 30.03.2012
B22D 15/00	GOLD CARATS	(33) Japan
B22D 17/00	(73) Cartier International AG	(51) B23B 27/14
(11) EP3995226	(72) GERMAIN, Vincent	B22F 3/24
(21) EP21187574.5	(31) 13742017	C22C 29/16
(47) 30.08.2023	(32) 14.11.2017	C04B 41/87
(22) 25.07.2021	(33) Switzerland	C04B 41/89
(54) METHOD AND SYSTEM FOR	(51) B22F 1/16	(11) EP3437770
ADJUSTING PROCESS PARAMETERS	B22F 3/02	(21) EP16897057.2
OF DIE-CASTING MACHINE	B22F 3/16	(47) 30.08.2023
	B33Y 10/00	(87) JP2016085887

05.10.2017	(11) EP2794157	(54) DEFLECTION ROLLER, DEFLECTION ROLLER PACKAGE AND CABLE SAW
(22) 02.12.2016	(21) EP12812268.6	(73) Hilti Aktiengesellschaft
(54) SURFACE-COATED CUBIC BORON NITRIDE SINTERED MATERIAL, AND CUTTING TOOL INCLUDING THE SAME	(47) 30.08.2023	(72) PLATTNER, David
(73) Sumitomo Electric Hardmetal Corp.	(87) EP2012076731	RIEGER, Hans-Joerg
(72) TAKAHAMA, Kazushi	27.06.2013	(31) 19203462
SETOYAMA, Makoto	(22) 21.12.2012	(32) 16.10.2019
OKAMURA, Katsumi	(54) DRILL BIT WITH AN EXCHANGEABLE CUTTING PORTION	(33) European Patent Office (EPO)
(31) 2016068327	(73) HILTI Aktiengesellschaft	(51) B23D 61/18
(32) 30.03.2016	(72) EBERT, Joerg	F16D 11/02
(33) Japan	HOOP, Matthaeus	(11) EP3338932
(51) B23B 27/14	WEBER, Christoph	(21) EP17204854.8
B23B 51/00	(31) 102011089546	(47) 30.08.2023
B23C 5/16	(32) 22.12.2011	(22) 01.12.2017
C23C 14/06	(33) Germany	(54) SYTEM FOR JOINING TWO ENDS OF A METAL CUTTING LINE FOR CUTTING MACHINES FOR STONE, WOOD, AND METAL PRODUCTS AND THE LIKE
C23C 28/02	(51) B23C 9/00	(73) Dazzini S.R.L.
C23C 28/00	(11) EP3693129	(72) PUCCI, Vittorio
C23C 14/02	(21) EP19185369.6	(31) 201600122276
C23C 14/32	(47) 30.08.2023	(32) 01.12.2016
C23C 28/04	(22) 10.07.2019	(33) Italy
(11) EP3363568	(54) TOOL HEAD UNIT FOR MACHINING WORKPIECES WITH THREE ROTARY AXES CAPABLE OF SIMULTANEOUS ACTION AND MACHINE TOOL COMPRISING SAME	(51) B23D 79/02
(21) EP18166619.9	(73) F. Zimmermann GmbH	B23D 79/04
(47) 30.08.2023	(72) Bouraoui, Mohamed Wassim	B23Q 5/20
(22) 19.05.2015	(31) 102019103009	B23Q 15/22
(54) SURFACE-COATED TOOL AND METHOD OF MANUFACTURING SAME	(32) 07.02.2019	B23Q 17/22
(73) Sumitomo Electric Hardmetal Corp.	(33) Germany	B23P 17/02
(72) HIROSE, Kazuhiro	(51) B23D 51/16	B23P 13/02
TANAKA, Keizo	B23D 51/10	B23B 41/12
FUKUI, Haruyo	B25F 5/00	B23B 29/034
TAKESHITA, Hiroki	B27B 3/12	(11) EP3321021
(31) 2014117679	B27B 3/26	(21) EP16844747.2
2014117680	B27B 19/09	(47) 30.08.2023
(32) 06.06.2014	B23D 51/20	(87) KR2016010199
06.06.2014	B23D 49/16	16.03.2017
(33) Japan	(11) EP3632603	(22) 09.09.2016
Japan	(21) EP18810323.8	(54) HYBRID CUTTING APPARATUS AND GROOVING METHOD USING SAME
(51) B23B 29/034	(47) 30.08.2023	(73) Korea Institute of Machinery & Materials
(11) EP3725440	(87) JP2018017227	Gottfried Wilhelm Leibniz Universität Hannover
(21) EP20169581.4	06.12.2018	(72) BERTRAM, Oliver
(47) 30.08.2023	(22) 27.04.2018	PARK, Jong-Kweon
(22) 15.04.2020	(54) RECIPROCATING TOOL	DENKENA, Berend
(54) LOCKOUT FOR DEEP REACH MACHINING TOOL	(73) Koki Holdings Co., Ltd.	DAHLMANN, Dominik
(73) Raytheon Technologies Corporation	(72) MONZEN Tetsuya	(31) 20160045508
(72) ADEBOWALE, Sandra	NAKANO Ryosuke	20150128161
CLEMO, Grant	(31) 2018069786	(32) 14.04.2016
CZYWCZYNSKI, Michael A	2017254184	10.09.2015
(31) 201916385119	2017108373	(33) Korea (Republic)
(32) 16.04.2019	(32) 30.03.2018	Korea (Republic)
(33) United States of America	28.12.2017	(51) B23F 1/02
(51) B23B 31/00	31.05.2017	B24B 53/075
(11) EP3766616	(33) Japan	(11) EP3281733
(21) EP20020318.0	Japan	(21) EP17166819.7
(47) 30.08.2023	Japan	(47) 30.08.2023
(22) 09.07.2020	(51) B23D 57/00	(22) 18.04.2017
(54) A DEVICE FOR THE CONTROLLED STABILIZATION OF TOOL HOLDER SHANKS	B65H 57/14	(54) METHOD OF ALIGNING A GRINDING WORM
(73) Algra S.P.A.	B65H 57/16	(73) Liebherr-Verzahntechnik GmbH
(72) VEZZOLI, Giovanni	B66D 3/06	(72) Würfel, Robert
(31) 201900011766	(11) EP4045216	(31) 102016005258
(32) 15.07.2019	(21) EP20786536.1	(32) 28.04.2016
(33) Italy	(47) 30.08.2023	(33) Germany
(51) B23B 51/04	(87) EP2020077953	(51) B23F 21/22
B28D 1/04	22.04.2021	(11) EP2988899
	(22) 06.10.2020	

<p>(21) EP14727132.4 (47) 30.08.2023 (87) US2014035246 30.10.2014 (22) 24.04.2014 (54) CUTTER WITH POSITIVE SEATED STICK BLADES FOR BEVEL GEAR CUTTING (73) The Gleason Works (72) STADTFELD, Hermann, J. (31) 201361815852 P (32) 25.04.2013 (33) United States of America</p> <hr/> <p>(51) B23H 7/04 B23H 7/26 G05B 19/416 (11) EP3290140 (21) EP17001402.1 (47) 30.08.2023 (22) 17.08.2017 (54) WIRE ELECTRICAL DISCHARGE MACHINE AND MEASURING METHOD (73) FANUC CORPORATION (72) Hiroyuki, Abe (31) 2016163387 (32) 24.08.2016 (33) Japan</p> <hr/> <p>(51) B23K 1/005 B23K 26/06 B23K 26/073 (11) EP3626378 (21) EP19197845.1 (47) 30.08.2023 (22) 17.09.2019 (54) LASER REFLOW SOLDERING APPARATUS AND METHOD FOR REFLOW SOLDERING ELECTRONIC COMPONENTS (73) Laserssel Co., Ltd (72) KIM, Nam-Seong CHOI, Jae-Joon (31) 20180111572 (32) 18.09.2018 (33) Korea (Republic)</p> <hr/> <p>(51) B23K 1/08 (11) EP3648920 (21) EP18735573.0 (47) 30.08.2023 (87) EP2018067748 10.01.2019 (22) 02.07.2018 (54) METHOD FOR OPERATING A SOLDERING DEVICE, SOLDERING DEVICE (73) Ersä GmbH (72) SCHAEFER, Michael (31) 102017114954 (32) 05.07.2017 (33) Germany</p> <hr/> <p>(51) B23K 9/00 B23K 9/02 B23K 33/00 (11) EP3650154 (21) EP18842018.6 (47) 30.08.2023 (87) JP2018026065 07.02.2019 (22) 10.07.2018</p>	<p>(54) TANK MANUFACTURING METHOD, MIRROR PLATE OF TANK, AND TANK (73) Daikin Industries, Ltd. (72) SUSA, Toshihiro HARA, Hideki TAKASE, Tatsumi (31) 2017147763 (32) 31.07.2017 (33) Japan</p> <hr/> <p>(51) B23K 9/02 B23K 9/095 B23K 9/235 B23K 9/32 B23K 31/02 B23K 37/00 (11) EP4126434 (21) EP22701381.0 (47) 30.08.2023 (87) EP2022051480 28.07.2022 (22) 24.01.2022 (54) METHOD OF DETERMINING WELDING PARAMETERS FOR A WELDING PROCESS ON A WORKPIECE AND WELDING DEVICE FOR CARRYING OUT A WELDING PROCESS ON A WORKPIECE WITH FIXED WELDING PARAMETERS (73) FRONIUS INTERNATIONAL GmbH (72) ENNSBRUNNER, Helmut (31) 21153236 (32) 25.01.2021 (33) European Patent Office (EPO)</p> <hr/> <p>(51) B23K 9/095 B23K 9/10 B23K 9/32 (11) EP3941674 (21) EP20717552.2 (47) 30.08.2023 (87) EP2020000071 24.09.2020 (22) 18.03.2020 (54) CONTROL PANEL FOR A WELDER ; WELDER WITH SUCH PANEL ; METHOF OF CONFIGURATING OF WELDING PARAMETERS OF SUCH A WELDER (73) FRONIUS INTERNATIONAL GmbH (72) NEUBACHER, Günther HÖRZING, Axel LATTNER, Peter STRASSER, Manuel ECKL, Bernhard (31) 19163549 (32) 18.03.2019 (33) European Patent Office (EPO)</p> <hr/> <p>(51) B23K 9/167 B23K 9/28 B23K 37/02 (11) EP3840905 (21) EP18759293.6 (47) 30.08.2023 (87) EP2018072691 27.02.2020 (22) 22.08.2018 (54) WELDING TORCH, WELDING SYSTEM, METHOD OF PRODUCING A WELDING</p>	<p>TORCH AS WELL AS COMPUTER- READABLE MEDIUM (73) Framatome GmbH (72) DOELLER, Alexander BOEGE, Detlef PROBST, Christof</p> <hr/> <p>(51) B23K 9/20 B23K 9/10 H04W 52/02 (11) EP3600750 (21) EP18716727.5 (47) 30.08.2023 (87) US2018023105 20.09.2018 (22) 19.03.2018 (54) PORTABLE DRAWN ARC STUD WELDER INCLUDING A LITHIUM FERROPHOSPHATE BATTERY (73) Nelson Stud Welding, Inc. (72) SCHRAFF, Scott, J. KRUPP, Jeffrey BROOKS, Stephen, D. (31) 201762472762 P (32) 17.03.2017 (33) United States of America</p> <hr/> <p>(51) B23K 9/26 B23K 9/12 (11) EP3750658 (21) EP18903445.7 (47) 30.08.2023 (87) JP2018043418 08.08.2019 (22) 26.11.2018 (54) WELDING TIP (73) Panasonic Intellectual Property Management Co., Ltd. (72) FUJIWARA Junji (31) 2018018380 (32) 05.02.2018 (33) Japan</p> <hr/> <p>(51) B23K 11/14 B23K 35/02 B23K 11/00 B23K 9/20 (11) EP2531321 (21) EP10795231.9 (47) 30.08.2023 (87) EP2010007513 11.08.2011 (22) 09.12.2010 (54) HOT RIVET CONNECTION (73) Mercedes-Benz Group AG (72) KOPPITZ, Bernd REINHARDT, Rudolf ZIEGLER, Bernhard SCHUSTER, Tobias STEINMETZ, Heiko (31) 102010006670 (32) 03.02.2010 (33) Germany</p> <hr/> <p>(51) B23K 11/16 B23K 11/11 B23K 11/24 B23K 101/00 B23K 101/04 B23K 101/18 B23K 103/04 (11) EP3804899</p>
---	--	--

(21) EP19810484.6	(73) Osaka University	(33) European Patent Office (EPO)
(47) 30.08.2023	(72) UEJI, Rintaro	(51) B23K 26/38
(87) JP2019020589	FUJII, Hidetoshi	B23K 26/046
05.12.2019	MORISADA, Yoshiaki	B23K 26/14
(22) 24.05.2019	(31) 2015152112	B23K 26/08
(54) SPOT WELDED JOINT, VEHICLE	(32) 31.07.2015	B23K 26/40
FRAMEWORK COMPONENT	(33) Japan	B23K 101/34
PROVIDED WITH SPOT WELDED	(51) B23K 20/12	B23K 103/04
JOINT, AND METHOD OF	F01D 5/30	(11) EP3459675
MANUFACTURING SPOT WELDED	F01D 5/34	(21) EP17799429.0
JOINT	F01D 25/00	(47) 30.08.2023
(73) NIPPON STEEL CORPORATION	F02C 7/00	(87) JP2017018528
(72) ZENIYA, Tasuku	B23K 101/00	23.11.2017
HAMADA, Koichi	(11) EP3613532	(22) 17.05.2017
YASUYAMA, Masanori	(21) EP19199911.9	(54) LASER CUTTING AND MACHINING
KOGA, Atsuo	(47) 30.08.2023	METHOD FOR PLATED STEEL
HIROSE, Satoshi	(22) 08.11.2016	PLATE, LASER CUT-AND-MACHINED
(31) 2018105233	(54) LINEAR FRICTION WELDING	PRODUCT, LASER MACHINING HEAD
(32) 31.05.2018	APPARATUS	(73) AMADA CO., LTD.
(33) Japan	(73) IHI Corporation	NIPPON STEEL CORPORATION
(51) B23K 20/06	(72) UEDA, Wataru	(72) UEHARA, Masanori
B23K 101/36	NAKAYAMA, Yuichiro	HORIKAWA, Hiroshi
B23K 103/10	DODO, Yasushi	ITO, Masahito
B23K 103/12	SHINAGAWA, Miki	SASAKI, Hirokazu
B23K 101/38	ASANO, Nozomu	ASADA, Hiroshi
(11) EP3538313	(31) 2015224828	HARA, Hideo
(21) EP17801411.4	2015224824	(31) 2017095393
(47) 30.08.2023	2015219363	2016099292
(87) EP2017078943	(32) 17.11.2015	2016099867
17.05.2018	17.11.2015	(32) 12.05.2017
(22) 10.11.2017	09.11.2015	18.05.2016
(54) METHOD FOR MAGNETIC PULSE	(33) Japan	18.05.2016
WELDING OF A STACK OF SHEETS	Japan	(33) Japan
(73) ADM28 France	Japan	Japan
(72) SHRIBMAN, Victor	(51) B23K 26/02	Japan
KASHANI, Mehrdad	B23K 26/36	(51) B23P 19/08
BEN DAVID, Ori	B23K 26/0622	(11) EP3795291
(31) 1660982	B23K 26/146	(21) EP20275139.2
(32) 14.11.2016	(11) EP3492210	(47) 30.08.2023
(33) France	(21) EP17205193.0	(22) 09.09.2020
(51) B23K 20/12	(47) 30.08.2023	(54) GAITER FITTING DEVICE
(11) EP3762175	(22) 04.12.2017	(73) Bailcast Limited
(21) EP19712121.3	(54) APPARATUS FOR 3D SHAPING OF	(72) WIRES, Robert
(47) 30.08.2023	A WORKPIECE BY A LIQUID JET	(31) 201913505
(87) DE2019000044	GUIDED LASER BEAM	(32) 19.09.2019
12.09.2019	(73) SYNOVA S.A.	(33) United Kingdom
(22) 22.02.2019	(72) HIPPERT, David	(51) B23P 21/00
(54) DEVICE AND METHOD FOR AVOIDING	RICHERZHAGEN, Bernold	B62D 65/02
AN INTERRUPTION IN THE WELDING	DIEHL, Helgi	B62D 65/18
PROCESS DURING FRICTION	(51) B23K 26/03	B25H 1/18
STIR WELDING, IN PARTICULAR	B23K 26/38	(11) EP4003640
BREAKAGE OF THE FRICTION PIN	B23K 31/12	(21) EP19758611.8
(73) Grenzebach Maschinenbau GmbH	(11) EP4126437	(47) 30.08.2023
(72) WEIGL, Markus	(21) EP21708043.1	(87) EP2019070305
(31) 102018001774	(47) 30.08.2023	04.02.2021
(32) 06.03.2018	(87) EP2021055305	(22) 29.07.2019
(33) Germany	30.09.2021	(54) PLATFORM FOR CONVEYING WORK
(51) B23K 20/12	(22) 03.03.2021	PARTS IN AN ASSEMBLY LINE, AND
B23K 103/04	(54) QUALITY CONTROL OF A LASER	METHOD FOR PLACING WORK PARTS
B23K 101/20	MACHINING PROCESS USING	ON THE SAME
(11) EP3330034	MACHINE LEARNING	(73) ABB Schweiz AG
(21) EP16832474.7	(73) Bystronic Laser AG	(72) NEGRE, Bernard
(47) 30.08.2023	(72) SCHRANZ, Matthias	(51) B23Q 1/00
(87) JP2016003281	BADER, Roland	B23Q 1/01
09.02.2017	LUEDI, Andreas	B23Q 37/00
(22) 11.07.2016	BAERTSCHI, Joël	G01C 5/04
(54) FRICTION BONDING METHOD AND	(31) 20165589	(11) EP4003642
WELDED STRUCTURE	(32) 25.03.2020	(21) EP20743139.6

- (47) 30.08.2023
(87) EP2020070560
28.01.2021
(22) 21.07.2020
(54) DEVICE AND METHOD FOR
POSITIONING A MODULE OF
MODULAR BED FOR MACHINE TOOLS
(73) Profacere Srl
(72) ROSCIANO, Ivan
BRUZZONE, Alesandro Arturo
MONTI, Margherita
(31) 201900012486
(32) 22.07.2019
(33) Italy
-
- (51) B23Q 1/01
B23Q 1/62
(11) EP3584033
(21) EP19177212.8
(47) 30.08.2023
(22) 29.05.2019
(54) MACHINE TOOL
(73) Nagase Integrex Co., Ltd.
(72) Shindo, Ryota
Uemura, Keiji
(31) 2018180738
2018105205
(32) 26.09.2018
31.05.2018
(33) Japan
Japan
-
- (51) B23Q 3/08
B23B 31/20
B23Q 3/12
B25B 5/06
(11) EP3762178
(21) EP19707035.2
(47) 30.08.2023
(87) EP2019055308
12.09.2019
(22) 04.03.2019
(54) WORKPIECE GRIPPING DEVICE FOR
MACHINE TOOLS AND MACHINING
CENTERS
(73) Bronzino, Pier Mauro
Bronzino, Walter
(72) Bronzino, Walter
Bronzino, Pier Mauro
(31) 201800003257
(32) 05.03.2018
(33) Italy
-
- (51) B23Q 39/04
B23Q 1/01
B23Q 3/157
(11) EP3943239
(21) EP21163345.8
(47) 30.08.2023
(22) 18.03.2021
(54) MACHINE TOOL AND METHOD FOR
OPERATING SAME
(73) Fill Gesellschaft m.b.H.
(72) DALLINGER, Friedrich
GADRINGER, Markus
(31) 20187633
(32) 24.07.2020
(33) European Patent Office (EPO)
-
- (51) B24B 13/005
(11) EP3089847
(21) EP14824851.1
- (47) 30.08.2023
(87) EP2014079413
09.07.2015
(22) 30.12.2014
(54) VARIABLE REFERENCE BLOCKING
APPARATUS AND METHOD OF USE
(73) Essilor International
(72) GELB, Brad
MONAGHAN, James
TAYLOR, Bruce
(31) 201361922478 P
(32) 31.12.2013
(33) United States of America
-
- (51) B24B 13/04
B24B 13/02
B24B 13/01
(11) EP3482873
(21) EP16908202.1
(47) 30.08.2023
(87) JP2016070347
11.01.2018
(22) 08.07.2016
(54) SPHERICAL LENS SURFACE
PROCESSING METHOD USING
CUP-SHAPED GRINDING STONE
AND SPHERICAL LENS SURFACE
PROCESSING APPARATUS
(73) Kojima Engineering Co., Ltd.
(72) JOWA, Tetsuya
KOJIMA, Hideo
FUKUZAWA, Hiroshi
-
- (51) B24D 3/28
B24D 3/34
(11) EP3481589
(21) EP17824941.3
(47) 30.08.2023
(87) US2017041007
11.01.2018
(22) 07.07.2017
(54) ABRASIVE ARTICLES
(73) University of Massachusetts
Saint-Gobain Abrasives, Inc.
Saint-Gobain Abrasifs
(72) ZHAO, Caixia
BONNER, Anne M.
SCHOCH, Andrew B.
HSU, Shaw Ling
MATSUMOTO, Dean S.
PATEL, Jigneshkumar P.
ADA CARLEEN, Sena
NASHED, Alexander
DESHMUKH, Subrajeet
(31) 201762450253 P
201662360005 P
(32) 25.01.2017
08.07.2016
(33) United States of America
United States of America
-
- (51) B24D 5/06
B24D 5/10
B24D 18/00
B24D 3/08
(11) EP3578300
(21) EP19177831.5
(47) 30.08.2023
(22) 03.06.2019
(54) DIAMOND TOOL AND METHOD FOR
PRODUCING SAME
- (73) SCHOTT Diamantwerkzeuge GmbH
(72) Kleine, Friedhelm
Lein, Burghard
(31) 102018113613
(32) 07.06.2018
(33) Germany
-
- (51) B24D 9/08
B24B 27/00
B24B 49/10
B25J 11/00
(11) EP3996873
(21) EP20758341.0
(47) 30.08.2023
(87) IB2020056360
14.01.2021
(22) 07.07.2020
(54) APPARATUS FOR VERIFYING THE
PRESENCE, OR THE ABSENCE,
OF AN ABRASIVE ELEMENT IN A
MACHINE FOR WORKING SURFACES
(73) Fabrica Machinale S.r.l.
(72) BOSIO, Luca
VALLEGGI, Renzo
(31) 201900011454
(32) 11.07.2019
(33) Italy
-
- (51) B25B 1/12
B25B 5/10
(11) EP3815843
(21) EP20205156.1
(47) 30.08.2023
(22) 02.11.2020
(54) TENSIONING DEVICE FOR
TENSIONING A WORKPIECE
(73) Andreas Maier GmbH & Co. KG
(72) Steinbach, Peter
(31) 102019129678
(32) 04.11.2019
(33) Germany
-
- (51) B25B 5/04
B25B 5/10
B25B 5/16
(11) EP4088864
(21) EP22171353.0
(47) 30.08.2023
(22) 03.05.2022
(54) CLAMPING DEVICE
(73) F. J. Pfeffer Formenbau GmbH
(72) Pfeffer, Franz-Josef
Pfeffer, Simon
(31) 102021112157
(32) 10.05.2021
(33) Germany
-
- (51) B25B 11/00
(11) EP3826809
(21) EP19755799.4
(47) 30.08.2023
(87) DE2019000175
30.01.2020
(22) 04.07.2019
(54) MOUNTING DEVICE AND METHOD
FOR VALIDATABLE FIXING
(73) Xenios AG
(72) FILIPON, Sven
RAU, Michael
(31) 102018005743
(32) 23.07.2018

(33) Germany	Ashinghurst, Jeremy D.	(54) FOLDING TOOL
(51) B25B 13/04	Cruise, Nathan J.	(73) SWIMC LLC
B25B 13/08	(31) 201862718684 P	(72) GOODWIN, Edward Ray
B25B 13/48	(32) 14.08.2018	ROBERTSON, Joshua R.
B25B 17/00	(33) United States of America	GAURAV, Sharad
B25B 17/02	(51) B25F 5/00	LEVAND, Victor J.
B25B 23/147	B25B 27/14	MULROY, Sarah Bridget
(11) EP3829817	B23D 17/06	LAMBERTSON, Michael C. Jr.
(21) EP19753256.7	H01R 43/042	BOSS, Randi
(47) 30.08.2023	(11) EP4025389	(31) 201662292568 P
(87) EP2019069841	(21) EP20772511.0	(32) 08.02.2016
06.02.2020	(47) 30.08.2023	(33) United States of America
(22) 23.07.2019	(87) US2020049169	(51) B25H 3/00
(54) SCREWING DEVICE, DRIVING	11.03.2021	(11) EP3523077
TORQUE GENERATING MEANS,	(22) 03.09.2020	(21) EP16777987.5
SCREWING SYSTEM AND TORQUE	(54) TOOL WITH HYDRAULIC SYSTEM FOR	(47) 30.08.2023
CONTROL METHOD	REGENERATIVE EXTENSION AND	(87) EP2016073743
(73) Johannes LÜbbering GmbH	TWO-SPEED OPERATION	12.04.2018
(72) LÜBBERING, Achim	(73) Milwaukee Electric Tool Corporation	(22) 05.10.2016
LANGHORST, Thomas	(72) BALLARD, James G.	(54) STACKED MODULES
BERGMANN, Bruno	(31) 201962895153 P	(73) Festool GmbH
(31) 102018118853	(32) 03.09.2019	(72) ENDER, Dominic Richard
(32) 02.08.2018	(33) United States of America	(51) B25H 3/02
(33) Germany	(51) B25F 5/02	B25H 3/04
(51) B25B 15/06	(11) EP3944928	(11) EP3988251
E04D 15/04	(21) EP21188088.5	(21) EP21203797.2
B25B 31/00	(47) 30.08.2023	(47) 30.08.2023
F16B 15/00	(22) 27.07.2021	(22) 20.10.2021
(11) EP3740347	(54) POWER TOOL	(54) STORAGE SYSTEM
(21) EP19740704.2	(73) Techtronic Cordless GP	(73) Techtronic Cordless GP
(47) 30.08.2023	(72) BENZING, Glenn L.	(72) HUGHETT, Stephen A.
(87) SE2019050033	(31) 202016939432	KNIGHT, Tyler H.
25.07.2019	(32) 27.07.2020	GROVES, Jeffrey
(22) 18.01.2019	(33) United States of America	JENKINS, J. Luke
(54) MOUNTING DEVICE FOR INSULATION	(51) B25F 5/02	(31) 202163143478 P
HOLDERS AND A METHOD FOR	H01M 50/213	202063094134 P
INSERTING INSULATION HOLDERS	H01R 11/12	(32) 29.01.2021
(73) Eurospacers Ab	H01R 9/18	20.10.2020
(72) ANDERSSON, Stefan	B25F 5/00	(33) United States of America
(31) 1850054	B25D 17/24	United States of America
(32) 18.01.2018	B25D 17/04	(51) B25J 9/00
(33) Sweden	(11) EP3393722	(11) EP3993957
(51) B25C 1/04	(21) EP16808657.7	(21) EP20735594.2
B25C 1/06	(47) 30.08.2023	(47) 30.08.2023
(11) EP3823791	(87) EP2016080272	(87) EP2020068717
(21) EP19752426.7	29.06.2017	07.01.2021
(47) 30.08.2023	(22) 08.12.2016	(22) 02.07.2020
(87) EP2019069439	(54) HAND POWER TOOL	(54) COMPACT DEVICE DESIGNED TO
23.01.2020	(73) Robert Bosch GmbH	BE POSITIONED CLOSE TO A JOINT
(22) 18.07.2019	(72) KNEER, Florian	AND GENERAL SYSTEM COMPRISING
(54) COMPRESSED-AIR-OPERATED	ZAHN, Wolf	SUCH A COMPACT DEVICE
EXPULSION DEVICE	(31) 102016201802	(73) Safran Electronics & Defense
(73) PREBENA Wilfried Bornemann GmbH &	102015226406	(72) LAROSE, Pascal
Co. KG	(32) 05.02.2016	GRENIER, Jordane
(72) RUECKLINGER, Werner	22.12.2015	(31) 1907331
(31) 102018117519	(33) Germany	(32) 02.07.2019
(32) 19.07.2018	Germany	(33) France
(33) Germany	(51) B25G 1/08	(51) B25J 9/02
(51) B25F 5/00	B25G 3/14	B25J 9/16
(11) EP3610991	B25G 3/26	B25J 15/00
(21) EP19188706.6	B25G 3/36	B25J 15/06
(47) 30.08.2023	B26B 11/00	(11) EP3753681
(22) 26.07.2019	(11) EP3414056	(21) EP20180634.6
(54) SYSTEM AND METHOD FOR	(21) EP17705282.6	(47) 30.08.2023
DETECTING THEFT	(47) 30.08.2023	(22) 17.06.2020
(73) Black & Decker Inc.	(87) US2017016869	(54) END MANIPULATOR FOR
(72) Leh, Jason K.	17.08.2017	PACKAGE PICKING AND PLACING,
Brotto, Danny C.	(22) 07.02.2017	CORRESPONDING MACHINE

AND METHOD FOR OPERATING A MACHINE	(72) HASHIMOTO, Atsumi KINUGASA, Yasuhiro	(21) EP20163126.4 (47) 30.08.2023 (22) 13.03.2020
(73) Intelligrated Headquarters LLC	(31) 2018094548	(22) 13.03.2020
(72) PATIL, Madhav	(32) 16.05.2018	(54) RETRACTION SYSTEM FOR AN INDUSTRIAL ROBOT
(31) 201916448171	(33) Japan	(73) Sumcab Specialcable GmbH
(32) 21.06.2019	(51) B25J 11/00	(72) SCHÜTZ, Lothar
(33) United States of America	(11) EP3639986	(31) 102019112401
(51) B25J 9/04	(21) EP19188093.9	(32) 13.05.2019
B25J 19/00	(47) 30.08.2023	(33) Germany
(11) EP3632631	(22) 24.07.2019	(51) B25J 19/00
(21) EP19195375.1	(54) ROBOT AND METHOD OF CONTROLLING THEREOF	B25J 19/06
(47) 30.08.2023	(73) LG ELECTRONICS INC.	B25J 15/00
(22) 04.09.2019	(72) GU, Sewan	(11) EP3661707
(54) INSTALLING DEVICE AND ROBOT	(73) KASHI, Kaishu	(21) EP18765948.7
(73) Kabushiki Kaisha Yaskawa Denki	SON, Jungkwan	(47) 30.08.2023
(72) ITO, Tsuyoshi	CHO, Taegil	(87) FR2018051946
TSUJIBAYASHI, Hisayoshi	PARK, Yongjin	07.02.2019
ISHIZU, Kensei	SOHN, Jinho	(22) 27.07.2018
TABATA, Makoto	KIM, Minook	(54) EFFECTOR DEVICE COMPRISING A PROTECTIVE DEVICE THAT IS EXTENDABLE OR RETRACTABLE BY BENDING
(31) 2018172519	(31) 20180124634	(73) Compagnie Générale des Etablissements Michelin
(32) 14.09.2018	(32) 18.10.2018	(72) DETTORRE, Jean-Marie
(33) Japan	(33) Korea (Republic)	DRAGO, Frédéric
(51) B25J 9/16	(51) B25J 13/08	TRABATTONI, Thomas
(11) EP4061585	(11) EP3996885	(31) 1757548
(21) EP20824084.6	(21) EP20749807.2	(32) 04.08.2017
(47) 30.08.2023	(47) 30.08.2023	(33) France
(87) EP2020082659	(87) EP2020069081	(51) B26B 5/00
27.05.2021	14.01.2021	(11) EP3766648
(22) 19.11.2020	(22) 07.07.2020	(21) EP20184964.3
(54) CALIBRATION OF AN IMPEDANCE CONTROL OF A ROBOT MANIPULATOR	(54) METHOD FOR DETECTING SLIPPAGE WHEN GRIPPING AN OBJECT WITH A GRIPPER	(47) 30.08.2023
(73) Franka Emika GmbH	(73) Hochschule Karlsruhe Technik und Wirtschaft	(22) 09.07.2020
(72) SPENNINGER, Andreas	(72) WEBER, Michael	(54) SAFETY KNIFE
MORGANTI, Marco	GINTNER, Klemens	(73) Wolfcraft GmbH
(31) 102019131401	BECK, Bernhard	(72) ZIMMER, Jürgen
(32) 21.11.2019	(31) 102019210090	(31) 102019119612
(33) Germany	(32) 09.07.2019	(32) 19.07.2019
(51) B25J 9/16	(33) Germany	(33) Germany
A61B 34/30	(51) B25J 13/08	(51) B26D 3/28
(11) EP3946833	G01L 5/22	(11) EP3213892
(21) EP20721042.8	G01L 5/16	(21) EP16158746.4
(47) 30.08.2023	B25J 19/02	(47) 30.08.2023
(87) US2020025481	G01L 1/25	(22) 04.03.2016
08.10.2020	(11) EP3668691	(54) A FOOD HOLDER FOR A FOOD SLICER, AND A FOOD SLICER
(22) 27.03.2020	(21) EP18845497.9	(73) DKB Household UK Limited
(54) REDUCING ENERGY BUILDUP IN SERVO-CONTROLLED MECHANISMS	(47) 30.08.2023	(72) OZTURK, Osman
(73) Intuitive Surgical Operations Inc.	(87) AU2018050859	(51) B26D 5/00
(72) BRISSON, Gabriel	21.02.2019	B26D 7/01
(31) 201962826780 P	(22) 14.08.2018	B26D 7/06
(32) 29.03.2019	(54) SYSTEM AND METHOD FOR ASSESSING GRIP SECURITY	B26D 7/30
(33) United States of America	(73) Contactile Pty Ltd.	A22C 17/00
(51) B25J 9/16	(72) XIA, Benjamin	A22C 25/18
B25J 19/06	KHAMIS, Heba	B26D 5/32
G05B 19/4062	REDMOND, Stephen James	(11) EP3670120
(11) EP3795309	(31) 2018901816	(21) EP18890275.3
(21) EP19803677.4	2017903239	(47) 30.08.2023
(47) 30.08.2023	(32) 24.05.2018	(87) ES2018070796
(87) JP2019005304	14.08.2017	27.06.2019
21.11.2019	(33) Australia	(22) 11.12.2018
(22) 14.02.2019	Australia	(54) DEVICE FOR AUTOMATICALLY CUTTING FROZEN FOOD PRODUCTS INTO PORTIONS OF AN EXACT WEIGHT
(54) ENCODER ABNORMALITY DETECTING METHOD, OPERATION CONTROL DEVICE, ROBOT, AND ROBOT SYSTEM	(51) B25J 19/00	
(73) Panasonic Intellectual Property Management Co., Ltd.	B25J 9/08	
	H02G 11/00	
	(11) EP3738729	

(73) Astech Food Machinery, S.L.	(47) 30.08.2023	PENG, Jian
(72) MASOLIVER FEIXAS, Ricard	(22) 16.12.2019	LIU, Diqin
(31) 201731417	(54) METHOD AND SYSTEM FOR	LI, Xianjun
(32) 18.12.2017	SEQUENCING VENEER TO	HU, Jinbo
(33) Spain	LUMBERCORE	LIU, Gonggang
(51) B27B 17/02	(73) Goodrich Corporation	XIONG, Yanhui
B27B 17/12	(72) FUNK, Tim L	LI, Ting
(11) EP3868529	COPELIN, Freddy R	XUE, Zhicheng
(21) EP20158384.6	Knauer, Charles A	CHANG, Shanshan
(47) 30.08.2023	BARNETT, Brian	(31) 201910063367
(22) 20.02.2020	CHAPMAN, Christopher L.	(32) 23.01.2019
(54) GUIDE RAIL	WHITE, John R	(33) China
(73) Andreas Stihl AG & Co. KG	Hall, Benjamin D	(51) B27N 1/00
(72) FUCHS, Alexander	(31) 201916596493	(11) EP3074211
WITTIG, Maureen	(32) 08.10.2019	(21) EP14798753.1
MÜLLER, Matthias	(33) United States of America	(47) 30.08.2023
(51) B27B 17/14	(51) B27D 5/00	(87) EP2014073909
(11) EP3808520	(11) EP3741528	04.06.2015
(21) EP20202674.6	(21) EP20170640.5	(22) 06.11.2014
(47) 30.08.2023	(47) 30.08.2023	(54) REPAIR PATCH
(22) 19.10.2020	(22) 21.04.2020	(73) Rema Tip Top AG
(54) CHAIN SAW	(54) DEVICE FOR COATING A SURFACE	(72) THALHAMMER, Dieter
(73) Globe (Jiangsu) Co., Ltd.	AND METHOD FOR COATING A	CASPER, Christian
(72) Li, Xiazi	SURFACE	SCHEUNGRABER, Patric
(31) 201910993428	(73) Felder KG	(31) 102013224153
201910993078	(72) FELDER, Johann	(32) 26.11.2013
201910993068	(31) 102019112600	(33) Germany
(32) 18.10.2019	(32) 14.05.2019	(51) B27N 3/00
18.10.2019	(33) Germany	B05D 1/38
18.10.2019	(51) B27M 1/08	B05D 3/06
(33) China	B27G 21/00	B05D 7/08
China	B23Q 11/08	B05D 7/00
China	(11) EP3475040	B27N 7/00
(51) B27C 5/02	(21) EP17772411.9	B32B 3/30
B27F 1/10	(47) 30.08.2023	B44C 1/24
B27F 1/12	(87) EP2017074192	B44C 3/02
B27F 5/02	29.03.2018	B44C 5/04
B27C 5/06	(22) 25.09.2017	B32B 21/02
B27C 5/10	(54) MACHINE WITH PROCESSING AREA	B32B 21/14
B23Q 35/10	AND ASSOCIATED METHOD	(11) EP3999293
(11) EP3395519	(73) HOMAG GmbH	(21) EP20735620.5
(21) EP16879104.4	(72) KANITZ, Carsten	(47) 30.08.2023
(47) 30.08.2023	SCHMIEDER, Volker	(87) EP2020069129
(87) KR2016007743	SCHWEIZER, Sven	21.01.2021
29.06.2017	STURM, Christian	(22) 07.07.2020
(22) 15.07.2016	FRIESE, Stefan	(54) PANELS WITH A STRUCTURED
(54) MULTIPURPOSE WOODWORKING	(31) 102016218434	COATING SURFACE
MACHINE COMPRISING JIGS FOR	(32) 26.09.2016	(73) Akzenta Paneele + Profile GmbH
FABRICATING A CONCAVE-CONVEX	(33) Germany	(72) BUHLMANN, Carsten
STRUCTURE AND CONCAVE-CONVEX	(51) B27M 3/14	HÜLLENKREMER, Felix
STRUCTURE FABRICATION METHOD	B27M 3/00	HOFF, Egon
USING SAME	B27N 1/00	(31) 19186795
(73) Lee, Hyun-Jin	B27N 3/02	(32) 17.07.2019
(72) Lee, Hyun-Jin	B27N 3/18	(33) European Patent Office (EPO)
(31) 20150186379	(11) EP3904029	(51) B28B 1/00
(32) 24.12.2015	(21) EP19911111.3	B28B 13/02
(33) Korea (Republic)	(47) 30.08.2023	(11) EP3993975
(51) B27D 1/00	(87) CN2019083250	(21) EP20750357.4
B27D 1/04	30.07.2020	(47) 30.08.2023
B27L 5/00	(22) 18.04.2019	(87) IB2020056295
B32B 21/13	(54) BAMBOO RAILROAD SLEEPER	14.01.2021
B32B 3/26	INTEGRALLY FORMED BY MEANS	(22) 03.07.2020
B32B 7/12	OF ONE-STEP MOLDING, AND	(54) METHOD AND APPARATUS FOR
B32B 21/04	PREPARATION METHOD THEREOF	THE PRODUCTION OF CERAMIC
B32B 21/14	(73) HUNAN TAOHUAIJIANG BAMBOO	PRODUCTS
B32B 37/12	SCIENCE & TECHNOLOGY CO., LTD.	(73) SACMI COOPERATIVA MECCANICI
(11) EP3804929	(72) WU, Zhiping	IMOLA SOCIETA' COOPERATIVA
(21) EP19216726.0	ZENG, Weihong	(72) SCARDOVI, Stefano

RICCI, Claudio	(87) TR2017050734	(22) 16.12.2020
(31) 201900011025	20.12.2018	(54) FEED SCREW-TYPE MACHINE FOR
(32) 05.07.2019	(22) 29.12.2017	FEEDING A PROCESSING SCREW-
(33) Italy	(54) APPARATUS AND METHOD FOR	TYPE MACHINE, AND RELATED
(51) B28B 1/54	INJECTING INSULATION MATERIAL	METHOD
B28B 11/24	(73) Akin Mermer Tekstil Insaat Makina Enerji	(73) Coperion GmbH
B28C 5/00	Sanayi Ve Ticaret Ltd. STI.	(72) Stirner, Thorsten
C04B 7/147	(72) AKIN, Ercan	(51) B29B 9/10
E01C 5/06	(31) 201703122	B29B 9/16
E01C 5/20	201703121	B29B 7/00
C04B 40/02	(32) 01.03.2017	B29B 7/74
C04B 28/08	01.03.2017	B29B 7/84
C04B 111/21	(33) Türkiye	B01J 2/26
(11) EP3551406	Türkiye	F26B 17/00
(21) EP17878931.9	(51) B29B 7/42	C08F 2/01
(47) 30.08.2023	B29B 7/48	C08F 10/06
(87) CA2017051489	B29B 7/84	C08F 10/02
14.06.2018	B29B 7/86	C08F 210/16
(22) 08.12.2017	B29C 48/425	B29B 7/42
(54) LANDSCAPING PRODUCT AND	B29C 48/52	B29B 7/48
METHOD OF PRODUCTION THEREOF	B29C 48/53	C08F 4/659
(73) Carbicrete Inc.	B29C 48/76	(11) EP3843964
(72) SHAO, Yixin	B29B 7/82	(21) EP19765913.9
MAHOUTIAN, Mehrdad	(11) EP3999296	(47) 30.08.2023
(31) 201662431886 P	(21) EP20749802.3	(87) US2019048344
(32) 09.12.2016	(47) 30.08.2023	05.03.2020
(33) United States of America	(87) DE2020100631	(22) 27.08.2019
(51) B28B 7/24	21.01.2021	(54) METHOD TO FORM SOLID POLYMER
B28B 23/00	(22) 19.07.2020	PARTICLES FROM A POLYMER MELT
B28B 17/00	(54) EXTRUDER FOR THE VISCOSITY-	(73) Dow Global Technologies LLC
B28B 15/00	INCREASING PREPARATION OF	(72) LI, Guang Ming
(11) EP4059682	MELTABLE POLYMERS	ZOGG JR., Michael J.
(21) EP22153405.0	(73) Gneuss GmbH	JIN, Yi
(47) 30.08.2023	(72) GNEUSS, Detlef	SCHILHAB, Lonnie
(22) 26.01.2022	GNEUSS, Stephan	BAWISKAR, Santosh S.
(54) APPARATUS AND METHOD FOR	GNEUSS, Daniel	(31) 201862724835 P
APPLICATION OF A PAD TO A	(31) 102019127393	(32) 30.08.2018
RAILWAY SLEEPER	102019119528	(33) United States of America
(73) Wegh Group S.p.A.	(32) 10.10.2019	(51) B29B 11/16
(72) BIANCHI, Giancarlo	18.07.2019	B29B 15/12
NANI, Luciano	(33) Germany	B29K 101/10
(31) 202100006473	Germany	(11) EP3842202
(32) 18.03.2021	(51) B29B 7/58	(21) EP19852720.2
(33) Italy	B29B 7/76	(47) 30.08.2023
(51) B28B 7/46	B29B 7/72	(87) JP2019032496
C04B 28/02	B29B 7/40	27.02.2020
C04B 40/02	(11) EP3747612	(22) 20.08.2019
(11) EP3645228	(21) EP20173455.5	(54) PRODUCTION METHOD FOR
(21) EP18823539.4	(47) 30.08.2023	PREPREG, PREPREG TAPE, AND
(47) 30.08.2023	(22) 07.05.2020	FIBER REINFORCED COMPOSITE
(87) US2018039657	(54) DEVICE FOR MIXING TWO OR MORE	MATERIAL, AND PREPREG
03.01.2019	COMPONENTS	PRODUCTION DEVICE
(22) 27.06.2018	(73) Hilger u. Kern GmbH	(73) Toray Industries, Inc.
(54) EARLY STRENGTH ENHANCING	(72) Geier, Daniel	(72) MINOURA, Kiyoshi
CONCRETE ADMIXTURE	Flügel, Maximilian	SUZUKI, Tamotsu
(73) GCP Applied Technologies Inc.	(31) 102019114743	OCHI, Takashi
(72) LEMMA, Yohannes, K.	(32) 03.06.2019	NISHINO, So
YURDAKUL, Ezgi	(33) Germany	AOKI, Junichi
RIEDER, Klaus-Alexander	(51) B29B 7/80	KONO, Yoshikazu
BOYER, Damla	B29B 7/60	(31) 2018155077
(31) 201762525927 P	B29B 7/48	2018155066
(32) 28.06.2017	B29B 7/82	(32) 22.08.2018
(33) United States of America	B29C 48/27	22.08.2018
(51) B28B 11/04	B29C 48/285	(33) Japan
B29C 44/18	B29C 48/50	Japan
(11) EP3589467	(11) EP4015177	(51) B29B 11/16
(21) EP17910493.0	(21) EP20214537.1	F01D 5/28
(47) 30.08.2023	(47) 30.08.2023	D03D 25/00

D03D 11/00	(54) IMPROVED CONTINUOUS	(73) Ascorium GmbH
D03D 15/00	VULCANISATION PLANT	(72) DE DONCKER, Linda
B29L 31/08	(73) RF SYSTEMS S.R.L.	VANLUCHENE, Yvan
(11) EP3996892	Grando, Alessandro	DE CLERCQ, Yvan
(21) EP20747060.0	(72) GRANDO, Alessandro	(31) 14188691
(47) 30.08.2023	GRANDO, Patrizio	(32) 13.10.2014
(87) FR2020051153	(31) 201700141761	(33) European Patent Office (EPO)
14.01.2021	(32) 07.12.2017	(51) B29C 43/24
(22) 01.07.2020	(33) Italy	H01M 4/04
(54) PROCESS FOR MANUFACTURING	(51) B29C 33/02	B29C 43/58
A FIBROUS PREFORM FOR	B29C 35/02	H01G 11/28
REINFORCEMENT OF PARTS	B29L 30/00	H01G 11/50
MADE OF COMPOSITE MATERIAL	B29D 30/06	H01G 11/70
WITH A HIGH LOCAL VARIATION IN	(11) EP3730266	H01M 4/139
THICKNESS	(21) EP18890215.9	H01M 4/66
(73) Safran Ceramics	(47) 30.08.2023	H01G 11/86
(72) LEFEBVRE, Marie	(87) JP2018033717	B29C 43/32
MARSAL, David, Mathieu, Paul	27.06.2019	B29C 43/00
TESSON, Thierry, Guy, Xavier	(22) 11.09.2018	B29K 427/18
(31) 1907716	(54) TIRE VULCANIZING METHOD AND	B29K 507/04
(32) 10.07.2019	DEVICE	B29K 105/12
(33) France	(73) Mitsubishi Heavy Industries Machinery	B29K 705/10
(51) B29B 15/12	Systems, Ltd.	B29K 705/00
B29B 11/16	Bridgestone Corporation	B29L 31/34
B29K 101/10	(72) FUKUI, Takeshi	B29K 105/16
(11) EP3842204	FUKUDA, Hideki	B29C 43/28
(21) EP19852854.9	HINENO, Yoshikatsu	H01M 4/1391
(47) 30.08.2023	IWAMOTO, Tomoyuki	H01G 11/06
(87) JP2019032495	(31) 2017244392	(11) EP3625018
27.02.2020	(32) 20.12.2017	(21) EP18729874.0
(22) 20.08.2019	(33) Japan	(47) 30.08.2023
(54) PREPREG MANUFACTURING	(51) B29C 33/30	(87) EP2018062334
METHOD AND MANUFACTURING	B29C 43/36	22.11.2018
APPARATUS	B25B 11/02	(22) 14.05.2018
(73) Toray Industries, Inc.	B25B 13/04	(54) METHOD FOR PRODUCING A DRY
(72) AOKI, Junichi	B25B 13/06	FILM
KITAMURA, Yoshiyuki	B25B 23/00	(73) Fraunhofer-Gesellschaft zur Förderung
NISHINO, So	B29C 43/42	der angewandten Forschung e.V.
MINOURA, Kiyoshi	B29L 31/56	Technische Universität Dresden
KONO, Yoshikazu	(11) EP3429814	(72) KASKEL, Stefan
OCHI, Takashi	(21) EP17722860.8	FRITSCHKE, Daniel
(31) 2018155076	(47) 30.08.2023	ALTHUES, Holger
2018155068	(87) IB2017051506	TSCHÖCKE, Sebastian
(32) 22.08.2018	21.09.2017	SCHUMM, Benjamin
22.08.2018	(22) 15.03.2017	SCHÖNHERR, Kay
(33) Japan	(54) METHOD FOR ASSEMBLING A	SCHULT, Christian
Japan	FEMALE MOULD AND FEMALE	(31) 102017208220
(51) B29C 33/00	MOULD ARRANGEMENT	(32) 16.05.2017
B29C 31/00	(73) Sacmi Cooperativa Meccanici Imola	(33) Germany
B29C 33/36	Societa' Cooperativa	(51) B29C 43/34
B29C 35/02	(72) BERGAMI, Stefano	B65H 57/16
B29C 35/10	PENAZZI, Davide	B29D 30/38
B29C 35/14	MARETTI, Piero	B65H 57/04
B29C 44/20	(31) UA20161676	B65H 57/14
B29C 44/58	(32) 15.03.2016	B29C 43/28
B29L 31/00	(33) Italy	B29C 43/24
B29K 105/00	(51) B29C 41/22	B29K 21/00
B29L 31/58	B32B 33/00	B29K 105/10
B29C 33/30	B29C 37/00	B29K 105/24
B29K 105/04	(11) EP3206848	(11) EP4013593
B29C 35/08	(21) EP15778669.0	(21) EP20735437.4
(11) EP3720672	(47) 30.08.2023	(47) 30.08.2023
(21) EP18829992.9	(87) EP2015073549	(87) EP2020069061
(47) 30.08.2023	21.04.2016	18.02.2021
(87) IB2018059670	(22) 12.10.2015	(22) 07.07.2020
13.06.2019	(54) METHOD FOR PRODUCING AN	(54) FILAMENT GUIDING AND
(22) 05.12.2018	ELASTOMERIC SKIN HAVING A	MAINTENANCE MACHINE AND
	GRAINED SURFACE	METHOD OF USE

(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN	(54) TRANSFER SYSTEM WITH AN INJECTION DEVICE INTEGRATED ON A DELIVERY TABLE	(32) 27.12.2019 (33) Spain
(72) FORICHON, Baptiste SILER, Franck LE NOEN, Guillaume TREMBLIER, Jérôme	(73) Stefan Pfaff Werkzeug- und Formenbau GmbH & Co. KG	(51) B29C 45/76 B29C 44/58 B29C 48/92 B29C 44/60 B29C 45/56
(31) 1909160 (32) 12.08.2019 (33) France	(72) SUTTER, Anton	(11) EP3807071 (21) EP19730303.5 (47) 30.08.2023 (87) EP2019065030 19.12.2019
(51) B29C 43/36 B29C 43/12 B29C 70/44 B32B 37/10 B29C 43/56 B29C 70/54 B29L 31/00	(51) B29C 45/16 B29C 45/00 E05D 9/00 E05D 3/14 E05D 7/12 E05D 7/00 B22D 19/12 E05D 5/10 B29L 31/22 B29K 67/00 B29K 77/00	(22) 07.06.2019 (54) TOOL FOR PROCESSING PLASTIC, HAVING AN OSCILLATION- GENERATING ELEMENT AND AN OSCILLATION-SENSING ELEMENT
(11) EP3727785 (21) EP18889994.2 (47) 30.08.2023 (87) AU2018051350 27.06.2019 (22) 18.12.2018	(11) EP3600819 (21) EP18716781.2 (47) 30.08.2023 (87) US2018023589 27.09.2018 (22) 21.03.2018	(73) Siegfried Hofmann GmbH (72) STRELLER, Matthias ROSSTEUTSCHER, Immanuel BECK, Jonas HOFMANN, Stefan HOFMANN, Günther BECKER, David
(54) ISOSTATIC SIDE-PRESSURE SHIELDED COMPOSITE CONSOLIDATION	(54) IN MOLD ASSEMBLY OF TWO HINGES	(31) 102018114408 (32) 15.06.2018 (33) Germany
(73) XTEK Limited (72) THOMPSON, David	(73) Magna Exteriors Inc. (72) LINDBERG, Braendon, R. PARPART, Ross, J.	(51) B29C 48/10 C08F 220/44 C08F 8/42 B29C 48/00 B29C 48/05 C08K 5/098 D01D 5/08 D01F 1/07 D01F 6/38 D06M 11/00 D06M 13/188 D06M 13/513 D06M 15/61 D06M 16/00 C08K 3/08 D06M 101/28 B29K 33/20
(31) 2017905053 (32) 18.12.2017 (33) Australia	(31) 201762474369 P (32) 21.03.2017 (33) United States of America	(11) EP398148 (21) EP20836849.8 (47) 30.08.2023 (87) JP2020026539 14.01.2021 (22) 07.07.2020
(51) B29C 45/00 C08F 8/32 C08F 212/08 C08L 35/06 C08F 222/40 C08L 55/02 C08L 25/12 C08F 222/06 C08F 220/44	(51) B29C 45/16 F16H 55/06 B29C 37/00 F16H 1/06 (11) EP3459706 (21) EP17193000.1 (47) 30.08.2023 (22) 25.09.2017	(54) SPUR GEAR FOR USE IN A SPUR GEAR TRANSMISSION, GEAR PAIRING FOR SPUR GEAR TRANSMISSION, SPUR GEAR TRANSMISSION WITH SUCH A GEAR PAIRING AND METHOD FOR PRODUCING A SPUR GEAR
(11) EP3998148 (21) EP20836849.8 (47) 30.08.2023 (87) JP2020026539 14.01.2021 (22) 07.07.2020	(73) IMS Gear SE & Co. KGaA (72) Oberle, Stephan Birk, Sebastian Koop, Matthias Stoppel, Eugen Melinkov, Egor	(11) EP3548528 (21) EP17878285.0 (47) 30.08.2023 (87) AU2017000254 14.06.2018 (22) 30.11.2017
(54) MALEIMIDE COPOLYMER, METHOD FOR PRODUCING SAME, RESIN COMPOSITION AND INJECTION MOLDED BODY	(72) NAKANISHI, Soichiro MATSUMOTO, Masanori NISHINO, Kohei	(54) EXTRUDED POLYACRYLONITRILE COPOLYMER (73) Metis Technologies Pty Ltd (72) EBDON, Nicholas GERAKIOS, Michael MAURDEV, George O'SHEA, Mike KYRATZIS, Ilias Louis
(73) Denka Company Limited (72) NAKANISHI, Soichiro MATSUMOTO, Masanori NISHINO, Kohei	(51) B29C 45/27 (11) EP4124436 (21) EP21188653.6 (47) 30.08.2023 (22) 30.07.2021	(31) 2019128312 (32) 10.07.2019 (33) Japan
(31) 2019128312 (32) 10.07.2019 (33) Japan	(54) HOT RUNNER NOZZLE (73) Witosa GmbH (72) HALLENBERGER, Martin GLITTENBERG, Torsten	(22) 14.06.2018 (22) 30.11.2017
(51) B29C 45/14 B29C 45/64 B29C 45/00 B29C 45/66 B29L 31/00 B29L 31/30	(51) B29C 45/37 (11) EP3842209 (21) EP20383144.1 (47) 30.08.2023 (22) 22.12.2020	(31) 2016904999 (32) 05.12.2016 (33) Australia
(11) EP3871855 (21) EP20160078.0 (47) 30.08.2023 (22) 28.02.2020	(54) DATING SYSTEM FOR MOLDS (73) Comercial de Utiles y Moldes, S.A. (72) NAVARRA PRUNA, Alberto (31) 201931161	(51) B29C 48/12 B29C 48/92 B60R 13/06 F16J 15/10 B29L 31/30 F16J 15/06 B29C 48/025

(11) EP3766659	(72) RAIMONDI, Guillermo A.	B29C 49/06
(21) EP20186558.1	DEMIRORS, Mehmet	(11) EP3609673
(47) 30.08.2023	TRICOTTI, Marie De Luján	(21) EP18720961.4
(22) 17.07.2020	KARJALA, Teresa P.	(47) 30.08.2023
(54) METHOD AND DEVICE FOR	LÜTKENHAUS, Davidson	(87) EP2018000180
PRODUCING SEAL STRIPS	GOMES, Jorge Caminero	18.10.2018
(73) GTG Gummitechnik Wolfgang Bartelt	SSUBRAMANIAM, Surya	(22) 10.04.2018
GmbH & Co. KG	(31) 201762563872 P	(54) FLUID CHANNEL, METHOD FOR
(72) Bartelt, Markus	(32) 27.09.2017	THE PRODUCTION THEREOF, AND
(31) 102019210772	(33) United States of America	CONTAINER-PROCESSING SYSTEM
(32) 19.07.2019	(51) B29C 49/24	(73) Kronos AG
(33) Germany	B65D 23/08	(72) JEHL, Thomas
(51) B29C 48/285	B29C 49/46	GLAMSCH, Markus
B29C 48/09	B29C 49/08	HEILMEIER, Robert
B29C 48/155	(11) EP4011598	(31) 102017206159
B65G 47/28	(21) EP22154264.0	(32) 11.04.2017
A01G 25/02	(47) 30.08.2023	(33) Germany
B29C 48/34	(22) 09.07.2015	(51) B29C 49/70
(11) EP3453513	(54) COMPOSITE CONTAINER	B29C 49/06
(21) EP17189573.3	(73) Discma AG	B29B 11/08
(47) 30.08.2023	(72) TOYODA, Tamotsu	B29B 11/14
(22) 06.09.2017	TABATA, Shinichi	B29C 45/44
(54) PRODUCTION LINE FOR A DRIP	SHIOKAWA, Mitsuru	B65D 39/08
IRRIGATION TUBE	(31) 2014223680	B65D 1/02
(73) Advanced Automation Systems Ltd.	2014156919	B29C 49/48
(72) Bolinis, Christos	(32) 31.10.2014	B29C 49/54
(51) B29C 48/525	31.07.2014	B29C 49/76
B29C 48/45	(33) Japan	B29L 1/00
B29C 48/92	Japan	B29L 31/00
B29C 48/02	(51) B29C 49/48	B29C 45/26
B29C 48/25	B29C 49/78	B29C 45/40
B29C 48/395	B29C 49/56	B29C 45/17
B29B 7/42	B29K 67/00	(11) EP3659780
B29B 7/72	(11) EP4026682	(21) EP18838611.4
(11) EP3740369	(21) EP22150118.2	(47) 30.08.2023
(21) EP19700387.4	(47) 30.08.2023	(87) JP2018028244
(47) 30.08.2023	(22) 04.01.2022	31.01.2019
(87) EP2019050712	(54) BLOWING OR STRETCH-BLOWING	(22) 27.07.2018
25.07.2019	MACHINE FOR BOTTLES MADE OF	(54) HOLLOW ARTICLE MOLDING METHOD
(22) 11.01.2019	POLYMER MATERIAL	AND MOLDING APPARATUS AND
(54) AN EXTRUDER WITH AXIAL	(73) SMI S.p.A.	HOLLOW ARTICLE
DISPLACEMENT	(72) PESENTI, Damiano	(73) NISSEI ASB MACHINE CO., LTD.
(73) Universiteit Gent	NAVA, Angelo	(72) SATO, Soichiro
(72) ERKOÇ, Mustafa	(31) 202100000323	USAMI, Masayuki
RAGAERT, Kim	(32) 11.01.2021	(31) 2017145872
D'HOOGE, Dagmar	(33) Italy	(32) 27.07.2017
MOERMAN, Marcel	(51) B29C 49/56	(33) Japan
CARDON, Ludwig	B29C 49/06	(51) B29C 51/46
VAN DE STEENE, Willem	B29C 33/26	B29C 51/08
(31) 18151769	H01F 1/00	B29C 33/30
(32) 16.01.2018	B29C 49/58	(11) EP3793806
(33) European Patent Office (EPO)	(11) EP4031349	(21) EP19737074.5
(51) B29C 49/00	(21) EP20771883.4	(47) 30.08.2023
B29C 49/04	(47) 30.08.2023	(87) EP2019068060
C08J 3/22	(87) EP2020076102	23.01.2020
C08J 5/18	25.03.2021	(22) 05.07.2019
C08L 23/04	(22) 18.09.2020	(54) MEASURE OF THE INCLINAISON OF A
(11) EP3687761	(54) MOLDING UNIT WITH A BISTABLE	THERMOFORMING MOULD
(21) EP18785477.3	MAGNETIC DEVICE	(73) Marbach Werkzeugbau GmbH
(47) 30.08.2023	(73) Sidel Participations	(72) WEIBLER, Klaus
(87) US2018051151	(72) HELLOUIN, Damien	(31) 102018117328
04.04.2019	FEVRE, Sébastien	(32) 18.07.2018
(22) 14.09.2018	(31) 1910316	(33) Germany
(54) MODIFIED POLYETHYLENE	(32) 19.09.2019	(51) B29C 53/60
COMPOSITIONS AND METHOD FOR	(33) France	B29C 53/62
MAKING THE SAME	(51) B29C 49/64	B29C 53/80
(73) PBBPolisur S.r.l.	B05B 13/02	B29C 70/86
Dow Global Technologies LLC	B29C 49/42	(11) EP4051485

(21) EP20811861.2	B29C 64/321	(87) EP2020082286
(47) 30.08.2023	(11) EP4007690	03.06.2021
(87) US2020058020	(21) EP20740741.2	(22) 16.11.2020
06.05.2021	(47) 30.08.2023	(54) FDM PRINTED LUMINAIRES WITH
(22) 29.10.2020	(87) NL2020050464	ENHANCED SHINY APPEARANCE
(54) ANTI-ROTATIONAL AND ANTI-	04.02.2021	(73) Signify Holding B.V.
TRANSLATIONAL END RING FOR USE	(22) 14.07.2020	(72) GRUHLKE, Stefan, Willi, Julius
IN FILAMENT WINDING A PRESSURE	(54) CONTROLLED RETRACTION OF	VAN BOMMEL, Ties
VESSEL	FILAMENT	HIKMET, Rifat, Ata, Mustafa
(73) MAG Aerospace Industries, LLC	(73) Ultimaker B.V.	(31) 19211550
(72) NAKHLA, Mario	(72) HEIJMANS, Tom	(32) 26.11.2019
LOPEZ, Oscar	(31) 2024311	(33) European Patent Office (EPO)
(31) 201962929730 P	2023596	<hr/>
(32) 01.11.2019	(32) 26.11.2019	(51) B29C 64/153
(33) United States of America	01.08.2019	C08K 5/00
<hr/>	(33) Netherlands	C08K 5/42
(51) B29C 59/04	Netherlands	C08K 5/50
B29C 59/00	<hr/>	(11) EP3996899
B29D 30/52	(51) B29C 64/118	(21) EP20760986.8
B29C 48/92	B29C 64/393	(47) 30.08.2023
B29C 48/07	(11) EP3999316	(87) US2020044017
B29D 30/60	(21) EP20740035.9	04.02.2021
(11) EP3538341	(47) 30.08.2023	(22) 29.07.2020
(21) EP17869779.3	(87) EP2020070354	(54) POWDER BED FUSION MATERIAL
(47) 30.08.2023	28.01.2021	AND METHOD
(87) US2017060210	(22) 17.07.2020	(73) SHPP Global Technologies B.V.
17.05.2018	(54) A METHOD AND SYSTEM FOR	(72) GU, Hao
(22) 06.11.2017	MANUFACTURING A THREE-	HOEKS, Theodorus Lambertus
(54) SYSTEM AND METHOD FOR MAKING	DIMENSIONAL POROUS STRUCTURE	JOFORE, Bruke Daniel
A TIRE WITH VARIABLE RIBBON SIZE	(73) VITO NV	PRICE, Brian
TREAD	(72) GYSEN, Marijn	GOOSSENS, Johannes Martinus Dina
(73) Bridgestone Americas Tire Operations,	MICHIELSEN, Bart	(31) 201962880719 P
LLC	VAN HOOFF, Erwin	(32) 31.07.2019
(72) LORENZ, Zachary G.	BOUWEN, Wim	(33) United States of America
PARA, Jason J.	LEFEVERE, Jasper	<hr/>
(31) 201662420346 P	MULLENS, Steven	(51) B29C 64/209
(32) 10.11.2016	(31) 19187416	B29C 64/118
(33) United States of America	(32) 19.07.2019	B33Y 80/00
<hr/>	(33) European Patent Office (EPO)	B33Y 50/02
(51) B29C 63/16	<hr/>	B33Y 30/00
B29C 51/26	(51) B29C 64/118	B33Y 10/00
(11) EP3825098	B29C 64/393	B29C 70/88
(21) EP20208910.8	B33Y 10/00	B29C 70/38
(47) 30.08.2023	B33Y 80/00	B29C 64/393
(22) 20.11.2020	F21K 9/90	B29C 64/227
(54) OPTIMIZED LAMINATION DEVICE AND	(11) EP4084944	B29C 70/16
OPTIMIZED LAMINATING METHOD	(21) EP20835823.4	(11) EP3736108
(73) W-TIP GMBH & CO. KG	(47) 30.08.2023	(21) EP20172870.6
(72) WÜSTHOLZ, Florian	(87) EP2020087514	(47) 30.08.2023
WÜSTHOLZ, Frank	08.07.2021	(22) 05.05.2020
(31) 102019131523	(22) 21.12.2020	(54) DEVICE AND METHOD FOR ADDITIVE
(32) 21.11.2019	(54) OPTICAL EFFECTS OF 3D PRINTED	MANUFACTURE OF A THREE-
(33) Germany	ITEMS	DIMENSIONAL PRODUCT
<hr/>	(73) Signify Holding B.V.	(73) Hochschule Aalen
(51) B29C 64/106	(72) HIKMET, Rifat, Ata, Mustafa	(72) Börret, Rainer
B29C 64/182	GOMMANS, Hendrikus, Hubertus, Petrus	Krieger, Julia
B29C 64/393	VAN OS, Jacobus, Petrus, Johannes	Pohl, Mario
B33Y 10/00	LEE, Wei, Pien	(31) 102019111620
B33Y 50/02	(31) 20150205	(32) 06.05.2019
(11) EP4000864	(32) 03.01.2020	(33) Germany
(21) EP20209026.2	(33) European Patent Office (EPO)	<hr/>
(47) 30.08.2023	(51) B29C 64/118	(51) B29C 64/209
(22) 20.11.2020	B33Y 70/00	B33Y 30/00
(54) A METHOD AND SYSTEM FOR	F21K 9/90	B29C 64/118
CONTROLLING AN EXTRUSION	F21V 1/00	B33Y 10/00
SYSTEM FOR ADDITIVE	F21V 1/22	(11) EP3976376
MANUFACTURING	F21V 1/26	(21) EP19931348.7
(73) VITO NV	(11) EP4065342	(47) 30.08.2023
(72) LEFEVERE, Jasper	(21) EP20804291.1	(87) TR2019050414
MICHIELSEN, Bart	(47) 30.08.2023	03.12.2020
<hr/>		(22) 31.05.2019
(51) B29C 64/118		

(54) A DEVICE FOR ADDITIVE MANUFACTURING	(32) 19.09.2017	(73) SLEEVER INTERNATIONAL COMPANY
(73) Ates, Erkan	(33) United States of America	(72) FRESNEL, Eric
(72) Ates, Erkan	(51) B29C 65/08	(31) 1756808
(51) B29C 64/282	B23K 1/06	(32) 18.07.2017
B29C 64/273	B23K 20/10	(33) France
B22F 3/105	B23K 103/00	(51) B29C 67/00
B33Y 10/00	(11) EP3580045	B29C 31/04
B33Y 30/00	(21) EP17705830.2	B29B 11/16
B33Y 50/02	(47) 30.08.2023	B33Y 10/00
B29C 64/393	(87) EP2017053117	B33Y 30/00
(11) EP3597406	16.08.2018	B33Y 40/00
(21) EP18184301.2	(22) 13.02.2017	(11) EP3634724
(47) 30.08.2023	(54) ULTRASONIC PROCESSING SYSTEM, BOOSTER AND METHOD	(21) EP18798908.2
(22) 18.07.2018	(73) Telsonic Holding AG	(47) 30.08.2023
(54) APPARATUS FOR ADDITIVELY MANUFACTURING THREE-DIMENSIONAL OBJECTS	(72) SOLENTHALER, Peter	(87) US2018031976
(73) Concept Laser GmbH	(51) B29C 65/18	15.11.2018
(72) Dr. Eichenberg, Boris	B29C 65/30	(22) 10.05.2018
Hunze, Stephan	H01M 50/124	(54) RAPID DEBINDING VIA INTERNAL FLUID CHANNELS
(51) B29C 64/329	B29L 31/34	(73) Markforges, Inc.
B33Y 40/00	(11) EP3718749	(72) MARK, Gregory, Thomas
B33Y 30/00	(21) EP18884297.5	(31) 201762545966 P
B29C 49/00	(47) 30.08.2023	201762519138 P
B29C 64/259	(87) JP2018043778	201762505081 P
B29C 64/321	06.06.2019	(32) 15.08.2017
(11) EP3655237	(22) 28.11.2018	13.06.2017
(21) EP17927966.6	(54) MELT-BONDING DEVICE	11.05.2017
(47) 30.08.2023	(73) Nagano Automation Co., Ltd.	(33) United States of America
(87) US2017055269	(72) KOJIMA, Hiroataka	United States of America
11.04.2019	YAMAURA, Seiji	United States of America
(22) 05.10.2017	(31) 2017230045	(51) B29C 70/38
(54) CONTAINER FOR STORING BUILD MATERIAL AND METHOD FOR CONVEYING BUILD MATERIAL FOR A THREE-DIMENSIONAL PRINTING SYSTEM TO OR FROM A CONTAINER	(32) 30.11.2017	B29C 35/04
(73) Hewlett-Packard Development Company, L.P.	(33) Japan	B29C 35/08
(72) BENSON, Brad	(51) B29C 65/36	(11) EP3784481
OWEN, James R.	B29C 65/74	(21) EP19723465.1
SWIER, Kevin E.	B29C 70/72	(47) 30.08.2023
SCHALK, Wesley R.	B65B 51/22	(87) FR2019000059
(51) B29C 65/02	B65B 51/30	31.10.2019
B23B 5/08	B29L 9/00	(22) 23.04.2019
B23B 5/16	B29K 101/12	(54) FIBRE APPLICATION HEAD COMPRISING MULTIPLE COMPACTING ROLLERS
B26D 1/28	B29K 705/02	(73) Coriolis Group
B26D 3/16	B29K 711/12	(72) COUDURIER, Julien
B26D 7/00	(11) EP3431267	GAILLARD, Loïc
B26D 7/01	(21) EP18181883.2	(31) 1800445
B26D 7/06	(47) 30.08.2023	(32) 25.04.2018
B29C 65/20	(22) 05.07.2018	(33) France
B29K 23/00	(54) INDUCTION SEALING DEVICE	(51) B29C 70/38
(11) EP3925762	(73) Tetra Laval Holdings & Finance S.A.	B29C 35/04
(21) EP21190708.4	(72) STAJKOVIC, Marko	B29C 35/08
(47) 30.08.2023	FRIBERG, Charlott	(11) EP3784483
(22) 11.09.2018	SVÄRD, Dag	(21) EP19725387.5
(54) FACER FOR END FUSION OF POLYOLEFIN PIPES	INGVARSSON, Patrik	(47) 30.08.2023
(73) McElroy Manufacturing, Inc.	(31) 17181917	(87) FR2019000060
(72) AHRENS, Seth P.	(32) 18.07.2017	31.10.2019
DONALDSON, Paul John	(33) European Patent Office (EPO)	(22) 23.04.2019
THOMAS, Timothy M.	(51) B29C 65/50	(54) FIBRE APPLICATION HEAD COMPRISING HEATING MEANS ASSOCIATED WITH FUNCTIONAL MODULES
O'CONNELL, Brian M.	B29C 65/78	(73) Coriolis Group
LAWRENCE, Jason A.	B65H 19/18	(72) BERLAUD, Johan
McELROY, Arthur H.	B65H 21/00	GAILLARD, Loïc
(31) 201715709468	C09J 7/00	(31) 1800446
	(11) EP3431269	(32) 25.04.2018
	(21) EP18181982.2	(33) France
	(47) 30.08.2023	(51) B29C 70/38
	(22) 05.07.2018	
	(54) DEVICE FOR CONNECTING SLEEVES BY INTERNAL GLUING AND CORRESPONDING CONNECTING METHOD	

B29C 35/08	(32) 19.02.2021	B29C 73/34
B29C 35/04	(33) United States of America	(11) EP3593980
(11) EP3784482	(51) B29C 70/70	(21) EP19180889.8
(21) EP19723840.5	C08L 75/00	(47) 30.08.2023
(47) 30.08.2023	(11) EP3392028	(22) 18.06.2019
(87) FR2019000058	(21) EP18168622.1	(54) COMPOSITE STRUCTURE THROUGH-
31.10.2019	(47) 30.08.2023	HOLE REPAIR METHODS
(22) 23.04.2019	(22) 20.04.2018	(73) The Boeing Company
(54) FIBRE APPLICATION HEAD	(54) POLYMER JACKET MATERIAL BLENDS	(72) Lowrey, Connor F.
COMPRIHING COMPACTION RAMS	WITH IMPROVED FLAME RESISTANCE	Brooks, Christopher L.
PAIRED WITH FUNCTIONAL MODULES	(73) Otis Elevator Company	Krishnaswamy, Pradeep
(73) Coriolis Group	(72) GUILANI, Brad	Bossenbroek Spalding, Kirsten K.
(72) GAILLARD Loïc	PAPAS, Paul	(31) 201816033267
COUDURIER, Julien	ZAFIRIS, Georgios S	(32) 12.07.2018
(31) 1800444	(31) 201762487688 P	(33) United States of America
(32) 25.04.2018	(32) 20.04.2017	(51) B29D 23/00
(33) France	(33) United States of America	B29C 45/00
(51) B29C 70/44	(51) B29C 70/88	B29C 45/14
(11) EP4017710	B29C 45/14	B29L 23/00
(21) EP20747405.7	B29C 70/20	F16L 9/147
(47) 30.08.2023	B29K 105/12	F16L 59/14
(87) EP2020071238	B29L 9/00	B29K 75/00
25.02.2021	(11) EP3677398	B29K 705/00
(22) 28.07.2020	(21) EP18852072.0	(11) EP3853012
(54) METHOD FOR PRODUCING MOLDED	(47) 30.08.2023	(21) EP19839656.6
PARTS FROM FIBER COMPOSITE	(87) JP2018031343	(47) 30.08.2023
MATERIAL	07.03.2019	(87) IB2019001280
(73) Siempelkamp Maschinen- und	(22) 24.08.2018	26.03.2020
Anlagenbau GmbH	(54) INTEGRATED MOLDED BODY AND	(22) 19.09.2019
(72) SCHÜRMAN, Klaus	METHOD FOR PRODUCING SAME	(54) METHOD OF MANUFACTURING
SCHÖLER, Michael	(73) Toray Industries, Inc.	A PIPELINE COATED WITH A
KÖFFERS, Fabian	(72) HAMAGUCHI, Mitsushige	THERMOSET MATERIAL AND
SEBASTIAN, Lothar	IMAL, Naokichi	APPARATUS THEREFOR
(31) 102019005911	SUZUKI, Takafumi	(73) Technip France
(32) 22.08.2019	HONMA, Masato	(72) WHIGHAM, Michael
(33) Germany	SENTO, Yuichiro	(31) 201815245
(51) B29C 70/52	(31) 2017166844	(32) 19.09.2018
B29K 101/12	2017166843	(33) United Kingdom
(11) EP3475069	(32) 31.08.2017	(51) B29D 30/04
(21) EP17814383.0	31.08.2017	B29D 30/06
(47) 30.08.2023	(33) Japan	B29C 70/22
(87) CA2017050762	Japan	B60C 9/02
28.12.2017	(51) B29C 73/02	(11) EP3996903
(22) 22.06.2017	B29C 73/04	(21) EP20750334.3
(54) PULTRUSION SYSTEM	B64F 5/40	(47) 30.08.2023
(73) Polyvalor, Limited Partnership	G01B 11/14	(87) FR2020051220
(72) LABERGE LEBEL, Louis	G01B 17/02	14.01.2021
OSWALD, Arnold	G01N 29/04	(22) 08.07.2020
LAPOINTE, Felix	G01N 29/06	(54) ASSEMBLY COMPRISING A
MONNOT, Philippe	G01N 29/07	PLASTICALLY DEFORMABLE FABRIC
(31) 201662353873 P	G01N 29/44	AND A SUPPORTING STRUCTURE
(32) 23.06.2016	(11) EP3666508	(73) Compagnie Générale des
(33) United States of America	(21) EP19204647.2	Etablissements Michelin
(51) B29C 70/56	(47) 30.08.2023	(72) BROUSSEAU, Magaly
B29C 70/38	(22) 22.10.2019	RIGO, Sébastien
B29D 99/00	(54) PREDICTIVE SURFACE ADJUSTMENT	LIMOZIN, Bastien
B29C 70/54	FOR JOINT ASSEMBLY	GUILLAUMAIN, Jérémy
(11) EP4046782	(73) The Boeing Company	(31) 1907820
(21) EP22154856.3	(72) Kilwin, Jeffrey	(32) 11.07.2019
(47) 30.08.2023	Stutzman, Brian	(33) France
(22) 02.02.2022	Vaccaro, Christopher	(51) B29D 30/06
(54) FORMING SYSTEMS AND METHODS	Engelbart, Roger	(11) EP3717220
FOR FORMING AN ELONGATE	Scherer, James	(21) EP18816254.9
CHARGE OF COMPOSITE MATERIAL	Bible, George	(47) 30.08.2023
(73) The Boeing Company	(31) 201816221278	(87) IB2018059360
(72) MORRIS, John Dempsey	(32) 14.12.2018	06.06.2019
FLOLID, Derek John	(33) United States of America	(22) 27.11.2018
(31) 202163151481 P	(51) B29C 73/02	

(54) MOULDING ELEMENTS COMPRISING A PARTICULAR ASSEMBLY MEANS	04.02.2021	B21D 37/08
(73) Compagnie Générale des Etablissements Michelin	(22) 28.07.2020	(11) EP3533597
(72) BARDIN, Damien	(54) EXPANDABLE DRUM FOR SHAPING PNEUMATIC TYRES THAT COMPRISES A PARALLELOGRAM-TYPE EXPANDER DEVICE FOR	(21) EP19020089.9
CHIGROS, Pierre	RETAINING THE BEAD WIRE	(47) 30.08.2023
(31) 1771286	(73) Compagnie Générale des Etablissements Michelin	(22) 25.02.2019
(32) 30.11.2017	(72) TORRES-CASTELLANO, Miguel	(54) DEVICE FOR PROCESSING AT LEAST ONE WORKPIECE
(33) France	(31) 1908823	(73) Fritz Stepper GmbH & Co. KG
(51) B29D 30/06	(32) 01.08.2019	(72) Rexroth, Bernd
(11) EP3727820	(33) France	(31) 202018000962 U
(21) EP18826423.8	(51) B29D 99/00	102018001438
(47) 30.08.2023	B29C 70/44	(32) 23.02.2018
(87) FR2018053023	B29C 70/34	23.02.2018
27.06.2019	B29C 70/08	(33) Germany
(22) 28.11.2018	B33Y 80/00	Germany
(54) SIPE BLADE ASSEMBLY	B29C 70/54	(51) B31B 70/26
(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN	B29K 101/12	B31B 70/855
(72) BARDIN, Damien	(11) EP3769948	B65D 75/00
CHIGROS, Pierre	(21) EP20182980.1	B65D 33/01
(31) 1762364	(47) 30.08.2023	(11) EP3585601
(32) 18.12.2017	(22) 29.06.2020	(21) EP18713410.1
(33) France	(54) COMPOSITE STRUCTURE HAVING THERMOPLASTIC RADIUS FILLER	(47) 30.08.2023
(51) B29D 30/06	(73) The Boeing Company	(87) US2018015635
B29C 33/44	(72) Knowles, Devin	30.08.2018
(11) EP3983212	Stawski, Stanley	(22) 29.01.2018
(21) EP20742806.1	(31) 201916521544	(54) METHODS OF MAKING VENTED FLEXIBLE CONTAINERS
(47) 30.08.2023	(32) 24.07.2019	(73) The Procter & Gamble Company
(87) FR2020051004	(33) United States of America	(72) HAUSFELD, Michael, Paul
17.12.2020	(51) B29D 99/00	HARGETT, Mark, Mason
(22) 12.06.2020	F03D 1/06	GIACHETTO, Richard, Matthew
(54) TWO-PART MOULD FOR VULCANISING TYRES	(11) EP3802091	BOURGEOIS, Marc, Richard
(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN	(21) EP19730306.8	BROAD, Gavin, John
(72) LEPRETRE, Jérôme	(47) 30.08.2023	LESTER, Joseph, Craig
FERRI, Johan	(87) EP2019065074	CLARE, Benjamin, Jacob
(31) 1906357	19.12.2019	ISHIHARA, Tadayoshi
(32) 14.06.2019	(22) 10.06.2019	(31) 201762461290 P
(33) France	(54) WIND TURBINE BLADE SPAR STRUCTURE AND METHOD OF MANUFACTURING	(32) 21.02.2017
(51) B29D 30/06	(73) VESTAS WIND SYSTEMS A/S	(33) United States of America
B60C 11/12	(72) SMITH, Jonathan	(51) B31D 5/00
B60C 11/01	RIMMER, John	(11) EP3325263
B60C 11/03	(31) PA201870342	(21) EP16741633.8
B60C 11/11	(32) 11.06.2018	(47) 30.08.2023
(11) EP3941729	(33) Denmark	(87) EP2016067511
(21) EP20773541.6	(51) B30B 9/30	02.02.2017
(47) 30.08.2023	B65F 9/00	(22) 22.07.2016
(87) US2020016747	(11) EP4029680	(54) PACKAGING STATION FOR PRODUCING CUSHIONING MATERIAL
24.09.2020	(21) EP22150457.4	(73) Sprick GmbH Bielefelder Papier- und Wellpappenwerke & Co.
(22) 05.02.2020	(47) 30.08.2023	(72) SCHMIDT, Oliver
(54) MOLD SEGMENT IRREGULAR WEAR AND NOISE COUNTERMEASURE	(22) 06.01.2022	SCHALK, Bastian
(73) Bridgestone Americas Tire Operations, LLC	(54) DEVICE FOR GRAVITY-ASSISTED TRANSPORT AND INSTALLATION FOR TRANSFERRING AT LEAST ONE BULK PRODUCT	(31) 102015009653
(72) SEVERYN, David M.	(73) Legras Industries	(32) 24.07.2015
SINGER, Adam D.	(72) LEGRAS, Jean-Rémy	(33) Germany
BUDD, Andrew C.	(31) 2100476	(51) B31D 5/00
(31) 201962821095 P	(32) 19.01.2021	(11) EP3658366
(32) 20.03.2019	(33) France	(21) EP18745919.3
(33) United States of America	(51) B30B 15/02	(47) 30.08.2023
(51) B29D 30/24	B21D 37/12	(87) EP2018070051
B29D 30/32	B21D 37/04	31.01.2019
(11) EP4007694	B21D 35/00	(22) 24.07.2018
(21) EP20756929.4		(54) DEVICE FOR DISPENSING A PADDING MATERIAL FOR PACKAGING PURPOSES
(47) 30.08.2023		(73) Storopack Hans Reichenecker GmbH
(87) FR2020051388		(72) HAGESTEDT, Lukas
		(31) 102017116837

(32) 25.07.2017	B32B 5/24	OHTA, Yoshihiro
(33) Germany	B32B 7/08	OKUYAMA, Shinpei
(51) B32B 1/08	B32B 13/02	TAKAYAMA, Keisuke
B32B 3/04	B32B 13/14	(31) 2018065053
B32B 15/08	B32B 37/24	(32) 29.03.2018
B32B 27/08	C04B 28/04	(33) Japan
B32B 27/32	C04B 16/02	(51) B32B 7/02
H01B 7/28	E02B 11/00	B32B 17/06
(11) EP4015208	E02D 3/00	B32B 17/10
(21) EP20306648.5	E02D 17/20	B32B 7/12
(47) 30.08.2023	E02D 31/02	B32B 3/18
(22) 21.12.2020	(11) EP3621801	G02B 5/20
(54) LAMINATE WATER BARRIER	(21) EP18829470.6	B32B 37/12
(73) Nexans	(47) 30.08.2023	(11) EP3328638
(72) JORGENSEN, Simon	(87) IB2018059401	(21) EP16831419.3
JARVID, Markus	06.06.2019	(47) 30.08.2023
(51) B32B 3/06	(22) 28.11.2018	(87) US2016044743
B32B 3/08	(54) CEMENT TEXTILE MULTILAYER	02.02.2017
B32B 3/20	COMPOSITES AND THEIR METHOD	(22) 29.07.2016
B32B 3/26	OF PRODUCTION	(54) LAMINATE INCLUDING PANELS
B32B 3/28	(73) Thrace Nonwovens & Geosynthetics S.A.	AND A FILL MATERIAL BETWEEN
B32B 7/12	(72) LYKOUDIS, Spiraggelos	THE PANELS AND A PROCESS OF
B32B 15/04	(31) 20170100544	FORMING THE LAMINATE
B32B 15/20	(32) 01.12.2017	(73) Sage Electrochromics, Inc.
B61D 27/00	(33) Greece	(72) GREER, Bryan D.
B32B 3/12	(51) B32B 5/02	LAWSON, Jeremiah
E04C 2/36	B32B 5/20	SIEGERT, Jacob
E04C 2/52	B32B 13/14	REUTLER, Pascal
(11) EP3945175	D04H 1/4218	GIRON, Jean-Christophe
(21) EP21020375.8	D04H 1/587	(31) 201562198500 P
(47) 30.08.2023	(11) EP3898226	(32) 29.07.2015
(22) 20.07.2021	(21) EP19848914.8	(33) United States of America
(54) PANEL	(47) 30.08.2023	(51) B32B 7/12
(73) Z LAB s.r.l.	(87) US2019067040	B32B 15/085
(72) Scofano, Antonio	25.06.2020	B32B 15/12
(31) 202000018520	(22) 18.12.2019	B32B 15/20
(32) 30.07.2020	(54) THIN LAYER UV CURING COATING ON	B32B 27/08
(33) Italy	NON-WOVEN FACERS	B32B 27/10
(51) B32B 3/18	(73) Owens Corning Intellectual Capital, LLC	B32B 27/30
B32B 3/14	(72) GEEL, Paul	B32B 27/32
B32B 3/26	WANG, Xin	B32B 27/34
B32B 7/14	(31) 201862781770 P	B32B 27/36
B32B 9/02	(32) 19.12.2018	B32B 37/00
B32B 9/04	(33) United States of America	B32B 3/30
B32B 15/14	(51) B32B 7/02	(11) EP3655246
B32B 15/06	B32B 7/06	(21) EP18739528.0
B32B 15/08	B32B 7/12	(47) 30.08.2023
B32B 15/088	B32B 23/04	(87) EP2018068605
B32B 15/18	B32B 23/08	24.01.2019
B32B 15/20	B32B 27/08	(22) 10.07.2018
(11) EP3793819	B32B 27/28	(54) PACKAGING LAMINATE AND METHOD
(21) EP19728225.4	B32B 27/30	FOR FORMING A PACKAGING WITH A
(47) 30.08.2023	B32B 27/32	FUNCTIONAL ELEMENT
(87) US2019032421	B32B 27/36	(73) SIG Combibloc Services AG
21.11.2019	B32B 27/34	(72) MALINDRETOS, Lars
(22) 15.05.2019	C08J 7/04	REISERT, Steffen
(54) PARTIAL COVERAGE MULTILAYER	C08J 7/048	(31) 102017116170
DAMPING LAMINATE	B32B 27/40	(32) 18.07.2017
(73) Avery Dennison Corporation	(11) EP3778212	(33) Germany
(72) GANESAN, Mahesh	(21) EP19774667.0	(51) B32B 7/12
MILLIMAN, Henry W.	(47) 30.08.2023	B32B 27/28
(31) 201862672855 P	(87) JP2019014121	B32B 27/30
(32) 17.05.2018	03.10.2019	B32B 27/32
(33) United States of America	(22) 29.03.2019	B32B 27/34
(51) B32B 5/02	(54) MOISTURE-BARRIER LAMINATE	B32B 27/36
B01J 20/00	(73) Toyo Seikan Group Holdings, Ltd.	B32B 27/38
B32B 5/16	(72) YAGISAWA, Misato	B32B 27/40
B32B 5/22	NANGOU, Shunya	H01M 50/105

H01M 50/119	(32) 29.03.2017	(87) US2018023119
H01M 50/121	(33) France	26.09.2019
H01M 50/124	(51) B32B 17/10	(22) 19.03.2018
H01M 50/129	C03B 23/025	(54) MULTILAYER CONSTRAINED-LAYER
H01M 50/136	B32B 38/14	DAMPING
(11) EP4044328	(11) EP3515705	(73) Avery Dennison Corporation
(21) EP20889804.9	(21) EP17780486.1	(72) GANESAN, Mahesh
(47) 30.08.2023	(47) 30.08.2023	MILLIMAN, Henry W.
(87) KR2020016534	(87) FR2017052484	
27.05.2021	29.03.2018	(51) B32B 25/04
(22) 20.11.2020	(22) 18.09.2017	B60C 1/00
(54) PACKAGING FOR FLEXIBLE	(54) PROCESS FOR PRINTING ON	B60C 9/00
SECONDARY BATTERY, AND	AN EXTERIOR SURFACE OF A	C08F 210/00
FLEXIBLE SECONDARY BATTERY	LAMINATED GLAZING	C08F 236/04
COMPRISING SAME	(73) SAINT-GOBAIN GLASS FRANCE	B32B 15/06
(73) LG Energy Solution, Ltd.	(72) BRIQUET, Clément	B32B 7/12
(72) CHOI, Jung-Hun	(31) 1658837	C09J 11/08
KANG, Yong-Hee	(32) 21.09.2016	C09J 115/02
JANG, Min-Chul	(33) France	C09J 123/04
JUNG, Byoung-Hyo	(51) B32B 18/00	C09J 123/26
UHM, In-Sung	C04B 35/486	(11) EP4067074
(31) 20190151647	C04B 35/638	(21) EP20892448.0
(32) 22.11.2019	(11) EP3558671	(47) 30.08.2023
(33) Korea (Republic)	(21) EP17821655.2	(87) JP2020038967
(51) B32B 15/14	(47) 30.08.2023	03.06.2021
B32B 7/04	(87) EP2017084571	(22) 15.10.2020
F02C 7/24	28.06.2018	(54) RUBBER-METAL COMPLEX, TIRE, AND
F02K 1/82	(22) 23.12.2017	RUBBER ARTICLE
B64D 29/06	(54) THE USE OF MULTILAYERED OXIDE	(73) BRIDGESTONE CORPORATION
B64C 7/02	CERAMIC BODIES WITH ADAPTED	(72) SUGI Shinichiro
B32B 15/18	SINTERING BEHAVIOUR	TAKANO Shigenaga
B32B 15/01	(73) Ivoclar Vivadent AG	(31) 2020067735
B64D 29/00	(72) MEYHÖFER, Henning	2019215740
(11) EP3119602	REINSHAGEN, Jörg	(32) 03.04.2020
(21) EP14816551.7	(31) 16206751	28.11.2019
(47) 30.08.2023	(32) 23.12.2016	(33) Japan
(87) US2014069820	(33) European Patent Office (EPO)	Japan
24.09.2015	(51) B32B 18/00	(51) B32B 27/08
(22) 11.12.2014	C04B 35/83	B32B 27/32
(54) HYBRID STRUCTURE INCLUDING	C04B 37/00	(11) EP3630486
BUILT-UP SANDWICH STRUCTURE	H01L 21/00	(21) EP18719935.1
AND MONOLITHIC SPF/DB	(11) EP3463871	(47) 30.08.2023
STRUCTURE	(21) EP16744671.5	(87) EP2018061286
(73) The Boeing Company	(47) 30.08.2023	29.11.2018
(72) RUNYAN, Max R.	(87) EP2016065872	(22) 03.05.2018
HEFTI, Larry D.	07.12.2017	(54) MULTILAYER FILM COMPRISING A
SANDERS, Daniel G.	(22) 05.07.2016	POLYOLEFIN COMPOSITION
COMFORT, John M.	(54) METHOD TO MAKE A SUBSTRATE	(73) Basell Poliolefine Italia S.r.l.
LUDWIG, Brent C.	AND SUBSTRATE	(72) GALVAN, Monica
MAULDIN, Jack W.	(73) Schunk Kohlenstofftechnik GmbH	CAVALIERI, Claudio
JOEL, Jason F.	(72) SCHNEIDER, Martin	PERDOMI, Gianni
(31) 201414220821	VOLLMER, Andreas	(31) 17172379
(32) 20.03.2014	(31) 102016110333	(32) 23.05.2017
(33) United States of America	(32) 03.06.2016	(33) European Patent Office (EPO)
(51) B32B 17/10	(33) Germany	(51) B32B 27/08
(11) EP3600883	(51) B32B 25/04	B32B 27/32
(21) EP18718587.1	B32B 5/14	(11) EP3972839
(47) 30.08.2023	B32B 7/02	(21) EP20826319.4
(87) FR2018050721	B32B 9/00	(47) 30.08.2023
04.10.2018	B32B 9/02	(87) US2020038383
(22) 26.03.2018	B32B 9/04	24.12.2020
(54) LAMINATED GLAZING COMPRISING A	B32B 15/04	(22) 18.06.2020
STACK OF LAYERS	B32B 15/06	(54) FUNCTIONAL TIE-LAYER
(73) SAINT-GOBAIN GLASS FRANCE	B32B 15/08	FORMULATIONS IN BIAXIALLY
(72) DALLE-FERRIER, Cécile	B32B 15/082	ORIENTED FILMS CONTAINING HIGH-
DE GRAZIA, Marco	(11) EP3768511	DENSITY POLYETHYLENE
COMPOINT, François	(21) EP18716729.1	(73) Jindal Innovation Center SRL
(31) 1752605	(47) 30.08.2023	(72) GOHR, Eric, T.
		SHEPPARD, Robert, M.

<p>(31) 201962908628 P 201962865558 P 201962865570 P 201962863938 P</p> <p>(32) 01.10.2019 24.06.2019 24.06.2019 20.06.2019</p> <p>(33) United States of America United States of America United States of America United States of America</p> <hr/> <p>(51) B32B 27/36 B32B 1/02 B32B 15/09 B32B 15/18</p> <p>(11) EP3854584 (21) EP19863378.6 (47) 30.08.2023 (87) CN2019106467 26.03.2020 (22) 18.09.2019</p> <p>(54) POLYESTER FILM FOR COATING IRON AND FILM-COATED METAL PLATE</p> <p>(73) BAOSHAN IRON & STEEL CO., LTD. (72) DAI, Jingge CHEN, Hongxing XIE, Long</p> <p>(31) 201811090656 (32) 19.09.2018 (33) China</p> <hr/> <p>(51) B41F 15/08 B41F 15/12 B41F 15/36 H05K 3/12 H05K 3/34</p> <p>(11) EP3804993 (21) EP18920142.9 (47) 30.08.2023 (87) JP2018020138 28.11.2019 (22) 25.05.2018</p> <p>(54) STORAGE DEVICE AND PRINTING SYSTEM</p> <p>(73) Fuji Corporation (72) YOKOI, Yoshimune</p> <hr/> <p>(51) B41F 17/22 B41M 1/06 B41M 1/08 B41M 1/20 B41M 1/40</p> <p>(11) EP3827988 (21) EP20215934.9 (47) 30.08.2023 (22) 06.11.2015</p> <p>(54) METHOD FOR PRINTING METALLIC BEVERAGE CONTAINER BODIES</p> <p>(73) Ball Beverage Can South America S.A. (72) PIREs, Carlos Eduardo BOAS, Joao Andre Vilas</p> <p>(31) 201414537594 (32) 10.11.2014 (33) United States of America</p> <hr/> <p>(51) B41J 2/045 (11) EP3915791 (21) EP21178247.9 (47) 30.08.2023 (22) 06.07.2017</p>	<p>(54) SELECTORS FOR NOZZLES AND MEMORY ELEMENTS</p> <p>(73) Hewlett-Packard Development Company, L.P.</p> <p>(72) SUDHAKAR, Mohan Kumar HALL, Brendan PAN, Rui NG, Boon Bing</p> <hr/> <p>(51) B41J 2/055 B41J 2/19</p> <p>(11) EP3842235 (21) EP20214298.0 (47) 30.08.2023 (22) 15.12.2020</p> <p>(54) LIQUID EJECTION HEAD</p> <p>(73) CANON KABUSHIKI KAISHA (72) TSUKUDA, Keiichiro YABE, Kenji TODA, Kyosuke SEKI, Sayaka OKITO, Kazuhiko KITAYAMA, Yasuaki SATO, Ryo YOSHIKAWA, Shimpei</p> <p>(31) 2019234621 (32) 25.12.2019 (33) Japan</p> <hr/> <p>(51) B41J 2/14 (11) EP3868561 (21) EP21151228.0 (47) 30.08.2023 (22) 12.01.2021</p> <p>(54) LIQUID EJECTION HEAD AND LIQUID EJECTION APPARATUS</p> <p>(73) Toshiba TEC Kabushiki Kaisha (72) Hida, Shinichiro (31) 2020027371 (32) 20.02.2020 (33) Japan</p> <hr/> <p>(51) B41J 2/14 (11) EP4035901 (21) EP21218120.0 (47) 30.08.2023 (22) 29.12.2021</p> <p>(54) METHOD OF FORMING A PRINT HEAD</p> <p>(73) Funai Electric Co., Ltd. (72) WEAVER, Sean T. MARRA III, Michael A.</p> <p>(31) 202117248642 (32) 01.02.2021 (33) United States of America</p> <hr/> <p>(51) B41J 2/165 B41J 25/00 B41J 25/304</p> <p>(11) EP3829878 (21) EP19739659.1 (47) 30.08.2023 (87) EP2019069414 06.02.2020 (22) 18.07.2019</p> <p>(54) A MODULAR SERVICE STATION AND A METHOD OF SERVICING AN INKJET PRINthead OF AN INKJET PRINTING SYSTEM</p> <p>(73) SICPA HOLDING SA (72) CAPPELLO, Paolo (31) 18186266 (32) 30.07.2018</p>	<p>(33) European Patent Office (EPO)</p> <hr/> <p>(51) B41J 3/39 B41J 3/36</p> <p>(11) EP4061641 (21) EP20819612.1 (47) 30.08.2023 (87) AT2020060414 27.05.2021</p> <p>(22) 20.11.2020</p> <p>(54) ACCESSORY DEVICE</p> <p>(73) COLOP Digital GmbH (72) HEINL, Cedric (31) 5020519 U (32) 22.11.2019 (33) Austria</p> <hr/> <p>(51) B41J 3/407 B41F 17/38 D06P 5/30 G06K 15/02 H04N 1/387 H04N 1/54</p> <p>(11) EP4005806 (21) EP21209003.9 (47) 30.08.2023 (22) 18.11.2021</p> <p>(54) FABRIC PRINTING APPARATUS AND METHOD</p> <p>(73) Seiko Epson Corporation (72) KAYAHARA, Naoki (31) 2020198140 (32) 30.11.2020 (33) Japan</p> <hr/> <p>(51) B41J 3/407 B41J 11/00</p> <p>(11) EP3867074 (21) EP19804838.1 (47) 30.08.2023 (87) IB2019058845 23.04.2020 (22) 17.10.2019</p> <p>(54) A METHOD/DEVICE FOR LOCATING A GLASS SUPPORT AND A METHOD/ SYSTEM FOR PRINTING ON SAID GLASS SUPPORT COMPRISING SAID METHOD/DEVICE FOR LOCATING</p> <p>(73) System Ceramics S.p.A. (72) CAVALLINI, Federico PISTONI, Giuliano (31) 201800009578 (32) 18.10.2018 (33) Italy</p> <hr/> <p>(51) B41J 3/407 B41J 15/04</p> <p>(11) EP3524437 (21) EP19156641.3 (47) 30.08.2023 (22) 12.02.2019</p> <p>(54) PRINTER</p> <p>(73) Toshiba Tec Kabushiki Kaisha (72) Watanabe, Osamu (31) 2018023093 (32) 13.02.2018 (33) Japan</p> <hr/> <p>(51) B41J 3/407 B41J 15/04 B41J 11/00 B41J 11/66</p>
--	--	---

B41J 11/70	(51) B41J 13/00	MARRENBACH, Jan
(11) EP4173833	B41J 29/38	REISING, Detlef
(21) EP22165165.6	B41J 11/00	SARRAFZADEGAN, Farhad
(47) 30.08.2023	B65H 7/02	DÜLME, Christian
(22) 29.03.2022	G03G 15/00	LORENZ, Stefan
(54) LABEL PRINTER AND LABEL	(11) EP3774365	MÄNNCHEN, Guido
PRINTING METHOD FOR PRECISE	(21) EP19841711.5	(31) 102019131750
POSITIONING THEREOF	(47) 30.08.2023	(32) 25.11.2019
(73) Beijing Supvan Electronic Technology	(87) US2019036697	(33) Germany
Co., Ltd.	30.01.2020	<hr/>
(72) Li, Jianguo	(22) 12.06.2019	(51) B41M 5/24
(31) 202111266785	(54) JAM DETECTION OF IMAGE FORMING	B41M 5/26
(32) 28.10.2021	APPARATUS	C03C 23/00
(33) China	(73) HEWLETT-PACKARD DEVELOPMENT	C23C 14/28
<hr/>	COMPANY, L.P.	C03C 17/32
(51) B41J 3/407	(72) PARK, Kiho	C03C 17/34
G09F 3/06	KIM, Hyoungil	C03C 17/36
G09F 3/20	SONG, Minkeun	C03C 17/38
(11) EP3807096	YOU, Yong-Ho	(11) EP3732054
(21) EP19728687.5	(31) 20180086701	(21) EP19717260.4
(47) 30.08.2023	(32) 25.07.2018	(47) 30.08.2023
(87) EP2019064630	(33) Korea (Republic)	(87) EP2019058725
19.12.2019	<hr/>	14.11.2019
(22) 05.06.2019	(51) B41M 1/42	(22) 05.04.2019
(54) PRINTER FOR PRINTING A CABLE	B41F 15/08	(54) METHOD FOR MARKING GLASS
MARKER STRIP, AND CABLE MARKER	B05C 19/04	PANELS, PREFERABLY SINGLE-PANE
STRIP THEREFOR	B05D 1/06	SAFETY GLASS PANELS
(73) Weidmüller Interface GmbH & Co. KG	B05D 7/24	(73) HEGLA boraident GmbH & Co. KG
(72) WIENEKE, Andreas	B41M 1/12	(72) RAINER, Thomas
DAHLMANN, Markus	B05D 3/12	(31) 102018207181
DOGAN, Faysal	B41F 15/36	(32) 08.05.2018
(31) 102018114397	B41F 15/40	(33) Germany
(32) 15.06.2018	B41M 1/22	<hr/>
(33) Germany	(11) EP3578374	(51) B41M 5/41
<hr/>	(21) EP18747116.4	D21H 19/36
(51) B41J 11/00	(47) 30.08.2023	D21H 19/82
(11) EP4025432	(87) JP2018003840	D21H 27/00
(21) EP20767882.2	09.08.2018	B41M 5/50
(47) 30.08.2023	(22) 05.02.2018	B41M 5/42
(87) IB2020058113	(54) POWDER FILM FORMING METHOD	(11) EP3741578
11.03.2021	AND POWDER FILM FORMING	(21) EP18910856.6
(22) 01.09.2020	DEVICE	(47) 30.08.2023
(54) PRINTING DEVICE	(73) Hitachi Zosen Corporation	(87) JP2018034788
(73) Ricoh Company, Ltd.	(72) FUKUI, Hideyuki	26.09.2019
(72) SAITOH, Motoaki	SUGIYO, Takeshi	(22) 20.09.2018
MIZUTANI, Yuuki	NISHIURA, Sousuke	(54) THERMAL TRANSFER IMAGE-
(31) 2019160416	(31) 2017019093	RECEIVING SHEET
(32) 03.09.2019	2017019089	(73) Dai Nippon Printing Co., Ltd.
(33) Japan	2017019085	(72) MATSUURA, Hiroshi
<hr/>	(32) 03.02.2017	(31) 2018054979
(51) B41J 11/00	03.02.2017	(32) 22.03.2018
B41J 15/04	03.02.2017	(33) Japan
B41J 25/00	(33) Japan	<hr/>
(11) EP3823837	Japan	(51) B41M 5/42
(21) EP19737773.2	Japan	B41M 5/385
(47) 30.08.2023	Japan	B41M 5/44
(87) EP2019069020	<hr/>	B41M 5/382
23.01.2020	(51) B41M 5/24	(11) EP3603987
(22) 15.07.2019	B41M 5/26	(21) EP18847786.3
(54) APPARATUS AND METHOD FOR	B41J 3/407	(47) 30.08.2023
INKJET PRINTING ON FLEXIBLE WEBS	(11) EP4065378	(87) JP2018007551
(73) Xeikon Manufacturing N.V.	(21) EP20816132.3	28.02.2019
(72) PRAET, Tomas	(47) 30.08.2023	(22) 28.02.2018
DE MONDT, Roel	(87) EP2020083245	(54) THERMAL TRANSFER SHEET
OP DE BEECK, Werner Jozef Johan	03.06.2021	(73) Dai Nippon Printing Co., Ltd.
DEPREZ, Lode Erik Dries	(22) 24.11.2020	(72) HIROKAWA Junko
VAN DE STRAETE, Herman Jan	(54) METHOD AND DEVICE FOR MARKING	IMAKURA Yuzu
Godelieve	ELECTRICAL APPLIANCES WHICH	(31) 2017161225
(31) 2021317	ARE ARRANGEABLE IN A ROW	(32) 24.08.2017
(32) 16.07.2018	(73) Weidmüller Interface GmbH & Co. KG	(33) Japan
(33) Netherlands	(72) LANGOSCH, Peter	<hr/>
		(51) B42D 15/00

B42D 15/04	19187327	29.05.2020
B42D 5/02	(32) 28.05.2020	29.05.2020
B42D 15/08	19.07.2019	29.05.2020
B65D 27/00	(33) European Patent Office (EPO)	29.05.2020
(11) EP4008562	European Patent Office (EPO)	29.05.2020
(21) EP20211001.1	(51) B44C 5/04	29.05.2020
(47) 30.08.2023	B32B 27/08	(33) United States of America
(22) 01.12.2020	B32B 27/20	United States of America
(54) PRINTED PRODUCT AND METHOD OF MANUFACTURING THE SAME	E04F 15/10	United States of America
(73) Wirtz Druck GmbH & Co. KG	E04F 15/16	United States of America
(72) Schmidt, Vinzenz	(11) EP3169532	United States of America
Schmidt, Jürgen	(21) EP15822018.6	United States of America
(51) B42D 25/24	(47) 30.08.2023	United States of America
B42D 25/337	(87) SE2015050782	United States of America
B42D 25/346	21.01.2016	United States of America
B42D 25/351	(22) 02.07.2015	United States of America
B42D 25/373	(54) METHOD TO PRODUCE A	(51) B44F 1/08
B42D 25/378	THERMOPLASTIC WEAR RESISTANT	G02B 1/06
B42D 25/382	FOIL	G02B 5/26
B42D 25/387	(73) Välinge Innovation AB	G02B 5/28
B42D 25/41	(72) LUNDBLAD, Christer	A41D 27/08
B42D 25/435	ZIEGLER, Göran	A43B 1/00
(11) EP3996930	HÅKANSSON, Niclas	A43B 3/00
(21) EP20734975.4	(31) 1550455	A63B 43/06
(47) 30.08.2023	1450895	(11) EP4107007
(87) EP2020068682	1450894	(21) EP21743601.3
14.01.2021	(32) 16.04.2015	(47) 30.08.2023
(22) 02.07.2020	16.07.2014	(87) US2021034781
(54) MULTI-PAGE PERSONALIZATION FOR A MULTI-PAGE SECURITY DOCUMENT	16.07.2014	02.12.2021
(73) Thales Dis France SAS	(33) Sweden	(22) 28.05.2021
(72) LESUR, Jean-Luc	Sweden	(54) STRUCTURALLY-COLORED ARTICLES AND METHODS FOR MAKING AND USING STRUCTURALLY-COLORED ARTICLES
(31) 19305931	Sweden	(73) Nike Innovate C.V.
(32) 11.07.2019	(51) B44F 1/08	(72) WANG, Yuanmin
(33) European Patent Office (EPO)	G02B 1/06	KOVEL, Kim
(51) B42D 25/41	G02B 5/26	GANTZ, Jeremy
B42D 25/435	G02B 5/28	(31) 202063052143 P
B42D 25/351	A41D 27/08	202063052135 P
(11) EP3999357	A43B 1/00	202063032090 P
(21) EP20753399.3	A43B 3/00	202063032084 P
(47) 30.08.2023	A63B 43/06	202063032081 P
(87) FR2020051268	(11) EP4139134	202063032076 P
21.01.2021	(21) EP21735039.6	202063032067 P
(22) 15.07.2020	(47) 30.08.2023	202063032064 P
(54) METHOD FOR MANUFACTURING A TWO-DIMENSIONAL COLOURED BAR CODE AND ASSOCIATED SECURITY DEVICE	(87) US2021034872	202063032061 P
(73) IDEMIA France	02.12.2021	202063032052 P
(72) AZUELOS, Paul	(22) 28.05.2021	(32) 15.07.2020
BERTHE, Benoît	(54) STRUCTURALLY-COLORED ARTICLES AND METHODS FOR MAKING AND USING STRUCTURALLY-COLORED ARTICLES	15.07.2020
(31) 1908087	(73) Nike Innovate C.V.	29.05.2020
(32) 17.07.2019	(72) KOVEL, Kim	29.05.2020
(33) France	GANTZ, Jeremy	29.05.2020
(51) B44C 1/24	WANG, Yuanmin	29.05.2020
B44C 5/04	(31) 202063052143 P	29.05.2020
(11) EP3999358	202063052135 P	29.05.2020
(21) EP20739403.2	202063032090 P	29.05.2020
(47) 30.08.2023	202063032084 P	29.05.2020
(87) EP2020070113	202063032076 P	(33) United States of America
28.01.2021	202063032067 P	United States of America
(22) 16.07.2020	202063032064 P	United States of America
(54) METHOD FOR PRODUCING A STRUCTURE ON A SURFACE	202063032061 P	United States of America
(73) Achilles veredelt GmbH	202063032052 P	United States of America
(72) HÖRNICKE, Stefan	(32) 15.07.2020	United States of America
(31) 20177147	15.07.2020	United States of America
	29.05.2020	United States of America
	29.05.2020	United States of America

(51) B60B 7/16 B60B 3/16 B60B 7/06 F16B 39/00 F16B 41/00	TRIPATHY, Ranjan HUT, Alain THURMAN, Derek W.	(54) NON-PNEUMATIC WHEEL HAVING POLYAMIDE SPOKES
(11) EP3760454	(31) 1908539	(73) Compagnie Générale des Etablissements Michelin
(21) EP19917533.2	(32) 26.07.2019	(72) RHYNE, Timothy, Brett
(47) 30.08.2023	(33) France	GAYLO, Ryan, Michael
(87) MX2019000061	(51) B60C 5/00	CRON, Steven, M.
12.11.2020	B60C 19/00	CHRISTENBURY, Damon, Lee
(22) 21.05.2019	(11) EP3900952	BOHN, Clayton, Jr.
(54) SAFETY DEVICE FOR VEHICLE ROLLING MEANS	(21) EP19901303.8	(51) B60C 11/03
(73) BLANCO BARRERA, Guadalupe Gildardo	(47) 30.08.2023	B60C 11/12
(72) BLANCO BARRERA, Guadalupe Gildardo	(87) JP2019027925	(11) EP3994013
(31) 2019005377	25.06.2020	(21) EP20747455.2
(32) 08.05.2019	(22) 16.07.2019	(47) 30.08.2023
(33) Mexico	(54) PNEUMATIC TIRE	(87) FR2020051163
(51) B60B 19/00	(73) BRIDGESTONE CORPORATION	07.01.2021
(11) EP4003753	(72) ISHIHARA Taiga	(22) 02.07.2020
(21) EP20746702.8	(31) 2018235694	(54) TYRE COMPRISING A TREAD
(47) 30.08.2023	(32) 17.12.2018	(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN
(87) IB2020056124	(33) Japan	(72) DURAND-GASSELIN, Benoit
04.02.2021	(51) B60C 5/00	BOURGEOIS, Frédéric
(22) 29.06.2020	B60C 19/12	MUHLHOFF, Olivier
(54) A SET OF A WHEEL AND A FRAME PART FOR A BICYCLE, AND A BICYCLE COMPRISING SUCH SET	B60C 19/00	(31) 1907322
(73) Polisport Plásticos, SA	(11) EP3900951	(32) 02.07.2019
(72) PEREIRA PINTO, Miguel Filipe	(21) EP19900811.1	(33) France
PINTO OLIVEIRA ARAÚJO, Pedro Jorge	(47) 30.08.2023	(51) B60C 11/24
(31) 2019115675	(87) JP2019027924	B60C 23/04
(32) 26.07.2019	25.06.2020	(11) EP3995328
(33) Portugal	(22) 16.07.2019	(21) EP21206605.4
(51) B60C 1/00	(54) PNEUMATIC TIRE	(47) 30.08.2023
C08K 5/54	(73) BRIDGESTONE CORPORATION	(22) 05.11.2021
C08K 3/36	(72) ISHIHARA, Taiga	(54) TIRE MONITORING SYSTEM AND TIRE MONITORING METHOD USING THE SAME
(11) EP3650245	(31) 2018235704	(73) Kumho Tire Co., Inc.
(21) EP18205722.4	(32) 17.12.2018	(72) KIM, Hyounjung
(47) 30.08.2023	(33) Japan	KIM, Hyoungseok
(22) 12.11.2018	(51) B60C 7/10	(31) 20200149296
(54) SULPHUR CROSS-LINKABLE RUBBER MIXTURE, VULCANIZATE AND VEHICLE TYRE	B60B 25/04	(32) 10.11.2020
(73) Continental Reifen Deutschland GmbH	B60B 25/00	(33) Korea (Republic)
(72) Recker, Carla	B60B 25/20	(51) B60C 13/00
Müller, Norbert	B60C 7/14	(11) EP3725559
Hoffmann-Jacobsen, Kerstin	B60C 7/24	(21) EP18887939.9
Schwekendiek, Kirsten	(11) EP3829897	(47) 30.08.2023
(51) B60C 1/00	(21) EP19841879.0	(87) JP20180444786
C08L 9/06	(47) 30.08.2023	20.06.2019
(11) EP4004102	(87) US2019041762	(22) 05.12.2018
(21) EP20739650.8	30.01.2020	(54) TIRE
(47) 30.08.2023	(22) 15.07.2019	(73) Bridgestone Corporation
(87) EP2020069496	(54) REUSABLE RIM FOR NON- PNEUMATIC TIRES	(72) IWABUCHI, Sotaro
04.02.2021	(73) Bridgestone Americas Tire Operations, LLC	FUKUNAGA, Takayuki
(22) 10.07.2020	(72) STARK, Louis J.	(31) 2017239749
(54) TIRE INCORPORATING A RUBBER COMPOSITION INCLUDING A SPECIFIC HYDROCARBON RESIN	(31) 201862711030 P	(32) 14.12.2017
(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN	(32) 27.07.2018	(33) Japan
(72) BONNETTE, Fabien	(33) United States of America	(51) B60C 13/00
DE GAUDEMARIS, Benoit	(51) B60C 7/14	(11) EP3967523
GEORJON, Olivier J. F.	B60C 7/18	(21) EP21195833.5
COPEY, Laurent	B60C 7/24	(47) 30.08.2023
	B60C 7/26	(22) 09.09.2021
	B60B 9/26	(54) TYRE
	B60B 1/02	(73) Sumitomo Rubber Industries, Ltd.
	B60B 1/04	(72) SAKAKIBARA, YUTA
	(11) EP3648984	YUAN, SUXIANG
	(21) EP17739836.9	NAKAJIMA, TOKUHIRO
	(47) 30.08.2023	OGIHARA, SAWA
	(87) US2017040958	HAMADA, TOMOHIRO
	10.01.2019	(31) 2021141569
	(22) 06.07.2017	

2020153820	(73) Bridgestone Corporation	(33) Germany
(32) 31.08.2021	(72) KIMURA, Takeshi	(51) B60G 7/00
14.09.2020	(31) 2017240072	(11) EP3936354
(33) Japan	(32) 14.12.2017	(21) EP20382611.0
Japan	(33) Japan	(47) 30.08.2023
(51) B60C 23/04	(51) B60D 1/06	(22) 08.07.2020
(11) EP3984786	B60D 1/54	(54) CHASSIS COMPONENT FOR A
(21) EP20465570.8	B60D 1/62	MOTOR VEHICLE
(47) 30.08.2023	B60D 1/24	(73) Autotech Engineering S.L.
(22) 14.10.2020	(11) EP3860869	(72) Bedson, Jamie
(54) METHOD OF DETERMINING A LEFT- OR-RIGHT SIDE INSTALLATION	(21) EP19779458.9	Johnson, Alice
POSITION OF A TRAILER WHEEL	(47) 30.08.2023	Bone, Gareth
(73) Continental Automotive Technologies GmbH	(87) EP2019076070	(51) B60G 7/00
(72) Catanet, Radu - c/o Continental Automotive GmbH	09.04.2020	F16C 11/06
Cimponeriu, Andrei-Stefan - c/o Continental Automotive GmbH	(22) 26.09.2019	B60G 21/055
(51) B60C 23/04	(54) TRAILER COUPLING	(11) EP3604837
G01L 17/00	(73) WESTFALIA - Automotive GmbH	(21) EP18774175.6
G01M 17/013	(72) SIELHORST, Bernhard	(47) 30.08.2023
(11) EP3659830	ANGERMANN, Kay	(87) JP2018011813
(21) EP18215403.9	GRINGEL, Raphael	04.10.2018
(47) 30.08.2023	(31) 102018124549	(22) 23.03.2018
(22) 30.11.2007	(32) 04.10.2018	(54) BALL JOINT, STABILIZER LINK USING
(54) METHOD OF IDENTIFYING POSITIONS OF WHEEL MODULES	(33) Germany	BALL JOINT, AND STABILIZER WITH
(73) Volvo Lastvagnar AB	(51) B60D 1/06	STABILIZER LINK
(72) CARRESJÖ, Erik	B60D 1/58	(73) NHK Spring Co., Ltd.
HASSELBERG, Per	B60D 1/62	(72) KURODA, Shigeru
(51) B60C 25/138	F16L 3/10	(31) 2017064808
B60C 25/05	(11) EP3835092	(32) 29.03.2017
(11) EP4067121	(21) EP20213395.5	(33) Japan
(21) EP22161328.4	(47) 30.08.2023	(51) B60G 9/00
(47) 30.08.2023	(22) 11.12.2020	B60G 11/04
(22) 10.03.2022	(54) FASTENING DEVICE FOR FIXING A LINE TO A TRAILER COUPLING	B60G 11/113
(54) TIRE CHANGER APPARATUS AND PROCESS FOR MOUNTING AND DISMOUNTING TIRES	(73) WESTFALIA - Automotive GmbH	B60G 11/10
(73) Butler Engineering and Marketing S.p.A. Abbreviabile in "Butler S.p.A."	(72) Gerling, Hubert	B60G 11/46
(72) PELLACANI, Gianfranco	(31) 102019134313	B60G 11/44
CASALETTI, Stefano	(32) 13.12.2019	B60G 9/02
ARTIOLI, Mario	(33) Germany	B60G 11/107
RABITTI, Gianni	(51) B60D 5/00	(11) EP3820724
(31) 202100005828	B60P 1/44	(21) EP19759743.8
(32) 12.03.2021	B60P 3/20	(47) 30.08.2023
(33) Italy	(11) EP3988351	(87) IB2019055878
(51) B60C 99/00	(21) EP21184235.6	16.01.2020
B60C 19/00	(47) 30.08.2023	(22) 10.07.2019
B60C 23/20	(22) 07.07.2021	(54) VEHICLE COMPRISING A SUSPENSION SYSTEM
G01B 11/22	(54) ARTICULATED TRUCK WITH LOADING BRIDGE BETWEEN TOWING VEHICLE AND TRAILER	(73) Iveco S.p.A.
G01M 17/02	(73) Rohr Spezialfahrzeuge GmbH	(72) PEREIRA DE LEMOS, Jose Francivaldo
B60S 5/00	(72) Janker, Wilhelm	(31) 201800007078
G01L 17/00	(31) 202020106071 U	(32) 10.07.2018
(11) EP3725571	(32) 23.10.2020	(33) Italy
(21) EP18889566.8	(33) Germany	(51) B60G 11/27
(47) 30.08.2023	(51) B60G 7/00	B60G 17/019
(87) JP2018027348	(11) EP3652003	(11) EP3452311
20.06.2019	(21) EP18743390.9	(21) EP17710476.7
(22) 20.07.2018	(47) 30.08.2023	(47) 30.08.2023
(54) SYSTEM FOR MANAGING TIRES FOR CONSTRUCTION AND MINING VEHICLES, AND METHOD FOR MANAGING TIRES FOR CONSTRUCTION AND MINING VEHICLES	(87) DE2018100621	(87) EP2017000316
	17.01.2019	09.11.2017
	(22) 06.07.2018	(22) 10.03.2017
	(54) AXLE LINK AND AXLE SUSPENSION ARRANGEMENT FOR A VEHICLE	(54) AIR-SUSPENDED VEHICLE AND METHOD FOR ELECTRONIC LEVEL CONTROL OF AN AIR-SUSPENDED VEHICLE
	AXLE	(73) ZF CV Systems Europe BV
	(73) BPW Bergische Achsen KG	(72) SWOBODA, Marek
	(72) PACK, Peter	GRÖGER, Jens
	MICHELIS, Manfred	BORMANN, Dirk
	(31) 102017115692	(31) 102016005539
	(32) 12.07.2017	(32) 04.05.2016

(33) Germany	(72) BEZEALU, Loic	B60W 30/192
(51) B60G 17/056	MARRY, Stefan	B60W 30/20
F15B 11/042	HODIESNE, Thierry	(11) EP3919302
B60G 17/015	(31) 1856921	(21) EP21168595.3
B60G 17/052	(32) 25.07.2018	(47) 30.08.2023
F04B 25/00	(33) France	(22) 15.04.2021
F04B 41/06	(51) B60J 11/06	(54) CONTROL SYSTEM FOR HYBRID
F04B 49/08	(11) EP3851308	VEHICLE
F04B 49/22	(21) EP21151215.7	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
F15B 21/048	(47) 30.08.2023	(72) OKAMURA, Yukari
F15B 21/041	(22) 12.01.2021	EBUCHI, Hiroaki
(11) EP3619066	(54) COVER FOR A HOOD OF A MOTOR-	(31) 2020095275
(21) EP18719481.6	VEHICLE	(32) 01.06.2020
(47) 30.08.2023	(73) Confezioni Andrea Italia S.r.l.	(33) Japan
(87) EP2018059279	(72) TAVELLI, Andrea	(51) B60K 6/48
08.11.2018	FIDANZA, Federico	B60K 23/04
(22) 11.04.2018	(31) 202000000865	B60K 17/16
(54) PRESSURE CONTROL SYSTEM	(32) 17.01.2020	F16H 48/36
HAVING A THROTTLE ASSEMBLY	(33) Italy	B60K 6/52
(73) ZF CV Systems Europe BV	(51) B60K 1/02	B60K 7/00
(72) SCHARPENBERG, Jörg	B60L 50/10	(11) EP3538389
STABENOW, Uwe	B60L 50/16	(21) EP17805134.8
(31) 102017004414	B60L 50/51	(47) 30.08.2023
(32) 05.05.2017	B60L 58/10	(87) EP2017079130
(33) Germany	B60L 58/12	17.05.2018
(51) B60J 7/06	H02J 7/04	(22) 14.11.2017
B62D 33/00	(11) EP3891001	(54) VEHICLE DRIVE SYSTEM
(11) EP3768535	(21) EP19892350.0	(73) BorgWarner Sweden AB
(21) EP19770480.2	(47) 30.08.2023	(72) NILSSON, Kristoffer
(47) 30.08.2023	(87) US2019064391	(31) 1651484
(87) US2019023005	11.06.2020	(32) 14.11.2016
26.09.2019	(22) 04.12.2019	(33) Sweden
(22) 19.03.2019	(54) HIGH SPEED OPERATION OF AN	(51) B60K 28/06
(54) DEPLOYMENT SYSTEM FOR ROLLING	ELECTRIC MACHINE	A61B 5/18
TARP SYSTEMS	(73) BAE Systems Controls Inc.	G08G 1/16
(73) TARPSTOP, LLC	(72) BOECKE, Matthew, S.	B60Q 9/00
(72) BJORUM, Justin	LYONS, Arthur, P.	G08B 21/06
CALLAHAN, Joseph, G.	SEHN, Brian, S.	(11) EP3270764
WESCHKE, Kenneth, R., Jr.	(31) 201816210118	(21) EP16710249.0
(31) 201862721194 P	(32) 05.12.2018	(47) 30.08.2023
201862644884 P	(33) United States of America	(87) EP2016055892
(32) 22.08.2018	(51) B60K 1/04	22.09.2016
19.03.2018	(11) EP3988359	(22) 17.03.2016
(33) United States of America	(21) EP20203844.4	(54) SITUATIONAL AWARENESS
United States of America	(47) 30.08.2023	MONITORING METHOD AND
(51) B60J 7/12	(22) 26.10.2020	APPARATUS
(11) EP4015269	(54) AN ENERGY STORAGE MOUNTING	(73) Jaguar Land Rover Limited
(21) EP21215302.7	SYSTEM	(72) DAWSON, Mark
(47) 30.08.2023	(73) VOLVO TRUCK CORPORATION	O'DONOGHUE, Jim
(22) 16.12.2021	(72) RAGOT, Sebastian	(31) 201504600
(54) SOFT TOP FOR A CONVERTIBLE	SVENSSON, Jonatan	(32) 18.03.2015
(73) Valmet Automotive Oy	(51) B60K 6/20	(33) United Kingdom
(72) Hollenbeck, Sven	B60K 6/445	(51) B60K 35/00
(31) 102020134122	B60W 10/02	B60Q 1/50
(32) 18.12.2020	B60W 10/06	B60K 37/06
(33) Germany	B60W 10/08	B60R 19/48
(51) B60J 10/80	B60W 10/115	B60K 37/04
B60J 10/70	B60W 20/10	B60R 19/52
B60Q 3/70	B60W 20/11	B60R 19/50
(11) EP3826867	B60K 6/365	(11) EP3944978
(21) EP19734436.9	B60K 6/387	(21) EP21187710.5
(47) 30.08.2023	B60K 6/54	(47) 30.08.2023
(87) EP2019068038	B60W 20/40	(22) 26.07.2021
30.01.2020	B60W 30/19	(54) VEHICLE INFORMATION DISPLAY
(22) 04.07.2019	B60W 50/00	APPARATUS AND CONTROL METHOD
(54) DOOR SEAL CARRYING A LIGHT	B60W 10/26	THEREOF
SOURCE	B60W 20/13	(73) Hyundai Mobis Co., Ltd.
(73) Renault s.a.s	B60K 6/38	(72) KIM, Do Hyung

KIM, Moo Kwan	(22) 13.11.2018	FLAUM, Nikolai
JIN, Tae Kyoung	(54) ELECTRICAL DEVICE FOR AN	WALLBAUM, Torsten
(31) 20200094297	ELECTRIC OR HYBRID VEHICLE	HESEDING, Johannes
(32) 29.07.2020	(73) Valeo eAutomotive France SAS	(31) 102019119787
(33) Korea (Republic)	(72) LAMARCHE, Anthony	(32) 22.07.2019
(51) B60K 37/06	PARIGOT, Baptiste	(33) Germany
(11) EP4121315	GILET, Olivier	(51) B60L 53/10
(21) EP21752166.5	(31) 1761402	H02J 7/00
(47) 30.08.2023	(32) 30.11.2017	(11) EP3888969
(87) IB2021056178	(33) France	(21) EP21163393.8
13.01.2022	(51) B60L 3/12	(47) 30.08.2023
(22) 09.07.2021	B60L 5/00	(22) 18.03.2021
(54) ASSISTANCE TO A DRIVER OF A	B60L 50/53	(54) MULTIPLE CHARGING DEVICE FOR
MOBILITY VEHICLE FOR LEARNING	B60M 3/04	CHARGING MULTIPLE BATTERIES
FEATURES OF THE MOBILITY	(11) EP3766719	(73) STILL GmbH
VEHICLE	(21) EP20186498.0	(72) HOFFMANN, Ekkehard
(73) C.R.F. Società Consortile per Azioni	(47) 30.08.2023	(31) 102020109212
(72) DEREGIBUS, Enrica	(22) 17.07.2020	(32) 02.04.2020
ROSSO, Giovanni	(54) OPERATING A RAILWAY VEHICLE	(33) Germany
ZOLDAN, Cristina	WHEN PASSING SEPARATION POINTS	(51) B60L 53/12
DAMIANI, Sergio	IN A VEHICLE EXTERNAL POWER	(11) EP3494005
DE STEPHANIS, Alessio	SUPPLY	(21) EP17754506.8
(31) 202000016741	(73) Bombardier Transportation GmbH	(47) 30.08.2023
(32) 09.07.2020	(72) Maaß, Jörg-Torsten	(87) US2017042714
(33) Italy	(31) 102019210770	08.02.2018
(51) B60K 37/06	(32) 19.07.2019	(22) 19.07.2017
G06F 3/0482	(33) Germany	(54) VEHICLE CHARGING LANES
G06F 3/0481	(51) B60L 7/24	(73) HERE Global B.V.
(11) EP3456576	B60L 3/00	(72) NELSON, Scott, David
(21) EP18182963.1	B60T 7/12	(31) 201615226401
(47) 30.08.2023	B60T 8/17	(32) 02.08.2016
(22) 11.07.2018	B60W 30/09	(33) United States of America
(54) VEHICLE CONTROL DEVICE AND	G08G 1/16	(51) B60L 53/124
VEHICLE INCLUDING THE SAME	(11) EP3127737	B60L 53/126
(73) LG Electronics Inc.	(21) EP15772791.8	(11) EP3369605
(72) HWANG, Inyoung	(47) 30.08.2023	(21) EP18157567.1
KIM, Sanga	(87) JP2015052256	(47) 30.08.2023
JEON, Taeyoung	08.10.2015	(22) 20.02.2018
LEE, Kyoungha	(22) 28.01.2015	(54) CHARGEABILITY PRESENTING
KIM, Kangmin	(54) OPERATION CONTROL SYSTEM FOR	METHOD AND CHARGEABILITY
(31) 20170118893	VEHICLE, VEHICLE, AND PROGRAM	PRESENTING SYSTEM
(32) 15.09.2017	(73) Hitachi Astemo, Ltd.	(73) Panasonic Intellectual Property
(33) Korea (Republic)	(72) UYAMA Mikio	Management Co., Ltd.
(51) B60L 3/00	INNAMI Toshiyuki	(72) SAWAI, Tetsuro
G01R 31/396	YAMAKADO Makoto	NISHIDA, Yoichi
G01R 31/3835	SASAKI Mitsuhide	(31) 2017040361
B60L 58/21	TAKAHASHI Junya	(32) 03.03.2017
(11) EP3820729	NAGATSUKA Keiichiro	(33) Japan
(21) EP19729283.2	(31) 2014072545	(51) B60L 53/126
(47) 30.08.2023	(32) 31.03.2014	B60L 53/30
(87) EP2019064999	(33) Japan	B60L 53/38
16.01.2020	(51) B60L 15/20	B60L 53/39
(22) 07.06.2019	B60L 50/60	H02J 50/10
(54) METHOD FOR OPERATING A	B60L 15/38	H01F 38/14
BATTERY MODULE	B60L 15/32	H02J 50/60
(73) Robert Bosch GmbH	B60L 50/61	H02J 50/90
(72) SCHMIDT, Alexander	B62D 59/04	H02J 50/40
WOLL, Christoph	(11) EP4003774	H02J 7/00
SHEN, Tunan	(21) EP20740264.5	B60L 9/00
(31) 102018211724	(47) 30.08.2023	G01R 33/02
(32) 13.07.2018	(87) EP2020069206	H04B 5/00
(33) Germany	28.01.2021	H02J 7/02
(51) B60L 3/00	(22) 08.07.2020	G08G 1/056
H01R 13/703	(54) METHOD AND DEVICE FOR	(11) EP2923428
H01R 12/57	ACTUATING AN ELECTRICAL DRIVE	(21) EP13854136.2
(11) EP3492301	OF A TRAILER VEHICLE	(47) 30.08.2023
(21) EP18205990.7	(73) ZF CV Systems Global GmbH	(87) NZ2013000202
(47) 30.08.2023	(72) RICKE, Janik	15.05.2014

(22) 12.11.2013	B60L 58/27	(33) France
(54) VEHICLE OR MOVING OBJECT DETECTION	B60L 58/26 B60L 58/12	(51) B60N 2/90 B60N 2/56 B60N 2/70
(73) Auckland UniServices Limited	(11) EP3919320	(11) EP3661805
(72) BOYS, John Talbot	(21) EP20850104.9	(21) EP18752571.2
(31) 60356612	(47) 30.08.2023	(47) 30.08.2023
(32) 12.11.2012	(87) CN2020103845	(87) FR2018051722
(33) New Zealand	11.02.2021	07.02.2019
(51) B60L 53/14	(22) 23.07.2020	(22) 09.07.2018
B60L 53/30	(54) THERMAL MANAGEMENT METHOD FOR BATTERY PACK	(54) MULTIFUNCTION SEAT TRIM FOR MOTOR VEHICLE
B60L 53/35	(73) Contemporary Amperex Technology Co., Limited	(73) PSA Automobiles SA
B25J 15/00	(72) SONG, Yurui	(72) MARTIN, Philippe
B25J 18/00	WU, Xingyuan	OUACHEE, Hervé
B25J 19/00	LI, Yanru	COMBEAU, Frederic
(11) EP3763557	(31) 201910716195	THIEL, Marc
(21) EP20184129.3	(32) 05.08.2019	VOITOT, Jean
(47) 30.08.2023	(33) China	DAVID, Eric
(22) 06.07.2020	(51) B60N 2/07	(31) 1757367
(54) AUTOMATED CONNECTION OF A CHARGING CONNECTOR TO A CHARGING INTERFACE OF A VEHICLE	B60N 2/08	(32) 01.08.2017
(73) VOLKSWAGEN AG	(11) EP3964386	(33) France
KUKA Deutschland GmbH	(21) EP21190061.8	(51) B60N 3/10
(72) Schütz, Daniel	(47) 30.08.2023	G06Q 30/06
Settele, Norbert	(22) 06.08.2021	(11) EP3956173
(31) 102019210042	(54) SEAT-SLIDING APPARATUS FOR VEHICLE	(21) EP20708466.6
(32) 08.07.2019	(73) Hyundai Transys Inc.	(47) 30.08.2023
(33) Germany	(72) SHIM, Sung Min	(87) EP2020055259
(51) B60L 53/16	HWANG, Seong Jun	22.10.2020
B60L 53/18	KIM, Gyong Min	(22) 28.02.2020
B60L 50/20	(31) 20200111585	(54) METHOD FOR OPERATING A STORAGE SYSTEM FOR A PRODUCT IN A MOTOR VEHICLE, AND STORAGE SYSTEM
(11) EP3696011	(32) 02.09.2020	(73) Mercedes-Benz Group AG
(21) EP20156452.3	(33) Korea (Republic)	(72) RAKOW, Momme
(47) 30.08.2023	(51) B60N 2/50	(31) 102019002862
(22) 10.02.2020	B60N 2/02	(32) 17.04.2019
(54) CHARGING SYSTEM AND METHOD OF A BATTERY OF AN ELECTRIC VEHICLE	B60N 2/18	(33) Germany
(73) Ferrari, Massimo	B64D 11/06	(51) B60P 1/02
(72) Ferrari, Massimo	(11) EP3600957	B60P 3/07
(31) 202000002455	(21) EP18708688.9	B60P 3/36
201900002003	(47) 30.08.2023	(11) EP4112375
(32) 07.02.2020	(87) EP2018055305	(21) EP21183118.5
12.02.2019	27.09.2018	(47) 30.08.2023
(33) Italy	(22) 05.03.2018	(22) 01.07.2021
Italy	(54) PASSENGER SEAT WITH AN EXTENDABLE SEATING ELEMENT AND A PASSENGER CABIN	(54) MOTOR VEHICLE, IN PARTICULAR MOBILE HOME
(51) B60L 53/16	(73) Airbus Operations GmbH	(73) Volkner, Gerhard
B60L 53/31	(72) MEISTER, Juergen	(72) VOLKNER, Gerhard
B62H 3/04	CORDES, Frank	(51) B60P 1/64
B62J 45/00	(31) 102017204894	(11) EP3822118
B62K 3/00	(32) 23.03.2017	(21) EP19209691.5
(11) EP3831643	(33) Germany	(47) 30.08.2023
(21) EP20208853.0	(51) B60N 2/879	(22) 18.11.2019
(47) 30.08.2023	B29C 44/12	(54) A HOOKLIFT ARRANGEMENT, A VEHICLE, AND A METHOD IN RELATION THERETO
(22) 20.11.2020	B29L 31/30	(73) Hiab AB
(54) ELECTRIC ROLLER CHARGING STATION	(11) EP3808598	(72) HYTTINEN, Hannu
(73) Westnetz GmbH	(21) EP20200025.3	(51) B60P 3/07
(72) Senner, Till	(47) 30.08.2023	B60P 3/36
Puhe, Frederik	(22) 05.10.2020	B60P 1/02
Göbeler, Miriam	(54) METHOD FOR MANUFACTURING A SEAT HEADREST PROVIDED WITH LOUDSPEAKERS	(11) EP4112377
Kammering, Hanna	(73) Renault s.a.s	(21) EP21183135.9
Sturm, Michaela	(72) MARTIN-CALVO, Fernando	(47) 30.08.2023
(31) 102019133041	CHHEANG, Nakry	(22) 01.07.2021
(32) 04.12.2019	(31) 1911611	
(33) Germany	(32) 17.10.2019	
(51) B60L 58/24		

(54) MOTOR VEHICLE, IN PARTICULAR MOBILE HOME	IBÁÑEZ, Rubén ESCUADERO, Jesús	United States of America
(73) Volkner, Gerhard	(51) B60Q 5/00	(51) B60R 1/078
(72) Volkner, Gerhard	B60R 21/203	(11) EP3915839
(51) B60P 3/32	B62D 1/04	(21) EP21176069.9
B62D 21/00	(11) EP3891017	(47) 30.08.2023
B62D 33/04	(21) EP19827628.9	(22) 26.05.2021
B62D 21/15	(47) 30.08.2023	(54) ASSEMBLY FOR ATTACHING A REAR VIEW MIRROR TO A VEHICLE
(11) EP3828031	(87) EP2019083596	(73) Clearview Property Management Pty Ltd.
(21) EP20182594.0	11.06.2020	(72) MCCORMACK, Paul
(47) 30.08.2023	(22) 04.12.2019	COWAN, Michael
(22) 19.06.2020	(54) HORN FOR A STEERING WHEEL, STEERING WHEEL HAVING A HORN OF THIS TYPE, AND PRODUCTION METHOD	(31) 2020901741
(54) LEISURE VEHICLE WITH RESIDENCE MODULE	(73) Dalphi Metal España, S.A.	(32) 27.05.2020
(73) Erwin Hymer Group SE	(72) GRAÑA MENDUÍÑA, Joaquín	(33) Australia
(72) Wulf, Mathis	(31) 102018131324	(51) B60R 7/06
Weltjen, Martin	(32) 07.12.2018	(11) EP4011705
Kaiser, Ria	(33) Germany	(21) EP20849265.2
Kasten, Ole	(51) B60R 1/00	(47) 30.08.2023
(31) 102019116697	(11) EP4035943	(87) JP2020028631
(32) 19.06.2019	(21) EP22161381.3	11.02.2021
(33) Germany	(47) 30.08.2023	(22) 27.07.2020
(51) B60Q 1/00	(22) 20.10.2017	(54) DRAWER TYPE STORAGE BOX
B60Q 1/26	(54) DISPLAY METHOD AND DISPLAY DEVICE	(73) Marelli Corporation
B60Q 1/30	(73) Panasonic Intellectual Property Corporation of America	(72) KOBAYASHI Yousuke
(11) EP3912861	(72) MATSUNOBU, Toru	(31) 2019143557
(21) EP21174590.6	KOYAMA, Tatsuya	(32) 05.08.2019
(47) 30.08.2023	NISHI, Takahiro	(33) Japan
(22) 19.05.2021	SUGIO, Toshiyasu	(51) B60R 7/06
(54) FOLDING SIGNALLING RAMP FOR AN AGRICULTURAL MACHINE, SUCH AS A PLOUGH, AND AGRICULTURAL MACHINE EQUIPPED WITH SUCH A RAMP	TOMA, Tadamasa	(11) EP4107034
(73) Kuhn-Huard S.A.S	YOSHIKAWA, Satoshi	(21) EP20708442.7
(72) BUTIN, Cyril	(31) 201662415645 P	(47) 30.08.2023
DUCROQUET, Frédéric	(32) 01.11.2016	(87) EP2020054360
DELAUNAY, Frank	(33) United States of America	26.08.2021
(31) 2005132	(51) B60R 1/00	(22) 19.02.2020
(32) 20.05.2020	(11) EP4105083	(54) A MODULAR STORAGE DEVICE FOR A VEHICLE CAB
(33) France	(21) EP21180263.2	(73) VOLVO TRUCK CORPORATION
(51) B60Q 1/26	(47) 30.08.2023	(72) SHADFAR, Arianna
B60Q 1/04	(22) 18.06.2021	ALLIO, Stephane
B62D 65/02	(54) MONITORING SYSTEM FOR A VEHICLE	(51) B60R 13/02
B62D 65/16	(73) Volvo Car Corporation	B60J 5/04
(11) EP3988392	(72) GUNNARSSON, Daniel	B60R 13/04
(21) EP20203156.3	(51) B60R 1/04	(11) EP3996954
(47) 30.08.2023	B60R 1/08	(21) EP20750700.5
(22) 21.10.2020	B60R 1/12	(47) 30.08.2023
(54) METHOD TO MOUNT A COMPONENT ON A HATCH OF A MOTOR VEHICLE	(11) EP4003787	(87) FR2020051210
(73) FCA Italy S.p.A.	(21) EP20751478.7	14.01.2021
(72) MASCIAVE', Vincenzo	(47) 30.08.2023	(22) 08.07.2020
(51) B60Q 3/51	(87) EP2020070820	(54) DEVICE FOR FASTENING A MOTOR VEHICLE DOOR FRAME LATERAL EDGE TRIM PIECE
B60Q 3/54	04.02.2021	(73) PSA Automobiles SA
B60Q 3/60	(22) 23.07.2020	(72) JAOUEN, Jean Sebastien
B60Q 3/74	(54) REARVIEW DEVICE FOR VEHICLES WITH CIRCUIT BOARD	TIROLE, Sebastien
(11) EP4023499	(73) Motherson Innovations Company Limited	GUILLY, Xavier
(21) EP20383171.4	(72) HONG, Won Sik	GRUNCHEC, Gregory
(47) 30.08.2023	HERRMANN, Andreas	(31) 1907779
(22) 29.12.2020	HAN, Chang Kyun	(32) 11.07.2019
(54) VEHICLE HEADLINER WITH AN INTEGRATED LIGHTING MODULE HAVING A SPOTLIGHTING FUNCTION AND MANUFACTURING PROCESS THEREOF	YIM, Cheol Ho	(33) France
(73) Grupo Antolin-Ingenieria, S.A.	(31) 102019120396	(51) B60R 21/01
(72) CADIÑANOS, Javier	201916524953	(11) EP3623228
	(32) 29.07.2019	(21) EP18194195.6
	29.07.2019	(47) 30.08.2023
	(33) Germany	(22) 13.09.2018
		(54) A VEHICLE SAFETY SYSTEM AND A METHOD OF CONTROLLING A VEHICLE SAFETY SYSTEM

(73) Veoneer Sweden Safety Systems AB	(33) Japan	(11) EP3628552
(72) Patel, Bankim Caclard, Laurent Wantuck, Ron	(51) B60S 1/60 B08B 3/02 G01N 21/49 B60S 1/56 B60R 11/04	(21) EP19209999.2 (47) 30.08.2023 (22) 23.06.2016 (54) WASHING DEVICE FOR A VEHICLE WASHING SYSTEM, AND VEHICLE WASHING SYSTEM
(51) B60R 21/207 (11) EP3848253 (21) EP19858231.4 (47) 30.08.2023 (87) JP2019028452 12.03.2020 (22) 19.07.2019 (54) SIDE AIRBAG DEVICE (73) Autoliv Development AB (72) YAMADA, Atsushi (31) 2018166183 (32) 05.09.2018 (33) Japan	(11) EP3686068 (21) EP18859749.6 (47) 30.08.2023 (87) JP2018033961 28.03.2019 (22) 13.09.2018 (54) VEHICLE SENSOR SYSTEM, VEHICLE PROVIDED WITH SAID VEHICLE SENSOR SYSTEM (73) Koito Manufacturing Co., Ltd. (72) SAKAI, Masaru (31) 2017180323 2017180322 2017180321 2017180320 (32) 20.09.2017 20.09.2017 20.09.2017 20.09.2017 (33) Japan Japan Japan Japan	(73) Alfred Kärcher SE & Co. KG (72) Haberl, Bernd (31) 102015111023 (32) 08.07.2015 (33) Germany
(51) B60R 22/03 (11) EP4051544 (21) EP20792623.9 (47) 30.08.2023 (87) EP2020078882 06.05.2021 (22) 14.10.2020 (54) SEAT BELT PRESENTER AND VEHICLE SEAT WITH A SEAT BELT PRESENTER (73) Autoliv Development AB (72) RETTIG, Marcel JABUSCH, Ronald (31) 102019216705 (32) 30.10.2019 (33) Germany	(31) 2017180323 2017180322 2017180321 2017180320 (32) 20.09.2017 20.09.2017 20.09.2017 20.09.2017 (33) Japan Japan Japan Japan	(51) B60T 1/08 B60T 1/087 B60T 1/093 B60T 1/12 F16D 57/00 F16D 57/02 F16D 57/06 H02K 5/12 H02K 7/10 H02K 7/102 (11) EP4011720 (21) EP20213335.1 (47) 30.08.2023 (22) 11.12.2020 (54) AN ELECTRIC MACHINE FOR A VEHICLE (73) VOLVO TRUCK CORPORATION (72) FOLKESSON, Johan
(51) B60R 25/10 B60R 16/03 B60R 25/24 (11) EP3999385 (21) EP20750698.1 (47) 30.08.2023 (87) FR2020051195 21.01.2021 (22) 06.07.2020 (54) SECURING THE STARTING OF A VEHICLE WITH A WARNING DEVICE (73) PSA Automobiles SA (72) JAMPI, Didier BELLABAS, Alia MAIGNIEN, Christophe COPIER, Nathalie (31) 1908034 (32) 17.07.2019 (33) France	(51) B60S 1/64 B60N 2/58 B60N 2/60 (11) EP3898353 (21) EP19829458.9 (47) 30.08.2023 (87) EP2019084925 25.06.2020 (22) 12.12.2019 (54) INTERIOR TRIM FOR A VEHICLE AND METHOD FOR CLEANING A SURFACE OF AN INTERIOR TRIM IN A VEHICLE, VEHICLE SEAT, AND VEHICLE (73) VOLKSWAGEN AKTIENGESELLSCHAFT (72) HEROLD, Stephan TOPPEL, Kristoph SCHÜTZ, Daniel OTREMBA, Maik TORO RAMOS, Juan Mauricio (31) 102018222652 (32) 20.12.2018 (33) Germany	(51) B60T 7/04 B60T 7/10 B60T 13/74 F16D 55/226 (11) EP3974265 (21) EP20198946.4 (47) 30.08.2023 (22) 29.09.2020 (54) MOTOR TRANSMISSION UNIT FOR ELECTRONIC PARKING BRAKE DEVICE (73) Kema Enterprise Co., Ltd. (72) Chen, Chung Hao
(51) B60S 1/08 B60H 1/00 B60Q 1/14 B60W 60/00 (11) EP3763578 (21) EP20185130.0 (47) 30.08.2023 (22) 10.07.2020 (54) VEHICLE-MOUNTED EQUIPMENT CONTROL DEVICE (73) TOYOTA JIDOSHA KABUSHIKI KAISHA (72) UEDA, Kazuhiko SUGIMOTO, Tsuyoshi ISHIKAWA, Daigo (31) 2019129534 (32) 11.07.2019	(51) B60S 3/04 (11) EP4003794 (21) EP19746059.5 (47) 30.08.2023 (87) EP2019069775 28.01.2021 (22) 23.07.2019 (54) GANTRY DEVICE FOR A VEHICLE TREATMENT SYSTEM, AND VEHICLE TREATMENT SYSTEM (73) Alfred Kärcher SE & Co. KG (72) KNISEL, Bernd HEINZE, Michael (51) B60S 3/06 A46B 13/00 A46B 7/06	(54) AUTOMATIC BRAKE DEVICE FOR INDUSTRIAL VEHICLE AND INDUSTRIAL VEHICLE HAVING THE SAME (73) Kabushiki Kaisha Toyota Jidoshokki (72) TAKENAKA, Takaaki (31) 2020156107 (32) 17.09.2020 (33) Japan (51) B60T 7/08 B60T 8/36 B60T 13/68 B60T 8/88 (11) EP3924225 (21) EP20705890.0 (47) 30.08.2023 (87) EP2020052928

20.08.2020	(21) EP19782963.3	(73) Panasonic Intellectual Property Corporation of America
(22) 06.02.2020	(47) 30.08.2023	(72) HAGAWA, Reiko
(54) PARKING BRAKE WITH ABS CONTROL ON THE INDIVIDUAL WHEELS.	(87) EP2019076378	(72) ISHII, Yasunori
(73) ZF CV Systems Europe BV	(22) 30.09.2019	(31) 2018037776
(72) VAN THIEL, Julian	(54) METHOD FOR CONTROLLING THE ROTATIONAL SPEED OF AN ELECTRIC MOTOR DRIVEN COMPRESSOR AND CONTROL UNIT ADAPTED TO PERFORM THE METHOD	2017146482
BENSCH, Uwe		(32) 02.03.2018
(31) 102019103901		28.07.2017
(32) 15.02.2019		(33) Japan
(33) Germany		Japan
(51) B60T 7/10		(51) B60W 30/08
B60T 13/74	(73) VOLVO TRUCK CORPORATION	B60W 30/09
B60T 13/66	(72) BEBON, Hugo	(11) EP3251909
B60T 7/04	PROD'HOMME, Nathan	(21) EP17170959.5
(11) EP3703988	(51) B60T 17/08	(47) 30.08.2023
(21) EP18807183.1	(11) EP4011729	(22) 15.05.2017
(47) 30.08.2023	(21) EP20213046.4	(54) METHOD FOR OPERATING A DRIVER ASSISTANCE SYSTEM OF A MOTOR VEHICLE WITH PROVISION OF A BLOCKED STEERING ANGLE RANGE, DRIVER ASSISTANCE SYSTEM AND MOTOR VEHICLE
(87) US2018059030	(47) 30.08.2023	
09.05.2019	(22) 10.12.2020	
(22) 02.11.2018	(54) BRAKE CYLINDER AND COMMERCIAL VEHICLE WITH A BRAKE CYLINDER	
(54) REDUNDANT INTEGRATED PARKING BRAKE RELEASE CIRCUIT	(73) ZF CV Systems Europe BV	
(73) Continental Automotive Systems, Inc.	(72) FRANCZUK, Michal	(73) Valeo Schalter und Sensoren GmbH
(72) GJONI, Ermal	ZBYLUT, Michal	(72) Maraslis, Christos
TRUAX, John	(51) B60T 17/08	Thunert, Fabian
DELJOSEVIC, Marjan	(11) EP4023512	Guechai, Wael
(31) 201816177823	(21) EP21150134.1	(31) 102016109855
201762581473 P	(47) 30.08.2023	(32) 30.05.2016
(32) 01.11.2018	(22) 05.01.2021	(33) Germany
03.11.2017	(54) STAMPED SPRING SEAT FOR USE IN SPRING BRAKE ACTUATOR, AND SPRING BRAKE ACTUATOR FOR USE IN COMMERCIAL VEHICLES	(51) B60W 30/10
(33) United States of America		B60W 30/09
United States of America		B60W 40/08
(51) B60T 8/172	(73) ZF CV Systems Europe BV	B60W 50/02
B60T 8/1763	(72) GAWLIK, Rafal	B60W 60/00
B60W 40/06	(51) B60W 20/00	(11) EP3919336
B60W 40/076	B60W 20/17	(21) EP19912204.5
(11) EP3848259	B60W 10/06	(47) 30.08.2023
(21) EP21150664.7	B60W 10/08	(87) IB2019000120
(47) 30.08.2023	(11) EP4071018	06.08.2020
(22) 08.01.2021	(21) EP19955313.2	(22) 31.01.2019
(54) APPARATUS FOR DETERMINING STATE OF ROAD SURFACE	(47) 30.08.2023	(54) TRAVEL CONTROL METHOD AND TRAVEL CONTROL DEVICE FOR VEHICLE
(73) Sumitomo Rubber Industries, Ltd.	(87) JP2019047958	
(72) MAEDA, Yusuke	10.06.2021	(73) NISSAN MOTOR Co., Ltd.
(31) 2020002498	(22) 06.12.2019	Renault s.a.s
(32) 10.01.2020	(54) HYBRID VEHICLE CONTROL METHOD AND HYBRID VEHICLE CONTROL DEVICE	(72) FUKUSHIGE, Takashi
(33) Japan		TANGE, Satoshi
(51) B60T 8/32		(51) B60W 30/18
B60T 8/88	(73) NISSAN MOTOR Co., Ltd.	B60W 50/00
B60T 8/94	(72) ITO, Tomohiro	B60W 60/00
(11) EP3938255	KOZUKA, Makoto	B60W 30/095
(21) EP20711807.6	GOTO, Kenichi	(11) EP3819180
(47) 30.08.2023	KOBAYASHI, Azusa	(21) EP20178122.6
(87) EP2020055663	ICHIBA, Tsukasa	(47) 30.08.2023
17.09.2020	(51) B60W 30/02	(22) 03.06.2020
(22) 04.03.2020	B60W 30/095	(54) METHOD AND PROCESSOR FOR CONTROLLING IN-LANE MOVEMENT OF AUTONOMOUS VEHICLE
(54) ELECTRO-PNEUMATICAL BRAKE SYSTEM FOR UTILITY VEHICLE	G06V 20/58	
(73) ZF CV Systems Europe BV	G06V 20/59	
(72) VAN THIEL, Julian	G08G 1/16	(73) Yandex Self Driving Group LLC
SCHMIDT, Detlef	(11) EP3435355	(72) YASKEVICH, Siarhei Konstantinovich
(31) 102019106243	(21) EP18181631.5	(31) 2019135571
(32) 12.03.2019	(47) 30.08.2023	(32) 06.11.2019
(33) Germany	(22) 04.07.2018	(33) Russian Federation
(51) B60T 17/02	(54) INFORMATION PROCESSING APPARATUS, INFORMATION PROCESSING METHOD, AND RECORDING MEDIUM	(51) B60W 40/06
B60T 13/66		G06F 17/18
F04B 49/06		B60W 50/14
(11) EP4037943		(11) EP4098503
		(21) EP22173995.6

(47) 30.08.2023	(87) CN2019077610	(33) China
(22) 18.05.2022	12.12.2019	China
(54) METHOD FOR DETERMINING STATE OF ROAD SURFACE	(22) 11.03.2019	(51) B61G 5/08
(73) Sumitomo Rubber Industries, Ltd.	(54) RAILWAY VEHICLE AND END WALL THEREOF	(11) EP4013658
(72) MAEDA, Yusuke	(73) CRRC QINGDAO SIFANG CO., LTD.	(21) EP20757248.8
(31) 2021091815	(72) LI, Zhaofu	(47) 30.08.2023
(32) 31.05.2021	DING, Sansan	(87) EP2020072458
(33) Japan	JIANG, Fujie	18.02.2021
(51) B60W 50/14	WANG, Wanjing	(22) 11.08.2020
B60W 50/08	(31) 201820859756 U	(54) AUTOMATIC AIR COUPLING FOR A RAIL VEHICLE
B60W 30/14	201810564661	(73) Voith Patent GmbH
B60W 30/09	(32) 04.06.2018	(72) SCHÜLER, Martin
B60W 40/09	04.06.2018	SCHULZ, Jörn
(11) EP3240714	(33) China	KOLSHORN, Kay Uwe
(21) EP15830960.9	China	SCHÄFER, Wladimir
(47) 30.08.2023	(51) B61D 17/08	(31) 102019121648
(87) US2015067868	B61D 17/12	(32) 12.08.2019
07.07.2016	B61D 17/06	(33) Germany
(22) 29.12.2015	(11) EP3838705	(51) B61G 9/04
(54) SYSTEMS AND METHODS FOR OPERATING AUTONOMOUS VEHICLES USING PERSONALIZED DRIVING PROFILES	(21) EP20214078.6	B61G 9/06
(73) Robert Bosch GmbH	(47) 30.08.2023	B61G 11/16
(72) GULATI, Shilpa	(22) 15.12.2020	(11) EP3442847
BECKER, Jan	(54) A RAIL VEHICLE AND A METHOD OF MANUFACTURING A RAIL VEHICLE	(21) EP17713656.1
RAJARAM, Shetty	(73) Bombardier Transportation GmbH	(47) 30.08.2023
NAGY, Akos	(72) Edwards, Jonathan	(87) EP2017057172
KREMER, Christian	(31) 201918683	19.10.2017
MAMAEVA, Tatiana	(32) 18.12.2019	(22) 27.03.2017
VETTER, Joerg	(33) United Kingdom	(54) PULL AND PUSH MEANS
(31) 201462098418 P	(51) B61D 17/20	(73) Voith Patent GmbH
201462097473 P	(11) EP3992051	(72) SCHÜLER, Martin
201462097373 P	(21) EP20207233.6	(31) 102016205981
(32) 31.12.2014	(47) 30.08.2023	(32) 11.04.2016
29.12.2014	(22) 12.11.2020	(33) Germany
29.12.2014	(54) TREADPLATE FOR A FLOOR OF A GANGWAY AND GANGWAY	(51) B61L 15/00
(33) United States of America	(73) Dellner Couplers AB	(11) EP4008603
United States of America	(72) MEERS, Christopher	(21) EP21210973.0
United States of America	(31) 20204572	(47) 30.08.2023
(51) B60W 60/00	(32) 29.10.2020	(22) 29.11.2021
B60W 40/04	(33) European Patent Office (EPO)	(54) SYSTEM FOR MONITORING AND PREDICTIVE MAINTENING THE STATE OF WEAR OF MECHANICAL COMPONENTS AND OPERATION METHOD THEREOF
B60W 50/00	(51) B61F 7/00	(73) MARE ENGINEERING GROUP S.P.A. IN BREVE MARE GROUP S.P.A.
B60W 30/14	B60B 35/10	(72) NAPPI, Roberto
B60W 30/18	B61F 15/26	(31) 202000029471
B60W 50/14	(11) EP3936405	(32) 02.12.2020
G08G 1/16	(21) EP20825701.4	(33) Italy
(11) EP3972882	(47) 30.08.2023	(51) B61L 25/02
(21) EP20786038.8	(87) CN2020090851	(11) EP4011747
(47) 30.08.2023	24.12.2020	(21) EP20380022.2
(87) IB2020000749	(22) 18.05.2020	(47) 30.08.2023
25.03.2021	(54) LOCKING MECHANISM FOR GAUGE-CHANGEABLE WHEEL SET, GAUGE-CHANGEABLE WHEEL SET AND GAUGE-CHANGEABLE BOGIE	(22) 14.12.2020
(22) 17.09.2020	(73) Southwest Jiaotong University	(54) SYSTEM AND METHOD FOR MEASURING A DISTANCE TRAVELLED BY A GUIDED VEHICLE
(54) SYSTEMS AND METHODS FOR PREDICTING BLIND SPOT INCURSIONS	CRRC Qingdao Sifang Co., Ltd.	(73) Siemens Rail Automation S.A.U.
(73) Mobileye Vision Technologies Ltd.	(72) MA, Lijun	(72) Benitez LEO, Julian
(72) WALTER, Samantha	QIAO, Qingfeng	(51) B61L 27/00
ELIMALEH, Yaniv	ZHOU, Pingyu	E01B 2/00
(31) 201962901355 P	WANG, Xu	E01B 3/28
(32) 17.09.2019	WANG, Yutao	E01B 35/00
(33) United States of America	LI, Hengkui	(11) EP3941798
(51) B61D 17/06	SONG, Xiaowen	(21) EP20711771.4
B61D 17/20	(31) 201910541173	(47) 30.08.2023
(11) EP3805069	201910541187	
(21) EP19814146.7	(32) 21.06.2019	
(47) 30.08.2023	21.06.2019	

(87) AT2020000005 01.10.2020	HORVATH, Gergely	G08G 1/14
(22) 27.02.2020	(31) 102018112352	B60R 21/00
(54) RAILWAY TRACK	(32) 23.05.2018	B60W 30/06
(73) Getzner Werkstoffe Holding GmbH	(33) Germany	(11) EP3686084
(72) LOY, Harald	(51) B62D 5/04	(21) EP20152372.7
SEHNER, Michael	(11) EP3812243	(47) 30.08.2023
(31) 1092019	(21) EP20202741.3	(22) 22.10.2015
(32) 22.03.2019	(47) 30.08.2023	(54) PARKING SUPPORT METHOD AND PARKING SUPPORT DEVICE
(33) Austria	(22) 20.10.2020	(73) Nissan Motor Co., Ltd.
(51) B62B 3/02	(54) STEERING CONTROL DEVICE	(72) HAYAKAWA, Yasuhisa
B62B 3/00	(73) JTEKT CORPORATION	(51) B62D 21/02
B62B 5/06	(72) EZAKI, Yukinobu	B62D 24/00
B62B 7/06	NITTA, Shingo	B62D 33/077
(11) EP3845433	TOKO, Takahiro	(11) EP4008608
(21) EP18931335.6	KATAOKA, Nobuaki	(21) EP21211246.0
(47) 30.08.2023	YAMAGUCHI, Takafumi	(47) 30.08.2023
(87) CN2018105867	(31) 2019193221	(22) 30.11.2021
05.03.2020	(32) 24.10.2019	(54) VEHICLE PROVIDED WITH A REAR FRAME INTENDED FOR SUPPORTING A LOADING DEVICE
(22) 15.09.2018	(33) Japan	(73) Renault s.a.s
(54) TROLLEY WITH NO HEIGHT INCREASE IN FOLDED STATE	(51) B62D 5/04	(72) DELORD, Christian
(73) Zhang, Xiangshan	(11) EP4090575	BILLON, Florent
(72) Zhang, Xiangshan	(21) EP20701024.0	(31) 2012606
(31) 201811017282	(47) 30.08.2023	(32) 03.12.2020
(32) 01.09.2018	(87) EP2020051008	(33) France
(33) China	22.07.2021	(51) B62D 21/15
(51) B62B 13/16	(22) 16.01.2020	B60R 19/34
B62B 17/00	(54) ELECTRIC APPARATUS FOR A VEHICLE	B62D 25/08
B62B 17/06	(73) HELLA GMBH & CO. KGAA	(11) EP4001060
B62B 17/08	(72) LAURE, Frédéric	(21) EP21209896.6
(11) EP3984859	CONTE-TISNERAT, Alain	(47) 30.08.2023
(21) EP21203217.1	(51) B62D 5/083	(22) 23.11.2021
(47) 30.08.2023	B62D 5/24	(54) FRONT STRUCTURE OF A MOTOR VEHICLE WITH FRONTAL COLLISION MANAGEMENT WITH SMALL OVERLAP
(22) 18.10.2021	(11) EP3996974	(73) Renault s.a.s
(54) MODULAR SLEDGE	(21) EP20750943.1	(72) LOUET, Dominique
(73) Decathlon	(47) 30.08.2023	QUEVILLARD, Thomas
(72) Bonnafous, Jean Baptiste	(87) US2020041492	(31) 2011979
Bousch, Thomas	21.01.2021	(32) 23.11.2020
Maillard, Octavien	(22) 10.07.2020	(33) France
(31) 2010717	(54) COUPLED STEERING GEAR SHAFT	(51) B62D 21/20
(32) 19.10.2020	(73) R.H. Sheppard Co., Inc.	B62D 53/06
(33) France	(72) VANTRAN, John	(11) EP3623262
(51) B62D 1/181	TIPTON, Jeffrey	(21) EP19197621.6
B62D 1/19	TERWAD, Manjunath	(47) 30.08.2023
(11) EP4067209	PITZER, Jared	(22) 16.09.2019
(21) EP22159141.5	(31) 201962930736 P	(54) SEMI-TRAILER
(47) 30.08.2023	201962873420 P	(73) Dennison Trailers Unlimited Company
(22) 28.02.2022	(32) 05.11.2019	(72) DENNISON, David
(54) STEERING DEVICE	12.07.2019	(31) 201814972
(73) AISIN CORPORATION	(33) United States of America	(32) 14.09.2018
(72) MURAKI, Toshihiro	United States of America	(33) United Kingdom
(31) 2021055477	(51) B62D 15/02	(51) B62D 25/04
(32) 29.03.2021	(11) EP3932781	B23K 11/00
(33) Japan	(21) EP21162837.5	B23K 11/16
(51) B62D 5/00	(47) 30.08.2023	(11) EP3715225
B62D 5/04	(22) 16.03.2021	(21) EP18881046.9
(11) EP3797059	(54) REVERSE TRAJECTORY TRACKING METHOD AND APPARATUS, ELECTRONIC DEVICE AND STORAGE MEDIUM	(47) 30.08.2023
(21) EP19725356.0	(73) Beijing Baidu Netcom Science and Technology Co., Ltd	(87) JP2018026514
(47) 30.08.2023	(72) ZHANG, Lianchuan	31.05.2019
(87) EP2019062984	(31) 202010614812	(22) 13.07.2018
28.11.2019	(32) 30.06.2020	(54) VEHICLE REINFORCING MEMBER AND VEHICLE CENTER PILLAR
(22) 20.05.2019	(33) China	(73) Toyoda Iron Works Co., Ltd.
(54) METHOD FOR CONTROLLING A STEER-BY-WIRE STEERING SYSTEM	(51) B62D 15/02	
(73) thyssenkrupp Presta AG		
thyssenkrupp AG		
(72) REPAY, Adam		

TOYOTA JIDOSHA KABUSHIKI KAISHA Hino Motors, Ltd. (72) KOSAKA Hiroyasu IZUMOTO Masanori TERAMOTO Daisuke IGARASHI Katsuya (31) 2017223773 (32) 21.11.2017 (33) Japan	(54) INTERACTION DEVICE FOR A VEHICLE (73) Audi AG (72) MILOSEV, Zika DJURIC, Nikola (31) 102019206782 (32) 10.05.2019 (33) Germany	(72) REINAUER, Anastasia FRIEDRICH, Thorsten HAEGELE, Heiko NORDBRUCH, Stefan (31) 102019211124 (32) 26.07.2019 (33) Germany
(51) B62D 25/20 B60R 13/08 (11) EP3871952 (21) EP21153998.6 (47) 30.08.2023 (22) 28.01.2021 (54) VEHICLE-BODY STRUCTURE OF A VEHICLE AND VEHICLE (73) MAZDA MOTOR CORPORATION (72) NAKAMURA, Kaito TERADA, Sakayu KURATA, Miho (31) 2020030177 (32) 26.02.2020 (33) Japan	(51) B62D 37/00 (11) EP4048577 (21) EP20789630.9 (47) 30.08.2023 (87) EP2020079212 29.04.2021 (22) 16.10.2020 (54) DOWNFORCE SYSTEM FOR A VEHICLE (73) MCMURTRY AUTOMOTIVE LIMITED (72) SCHOLZ, George Karl (31) 201915195 (32) 21.10.2019 (33) United Kingdom	(51) B62D 67/00 G05B 19/418 (11) EP3858717 (21) EP21154395.4 (47) 30.08.2023 (22) 29.01.2021 (54) SYSTEM AND METHOD FOR PARTIALLY OR FULLY AUTOMATED DISASSEMBLY OF DEVICES (73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. (72) Noll, Reinhard Fricke-Begemann, Cord (31) 102020102514 (32) 31.01.2020 (33) Germany
(51) B62D 33/06 (11) EP3862252 (21) EP20212297.4 (47) 30.08.2023 (22) 07.12.2020 (54) STRUCTURE OF VEHICLE CABIN (73) Toyota Jidosha Kabushiki Kaisha (72) HARA, Yasuhiro WATANABE, Jumpei ISHIOKA, Hirotaka KOREISHI, Norimasa (31) 2020020945 (32) 10.02.2020 (33) Japan	(51) B62D 55/15 F16J 15/34 (11) EP3894306 (21) EP19820954.6 (47) 30.08.2023 (87) US2019062314 18.06.2020 (22) 20.11.2019 (54) MACHINE SYSTEM HAVING MACHINERY ROLLER ASSEMBLY WITH STATIC SEALING CLAMPING COLLARS (73) Caterpillar, Inc. (72) TRONE, Matthew W. UMBACH, Brian BAAR, William (31) 201816215751 (32) 11.12.2018 (33) United States of America	(51) B62J 1/26 B29C 44/12 B29D 99/00 B29C 63/02 B29C 33/18 B29C 44/14 B29K 75/00 B29L 31/30 (11) EP3717338 (21) EP18793017.7 (47) 30.08.2023 (87) IB2018057885 06.06.2019 (22) 11.10.2018 (54) PROCESS FOR MAKING SEATS WITH ADDITIONAL GEL PADDING, SEAT OBTAINED THEREWITH AND EQUIPMENT FOR IMPLEMENTING SAID PROCESS (73) Selle S.M.P. S.A.S. Di M. Schiavon (72) SCHIAVON, Maurizio SCHIAVON, Franco (31) 201700137409 (32) 29.11.2017 (33) Italy
(51) B62D 35/00 B62D 37/02 (11) EP3887232 (21) EP19817127.4 (47) 30.08.2023 (87) DE2019101014 04.06.2020 (22) 26.11.2019 (54) SPOILER APPARATUS, VEHICLE HAVING SUCH A SPOILER APPARATUS AND METHOD FOR OPERATING THE SPOILER APPARATUS (73) VOLKSWAGEN AKTIENGESELLSCHAFT Hofmann, André (72) LANFER, Ingo KLOPP, Marcel HOFMANN, André (31) 102018220484 (32) 28.11.2018 (33) Germany	(51) B62D 55/20 B62D 55/21 (11) EP3849887 (21) EP19782812.2 (47) 30.08.2023 (87) US2019050299 19.03.2020 (22) 10.09.2019 (54) TRACK LINK FOR A TRACK JOINT ASSEMBLY HAVING WEAR BAND WITH LENGTHWISE-VARIED HARDNESS (73) Caterpillar Inc. (72) STEINER, Kevin (31) 201816128455 (32) 11.09.2018 (33) United States of America	(51) B62J 27/00 B60W 40/10 B62J 45/414 B62J 45/415 B60K 28/14 (11) EP3819199 (21) EP20202753.8 (47) 30.08.2023 (22) 20.10.2020 (54) METHOD AND DEVICE FOR CONTROLLING A BICYCLE WITH AN ELECTRIC MOTOR AND A TWO- WHEELED VEHICLE WITH SUCH A DEVICE (73) Robert Bosch GmbH (72) Volquardsen, Anders Landa, Sven (31) 102019217396 (32) 11.11.2019 (33) Germany
(51) B62D 35/00 B62D 37/02 (11) EP3966089 (21) EP20712242.5 (47) 30.08.2023 (87) EP2020056417 19.11.2020 (22) 11.03.2020	(51) B62D 65/04 (11) EP4003823 (21) EP20733228.9 (47) 30.08.2023 (87) EP2020066061 04.02.2021 (22) 10.06.2020 (54) METHOD FOR INITIALIZING A MOTOR VEHICLE (73) Robert Bosch GmbH	

(51) B62J 33/00	(51) B62K 11/00	24.01.2019
B62J 43/30	B62K 5/01	(22) 20.07.2018
B62K 21/12	B60K 17/28	(54) A METHOD OF PERFORMING AN EYE
(11) EP3647172	B60K 17/34	EXAMINATION TEST
(21) EP19206625.6	B60L 15/40	(73) Easee Health B.V.
(47) 30.08.2023	B60K 28/16	(72) PREVOO, Yves Franco Diano Maria
(22) 31.10.2019	B60R 16/023	NKYA, Elly Onesmo
(54) HEATABLE GRIP	G05B 19/042	(31) 2019319
(73) Halfords Limited	B60K 1/04	(32) 21.07.2017
(72) STEVENSON, Justin	B60L 1/00	(33) Netherlands
(31) 201817815	(11) EP3623271	(51) B62M 6/80
(32) 31.10.2018	(21) EP18799027.0	H01F 38/14
(33) United Kingdom	(47) 30.08.2023	(11) EP3823889
(51) B62J 45/411	(87) CN2018082368	(21) EP19749455.2
B62J 45/421	15.11.2018	(47) 30.08.2023
B62M 3/08	(22) 09.04.2018	(87) NL2019050449
(11) EP4081447	(54) CONTROL METHOD, VEHICLE FRAME,	23.01.2020
(21) EP21716544.8	POWER DRIVING ASSEMBLY AND	(22) 16.07.2019
(47) 30.08.2023	VEHICLE	(54) MAGNETIC TRANSFORMER SYSTEM
(87) IB2021051912	(73) NINEBOT (BEIJING) TECH. CO., LTD.	FOR WIRELESS CHARGING
25.11.2021	(72) LI, Xingle	(73) Fesla Charge B.V.
(22) 08.03.2021	LIN, Ji	(72) FERREIRA, Jan Abraham
(54) PEDAL FOR BICYCLES	LOU, Yi	(31) 2021309
(73) FAVERO ELECTRONICS S.R.L.	(31) 201710321683	(32) 16.07.2018
(72) FAVERO, Gino	(32) 09.05.2017	(33) Netherlands
(31) 202000011956	(33) China	(51) B62M 6/90
(32) 21.05.2020	(51) B62K 25/20	B62H 5/00
(33) Italy	B62K 11/10	B62J 43/13
(51) B62K 3/00	(11) EP3882117	B62J 43/23
B62K 15/00	(21) EP19885001.8	(11) EP3504114
B62M 11/02	(47) 30.08.2023	(21) EP17780340.0
B62K 25/00	(87) JP2019044155	(47) 30.08.2023
B62K 21/02	22.05.2020	(87) EP2017074312
(11) EP3947126	(22) 11.11.2019	19.04.2018
(21) EP20711995.9	(54) SADDLE-RIDDEN VEHICLE	(22) 26.09.2017
(47) 30.08.2023	(73) Yamaha Hatsudoki Kabushiki Kaisha	(54) BATTERY LOCK FOR AN ELECTRIC
(87) EP2020058235	(72) SAITO Yusuke	VEHICLE
01.10.2020	(31) 2018212476	(73) ABUS August Bremicker Söhne KG
(22) 24.03.2020	(32) 12.11.2018	(31) 102016119570
(54) MOTORIZED SCOOTER WITH GEAR	(33) Japan	(32) 13.10.2016
SYSTEM TRANSMISSION	(51) B62K 25/28	(33) Germany
(73) Alligator International Design SL	B62K 11/04	(51) B62M 9/12
(72) BATTLE BESORA, Genis	B62M 7/04	(11) EP3868641
VANEY, Laurent Julien Michel	B62J 45/413	(21) EP21020077.0
(31) 1903266	B62J 45/42	(47) 30.08.2023
(32) 28.03.2019	B62J 11/16	(22) 17.02.2021
(33) France	B62K 25/04	(54) BICYCLE REAR WHEEL PINION
(51) B62K 5/08	(11) EP3960607	ASSEMBLY AND MODULAR SYSTEM
B60G 3/20	(21) EP21185025.0	FOR PRODUCING BICYCLE REAR
B60G 15/06	(47) 30.08.2023	WHEEL PINION ASSEMBLIES
B62K 5/10	(22) 12.07.2021	(73) SRAM Deutschland GmbH
B62K 21/02	(54) STRADDLED VEHICLE	(72) Rohmer, Jakob
B62K 25/00	(73) Yamaha Hatsudoki Kabushiki Kaisha	Vonend, Andreas
B62K 25/24	(72) Nohara, Takahiro	(31) 102021000448
(11) EP4028315	(31) 2020141846	102020001147
(21) EP20768118.0	(32) 25.08.2020	(32) 29.01.2021
(47) 30.08.2023	(33) Japan	22.02.2020
(87) IB2020058235	(51) B62K 27/06	(33) Germany
18.03.2021	A61B 3/032	Germany
(22) 04.09.2020	A61B 3/10	(51) B62M 11/02
(54) A MOTOR VEHICLE WITH A	G06F 3/01	B62M 7/02
SUSPENSION USING A TCHEBICHEFF	G06K 9/00	B62M 23/02
FOUR-BAR LINKAGE	A61B 3/00	B62J 43/16
(73) PIAGGIO & C. S.P.A.	A61B 3/11	B62J 43/20
(72) RAFFAELLI, Andrea	(11) EP3655314	B62K 11/04
(31) 201900015908	(21) EP18766362.0	B60K 1/04
(32) 09.09.2019	(47) 30.08.2023	B60K 17/04
(33) Italy	(87) NL2018050501	(11) EP3950483

(21) EP20791653.7	B63B 43/00	B64D 35/00
(47) 30.08.2023	B63H 21/17	F16D 1/112
(87) JP2020016385	(11) EP3552948	B64U 50/13
22.10.2020	(21) EP17878610.9	B64U 30/291
(22) 14.04.2020	(47) 30.08.2023	(11) EP3996989
(54) STRADDLED VEHICLE	(87) JP2017024364	(21) EP20747069.1
(73) Yamaha Hatsudoki Kabushiki Kaisha	14.06.2018	(47) 30.08.2023
(72) KANEKO, Kyohei	(22) 03.07.2017	(87) FR2020051168
TAKEMOTO, Yasushi	(54) NAVIGATION METHOD FOR SHIP, AND SHIP	14.01.2021
(31) PCT/JP2019/016856	(73) Mitsubishi Shipbuilding Co., Ltd.	(22) 02.07.2020
(32) 19.04.2019	(72) MINO Masahiko	(54) LOCKING FINGER FOR AN ELECTRIC MOTOR SHAFT
(33) World Intellectual Property Office (WIPO)	ASHIZAWA Yushi	(73) Safran Electrical & Power
(51) B63B 1/08	TAMURA Hiroshi	(72) ECHE, Jacques
B63H 5/16	KANAGA Tatsuoaki	TONDRIAUX, Yann
B63B 1/04	KUCHIKI Yusuke	(31) 1907650
B63H 5/08	TAKEDA Shingen	(32) 09.07.2019
(11) EP3847091	(31) 2016237284	(33) France
(21) EP19762384.6	(32) 07.12.2016	(51) B64C 11/16
(47) 30.08.2023	(33) Japan	B64C 27/46
(87) EP2019073374	(51) B64C 1/10	(11) EP3868651
12.03.2020	B64D 11/00	(21) EP20305160.2
(22) 02.09.2019	B64D 11/06	(47) 30.08.2023
(54) SHIP HULL HAVING A RAISED PORTION IN THE REGION OF AN UNDERSIDE OF THE SHIP HULL	(11) EP3546339	(22) 19.02.2020
(73) LR-Shipdesign AG	(21) EP19164522.5	(54) HEALTH MONITORING BASED ON BLADE TIP TRAJECTORY
(72) LINDINGER, Roland	(47) 30.08.2023	(73) Ratier-Figeac SAS
(31) 102018121414	(22) 22.03.2019	(72) EL HALOUI, Abdellah
(32) 03.09.2018	(54) BULKHEAD PARTITION DESIGN AND CORRESPONDING SEATING ARRANGEMENT	BOUCHET, Arnaud
(33) Germany	(73) The Boeing Company	(51) B64C 11/30
(51) B63B 34/56	(72) Thomas, Eric E.	(11) EP3722204
B63B 32/30	(31) 201815938065	(21) EP20169093.0
B63B 32/10	(32) 28.03.2018	(47) 30.08.2023
(11) EP3990341	(33) United States of America	(22) 09.04.2020
(21) EP20717075.4	(51) B64C 1/14	(54) BLADE ANGLE POSITION FEEDBACK SYSTEM WITH PROFILED MARKER TERMINATIONS
(47) 30.08.2023	(11) EP3784566	(73) Pratt & Whitney Canada Corp.
(87) AT2020060130	(21) EP18916249.8	(72) SMITH, Michael
30.12.2020	(47) 30.08.2023	(31) 201916703394
(22) 25.03.2020	(87) SE2018050428	201962831252 P
(54) WATER SKI	31.10.2019	(32) 04.12.2019
(73) Peter, Lorenz Roland	(22) 26.04.2018	09.04.2019
(72) Peter, Lorenz Roland	(54) METHOD AND AN INTERLOCK ARRANGEMENT FOR SECURE LATCHING OF A FIRST BODY TO A SECOND BOD AT AN AERIAL VEHICLE	(33) United States of America
(31) 505622019	(73) SAAB AB	United States of America
(32) 25.06.2019	(72) SCHUSTER, Samuel	(51) B64C 13/50
(33) Austria	NORDQVIST, Jonas	B64C 27/00
(51) B63B 43/00	(51) B64C 1/14	(11) EP3599160
B63B 43/20	E05C 3/00	(21) EP19163097.9
B63B 49/00	B64C 1/24	(47) 30.08.2023
B63B 79/00	E05C 1/00	(22) 15.03.2019
(11) EP3590818	E05C 1/08	(54) SYSTEM AND METHOD FOR ROTORCRAFT FLIGHT CONTROL
(21) EP18761760.0	B63B 19/00	(73) Textron Innovations Inc.
(47) 30.08.2023	(11) EP3722202	(72) Worsham II, Robert Earl
(87) JP2018006432	(21) EP19212409.7	Bothwell, Christopher M.
07.09.2018	(47) 30.08.2023	Gillett, Luke Dafydd
(22) 22.02.2018	(22) 29.11.2019	(31) 201816042767
(54) SHIP LOAD OBSERVATION APPARATUS, SHIP LOAD OBSERVATION METHOD, AND SHIP LOAD OBSERVATION PROGRAM	(54) DOOR LATCH ARRANGEMENT	(32) 23.07.2018
(73) Furuno Electric Co., Ltd.	(73) Rohr, Inc.	(33) United States of America
(72) NAKAMURA, Hiraku	(72) GORMLEY, Timothy	(51) B64C 21/01
FUJISAWA, Naomi	(31) 201916377669	B64D 33/02
TODA, Hiroyuki	(32) 08.04.2019	B64C 1/16
(31) 2017039964	(33) United States of America	B64D 27/20
(32) 03.03.2017	(51) B64C 11/02	B64D 29/04
(33) Japan	B64C 27/30	(11) EP3999422
(51) B63J 99/00	B64C 27/12	(21) EP20750311.1
B63J 3/02		(47) 30.08.2023

(87) FR2020051189 21.01.2021	(54) CONVERTIBLE AIRCRAFT CAPABLE OF HOVERING AND RELATIVE CONTROL METHOD	(33) United States of America
(22) 06.07.2020	(73) Leonardo S.p.A.	(51) B64D 1/06
(54) PROPULSION UNIT WITH IMPROVED BOUNDARY LAYER INGESTION	(72) BIANCO MENGOTTI, Riccardo	B64D 7/08
(73) SAFRAN AIRCRAFT ENGINES	(51) B64C 29/00	F41F 5/00
(72) BOITEUX, Jean-Michel, Daniel, Paul TANTOT, Nicolas, Jérôme, Jean CHANEZ, Philippe, Gérard	B64D 27/24	H01R 13/635
(31) 1908080	B64D 27/02	(11) EP3287368
(32) 17.07.2019	B64C 11/28	(21) EP17187956.2
(33) France	(11) EP3892537	(47) 30.08.2023
(51) B64C 25/00	(21) EP21166476.8	(22) 26.11.2015
H02G 3/04	(47) 30.08.2023	(54) SMALL STORE SUSPENSION AND RELEASE UNIT
H02G 11/00	(22) 31.03.2021	(73) L3Harris Release & Integrated Solutions Ltd
B64C 25/08	(54) AIRCRAFT HAVING HYBRID PROPULSION	(72) LEWENDON, James
B64C 25/22	(73) Aurora Flight Sciences Corporation, a subsidiary of The Boeing Company	(31) 201421473
B64C 25/24	(72) GIANNINI, Francesco	(32) 01.12.2014
B64C 25/58	(31) 202016842305	(33) United Kingdom
F16L 3/01	(32) 07.04.2020	(51) B64D 11/00
F16L 3/223	(33) United States of America	B64D 11/04
F16L 41/03	(51) B64C 39/00	(11) EP4005923
(11) EP3730400	B64C 29/00	(21) EP20215644.4
(21) EP19215695.8	(11) EP3728028	(47) 30.08.2023
(47) 30.08.2023	(21) EP18892182.9	(22) 18.12.2020
(22) 12.12.2019	(47) 30.08.2023	(54) ON-BOARD CATERING STATION
(54) INTEGRAL BRACKET MANIFOLD FOR LANDING GEAR ASSEMBLIES	(87) US2018067138	(73) Bucher Leichtbau AG
(73) Goodrich Corporation	27.06.2019	(72) HEIDRICH, Tobias
(72) BAIRD, Bradley W. MISTRY, Hiran S.	(22) 21.12.2018	MÜLLER, Ruxandra
(31) 201916392136	(54) WING AND ROTOR VECTORING SYSTEM FOR AIRCRAFT	(31) 20210838
(32) 23.04.2019	(73) Verdego Aero, Inc.	(32) 30.11.2020
(33) United States of America	(72) BARTSCH, Eric	(33) European Patent Office (EPO)
(51) B64C 25/34	ANDERSON, Richard Pat	(51) B64D 11/00
(11) EP3575210	(31) 201762609902 P	B64D 11/06
(21) EP18175143.9	(32) 22.12.2017	(11) EP4005924
(47) 30.08.2023	(33) United States of America	(21) EP20215646.9
(22) 30.05.2018	(51) B64C 39/02	(47) 30.08.2023
(54) LANDING GEAR ASSEMBLY	(11) EP3983294	(22) 18.12.2020
(73) Safran Landing Systems UK Limited	(21) EP20740666.1	(54) LIGHTWEIGHT COMPONENT TO BE SET UP VERTICALLY FOR A CANTILEVERED LOAD RECEIVER
(72) BENNETT, Ian	(47) 30.08.2023	(73) Bucher Leichtbau AG
(51) B64C 27/08	(87) FI2020050413	(72) MÜLLER, Ruxandra
B64D 27/02	17.12.2020	SCHERTLER, Michael
(11) EP3956218	(22) 12.06.2020	(31) 20210837
(21) EP20725789.0	(54) DRONE STATION, ARRANGEMENT, METHOD OF OPERATING A DRONE STATION	(32) 30.11.2020
(47) 30.08.2023	(73) Teknologian Tutkimuskeskus VTT OY	(33) European Patent Office (EPO)
(87) FR2020000116	(72) PRIETO, Raul	(51) B64D 11/06
22.10.2020	(31) 20195505	(11) EP3237287
(22) 10.04.2020	(32) 12.06.2019	(21) EP15823165.4
(54) HYBRID PROPULSION SYSTEM AND METHOD FOR CONTROLLING SUCH A SYSTEM	(33) Finland	(47) 30.08.2023
(73) Safran Helicopter Engines	(51) B64C 39/02	(87) EP2015081217
(72) SERGHINE, Camel	B64F 1/02	30.06.2016
VIVE, Lois Pierre Denis	B64U 70/30	(22) 23.12.2015
KLONOWSKI, Thomas	B64U 80/84	(54) SEAT DEVICE
(31) 1904034	(11) EP3653501	(73) Recaro Aircraft Seating GmbH & Co. KG
(32) 16.04.2019	(21) EP19216040.6	(72) ERB, Andreas
(33) France	(47) 30.08.2023	THIELE, Maik
(51) B64C 27/28	(22) 26.06.2017	KO, Djunianto
B64C 29/00	(54) LOCKING LINE CAPTURE DEVICES FOR UNMANNED AIRCRAFT, AND ASSOCIATED SYSTEMS AND METHODS	TUTE, Christopher
(11) EP4105123	(73) Insitu, Inc.	BAUMANN, Jürgen
(21) EP21180396.0	(72) GRUBB, Matthew	BICH, Christoph
(47) 30.08.2023	(31) 201615194492	SCHÜRG, Hartmut
(22) 18.06.2021	(32) 27.06.2016	JUSSLI, Zoltan
		SCHÜRG, Christoph
		JAKUBOWSKI, Jens
		(31) 102014119611
		(32) 23.12.2014
		(33) Germany

(51) B64D 13/06	(54) EVACUATION SLIDE WITH MARKINGS	H02J 3/04
(11) EP4003840	AND LIGHTING FOR EGRESS FROM	H02J 9/06
(21) EP20757640.6	AN AIRCRAFT	(11) EP3882157
(47) 30.08.2023	(73) The Boeing Company	(21) EP21163223.7
(87) FR2020051357	(72) McDonald, Steven P.	(47) 30.08.2023
28.01.2021	Wilczynski, Paul J.	(22) 17.03.2021
(22) 24.07.2020	Burgin, Rodney M.	(54) AC BUS TIE CONTACTOR INPUT INTO
(54) AIR CONDITIONING SYSTEM WITH	Wallace, Bruce E.	RAT AUTO-DEPLOY
CABIN AIR RECOVERY	Lenaburg, Robert J.	(73) Hamilton Sundstrand Corporation
(73) Liebherr-Aerospace Toulouse SAS	(31) 202016859158	(72) BUZZARD, John N.
(72) GALZIN, Guillaume	(32) 27.04.2020	VANEVENHOVEN, Jordan K.
BOYE, Cédric	(33) United States of America	MYROTH, Jeffrey D.
(31) 1908460	(51) B64D 27/24	GOOD, Jef William
(32) 25.07.2019	(11) EP3996995	TRASER, Shane R.
(33) France	(21) EP20750328.5	IVES, Kyle
(51) B64D 15/04	(47) 30.08.2023	(31) 202016821234
F02C 7/047	(87) FR2020051213	(32) 17.03.2020
B64D 33/02	14.01.2021	(33) United States of America
(11) EP3878751	(22) 08.07.2020	(51) B64D 45/08
(21) EP21162319.4	(54) ELECTRIC PROPULSIVE	B64F 1/18
(47) 30.08.2023	ARCHITECTURE FOR A MULTI-ROTOR	B64D 47/08
(22) 12.03.2021	VERTICAL TAKE-OFF AND LANDING	(11) EP4005932
(54) NOZZLE FOR A THERMAL ANTI-ICING	AIRCRAFT AND CONTROL METHOD	(21) EP21208210.1
SYSTEM	OF SUCH ARCHITECTURE	(47) 30.08.2023
(73) Rohr, Inc.	(73) SAFRAN	(22) 15.11.2021
(72) VENKATAREDDY, Vanukuri	(72) LEVEL, Clélia	(54) AUTOMATED AERODROME
CHILUKURI, Radhakrishna	MAURY, Christophe	ENERGIZATION AND INTENSITY
SAYA, Ashok Babu	MEUNIER, René	CONTROL SYSTEM AND METHOD
PATIL, Yuvaraj	THORAVAL, Bruno	(73) Honeywell International Inc.
(31) 202011010910	(31) 1907667	(72) SURENDRAN, Anoop
(32) 13.03.2020	(32) 09.07.2019	MOORTHY, Nathan Krishna
(33) India	(33) France	(31) 202011051246
(51) B64D 15/12	(51) B64D 31/12	202117144401
F03D 80/40	B64C 11/50	(32) 25.11.2020
(11) EP3885266	(11) EP3967607	08.01.2021
(21) EP21164913.2	(21) EP21199601.2	(33) India
(47) 30.08.2023	(47) 30.08.2023	United States of America
(22) 25.03.2021	(22) 01.07.2019	(51) B64D 47/04
(54) HIGH STRAIN TOLERANT CHORD-	(54) PROPELLER BLADE	B64D 47/06
WISE ICE PROTECTION LAYOUT	SYNCHROPHASING USING PHONIC	(11) EP3670356
(73) Goodrich Corporation	WHEEL	(21) EP18212985.8
(72) ZADELL, Alex	(73) PRATT & WHITNEY CANADA CORP.	(47) 30.08.2023
TAYLOR, Andrew	(72) JARVO, James	(22) 17.12.2018
(31) 202016829855	YAKOBOV, Ella	(54) COMBINED FORWARD NAVIGATION
(32) 25.03.2020	TABAR, Roja	AND ANTI-COLLISION LIGHT FOR
(33) United States of America	(31) 201816024678	AN AIRCRAFT AND AIRCRAFT
(51) B64D 25/10	(32) 29.06.2018	COMPRISING THE SAME
(11) EP3882155	(33) United States of America	(73) Goodrich Lighting Systems GmbH
(21) EP21163367.2	(51) B64D 41/00	(72) Jha, Anil Kumar
(47) 30.08.2023	F01D 25/28	(51) B64F 5/00
(22) 18.03.2021	(11) EP3882158	B29C 70/30
(54) EJECTION INITIATION FORCE	(21) EP21163260.9	B64C 1/00
SIMULATION SYSTEM FOR AN	(47) 30.08.2023	B64C 9/02
EJECTION SEAT AND METHODS	(22) 17.03.2021	B29C 70/68
THEREOF	(54) RAM AIR TURBINE ROLLING	B64C 3/00
(73) AMI Industries, Inc.	ELEMENT BEARING SUPPORTED	(11) EP3752421
(72) BENJAMIN, Jeff	TURBINE RELEASE FOR LOAD	(21) EP18905696.3
GOUGH, David Linden	REDUCTION	(47) 30.08.2023
LAKE, Scott A.	(73) Hamilton Sundstrand Corporation	(87) SE2018050127
(31) 202016824437	(72) GERGER, Stuart T.	15.08.2019
(32) 19.03.2020	BORTOLI, Stephen Michael	(22) 12.02.2018
(33) United States of America	KONICEK, Timothy Scott	(54) LOAD-BEARING BEAM
(51) B64D 25/14	(31) 202016821859	STRUCTURE AND A METHOD FOR
(11) EP3904214	(32) 17.03.2020	MANUFACTURING THE STRUCTURE
(21) EP21166627.6	(33) United States of America	(73) SAAB AB
(47) 30.08.2023	(51) B64D 41/00	(72) KARLSSON, Håkan
(22) 01.04.2021	H02J 3/38	RING, Jakob
	H02J 3/00	PETERSON, Mikael

RYDBOM, Anders	(22) 05.05.2021	(32) 03.05.2018
LINDBÄCK, Jan-Erik	(54) A METHOD AND A DEVICE FOR	(33) Germany
(51) B64F 5/10	FILLING POWDER MATERIAL IN A BAG	(51) B65B 49/08
G05B 19/418	(73) Tetra Laval Holdings & Finance S.A.	B31B 50/00
(11) EP4011783	(72) McHugh, Robert	(11) EP3621884
(21) EP21197380.5	Greer, Michael	(21) EP18730850.7
(47) 30.08.2023	(31) 20174936	(47) 30.08.2023
(22) 17.09.2021	(32) 15.05.2020	(87) IB2018053184
(54) FRACTIONAL PULSE LINE	(33) European Patent Office (EPO)	15.11.2018
FOR AIRCRAFT FUSELAGE	(51) B65B 7/28	(22) 08.05.2018
MANUFACTURING	B65B 51/14	(54) DEVICE FOR APPLYING PRE-GLUED
(73) The Boeing Company	B65B 7/16	SHEETS OF PAPER TO PAPER OR
(72) CALAWA, Richard	B65B 61/06	CARDBOARD BOXES
TRUESS, Jeffrey Alan	(11) EP3831726	(73) Sa-Te S.R.L.
(31) 202063123324 P	(21) EP20210074.9	(72) SANTINI, Renzo
(32) 09.12.2020	(47) 30.08.2023	(31) 201700049325
(33) United States of America	(22) 26.11.2020	(32) 08.05.2017
(51) B64F 5/50	(54) PACKING MACHINE AND METHOD	(33) Italy
F01D 25/28	WITH FOLDING FUNCTION	(51) B65B 69/00
(11) EP3999423	(73) MULTIVAC Sepp Haggenmüller SE & Co.	B65G 69/18
(21) EP20751617.0	KG	B65G 65/23
(47) 30.08.2023	(72) ICKERT, Lars	(11) EP3718912
(87) FR2020051275	(31) 102019219062	(21) EP20166397.8
21.01.2021	(32) 06.12.2019	(47) 30.08.2023
(22) 16.07.2020	(33) Germany	(22) 27.03.2020
(54) TOOL AND METHOD OF	(51) B65B 11/10	(54) CONNECTION DEVICE
DISMOUNTING AND MOVING A TRV	B65B 21/24	(73) Hecht Technologie GmbH
TYPE TURBINE CASING FROM AN	B65B 57/08	(72) Schwaiger, Thomas
AIRCRAFT TURBOMACHINE	(11) EP4003846	Sondermeier, Florian
(73) SAFRAN AIRCRAFT ENGINES	(21) EP20742203.1	Holzner, Wolfgang
(72) CAUDRON, Olivier, Jean	(47) 30.08.2023	(31) 102019109648
CISTAC, Sébastien, Georges	(87) EP2020069715	102019204944
(31) 1908063	04.02.2021	(32) 11.04.2019
(32) 17.07.2019	(22) 13.07.2020	05.04.2019
(33) France	(54) DEVICE AND METHOD FOR FORMING	(33) Germany
(51) B64U 101/20	BUNDLES OF INDIVIDUAL PACKAGES	Germany
H04B 7/185	(73) KHS GmbH	(51) B65C 7/00
B64C 39/02	(72) LELIE, Thomas	(11) EP3822184
G05D 1/00	JÖRISSEN, Michael	(21) EP20206771.6
G05D 1/10	COX, Bernd	(47) 30.08.2023
G08G 5/00	(31) 102019120676	(22) 10.11.2020
H04W 16/18	(32) 31.07.2019	(54) APPARATUS FOR AUTOMATICALLY
H04W 84/06	(33) Germany	PLACING WIRE COLLARS WITH A
(11) EP3843443	(51) B65B 21/02	HANGING TAG ON BOTTLES
(21) EP19863258.0	B65B 21/06	(73) Meacci S.r.l.
(47) 30.08.2023	B65B 35/16	(72) CAVALLINI, Riccardo
(87) JP2019029020	B65B 35/36	(31) 201900021198
26.03.2020	B65B 57/14	(32) 14.11.2019
(22) 24.07.2019	B65B 35/58	(33) Italy
(54) CONTROL DEVICE, PROGRAM,	B65B 21/04	(51) B65C 9/18
CONTROL METHOD, AND FLIGHT	(11) EP3787978	B65C 9/42
VEHICLE	(21) EP18830882.9	B65C 9/40
(73) Hapsmobile Inc.	(47) 30.08.2023	(11) EP3604149
(72) SAI, Jutatsu	(87) EP2018097108	(21) EP19186586.4
HIRAI Ryoji	07.11.2019	(47) 30.08.2023
(31) 2018174305	(22) 28.12.2018	(22) 16.07.2019
(32) 18.09.2018	(54) METHOD AND DEVICE FOR	(54) LABELLING MACHINE AND METHOD
(33) Japan	PRODUCING PACKAGING UNITS	FOR APPLYING LABELS
(51) B65B 1/22	WHICH EACH COMPRISE AT LEAST	(73) Sidel Participations
B65B 57/00	ONE ARTICLE AND AN OUTER	(72) VENEZIANI, Nicola
B65B 1/14	PACKAGING RECEIVING THE ARTICLE	VIGNALI, Matteo
B65B 1/28	(73) Kronos Aktiengesellschaft	(31) 201800007745
B65B 37/12	(72) TRUSSINA-KAIDEL, Rolf Immanuel	(32) 01.08.2018
B65B 39/06	LOSERT, Jens	(33) Italy
B65B 43/54	STADLER, Thomas	(51) B65C 9/36
(11) EP3909867	PRINZ, Markus	(11) EP3237291
(21) EP21172205.3	DENNEMARCK, Peter	(21) EP15825893.9
(47) 30.08.2023	(31) 102018110556	

(47) 30.08.2023	(54) PACKAGE WITH A FUNCTIONAL ELEMENT	B65D 43/02
(87) US2015067438 30.06.2016	(73) PolyTaksys GmbH	A47J 47/02
(22) 22.12.2015	(72) RENNERS, Philip	B65D 51/18
(54) LABEL APPLICATOR	REISERT, Steffen	(11) EP3889064
(73) bioMérieux, Inc.	(31) 102017117898	(21) EP21160500.1
(72) PINGEL, Daniel Joseph	(32) 07.08.2017	(47) 30.08.2023
KILLALA-RINGWOOD, James	(33) Germany	(22) 03.03.2021
ZELJIC, Dejan	(51) B65D 6/18	(54) A SEALED STORAGE BOX WITH LATCHING CLOSURE
LUEBBERT, Daniel Oliver	B65D 25/10	(73) RL RND and IP Holdings Limited
(31) 201462096614 P	B65D 81/07	(72) PERETZ, Micky
(32) 24.12.2014	(11) EP3997003	(31) 202016819365
(33) United States of America	(21) EP20735193.3	(32) 16.03.2020
(51) B65D 1/02	(47) 30.08.2023	(33) United States of America
B05B 11/00	(87) EP2020068750	(51) B65D 47/08
B05B 11/04	14.01.2021	(11) EP4107083
B29C 49/06	(22) 02.07.2020	(21) EP22711028.5
B65D 83/00	(54) PACKAGING ITEM COMPRISING MEANS FOR RETAINING AN OBJECT	(47) 30.08.2023
(11) EP3705412	(73) PA.COTTE SA	(87) EP2022055746
(21) EP18871870.4	(72) GUILLOUX, Simon	15.09.2022
(47) 30.08.2023	COTTE, Pierre-Alain	(22) 07.03.2022
(87) JP2018030133	(31) 1907580	(54) ASEPTIC CONTAINER CLOSURE HAVING A HINGE AND A MOUTHPIECE
09.05.2019	(32) 08.07.2019	(73) Bericap Holding GmbH
(22) 10.08.2018	(33) France	(72) NUSBAUM, Philippe
(54) DOUBLE CONTAINER	(51) B65D 23/00	(31) 102021132116
(73) Yoshino Kogyosho Co., Ltd.	B65D 1/02	102021113872
(72) SASAKI Masaaki	(11) EP3359460	102021105870
SUZUKI Masato	(21) EP16784419.0	(32) 07.12.2021
CHIBA Junichi	(47) 30.08.2023	28.05.2021
(31) 2018007516	(87) EP2016074030	10.03.2021
2017210433	13.04.2017	(33) Germany
(32) 19.01.2018	(22) 07.10.2016	Germany
31.10.2017	(54) CONTAINER FOR RECEIVING AN ENTERAL NUTRIENT SOLUTION	Germany
(33) Japan	(73) Fresenius Kabi Deutschland GmbH	(51) B65D 47/32
Japan	(72) EBERT, Christian	B65D 47/06
(51) B65D 1/24	BRANDENBURGER, Torsten	B65D 51/16
(11) EP3770074	SCHWERER, Stefan	B65D 47/24
(21) EP19188321.4	(31) 15189118	B65D 25/48
(47) 30.08.2023	(32) 09.10.2015	B67D 7/00
(22) 25.07.2019	(33) European Patent Office (EPO)	(11) EP3898444
(54) BOTTLE CRATE WITH DIVISIBLE HANDLE	(51) B65D 30/00	(21) EP19899822.1
(73) Schoeller Allibert GmbH	B65D 30/18	(47) 30.08.2023
(72) Huizingh, Jan Abraham	B65D 30/20	(87) CA2019051897
(51) B65D 5/49	B65D 33/02	25.06.2020
(11) EP4001145	(11) EP3875387	(22) 20.12.2019
(21) EP21204398.8	(21) EP20161169.6	(54) VENTED SPOUT FOR A LIQUID STORAGE CONTAINER
(47) 30.08.2023	(47) 30.08.2023	(73) LE GROUPE DSD INC.
(22) 25.10.2021	(22) 05.03.2020	(72) VACHON, Léandre
(54) COMPARTMENTS FOR STORING AND TRANSPORTING CONTAINERS AND PACKAGING SYSTEM	(54) PLASTIC FILM BOTTOM BAG AND ITS USE AS WELL AS A BLANK FOR A PLASTIC FILM BOTTOM BAG	(31) 3028492
(73) Blenk Verpackung & Logistik GmbH & Co. KG	(73) Papier-Mettler KG	(32) 21.12.2018
(72) Ruffini, Ralf	(72) DONNER, Georg	(33) Canada
(31) 102020130043	(51) B65D 41/34	(51) B65D 65/40
(32) 13.11.2020	B65D 55/16	B32B 27/00
(33) Germany	(11) EP4026783	B32B 27/32
(51) B65D 5/74	(21) EP21382010.3	B32B 27/36
B65D 51/24	(47) 30.08.2023	B65D 30/02
B65D 79/02	(22) 12.01.2021	B32B 7/12
(11) EP3665093	(54) SEALING DEVICE INTENDED TO BE ATTACHED TO THE NECK OF A CONTAINER	B32B 15/08
(21) EP18742992.3	(73) Betapack, S.A.U.	B32B 15/20
(47) 30.08.2023	(72) BERROA GARCÍA, Francisco, Javier	B32B 27/08
(87) EP2018069204	(51) B65D 45/32	B32B 27/16
14.02.2019		B32B 27/26
(22) 16.07.2018		B32B 27/34
		B32B 27/38
		B32B 27/40
		(11) EP3659939

(21) EP18838368.1	(21) EP19783687.7	(47) 30.08.2023
(47) 30.08.2023	(47) 30.08.2023	(22) 19.12.2019
(87) JP2018025169	(87) IB2019057622	(54) A FOOD PRODUCT PACKAGE WITH
31.01.2019	19.03.2020	AN EATING TOOL
(22) 03.07.2018	(22) 10.09.2019	(73) Soremartec S.A.
(54) PACKAGING BAG USING	(54) PACKAGING FOR THE	(72) RIVA DOGLIAT, Roberta
POLYBUTYLENE TEREPHTHALATE	SCRATCHPROOF TRANSPORTATION	CANAVESIO, Diego
FILM	OF PHARMACEUTICAL BOTTLES	(51) B65D 81/05
(73) TOYOBO CO., LTD.	(73) Soffieria Bertolini S.p.A.	(11) EP3750827
(72) GOTO Takamichi	(72) SURRA, Renato	(21) EP20735052.1
(31) 2017237409	(31) 201800008492	(47) 30.08.2023
2017144624	(32) 11.09.2018	(87) CN2020082755
(32) 12.12.2017	(33) Italy	22.10.2020
26.07.2017	(51) B65D 77/06	(22) 01.04.2020
(33) Japan	B65D 77/24	(54) AIRBAG HAVING PROTECTIVE BASE
Japan	(11) EP4005946	(73) Kunshan Airbag Packing Corp
(51) B65D 71/50	(21) EP22150742.9	(72) LIAO, Tai An
(11) EP3999444	(47) 30.08.2023	LIAO, Ping Yuan
(21) EP20743117.2	(22) 20.12.2018	LIAO, Kao Hsiung
(47) 30.08.2023	(54) BAG IN BOX CONTAINER AND	(31) 201910304410
(87) EP2020070206	METHOD THEREWITH	(32) 16.04.2019
21.01.2021	(73) The Procter & Gamble Company	(33) China
(22) 16.07.2020	(72) MALOTT, Ian Oliver	(51) B65D 81/32
(54) OBJECT CARRIER	TEUFEL, Rainer Bernhard	(11) EP3971106
(73) Anheuser-Busch InBev NV	BOHACHE, Joseph	(21) EP21020460.8
(72) THOMPSON, Keenan	(31) 201862749433 P	(47) 30.08.2023
BUJA, Federico	201862742081 P	(22) 14.09.2021
(31) 201905463	(32) 23.10.2018	(54) TWO COMPONENT CARTRIDGE
(32) 16.07.2019	05.10.2018	(73) Dibau GmbH
(33) Belgium	(33) United States of America	(72) Prick, Thomas
(51) B65D 75/32	United States of America	Kleindienst, Oliver
A23G 9/50	(51) B65D 77/10	(31) 102020123944
B65D 75/54	C09J 11/08	(32) 15.09.2020
B65D 85/78	C09J 201/00	(33) Germany
(11) EP3819234	(11) EP3875397	(51) B65D 81/34
(21) EP20205956.4	(21) EP19878255.9	A23L 25/00
(47) 30.08.2023	(47) 30.08.2023	H05B 6/64
(22) 05.11.2020	(87) JP2019042902	A23L 5/10
(54) METHOD OF PACKAGING AN EDIBLE	07.05.2020	A47J 27/02
PRODUCT AND A UNIT OF PACKAGED	(22) 31.10.2019	(11) EP3861832
PRODUCT	(54) CONTAINER	(21) EP20836923.1
(73) Unifill S.r.l.	(73) Zeon Corporation	(47) 30.08.2023
(72) PARINI, Massimiliano	(72) SONE, Atsushi	(87) IL2020050766
MONTI, Moreno	SHIKANO, Tamio	14.01.2021
(31) 201900020482	TANAKA, Hidekazu	(22) 09.07.2020
(32) 06.11.2019	(31) 2018207615	(54) METHOD AND PACKAGE FOR EVENLY
(33) Italy	(32) 02.11.2018	ROASTING SEEDS IN A MICROWAVE
(51) B65D 75/32	(33) Japan	(73) Eazy Roast Ltd.
B65D 67/00	(51) B65D 77/22	(72) ALMOG, Yaacov
(11) EP4168320	(11) EP3686125	(31) 201900014940
(21) EP21827637.6	(21) EP19197913.7	201962953870 P
(47) 30.08.2023	(47) 30.08.2023	201962872433 P
(87) GB2021053220	(22) 18.09.2019	(32) 22.08.2019
16.06.2022	(54) PRESSURE RELIEF VALVE WITH	26.12.2019
(22) 09.12.2021	FLOATING MEMBRANE AND	10.07.2019
(54) CONTACT LENS PACKAGE KIT WITH	PACKAGING CONTAINER	(33) Italy
RECYCLING FASTENER	(73) Syntegon Technology GmbH	United States of America
(73) CooperVision International Limited	(72) Knappe, Peter	United States of America
(72) RIVERA VELEZ, Jesus Javier	Stotkiewitz, Herbert	(51) B65D 83/00
ALAYON RIVERA, Javier E.	Haase, Jenny	(11) EP4003875
SIEVENS FIGUEROA, Lucas	(31) 102019200860	(21) EP20743044.8
WHITENACK, Brittany	(32) 24.01.2019	(47) 30.08.2023
ZUCARO, Cataldo	(33) Germany	(87) US2020070206
(31) 202063124106 P	(51) B65D 77/24	04.02.2021
(32) 11.12.2020	B65D 8/00	(22) 29.06.2020
(33) United States of America	A47G 21/04	(54) A VALVE ASSEMBLY FOR
(51) B65D 77/04	(11) EP3838796	DISPENSERS
(11) EP3849919	(21) EP19217891.1	(73) The Procter & Gamble Company

(72) SAWIN, Philip Andrew MAGNESS, Robert Earl DALTON, David Andrew STEVENS, John Boyet HOSMER, Jennifer Elizabeth	(47) 30.08.2023 (87) FI2017050183 02.11.2017 (22) 17.03.2017 (54) LOCK MECHANISM (73) MacGregor Finland Oy (72) ÖSTBERG, Juhana (31) 20165366 (32) 28.04.2016 (33) Finland	(51) B65G 1/137 (11) EP3999450 (21) EP20736662.6 (47) 30.08.2023 (87) EP2020068647 21.01.2021 (22) 02.07.2020 (54) WINDOW CONVEYING TECHNOLOGY, PICKING SYSTEM AND MANUAL PICKING METHOD (73) SSI Schäfer Automation GmbH (AT) (72) GROESSL, Christoph HINTZ, Andreas (31) 102019119356 (32) 17.07.2019 (33) Germany
(31) 202063021147 P 201962878926 P (32) 07.05.2020 26.07.2019 (33) United States of America United States of America	(51) B65D 90/00 B63B 25/28 (11) EP3812301 (21) EP19825214.0 (47) 30.08.2023 (87) ES2019070381 02.01.2020 (22) 04.06.2019 (54) DEVICE FOR AUTOMATIC UNLASHING OF CARGO CONTAINERS (73) TEC Container S.A. (72) RAFAEL, Moragon Martinez (31) 201830978 U (32) 25.06.2018 (33) Spain	(73) SSI Schäfer Automation GmbH (AT) (72) GROESSL, Christoph HINTZ, Andreas (31) 102019119356 (32) 17.07.2019 (33) Germany
(51) B65D 88/36 (11) EP3546390 (21) EP19382209.5 (47) 30.08.2023 (22) 26.03.2019 (54) FLOATING MODULE FOR THE REDUCTION OF LOSSES BY EVAPORATION IN AQUEOUS-BASED LIQUIDS, AND METHOD FOR ITS MANUFACTURING (73) Arana Water Management S.L. (72) NAVARRO FERNANDEZ, Francisco Javier MAESTRE VALERO, Jose Francisco MARTIN GORRIZ, Bernardo GIMENO MARTINEZ, Jose Miguel MARTINEZ ALVAREZ, Victoriano	(51) B65F 1/14 B65F 1/16 G09F 7/10 (11) EP3566979 (21) EP18171409.8 (47) 30.08.2023 (22) 09.05.2018 (54) FUNCTIONAL ELEMENT FOR A WASTE CONTAINER (73) ESE World B.V. (72) SCHUH, Daniel	(51) B65G 1/137 B65G 47/38 B65G 47/61 (11) EP3592668 (21) EP18700162.3 (47) 30.08.2023 (87) EP2018050579 13.09.2018 (22) 10.01.2018 (54) METHOD FOR ORDER-PICKING GOODS AND ORDER-PICKING SYSTEM FOR CARRYING OUT THE METHOD (73) FERAG AG (72) SUTTER, Stefan (31) 2772017 (32) 07.03.2017 (33) Switzerland
(31) 201830436 U (32) 28.03.2018 (33) Spain	(51) B65D 88/78 B65D 88/54 B65D 90/00 B63C 11/00 E21B 41/00 E21B 19/00 B63G 8/42 (11) EP3524541 (21) EP19155437.7 (47) 30.08.2023 (22) 04.12.2014 (54) A SUBSEA STORAGE UNIT, SYSTEM AND METHOD THEREWITH (73) Subsea Logistics AS (72) BAKKE, Ruben (31) 20140007 (32) 03.01.2014 (33) Norway	(51) B65G 13/00 B02C 4/02 B02C 4/08 B02C 4/32 B65G 39/14 (11) EP3572356 (21) EP17866614.5 (47) 30.08.2023 (87) JP2017019433 11.05.2018 (22) 24.05.2017 (54) DEVICE FOR LOOSENING SOLIDIFIED MATERIAL (73) Hirano Seiki Industries Corporation (72) HIRANO, Takao (31) 2016217219 (32) 07.11.2016 (33) Japan
(51) B65D 90/00 (11) EP4001168 (21) EP21207915.6 (47) 30.08.2023 (22) 12.11.2021 (54) DEVICE FOR VERTICAL AND HORIZONTAL LOAD SECURING OF STACKED CARGO AND ITS USE (73) Container Technics nv (72) VAN PETEGHEM, Tycho (31) 202005809 (32) 12.11.2020 (33) Belgium	(51) B65G 1/02 G06Q 10/08 B29D 30/00 A47F 7/04 (11) EP3580150 (21) EP18751477.3 (47) 30.08.2023 (87) US2018017500 16.08.2018 (22) 08.02.2018 (54) SYSTEM FOR TIRE STORAGE, RETRIEVAL, AND INVENTORY MANAGEMENT (73) Allen, Thomas J. (72) Allen, Thomas J. (31) 201715429079 (32) 09.02.2017 (33) United States of America	(51) B65G 15/58 B65G 17/00 B65G 17/46 B65G 21/20 B65G 23/18 B65G 35/06 (11) EP3653542 (21) EP19218407.5 (47) 30.08.2023 (22) 11.12.2017 (54) CONVEYOR DEVICE AND CONVEYOR SYSTEM COMPRISING THE CONVEYOR DEVICE (73) ASP Automation GmbH (72) Schramm, Werner (31) 102016125533
(51) B65D 90/00 B60P 7/13 B63B 25/00 B61D 3/20 (11) EP3448782 (21) EP17788875.7	(51) B65G 1/04 (11) EP3784600 (21) EP18786733.8 (47) 30.08.2023 (87) EP2018077691 31.10.2019 (22) 11.10.2018 (54) CONTAINER-HANDLING VEHICLE (73) Autostore Technology AS (72) AUSTRHEIM, Trond (31) 20180587 (32) 25.04.2018 (33) Norway	(51) B65G 15/58 B65G 17/00 B65G 17/46 B65G 21/20 B65G 23/18 B65G 35/06 (11) EP3653542 (21) EP19218407.5 (47) 30.08.2023 (22) 11.12.2017 (54) CONVEYOR DEVICE AND CONVEYOR SYSTEM COMPRISING THE CONVEYOR DEVICE (73) ASP Automation GmbH (72) Schramm, Werner (31) 102016125533

(32) 23.12.2016	(31) 2021393	(33) United States of America
(33) Germany	(32) 25.07.2018	(51) B65H 35/08
(51) B65G 17/22	(33) Netherlands	B26D 1/40
B65G 17/38	(51) B65G 47/91	B26D 7/20
B65G 17/46	(11) EP3476782	B26F 1/20
B65G 23/06	(21) EP18203083.3	B26D 1/00
(11) EP4067267	(47) 30.08.2023	B26D 1/02
(21) EP22163615.2	(22) 29.10.2018	B26D 1/38
(47) 30.08.2023	(54) DEVICE FOR TRANSFERRING	B26F 1/18
(22) 22.03.2022	OBJECTS AND METHOD	(11) EP3131842
(54) TRANSPORT SYSTEM	(73) Heino Ilsemann GmbH	(21) EP15779752.3
(73) TAKTOMAT kurvengesteuerte	(72) Mann, Walter	(47) 30.08.2023
Antriebssysteme GmbH	(31) 202017005575 U	(87) IB2015052200
(72) HOFSTETTER, Norbert	(32) 27.10.2017	22.10.2015
(31) 202021101500 U	(33) Germany	(22) 25.03.2015
(32) 23.03.2021	(51) B65G 47/96	(54) PERFORATION BLADE FOR
(33) Germany	B07C 5/00	PERFORATING TISSUE PRODUCTS
(51) B65G 23/08	B07C 5/36	(73) Kimberly-Clark Worldwide, Inc.
B65G 39/12	(11) EP3274281	(72) MONTGOMERY, Walter F.
B65G 23/32	(21) EP16715474.9	WILSON, Matthew Robert
B65G 23/36	(47) 30.08.2023	BAGGOT, James, Leo
B65G 23/44	(87) EP2016056426	SARTAIN, Kevin B.
(11) EP3774602	06.10.2016	(31) 201414254549
(21) EP19709901.3	(22) 23.03.2016	(32) 16.04.2014
(47) 30.08.2023	(54) ASSEMBLY FOR HANDLING FRUIT	(33) United States of America
(87) EP2019055701	AND VEGETABLE PRODUCTS	(51) B65H 45/24
03.10.2019	(73) Unitec S.p.A.	B65H 35/04
(22) 07.03.2019	(72) BENEDETTI, Luca	B65H 45/28
(54) SUPPORT-ROLL STAND COMPRISING	(31) BO20150148	B26D 9/00
A PIVOTING FRAME FOR A BELT	(32) 27.03.2015	B26D 1/40
CONVEYOR SYSTEM	(33) Italy	B26F 1/20
(73) Schaeffler Technologies AG & Co. KG	(51) B65H 18/20	(11) EP4067276
Artur Kupper GmbH & Co. KG	F16C 27/04	(21) EP21171019.9
(72) SCHWANDTKE, Rolf	F16C 13/02	(47) 30.08.2023
GROPP, Holger	B65H 18/02	(22) 28.04.2021
MOTZKAU, Uwe	(11) EP3837201	(54) FIBER PRODUCT FOLDING
(31) 102018107127	(21) EP19719887.2	APPARATUS
(32) 26.03.2018	(47) 30.08.2023	(73) Chan Li Machinery Co., Ltd.
(33) Germany	(87) EP2019060722	(72) LIU, Wen-Cheng
(51) B65G 47/24	20.02.2020	(31) 110112030
A23N 4/06	(22) 26.04.2019	(32) 01.04.2021
A23N 4/14	(54) TAKE-UP APPARATUS	(33) Taiwan, Chinese Taipei
A23P 20/25	(73) Voith Patent GmbH	(51) B65H 54/28
A23N 4/08	(72) VAN HAAG, Rolf	(11) EP3831754
A23N 15/00	(31) 102018119740	(21) EP19844713.8
(11) EP3527511	(32) 14.08.2018	(47) 30.08.2023
(21) EP19156095.2	(33) Germany	(87) JP2019029895
(47) 30.08.2023	(51) B65H 26/08	06.02.2020
(22) 08.02.2019	B65H 63/06	(22) 30.07.2019
(54) METHOD FOR ALIGNING AND FOR	B66D 1/54	(54) WIRE ALIGNING AND WINDING
PROCESSING FRUIT	(11) EP3793923	DEVICE AND LEARNING SYSTEM
(73) Fraunhofer-Gesellschaft zur Förderung	(21) EP19802702.1	USED FOR SAME
der angewandten Forschung e.V.	(47) 30.08.2023	(73) FURUKAWA ELECTRIC CO., LTD.
(72) Boye, André	(87) US2019032258	(72) MIYAZAKI, Koichi
Weyrauch, Thomas	21.11.2019	ABE, Kyutaro
(31) 102018103673	(22) 14.05.2019	HIGUCHI, Kazuhiro
(32) 19.02.2018	(54) SYSTEM AND METHOD FOR	MORIKI, Kazuya
(33) Germany	DETECTION AND WARNING OF	(31) 2018144346
(51) B65G 47/84	WINCH ROPE NON-UNIFORMITY	(32) 31.07.2018
(11) EP3826947	(73) Tulsa Winch, Inc.	(33) Japan
(21) EP19755997.4	(72) TIRUMANI, Phaneendra, Govindasetty	(51) B65H 67/04
(47) 30.08.2023	KUMAR, Amit	(11) EP3964468
(87) NL2019050488	SANDHALINGAM, Sakthivel	(21) EP21187776.6
30.01.2020	REDDY, Raveena D.	(47) 30.08.2023
(22) 25.07.2019	BROWN, Lonney, James., Jr.	(22) 26.07.2021
(54) SORTING SYSTEM	KHAN, Haroon, A.	(54) METHOD FOR OPERATING A CAN
(73) Vanderlande Industries B.V.	(31) 201862671170 P	CHANGER, CAN CHANGER AND
(72) GROBBEN, Koen Maarten Geert	(32) 14.05.2018	TEXTILE MACHINE

(73) Trützschler Group SE	(11) EP3190075	B66B 23/06
(72) Strömer, Marcel	(21) EP16203385.6	(11) EP3026001
(31) 102020122952	(47) 30.08.2023	(21) EP13889832.5
(32) 02.09.2020	(22) 12.12.2016	(47) 30.08.2023
(33) Germany	(54) MONITORING UNIT FOR MONITORING	(87) CN2013087047
(51) B66B 1/34	AN ELEVATOR	29.01.2015
(11) EP4003892	(73) Lift Technology GmbH	(22) 13.11.2013
(21) EP20739998.1	(72) Hundt, Oliver Heinrich	(54) SAFETY DETECTION DEVICE
(47) 30.08.2023	(51) B66B 5/00	OF PASSENGER CONVEYING
(87) EP2020069871	B66B 13/22	APPARATUS AND IMPLEMENTATION
28.01.2021	(11) EP3310699	METHOD THEREOF
(22) 14.07.2020	(21) EP16730396.5	(73) Shanghai Mitsubishi Elevator Co., Ltd.
(54) METHOD AND ARRANGEMENT FOR	(47) 30.08.2023	(72) XIN, Yi
DETERMINING A CURRENT PRECISE	(87) EP2016064209	HE, Cheng
POSITION OF AN ELEVATOR CAR IN	29.12.2016	WU, Guoliang
AN ELEVATOR HOISTWAY	(22) 20.06.2016	CHEN, Jun
(73) INVENTIO AG	(54) SAFETY DEVICE OF A LIFT SYSTEM	(31) 201310320929
(72) VILLA, Valerio	(73) TK Elevator Innovation and Operations	(32) 26.07.2013
(31) 19187983	GmbH	(33) China
(32) 24.07.2019	(72) KRÄMER, Michael	(51) B66C 1/12
(33) European Patent Office (EPO)	(31) 102015211488	B66C 1/18
(51) B66B 3/00	(32) 22.06.2015	B66C 13/04
B66B 1/34	(33) Germany	B66C 13/08
B66B 1/46	(51) B66B 5/00	(11) EP3498653
(11) EP3656717	B66B 13/22	(21) EP18000955.7
(21) EP18834858.5	(11) EP3628625	(47) 30.08.2023
(47) 30.08.2023	(21) EP19199966.3	(22) 06.12.2018
(87) CN2018096253	(47) 30.08.2023	(54) TURNING TRAVERSE WITH AT LEAST
24.01.2019	(22) 26.09.2019	ONE LOOP ELEMENT
(22) 19.07.2018	(54) TIME DOMAIN REFLECTOMETRY	(73) SpanSet secutex Sicherheitstechnik
(54) SMART GUIDANCE FOR	FOR ELECTRICAL SAFETY CHAIN	GmbH
CONTROLLING PASSENGER TO	CONDITION BASED MAINTENANCE	(72) Franke, Boris
ENTER CORRECT ELEVATOR CAR	(73) Otis Elevator Company	(31) 102017011511
(73) Otis Elevator Company	(72) BRAUNWART, Paul R.	(32) 13.12.2017
(72) LI, Changle	ZACCHIO, Joseph	(33) Germany
LARMUSEAU, Adriaan Joris H.	LOVETT, Teems E.	(51) B66C 23/80
(31) 201710589473	(31) 201816142378	B66F 9/065
(32) 19.07.2017	(32) 26.09.2018	B66F 9/075
(33) China	(33) United States of America	(11) EP3363765
(51) B66B 5/00	(51) B66B 7/06	(21) EP18156056.6
(11) EP3556704	B66B 11/00	(47) 30.08.2023
(21) EP18167473.0	(11) EP3771682	(22) 09.02.2018
(47) 30.08.2023	(21) EP20188973.0	(54) STABILIZERS FOR SELF-PROPELLED
(22) 16.04.2018	(47) 30.08.2023	WORKING MACHINES
(54) AN ELEVATOR BRAKE	(22) 31.07.2020	(73) Manitou Italia S.r.l.
(73) KONE Corporation	(54) SHIP WITH AN ELEVATOR WITH BELT	(72) IOTTI, Marco
(72) TENHUNEN, Asmo	TENSIONING MEANS	(31) 201700019360
ROSSI, Janne	(73) Hans Lutz Maschinenfabrik GmbH & Co.	(32) 21.02.2017
WENLIN, Henri	KG	(33) Italy
(51) B66B 5/00	(72) Zischau, Tom	(51) B66D 1/48
(11) EP3434636	Lutz, Hans Martin	B66D 1/22
(21) EP18185780.6	(31) 102019120992	B64D 25/00
(47) 30.08.2023	(32) 02.08.2019	(11) EP3428114
(22) 26.07.2018	(33) Germany	(21) EP18182405.3
(54) BRAKE TORQUE DETECTION FOR	(51) B66B 11/00	(47) 30.08.2023
ELEVATOR BRAKE	B66B 5/02	(22) 09.07.2018
(73) Otis Elevator Company	(11) EP1882668	(54) SELF-HOMING HOIST
(72) CHEN, Yaodong	(21) EP06117751.5	(73) Goodrich Corporation
YAMADA, Takahiro	(47) 30.08.2023	(72) HUMBLE, Robert
HASHIMOTO, Keiji	(22) 24.07.2006	(31) 201715645027
FURUTA, Shinichi	(54) Elevator with motor placed in the	(32) 10.07.2017
CHO, Sunggun	counterweight	(33) United States of America
(31) 201710622431	(73) Diethelm, Hansruedi	(51) B66F 9/06
(32) 27.07.2017	(72) Diethelm, Hansruedi	B66F 9/075
(33) China	(51) B66B 29/00	(11) EP3845482
(51) B66B 5/00	B66B 23/00	(21) EP20210348.7
B66B 1/34	B66B 23/02	(47) 30.08.2023
		(22) 27.11.2020

(54) DRIVERLESS TRANSPORT VEHICLE WITH A LOAD SUPPORT PLATFORM WHICH CAN BE RAISED AND LOWERED BY A SPINDLE DRIVE	(73) STILL GmbH (72) TÜGEL, Caspar (31) 102020104801 102019135874 (32) 24.02.2020 30.12.2019 (33) Germany Germany	CONTAINER TO BE FILLED IN A BEVERAGE FILLING SYSTEM (73) KRONES AG (72) Landler, Bruno Gruenwald, Angela Passberger, Sebastian Doblinger, Josef Gebauer, Christian Braun, Franz Mueller, Holger (31) 102018131077 (32) 05.12.2018 (33) Germany	27.05.2021 (22) 19.11.2020 (54) LIQUID CONTAINER SPOUT (73) TotalEnergies OneTech (72) MARTIN, François-Alain LAFIN, Benoît CELERIER, Yannick PAVIA, Franck BERRE, Clémence FOULONNEAU, Grégory (31) 1913030 (32) 21.11.2019 (33) France
(51) B66F 13/00 (11) EP3628637 (21) EP19075012.5 (47) 30.08.2023 (22) 17.09.2019 (54) EXTENDABLE DEVICE FOR FORMING A MAST OR SUPPORT	(73) van Slagmaat, Vincent Franciscus Albertus (72) van Slagmaat, Vincent Franciscus Albertus (31) 1043002 (32) 18.09.2018 (33) Netherlands	(51) B67D 1/08 (11) EP3674256 (21) EP20157884.6 (47) 30.08.2023 (22) 12.01.2017 (54) DISPENSER WITH A CARTRIDGE HOLDER (73) Freezio AG (72) FISCHER, Daniel KRÜGER, Marc EMPL, Günter (31) 102016218884 102016218507 102016218509 102016212013 102016212012 102016200254 (32) 29.09.2016 27.09.2016 27.09.2016 01.07.2016 01.07.2016 12.01.2016 (33) Germany Germany Germany Germany Germany Germany	(51) B67D 7/76 B67D 7/78 B01D 36/00 (11) EP3860943 (21) EP19868973.9 (47) 30.08.2023 (87) US2019054091 09.04.2020 (22) 01.10.2019 (54) FUEL STORAGE AND SUPPLY ARRANGEMENT HAVING FUEL CONDITIONING AND FILTRATION ASSEMBLY (73) Veeder-Root Company (72) MENKE, Thomas, Scott PETERSON, Nicholas, Robert BEVINS, James, T. GIBSON, Kyle, Stephen REID, Kent, Deloy SINOSKY, Diane, Marie (31) 201816153541 201816149665 (32) 05.10.2018 02.10.2018 (33) United States of America United States of America
(51) B67B 1/10 B29C 65/00 B67B 3/12 B67B 3/20 (11) EP3323772 (21) EP17193780.8 (47) 30.08.2023 (22) 28.09.2017 (54) DEVICE FOR APPLYING A CLOSURE ON A MOUTH OF A CONTAINER	(73) Gea Procomac S.p.A. (72) ABELLI, Paolo ANTIGA, Simone (31) 201600115892 (32) 16.11.2016 (33) Italy	(32) 29.09.2016 27.09.2016 27.09.2016 01.07.2016 01.07.2016 12.01.2016 (33) Germany Germany Germany Germany Germany Germany	(31) 201816153541 201816149665 (32) 05.10.2018 02.10.2018 (33) United States of America United States of America
(51) B67B 3/20 B67B 3/26 (11) EP3529199 (21) EP17798326.9 (47) 30.08.2023 (87) IB2017056475 26.04.2018 (22) 18.10.2017 (54) GRIPPING ASSEMBLY FOR CAPPING HEAD FOR THE APPLICATION OF CAPS ON CONTAINERS OR BOTTLES	(73) Arol S.p.A. (72) CAFFA, Marco CIPRIANI, Marco (31) 201600106114 (32) 21.10.2016 (33) Italy	(51) B67D 3/04 (11) EP4069628 (21) EP20816646.2 (47) 30.08.2023 (87) IT2020050277 10.06.2021 (22) 11.11.2020 (54) TAMPER-PREVENTING LIQUID DISPENSING TAP WITH AUTOMATIC OPENING (73) Vitop Moulding S.R.L. (72) NINI, Diego (31) 201900022887 (32) 03.12.2019 (33) Italy	(31) 201816153541 201816149665 (32) 05.10.2018 02.10.2018 (33) United States of America United States of America
(51) B67C 3/04 B67C 3/06 (11) EP3663255 (21) EP19213956.6 (47) 30.08.2023 (22) 05.12.2019 (54) DEVICE AND METHOD FOR FILLING A FILLING PRODUCT INTO A	(73) Arol S.p.A. (72) CAFFA, Marco CIPRIANI, Marco (31) 201600106114 (32) 21.10.2016 (33) Italy	(51) B67D 7/00 B67D 7/02 B65D 25/48 B65D 47/26 B65D 47/28 B65D 47/32 F16L 37/12 (11) EP4061767 (21) EP20807054.0 (47) 30.08.2023 (87) EP2020082711	(51) C01B 3/00 C01B 3/06 C08G 77/12 C08G 77/06 C08G 77/10 (11) EP4051629 (21) EP20796830.6 (47) 30.08.2023 (87) EP2020080468 06.05.2021 (22) 29.10.2020 (54) PROCESS FOR PRODUCING AND REGENERATING HYDROGEN CARRIER COMPOUNDS (73) Hysilabs, SAS (72) LOME, Vincent BURCHER, Benjamin BENOIT, Remy (31) 20305574 19306415 (32) 02.06.2020 31.10.2019 (33) European Patent Office (EPO) European Patent Office (EPO)
			(51) C01B 3/02 C01B 3/38 C01C 1/04 C01B 13/02 C25B 1/04

C01B 3/48	14.11.2019	(72) MORTENSEN, Peter Mølgaard
(11) EP3658491	(22) 03.05.2019	AASBERG-PETERSEN, Kim
(21) EP18739849.0	(54) SOLAR RECEIVER-REACTOR	HAN, Pat A.
(47) 30.08.2023	(73) Synhelion SA	(31) PA201800345
(87) EP2018068808	ENI S.p.A.	PA201800237
31.01.2019	(72) AMBROSETTI, Gianluca	PA201700522
(22) 11.07.2018	GOOD, Philipp	PA201700425
(54) METHOD FOR THE PREPARATION OF	(31) 9742018	(32) 06.07.2018
AMMONIA SYNTHESIS GAS	5682018	28.05.2018
(73) Topsoe A/S	(32) 09.08.2018	25.09.2017
(72) KRØLL JENSEN, Annette E.	07.05.2018	25.07.2017
HAN, Pat A.	(33) Switzerland	(33) Denmark
(31) PA201800237	Switzerland	Denmark
PA201700522	(51) C01B 3/22	Denmark
PA201700425	(11) EP3763669	Denmark
(32) 28.05.2018	(21) EP20184763.9	(51) C01B 11/02
25.09.2017	(47) 30.08.2023	B01D 63/00
25.07.2017	(22) 08.07.2020	B01D 69/14
(33) Denmark	(54) DIHYDROGEN GENERATOR	B01J 23/34
Denmark	(73) Commissariat à l'Energie Atomique et	B01J 23/42
Denmark	aux Energies Alternatives	B01J 35/06
(51) C01B 3/02	(72) BLANCHOT, Olivier	(11) EP3810546
C01C 1/04	ROUGEAUX, Isabelle	(21) EP19744790.7
C01B 3/38	CAPRON, Philippe	(47) 30.08.2023
C07C 29/151	FAUCHEUX, Vincent	(87) GB2019051788
C25B 1/04	DELMAS, Jérôme	02.01.2020
(11) EP3658493	(31) 1907803	(22) 25.06.2019
(21) EP18743790.0	(32) 11.07.2019	(54) METHOD AND APPARATUS FOR
(47) 30.08.2023	(33) France	GENERATING CHLORINE DIOXIDE
(87) EP2018069793	(51) C01B 3/38	(73) Scotmas Group Limited
31.01.2019	C01B 13/02	(72) PALMER, Nicola Louise
(22) 20.07.2018	C25B 1/04	CAMERON, Alistair Peter
(54) PROCESS FOR THE CO-PRODUCTION	(11) EP3658495	LIVESEY, Thomas James
OF METHANOL AND AMMONIA	(21) EP18743787.6	(31) 201810369
(73) Topsoe A/S	(47) 30.08.2023	(32) 25.06.2018
(72) HAN, Pat A.	(87) EP2018069781	(33) United Kingdom
(31) PA201800352	31.01.2019	(51) C01B 25/222
PA201800345	(22) 20.07.2018	C05B 11/08
PA201800351	(54) METHOD FOR THE PREPARATION OF	C05C 9/00
PA201800237	SYNTHESIS GAS	(11) EP3898508
PA201700522	(73) Topsoe A/S	(21) EP19818142.2
PA201700425	(72) AASBERG-PETERSEN, Kim	(47) 30.08.2023
(32) 06.07.2018	HAN, Pat A.	(87) EP2019085681
06.07.2018	MORTENSEN, Peter Mølgaard	25.06.2020
06.07.2018	HULTQVIST, Michael	(22) 17.12.2019
28.05.2018	(31) PA201800352	(54) PROCESS FOR RECOVERING
25.09.2017	PA201800237	PHOSPHORUS
25.07.2017	PA201700522	(73) Vomm Impianti e Processi S.P.A.
(33) Denmark	PA201700425	(72) VEZZANI, Massimo
Denmark	(32) 06.07.2018	(31) 201800020950
Denmark	28.05.2018	(32) 21.12.2018
Denmark	25.09.2017	(33) Italy
Denmark	25.07.2017	(51) C01B 32/158
Denmark	(33) Denmark	C01B 32/162
(51) C01B 3/04	Denmark	H01M 4/587
B01J 29/12	Denmark	H01M 10/0525
F24S 20/20	Denmark	H01M 50/417
F24S 50/40	(51) C01B 3/38	(11) EP3915937
F24S 50/80	C25B 1/04	(21) EP20765527.5
F24S 70/10	(11) EP3658496	(47) 30.08.2023
F24S 70/65	(21) EP18743789.2	(87) KR2020003212
F24S 90/00	(47) 30.08.2023	10.09.2020
F24S 80/00	(87) EP2018069788	(22) 06.03.2020
B01J 19/12	31.01.2019	(54) CARBON NANOTUBE, ELECTRODE
(11) EP3790842	(22) 20.07.2018	INCLUDING CARBON NANOTUBE,
(21) EP19726891.5	(54) METHOD FOR THE PREPARATION OF	AND SECONDARY BATTERY
(47) 30.08.2023	SYNTHESIS GAS	(73) LG Energy Solution, Ltd.
(87) CH2019050009	(73) Topsoe A/S	(72) YOON, Kwang Woo

KIM, Tae Gon	(22) 21.06.2019	(33) Japan
KIM, Hak Yoon	(54) HYDROUS SILICA FOR RUBBER- REINFORCING FILLER	(51) C02F 1/00
CHAE, Byung Joon	(73) Tosoh Silica Corporation	B01D 21/00
SON, Seung Yong	(72) IMABEPPU, Yuta	B01D 21/24
LEE, Dae Jin	KANEMITSU, Hideo	C02F 1/52
SOHN, Se Hui	(31) 2018151034	(11) EP3130385
PARK, Sin Young	(32) 10.08.2018	(21) EP16151563.0
HWANG, Jin Young	(33) Japan	(47) 30.08.2023
KIM, Seul Ki	(51) C01B 39/48	(22) 15.01.2016
JUNG, Wang Mo	C01B 39/02	(54) SEDIMENTATION TANK AND WATER TREATMENT APPARATUS INCLUDING THE SAME
LEE, Bo Ram	(11) EP3678993	(73) Doosan Enerbility Co., Ltd.
(31) 20190027180	(21) EP18734960.0	(72) MIN, Jine Hee
20190026479	(47) 30.08.2023	RO, Young Jun
(32) 08.03.2019	(87) IB2018054000	LEE, Chul Woo
07.03.2019	14.03.2019	(31) 20150112208
(33) Korea (Republic)	(22) 05.06.2018	(32) 10.08.2015
Korea (Republic)	(54) SYNTHESIS OF AFX FRAMEWORK TYPE MOLECULAR SIEVES	(33) Korea (Republic)
(51) C01B 32/50	(73) Chevron U.S.A. Inc.	(51) C02F 1/28
C01B 32/30	(72) XIE, Dan	(11) EP3797092
B01D 53/04	JENSEN, Kurt Owen	(21) EP19725361.0
B01D 53/96	(31) 201715697777	(47) 30.08.2023
C07C 319/20	(32) 07.09.2017	(87) EP2019063235
C07C 323/57	(33) United States of America	28.11.2019
(11) EP3617142	(51) C01G 45/12	(22) 22.05.2019
(21) EP18790049.3	C01G 51/00	(54) METHOD FOR TREATING A FLUID BY UPFLOW THROUGH A BED OF ADSORBENT MEDIA
(47) 30.08.2023	C01G 53/00	(73) Veolia Water Solutions & Technologies Support
(87) JP2018017205	H01M 4/131	(72) GAID, Abdelkader
01.11.2018	H01M 4/36	(31) 1854254
(22) 27.04.2018	H01M 4/505	(32) 22.05.2018
(54) RECOVERED-CARBON-DIOXIDE PURIFYING METHOD AND METHIONINE MANUFACTURING METHOD INCLUDING RECOVERED- CARBON-DIOXIDE PURIFYING STEP	H01M 4/525	(33) France
(73) SUMITOMO CHEMICAL COMPANY, LIMITED	H01M 10/052	(51) C02F 3/30
(72) KATAYAMA, Takuya	H01M 4/02	C02F 3/28
KATAGAMI, Ryouzuke	(11) EP4032858	C02F 3/34
OMOTO, Norihito	(21) EP21211684.2	C02F 3/00
IWASAKI, Ryosuke	(47) 30.08.2023	(11) EP3255016
KOIZUMI, Yoshiyuki	(22) 01.12.2021	(21) EP16382266.1
(31) 2017087749	(54) POSITIVE ELECTRODE ACTIVE MATERIAL AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY USING THE POSITIVE ELECTRODE ACTIVE MATERIAL	(47) 30.08.2023
(32) 27.04.2017	(73) Prime Planet Energy & Solutions, Inc.	(22) 10.06.2016
(33) Japan	(72) PROCTER, Momoko	(54) METHOD FOR STARTING UP AND CONTROLLING A BIOLOGICAL PROCESS FOR AMMONIUM REMOVAL AT LOW AMMONIUM CONCENTRATIONS AND LOW TEMPERATURE THROUGH THE USE OF A TWO STAGE AUTOTROPHIC NITROGEN REMOVAL PROCESS
(51) C01B 33/035	(31) 2021006797	(73) Universidade de Santiago de Compostela
B01J 8/42	(32) 20.01.2021	FCC Aqualia, S.A.
C01B 33/029	(33) Japan	(72) VAL DEL RIO, María Angeles
C01B 33/03	(51) C01G 53/00	ROGALLA, Frank
(11) EP3999469	H01M 4/505	MORALES PEREIRA, Nicolás
(21) EP19742178.7	H01M 4/525	MÉNDEZ PAMPÍN, Ramón
(47) 30.08.2023	H01M 10/0525	MOSQUERA CORRAL, Anuska
(87) EP2019069110	H01M 4/02	VÁZQUEZ PADÍN, Jose Ramón
21.01.2021	(11) EP3357867	CAMPOS GÓMEZ, Jose Luis
(22) 16.07.2019	(21) EP16851482.6	PEDROUSO FUENTES, Alba
(54) METHOD FOR PRODUCING POLYCRYSTALLINE SILICON	(47) 30.08.2023	(51) C02F 3/34
(73) Wacker Chemie AG	(87) JP2016078344	C02F 1/66
(72) WOLFF, Jürgen	06.04.2017	C02F 103/36
WENZEIS, Markus	(22) 27.09.2016	C02F 103/28
(51) C01B 33/193	(54) NICKEL MANGANESE CONTAINING- COMPOSITE HYDROXIDE AND METHOD FOR PRODUCING SAME	C02F 101/10
B60C 1/00	(73) Sumitomo Metal Mining Co., Ltd.	(11) EP4043408
C08K 3/36	(72) KANEDA, Haruki	
C01B 33/18	ANDO, Takaaki	
(11) EP3835263	USHIO, Ryoza	
(21) EP19847905.7	(31) 2015193650	
(47) 30.08.2023	(32) 30.09.2015	
(87) JP2019024672		
13.02.2020		

(21) EP22159369.2	G03F 1/60	(51) C03C 3/097
(47) 30.08.2023	C03C 3/097	C03C 3/11
(22) 16.07.2019	C03C 10/00	C03C 10/00
(54) BIOLOGICAL TREATMENT OF INDUSTRIAL ALKALINE STREAMS	(11) EP3107871	(11) EP4059903
(73) Stora Enso Oyj	(21) EP15705614.4	(21) EP22162007.3
Paques I.P. B.V.	(47) 30.08.2023	(47) 30.08.2023
(72) Noordink, Michel Paulus Maria	(87) EP2015053576	(22) 15.03.2022
Wadsborn, Rickard	27.08.2015	(54) GLASS CERAMIC HAVING SPECIFIC THERMAL EXPANSION CHARACTERISTICS
van Zessen, Erik	(22) 20.02.2015	(73) SCHOTT AG
Björk, Maria	(54) HIGHLY HOMOGENEOUS GLASS-CERAMIC COMPONENT	(72) MITRA, Ina
Kotilainen, Ari	(73) SCHOTT AG	(31) 102021134308
Timonen, Olli	(72) FADERL, Johann	102021106419
(31) 18184411	JEDAMZIK, Ralf	(32) 22.12.2021
(32) 19.07.2018	LIFKA, Thomas	16.03.2021
(33) European Patent Office (EPO)	GRÜN, Steffen	(33) Germany
(51) C03B 5/235	(31) 102014211700	Germany
(11) EP3247679	102014002253	
(21) EP16740792.3	(32) 18.06.2014	(51) C03C 4/20
(47) 30.08.2023	21.02.2014	A61J 1/06
(87) US2016014399	(33) Germany	A61J 1/14
28.07.2016	Germany	C03C 23/00
(22) 21.01.2016	(51) C03B 37/014	(11) EP3755670
(54) VITRIFIED MATERIAL CONTROL SYSTEM AND METHOD	C03B 19/14	(21) EP19706244.1
(73) Plasma Tech Holdings, LLC	C03B 20/00	(47) 30.08.2023
(72) JURANITCH, James C.	(11) EP3473603	(87) EP2019052926
(31) 201562106077 P	(21) EP18201288.0	29.08.2019
(32) 21.01.2015	(47) 30.08.2023	(22) 06.02.2019
(33) United States of America	(22) 18.10.2018	(54) SMALL GLASS BOTTLE HAVING INCREASED CHEMICAL RESISTANCE
(51) C03B 19/06	(54) METHOD OF MAKING HALOGEN DOPED SILICA	(73) SCHOTT Pharma AG & Co. KGaA
C03C 3/06	(73) Corning Incorporated	SCHOTT Pharma Schweiz AG
C03C 17/23	(72) DAWES, Steven Bruce	(72) ROTHAAAR, Uwe
C03B 20/00	BOOKBINDER, Dana Graig	BUSCKE, Florence
C03B 32/02	TANDON, Pushkar	FROST, Robert
(11) EP3428132	FIACCO, Richard Michael	HLADIK, Bernhard
(21) EP17180502.1	LI, Ming-Jun	(31) 102018104164
(47) 30.08.2023	(31) 2019876	(32) 23.02.2018
(22) 10.07.2017	201762574945 P	(33) Germany
(54) QUARTZ GLASS COMPONENT HAVING HIGH THERMAL STABILITY, SEMI-FINISHED PRODUCT FOR SAME AND METHOD OF MANUFACTURING THE SAME	(32) 09.11.2017	(51) C03C 17/00
(73) Heraeus Quarzglas GmbH & Co. KG	20.10.2017	C03C 17/32
(72) BAIER, Thomas	(33) Netherlands	C03C 17/34
TSCHOLITSCH, Nadine	United States of America	C03C 17/42
SCHENK, Christian	(51) C03C 3/093	C03C 21/00
(51) C03B 23/11	C03C 3/097	C03B 21/02
(11) EP3743390	C03C 21/00	A61J 1/14
(21) EP19703025.7	C03C 4/20	A61J 1/06
(47) 30.08.2023	C03C 10/00	(11) EP3717431
(87) EP2019051802	(11) EP3752470	(21) EP18819438.5
01.08.2019	(21) EP19836202.2	(47) 30.08.2023
(22) 24.01.2019	(47) 30.08.2023	(87) US2018063142
(54) HOT-FORMING DEVICE FOR PRODUCING GLASS CONTAINERS FROM A GLASS TUBE	(87) US2019060979	06.06.2019
(73) SCHOTT Pharma Schweiz AG	22.05.2020	(22) 29.11.2018
(72) SEGNER, Johannes	(22) 12.11.2019	(54) GLASS ARTICLES WITH LOW-FRICTION COATINGS AND METHODS FOR COATING GLASS ARTICLES
TREMP, Marcel	(54) CHEMICALLY STRENGTHENED LITHIUM DISILICATE-PETALITE GLASS- CERAMICS	(73) Corning Incorporated
(31) 102018101842	(73) Corning Incorporated	(72) WANG, Ji
(32) 26.01.2018	(72) NONI, Lisa Marie	FADEEV, Andrei Gennadyevich
(33) Germany	ROUSSEV, Rostislav Vatchev	(31) 201762592664 P
(51) C03B 32/02	WILSON, Shelby Kerin	(32) 30.11.2017
G02B 7/18	UKRAINCZYK, Ljerka	(33) United States of America
C03C 1/00	ANDREWS, Ryan Claude	(51) C03C 17/02
G03F 1/22	FAHEY, Albert Joseph	C23D 5/08
	SMITH, Charlene Marie	C23D 13/02
	(31) 201862760753 P	C04B 41/00
	(32) 13.11.2018	(11) EP3763686
	(33) United States of America	(21) EP19184905.8

(47) 30.08.2023	27.06.2019	OF PRE-IMPREGNATED FIBER-
(22) 08.07.2019	(22) 12.12.2018	REINFORCED COMPOSITE MATERIAL
(54) REPAIR OF DEFECTS IN A GLASS	(54) ARTICLE COMPRISING A	AND ITS USE
OR GLASS-CERAMIC COATING ON A	FUNCTIONAL COATING AND A	(73) Kompozitor Kft.
METALLIC OR CERAMIC SUBSTRATE	TEMPORARY PROTECTIVE LAYER	(72) Kecskemethy, Lídia
INCLUDING SUBSTRATE SURFACE	MADE OF POLYFURANIC RESIN	Piukovics, Norbert
(73) OMERAS GmbH Oberflächenveredelung	(73) SAINT-GOBAIN GLASS FRANCE	Kovácsay, István
und Metallverarbeitung	(72) HEURTEFEU, Bertrand	(31) 1800426
(72) Knauf, Oliver	LOHOU, Stéphane	(32) 13.12.2018
(51) C03C 17/28	(31) 1762312	(33) Hungary
C08K 3/24	(32) 18.12.2017	(51) C04B 28/06
C08K 5/09	(33) France	C04B 28/14
C08K 5/19	(51) C03C 23/00	C04B 28/16
C08L 91/06	C03C 3/097	C04B 40/00
(11) EP4118045	C03B 25/02	C04B 103/52
(21) EP21735930.6	C03B 27/00	(11) EP3687953
(47) 30.08.2023	C03B 29/02	(21) EP18768912.0
(87) EP2021067315	H01L 21/687	(47) 30.08.2023
30.12.2021	(11) EP3478641	(87) EP2018075309
(22) 24.06.2021	(21) EP17740516.4	04.04.2019
(54) CATIONIC STABILIZATION	(47) 30.08.2023	(22) 19.09.2018
(73) ARKEMA FRANCE	(87) US2017039370	(54) RETARDER FOR CALCIUM
(72) HOEKMAN, Leendert	04.01.2018	SULFOALUMINATE BELITE CEMENT
(31) 2006617	(22) 27.06.2017	(73) Heidelberg Materials AG
(32) 24.06.2020	(54) GLASS-BASED ARTICLE WITH	(72) WORTMANN, Kai
(33) France	ENGINEERED STRESS DISTRIBUTION	BOLTE, Gerd
(51) C03C 17/34	AND METHOD OF MAKING SAME	(31) 17193826
C03C 17/36	(73) Corning Incorporated	(32) 28.09.2017
(11) EP3725751	(72) FURNAS, William John	(33) European Patent Office (EPO)
(21) EP20172694.0	KUKSENKOVA, Ekaterina	(51) C04B 35/56
(47) 30.08.2023	Aleksandrovna	C04B 35/58
(22) 02.04.2014	FAGAN, Sumalee Likitvanichkul	C04B 35/634
(54) HEAT TREATABLE COATED GLASS	(31) 201662356904 P	C04B 35/645
PANE	(32) 30.06.2016	C04B 35/66
(73) Pilkington Group Limited	(33) United States of America	C04B 35/80
(72) BUCKETT, John	(51) C03C 27/06	C04B 35/626
OLDFIELD, John William	C08L 67/03	F02K 9/60
SHERIDAN, Rebecca	C08L 81/04	F02K 9/97
RIDEALGH, John Andrew	C09K 3/10	(11) EP3408245
(31) 201306611	E06B 3/66	(21) EP17710612.7
(32) 11.04.2013	(11) EP3560900	(47) 30.08.2023
(33) United Kingdom	(21) EP17885413.9	(87) IB2017050418
(51) C03C 17/36	(47) 30.08.2023	03.08.2017
(11) EP3830049	(87) JP2017044866	(22) 26.01.2017
(21) EP19753199.9	28.06.2018	(54) COMPOSITE MATERIAL BASED ON C
(47) 30.08.2023	(22) 14.12.2017	FIBERS WITH ULTRA-REFRACTORY,
(87) IB2019056575	(54) SEALING MATERIAL FOR MULTI-	HIGH TENACITY AND ABLATION
06.02.2020	LAYERED GLASSES, AND MULTI-	RESISTANT MATRIX
(22) 01.08.2019	LAYERED GLASS	(73) Consiglio Nazionale Delle Ricerche
(54) COATED ARTICLE INCLUDING	(73) DIC Corporation	(72) SCITI, Diletta
ULTRA-FAST LASER TREATED	(72) YOSHIMURA Hiroshi	MEDRI, Valentina
SILVER-INCLUSIVE LAYER IN LOW-	NORO Daiki	ZOLI, Luca
EMISSION THIN FILM COATING,	TAJIRI Yusuke	(31) UB20160498
AND/OR METHOD OF MAKING THE	(31) 2016248892	(32) 27.01.2016
SAME	(32) 22.12.2016	(33) Italy
(73) Guardian Europe S.à.r.l.	(33) Japan	(51) C04B 35/638
Guardian Glass, LLC	(51) C04B 26/12	C04B 35/64
(72) VEERASAMY, Victor	C08J 5/24	C23C 24/08
DISTELDORF, Bernd	F23J 13/02	C04B 35/58
(31) 201816052166	C04B 111/00	B28B 1/00
(32) 01.08.2018	C04B 111/28	C04B 35/111
(33) United States of America	(11) EP3666742	C04B 41/87
(51) C03C 17/36	(21) EP19020238.2	C04B 41/50
C03B 40/00	(47) 30.08.2023	C04B 41/85
(11) EP3727857	(22) 29.03.2019	B28B 1/32
(21) EP18833474.2	(54) IMPROVED PHENOL-FURAN RESIN	C04B 35/622
(47) 30.08.2023	COMPOSITION WITH REDUCED	(11) EP3412642
(87) FR2018053229	COMBUSTIBILITY, PREPARATION	(21) EP17747538.1

(47) 30.08.2023	C04B 41/52	31.08.2017
(87) JP2017003859	C04B 41/86	(22) 24.02.2017
10.08.2017	C04B 41/89	(54) METHOD FOR PURIFYING
(22) 02.02.2017	(11) EP3508464	1-CHLORO-2,3,3,3-
(54) PRODUCTION METHOD OF A	(21) EP17839899.6	TETRAFLUOROPROPENE
CERAMIC COMPACT	(47) 30.08.2023	AND (Z)-1-CHLORO-2,3,3,3-
(73) NGK Insulators, Ltd.	(87) MX2017000038	TETRAFLUOROPROPENE
Niterra Co., Ltd.	15.02.2018	(73) AGC INC.
Toto Ltd.	(22) 24.03.2017	(72) TANIGUCHI, Tomoaki
Noritake Co., Limited	(54) CERAMIC COATINGS WITH APATITE	NOMURA, Jumpei
Japan Fine Ceramics Center	CARBONATE THAT ALLOW A TACTILE	HAYASE, Takashi
(72) SUEHIRO, Satoshi	THERMAL SENSATION SIMILAR TO	SAKAI, Takayuki
KIMURA, Teiichi	WOOD AND GOOD RESISTANCE	(31) 2016035365
(31) 2017011533	AGAINST WEAR, CHEMICAL ATTACK	(32) 26.02.2016
2016256688	AND STAINING	(33) Japan
2016256687	(73) Porcelanite Lamosa, S.A. De C.V.	(51) C07C 29/132
2016021265	(72) BASURTO MORALES, Luis Alberto	(11) EP3494102
2016021264	VARGAS GUTIÉRREZ, Gregorio	(21) EP17745194.5
(32) 25.01.2017	DEL ANGEL, Jorge Abraham Daniel	(47) 30.08.2023
28.12.2016	VALDÉS GÁMEZ, Luis Eduardo	(87) EP2017069568
28.12.2016	FERNÁNDEZ FUENTES, Antonio	08.02.2018
05.02.2016	(31) 2016010346	(22) 02.08.2017
05.02.2016	(32) 10.08.2016	(54) PROCESS FOR THE PRODUCTION OF
(33) Japan	(33) Mexico	GLYCOLS
Japan	(51) C07C 1/04	(73) Shell Internationale Research
Japan	C07C 1/24	Maatschappij B.V.
Japan	C07C 11/04	(72) DE VLIEGER, Dionysius, Jacobus, Maria
Japan	C07C 11/06	HUIZENGA, Pieter
(51) C04B 35/80	C07C 29/141	VAN DER HEIDE, Evert
C04B 41/89	C07C 31/10	(31) 16182811
F01D 5/28	C07C 45/50	(32) 04.08.2016
C04B 41/45	C07C 47/02	(33) European Patent Office (EPO)
C04B 41/50	C07C 4/02	(51) C07C 29/132
C04B 35/628	(11) EP3922621	C07C 29/60
C04B 35/573	(21) EP20179366.8	C07C 31/20
C04B 41/88	(47) 30.08.2023	C08H 8/00
B22C 9/04	(22) 10.06.2020	(11) EP4034517
C04B 35/565	(54) PROCESS FOR MANUFACTURING	(21) EP20775364.1
B22C 7/02	PROPYLENE	(47) 30.08.2023
(11) EP3793963	(73) Linde GmbH	(87) EP2020077009
(21) EP19730199.7	(72) Zander, Hans-Jörg	01.04.2021
(47) 30.08.2023	Haidegger, Ernst	(22) 25.09.2020
(87) FR2019051102	Meiswinkel, Andreas	(54) PRE-TREATMENT OF
21.11.2019	(51) C07C 1/20	LIGNOCELLULOSIC FEEDS FOR THE
(22) 15.05.2019	C07C 2/58	PRODUCTION OF GLYCOLS
(54) PROCESS FOR MANUFACTURING A	C07C 2/86	(73) Shell Internationale Research
CMC PART	(11) EP3722272	Maatschappij B.V.
(73) Safran Ceramics	(21) EP20171075.3	(72) TE MOLDER, Thimo, Daniel, Jozef
SAFRAN	(47) 30.08.2023	VAN DER HEIDE, Evert
SAFRAN AIRCRAFT ENGINES	(22) 21.10.2016	LANGE, Jean-Paul, Andre, Marie,
(72) PODGORSKI, Michaël	(54) PROCESS OF MAKING OLEFINS	Joseph, Ghislain
MENDEZ, Emilie, Chantal, Gisèle	OR ALKYLATE BY REACTION OF	HUIZENGA, Pieter
RAPPART, Yvan	METHANOL AND/OR DME OR BY	(31) 19199673
ZHANG, Wen	REACTION OF METHANOL AND/OR	(32) 25.09.2019
DAMBRINE, Bruno, Jacques, Gérard	DME AND BUTANE	(33) European Patent Office (EPO)
LELEU, Charles	(73) Exelus, Inc.	(51) C07C 29/132
(31) 1854053	(72) VADHRI, Vamsi M.	C07C 29/60
1854047	MUKHERJEE, Mitrajit	C07C 31/20
(32) 15.05.2018	JOSHI, Narendra	C08H 8/00
15.05.2018	(31) 201562244677 P	(11) EP4034518
(33) France	(32) 21.10.2015	(21) EP20775366.6
France	(33) United States of America	(47) 30.08.2023
(51) C04B 41/45	(51) C07C 17/38	(87) EP2020077013
C04B 35/447	C07C 21/18	01.04.2021
C04B 14/26	(11) EP3421445	(22) 25.09.2020
E04F 15/08	(21) EP17756625.4	(54) PRE-TREATMENT OF
C04B 33/34	(47) 30.08.2023	LIGNOCELLULOSIC FEEDS FOR THE
C04B 41/00	(87) JP2017007018	PRODUCTION OF GLYCOLS

(73) Shell Internationale Research Maatschappij B.V.	WHITE, Daniel, F.	(22) 21.09.2017
(72) LANGE, Jean-Paul, Andre, Marie, Joseph, Ghislain	SALISBURY, Brian, A.	(54) METHOD OF PREPARING GLYCOL ESTERS WITH LOW COLOR AND PEROXIDE CONTENT
VAN DER HEIDE, Evert	HEARN, John, D.	(73) Public Joint Stock Company "Sibur Holding"
TE MOLDER, Thimo, Daniel, Jozef	HALLINAN, Noel, C.	(72) POPOVTSEV, Egor Evgenievich
HUIZENGA, Pieter	(31) 201762527526 P	NOSIKOV, Aleksei Aleksandrovich
(31) 19199650	(32) 30.06.2017	IGASHEVA, Varvara Petrovna
(32) 25.09.2019	(33) United States of America	
(33) European Patent Office (EPO)	(51) C07C 51/27	(51) C07C 201/02
(51) C07C 29/151	C07C 51/64	C07C 203/04
C07C 29/80	C07C 55/14	A61K 31/04
C07C 41/06	(11) EP3728176	A61K 31/045
C07C 31/04	(21) EP18822040.4	A23K 20/105
C07C 43/04	(47) 30.08.2023	A23K 50/10
(11) EP3935034	(87) EP2018084764	(11) EP3849961
(21) EP20710616.2	27.06.2019	(21) EP19763009.8
(47) 30.08.2023	(22) 13.12.2018	(47) 30.08.2023
(87) IB2020051691	(54) METHOD OF REMOVING NITRATE COMPOUNDS FROM ADIPIIC ACID	(87) EP2019074072
10.09.2020	(73) BASF SE	19.03.2020
(22) 27.02.2020	(72) OULLION, Mathieu	(22) 10.09.2019
(54) SYSTEMS AND METHODS FOR PRODUCING METHANOL WITH RECYCLING OF FUSEL OIL	FENIOU, Romain	(54) PROCESS FOR THE MANUFACTURE OF OMEGA NITROOXY-1-ALKANOLS
(73) SABIC Global Technologies B.V.	(31) 17306899	(73) DSM IP Assets B.V.
(72) ANSARI, Mohammed Bismillah	(32) 22.12.2017	(72) EGGEL, Michael
LEAL, Guillermo	(33) European Patent Office (EPO)	KAPFERER, Peter
BODAS, Vijay Dinkar	(51) C07C 55/20	LUETHI, Erika
(31) 201962815268 P	A23L 29/30	(31) 18194566
(32) 07.03.2019	A23L 33/125	(32) 14.09.2018
(33) United States of America	A61K 31/194	(33) European Patent Office (EPO)
(51) C07C 31/20	A61K 47/12	(51) C07C 213/06
C07C 29/04	(11) EP3891121	C07C 219/08
C07C 29/60	(21) EP19892699.0	C07C 67/03
C07C 29/132	(47) 30.08.2023	(11) EP4073027
C07C 29/141	(87) US2019064589	(21) EP20842278.2
C07C 45/60	11.06.2020	(47) 30.08.2023
(11) EP3694830	(22) 05.12.2019	(87) FR2020052365
(21) EP18866832.1	(54) SEBACIC ACID COMPOSITIONS AND METHODS FOR TASTE MODULATION	17.06.2021
(47) 30.08.2023	(73) International Flavors & Fragrances Inc.	(22) 09.12.2020
(87) US2018041365	(72) JOHN, Thumpalasserill, V.	(54) PROCESS FOR THE CONTINUOUS PREPARATION OF HEAVY ALKYL ACRYLATES
18.04.2019	WU, Hou	(73) ARKEMA FRANCE
(22) 10.07.2018	LI, Xiaodong	(72) BELLINI, Clément
(54) PRODUCTION OF 1,5-PENTANEDIOL VIA UPGRADING OF TETRAHYDROFURFURYL ALCOHOL	HUBER, Michelle, Eve	DEFER, Patrice
(73) Wisconsin Alumni Research Foundation	(31) 201862776150 P	MAGET, Sandra
(72) DUMESIS, James A.	(32) 06.12.2018	(31) 1913924
HUBER, George Willis	(33) United States of America	(32) 09.12.2019
BARNETT, Kevin J.	(51) C07C 59/125	(33) France
(31) 201715782593	(11) EP3441382	(51) C07C 311/08
(32) 12.10.2017	(21) EP17778901.3	C07C 311/14
(33) United States of America	(47) 30.08.2023	C07C 311/21
(51) C07C 51/12	(87) JP2017008053	C07C 311/29
C07C 53/08	12.10.2017	C07C 311/39
G01N 21/3504	(22) 01.03.2017	C07C 311/46
G01N 21/552	(54) OXA ACID COMPOUND	C07C 317/14
G01N 21/65	(73) Moresco Corporation	C07D 275/02
(11) EP3645495	(72) MARUYAMA, Shingo	C07D 257/04
(21) EP18743293.5	(31) 2016076176	C07D 279/12
(47) 30.08.2023	(32) 05.04.2016	C07D 305/06
(87) US2018040061	(33) Japan	C07D 451/14
03.01.2019	(51) C07C 67/08	C07D 205/04
(22) 28.06.2018	C07C 67/54	C07D 493/08
(54) REACTION CONTROL IN ACETIC ACID PROCESSES	C07C 67/56	C07D 295/26
(73) LyondellBasell Acetyls, LLC	C07C 67/60	C07D 213/71
(72) MATHEWS, Ryan, J.	C07C 69/003	A61P 1/16
	(11) EP3684747	A61P 3/00
	(21) EP17926210.0	A61P 3/10
	(47) 30.08.2023	
	(87) RU2017000691	
	28.03.2019	

- A61K 31/18
(11) EP3796975
(21) EP19728290.8
(47) 30.08.2023
(87) US2019032925
28.11.2019
(22) 17.05.2019
(54) SULFONYLAMINO BENZAMIDE
DERIVATIVES
(73) OrsoBio, Inc.
(72) NOTTE, Gregory
OLEN, Casey Lockwood
SPERANDIO, David
SANGI, Michael
KAPLAN, Joshua A.
FARAND, Julie
(31) 201862674981 P
(32) 22.05.2018
(33) United States of America

(51) C07D 209/60
A61K 31/405
A61K 9/20
(11) EP3705475
(21) EP19382163.4
(47) 30.08.2023
(22) 05.03.2019
(54) HIGH-DENSITY L-TRYPTOPHAN, ITS
PREPARATION AND USES THEREOF
(73) Tradichem Industrial Services, S.L.
(72) LOZANO MARTÍN, Cristina
MARAÑÓN MAROTO, José Ángel
MORENO PUENTE, Patricia
MANCHA AVELLÁN, María

(51) C07D 213/50
C07D 213/61
C07D 213/65
C07D 213/79
C07D 213/82
C07D 213/84
C07D 237/08
C07D 237/14
C07D 237/24
C07D 239/26
C07D 405/10
A61K 31/44
A61P 25/28
A61P 25/16
(11) EP3983385
(21) EP20736509.9
(47) 30.08.2023
(87) US2020037639
17.12.2020
(22) 13.06.2020
(54) NAPHTHOQUINONE DERIVATIVES
FOR TREATMENT OF OXIDATIVE
STRESS DISORDERS
(73) PTC Therapeutics, Inc.
(72) WARKENTIN, Alexander A.
RICHARDS, Steven J.
SHU, Lianhe
DAVIS, Dana
UTEULIYEV, Maulen M.
(31) 201962861255 P
(32) 13.06.2019
(33) United States of America

(51) C07D 221/20
C07D 401/14
C07D 401/06
C07D 401/08
C07D 401/12
C07D 405/06
A01N 43/40
A01N 35/06
(11) EP3765445
(21) EP19711543.9
(47) 30.08.2023
(87) EP2019056049
19.09.2019
(22) 11.03.2019
(54) SPIRO CYCLOHEXANEDIONE
DERIVATES AS HERBICIDES
(73) Syngenta Participations AG
(72) DALE, Suzanna
HENNESSY, Alan, Joseph
JONES, Elizabeth, Pearl
WILLETTS, Nigel, James
HOULSBY, Ian, Thomas, Tinmouth
BHONOA, Yunas
COMAS-BARCELO, Julia
GREGORY, Alexander, William
HACHISU, Shuji
(31) 201804002
(32) 13.03.2018
(33) United Kingdom

(51) C07D 239/24
C07D 491/048
C07D 495/04
C07D 215/06
C09K 11/06
H10K 85/30
H10K 50/11
(11) EP3301088
(21) EP17193570.3
(47) 30.08.2023
(22) 27.09.2017
(54) CONDENSED PYRIDINES AS
ORGANIC ELECTROLUMINESCENT
MATERIALS AND DEVICES
(73) Universal Display Corporation
(72) BOUDREAULT, Pierre-Luc T.
WENDT, Harvey
SU, Mingjuan
SCOTT, Joseph
(31) 201715706186
201662403424 P
(32) 15.09.2017
03.10.2016
(33) United States of America
United States of America

(51) C07D 239/47
C07D 239/32
C07D 239/34
C07D 239/38
C07D 239/42
A61K 31/505
A61P 35/00
A61P 35/02
C07D 239/48
C07D 401/04
C07D 403/04
(11) EP3730483
(21) EP17935274.5
(47) 30.08.2023
(87) CN2017118614
27.06.2019
(22) 26.12.2017
(54) CLASS OF PYRIMIDINE DERIVATIVE
KINASE INHIBITORS
(73) Hefei Institutes of Physical Science,
Chinese Academy of Sciences
(72) WANG, Wenliang
LIU, Qingsong
LIU, Jing
LIU, Qingwang
CHEN, Cheng
ZOU, Fengming
WANG, Li
YU, Kailin
LI, Feng
LIANG, Xiaofei
JIANG, Zongru
WANG, Beilei
HU, Chen
WANG, Wenchao
(31) 201711394166
(32) 21.12.2017
(33) China

(51) C07D 239/49
A61K 39/00
A61K 39/39
A61P 37/04
(11) EP3868741
(21) EP21164640.1
(47) 30.08.2023
(22) 06.10.2016
(54) COMPOSITION COMPRISING A
PYRIMIDINE COMPOUND AND A
PATHOGEN DERIVED ANTIGEN
(73) Sumitomo Pharma Co., Ltd.
(72) BAN, Hitoshi
ISOBE, Yoshiaki
WATANABE, Hitoshi
KIMURA, Hidenori
(31) 2015199750
(32) 07.10.2015
(33) Japan

(51) C07D 239/52
A61K 31/513
(11) EP3737669
(21) EP18900099.5
(47) 30.08.2023
(87) KR2018000530
18.07.2019
(22) 11.01.2018
(54) METHOD FOR PREPARING
TOLIMIDONE ON LARGE SCALE
(73) Bukwang Pharmaceutical Co., Ltd.
(72) LEE, Kyung Hwa
JEONG, Eun Ju
LEE, Kwang Ok

(51) C07D 241/04
C07D 213/81
C07D 213/82
C07C 237/42
C07D 295/125
C07C 237/44
C07D 295/13
A61P 35/00
A61P 35/02
(11) EP3628374
(21) EP19208312.9
(47) 30.08.2023
(22) 31.07.2015
(54) BCL-3 INHIBITORS

(73) University College Cardiff Consultants Limited	(33) Korea (Republic) Korea (Republic)	C07D 401/12 C07D 403/06 C07D 405/06 C07D 405/12 C07D 471/04 C07D 209/34 A61K 31/404 A61K 31/4427
(72) WESTWELL, Andrew, David BRANCALE, Andrea CLARKSON, Richard, William, Ernest	(51) C07D 295/15 C07D 303/12 C07D 303/46 C07C 69/612	(11) EP3478669 (21) EP17740180.9 (47) 30.08.2023 (87) US2017039975 04.01.2018 (22) 29.06.2017 (54) PROCESS OF PREPARING A PEPTIDE EPOXYKETONE IMMUNOPROTEASOME INHIBITOR
(31) 201462031774 P (32) 31.07.2014 (33) United States of America	(11) EP3478669 (21) EP17740180.9 (47) 30.08.2023 (87) US2017039975 04.01.2018 (22) 29.06.2017 (54) PROCESS OF PREPARING A PEPTIDE EPOXYKETONE IMMUNOPROTEASOME INHIBITOR	(11) EP3931188 (21) EP20707599.5 (47) 30.08.2023 (87) EP2020054897 03.09.2020 (22) 25.02.2020 (54) NEW ISOINDOLINONE SUBSTITUTED INDOLES AND DERIVATIVES AS RAS INHIBITORS
(51) C07D 251/24 C07D 401/04 C07F 5/02 H10K 50/00	(21) EP17740180.9 (47) 30.08.2023 (87) US2017039975 04.01.2018 (22) 29.06.2017 (54) PROCESS OF PREPARING A PEPTIDE EPOXYKETONE IMMUNOPROTEASOME INHIBITOR	(11) EP3931188 (21) EP20707599.5 (47) 30.08.2023 (87) EP2020054897 03.09.2020 (22) 25.02.2020 (54) NEW ISOINDOLINONE SUBSTITUTED INDOLES AND DERIVATIVES AS RAS INHIBITORS
(11) EP3418272 (21) EP18178734.2 (47) 30.08.2023 (22) 20.06.2018 (54) TRIAZINE COMPOUNDS AND ORGANIC LIGHT-EMITTING DEVICES INCLUDING THE SAME	(73) Kezar Life Sciences (72) MCMINN, Dustin JOHNSON, Henry DALZIEL, Sean	(22) 25.02.2020 (54) NEW ISOINDOLINONE SUBSTITUTED INDOLES AND DERIVATIVES AS RAS INHIBITORS
(73) Samsung Display Co., Ltd. (72) Lee, Hyoyoung Kim, Youngkook Hwang, Seokhwan Sim, Munki Park, Junha	(73) Kezar Life Sciences (72) MCMINN, Dustin JOHNSON, Henry DALZIEL, Sean	(73) Boehringer Ingelheim International GmbH
(31) 20170078597 201815867357 (32) 21.06.2017 10.01.2018 (33) Korea (Republic) United States of America	(31) 201662356178 P (32) 29.06.2016 (33) United States of America (51) C07D 323/06 B01D 3/00 B01D 3/10 (11) EP3774762 (21) EP19775375.9 (47) 30.08.2023 (87) US2019024604 03.10.2019 (22) 28.03.2019 (54) PROCESS FOR PRODUCING A CYCLIC ACETAL IN A HETEROGENEOUS REACTION SYSTEM	(72) GOLLNER, Andreas KESSLER, Dirk WEINSTABL, Harald MARTIN, Laetitia Janine MANTOULIDIS, Andreas (31) 19159299 (32) 26.02.2019 (33) European Patent Office (EPO)
(51) C07D 277/82 A61K 31/428 A61K 31/454 C07D 417/04 A61P 3/04 A61P 3/06 A61P 3/10 C07D 277/42 A61K 31/426 A61K 31/427 C07D 277/56	(31) 201662356178 P (32) 29.06.2016 (33) United States of America (51) C07D 323/06 B01D 3/00 B01D 3/10 (11) EP3774762 (21) EP19775375.9 (47) 30.08.2023 (87) US2019024604 03.10.2019 (22) 28.03.2019 (54) PROCESS FOR PRODUCING A CYCLIC ACETAL IN A HETEROGENEOUS REACTION SYSTEM	(72) GOLLNER, Andreas KESSLER, Dirk WEINSTABL, Harald MARTIN, Laetitia Janine MANTOULIDIS, Andreas (31) 19159299 (32) 26.02.2019 (33) European Patent Office (EPO)
(11) EP3778577 (21) EP19800582.9 (47) 30.08.2023 (87) KR2019005997 14.11.2019 (22) 08.05.2019 (54) NOVEL COMPOUND EXHIBITING ENTEROPEPTIDASE INHIBITORY ACTIVITY	(73) Celanese Sales Germany GmbH (72) LEONARD, Stanley FEORD, Damian GOERING, Matthias SIANTURI, Joni HUECKSTAEDT, Hanno	(31) 19159299 (32) 26.02.2019 (33) European Patent Office (EPO)
(73) LG CHEM, LTD. (72) CHOI, Hwan Geun PARK, Jin-Hee KO, Eunhwa PARK, Heedong KANG, Seock Yong PARK, Junggyu KWON, Ohhwan SON, Jung Beom LEE, Seungyeon KIM, Young Kwan KO, Yi Kyung KIM, So Young	(31) 201862649998 P (32) 29.03.2018 (33) United States of America (51) C07D 401/14 A61K 31/506 A61P 35/00 A61P 35/02 A61K 45/06 (11) EP3728232 (21) EP18890785.1 (47) 30.08.2023 (87) CA2018051633 27.06.2019 (22) 20.12.2018 (54) NOVEL QUINOLONE COMPOUNDS AS INHIBITORS OF THE BCL6 BTB DOMAIN PROTEIN-PROTEIN INTERACTION AND/OR AS BCL6 DEGRADERS	(51) C07D 401/14 C07D 405/14 C07D 409/14 A61K 31/454 A61K 31/4192 A61P 27/02 (11) EP3472149 (21) EP17815962.0 (47) 30.08.2023 (87) US2017037768 28.12.2017 (22) 15.06.2017 (54) HETEROCYCLIC PROLINAMIDE DERIVATIVES
(31) 20180053315 20180053316 (32) 09.05.2018 09.05.2018	(73) Ontario Institute for Cancer Research (OICR) (72) CHAU, Anh My ISAAC, Methvin	(73) Bristol-Myers Squibb Company (72) ST. LAURENT, Denis R. ROMINE, Jeffrey Lee SCOLA, Paul Michael YEUNG, Kap-Sun (31) 201762477139 P (32) 27.03.2017 (33) United States of America (51) C07D 401/14 C07D 405/14 C07D 409/14 A61K 31/454 A61K 31/4192 A61P 27/02 (11) EP3472149 (21) EP17815962.0 (47) 30.08.2023 (87) US2017037768 28.12.2017 (22) 15.06.2017 (54) HETEROCYCLIC PROLINAMIDE DERIVATIVES
	(31) 201762609388 P (32) 22.12.2017 (33) United States of America (51) C07D 401/14	(87) US2017037768 28.12.2017 (22) 15.06.2017 (54) HETEROCYCLIC PROLINAMIDE DERIVATIVES (73) Orion Ophthalmology LLC (72) GOMEZ, Robert EPIFANOV, Maxim

OBALLA, Renata, Marcella DING, Jinyue POWELL, David, Andrew (31) 201662352963 P (32) 21.06.2016 (33) United States of America	(73) Dizal (Jiangsu) Pharmaceutical Co., Limited (72) WOESSNER, Richard, Donald KETTLE, Jason, Grant WU, Dedong NILSSON, Magnus, K. CHUAQUI, Claudio, Edmundo GRIMSTER, Neil, Patrick GRECU, Tudor YANG, Wenzhan MCCABE, James VASBINDER, Melissa, Marie WINTER-HOLT, Jon, James ÅSTRAND, Annika, Birgitta, Margareta RUSTON, Linette, Lys KAWATKAR, Sameer SU, Qibin	A61P 35/00 (11) EP3660014 (21) EP18837948.1 (47) 30.08.2023 (87) KR2018008248 31.01.2019 (22) 20.07.2018 (54) ALKALOID DERIVATIVE HAVING ANGIOGENESIS INHIBITORY EFFECT, AND PHARMACEUTICAL COMPOSITION CONTAINING SAME (73) Seoul National University R&DB Foundation (72) OH, Jedo LEE, Sang Kook YU, Shuai LI, Feng KIM, Sanghee (31) 20170094430 (32) 25.07.2017 (33) Korea (Republic)
(51) C07D 403/04 C07D 471/04 A61K 31/506 A61P 35/00 A61P 35/02 (11) EP3492462 (21) EP17833507.1 (47) 30.08.2023 (87) CN2017094102 01.02.2018 (22) 24.07.2017 (54) AMINO PYRIMIDINE COMPOUND FOR INHIBITING PROTEIN TYROSINE KINASE ACTIVITY (73) Shenzhen TargetRx, Inc. (72) LI, Huanyin JIN, Jian WANG, Yihan REN, Xingye AI, Yixin (31) 201610594608 (32) 26.07.2016 (33) China	(31) 201562232629 P (32) 25.09.2015 (33) United States of America (51) C07D 403/14 C09K 11/06 (11) EP3269789 (21) EP16761559.0 (47) 30.08.2023 (87) JP2016056155 15.09.2016 (22) 01.03.2016 (54) LIGHT EMITTING MATERIAL AND ORGANIC ELECTROLUMINESCENT ELEMENT (73) Hodogaya Chemical Co., Ltd. Kyulux, Inc. (72) TAKAHASHI, Takehiro ADACHI, Chihaya (31) 2015046011 (32) 09.03.2015 (33) Japan	(51) C07D 409/04 C07D 405/04 C07D 495/04 C07D 409/14 A61P 19/06 A61K 31/381 (11) EP3466946 (21) EP17802137.4 (47) 30.08.2023 (87) CN2017085458 30.11.2017 (22) 23.05.2017 (54) THIOPHENE, MANUFACTURING METHOD THEREOF, AND PHARMACEUTICAL APPLICATION OF SAME (73) Dongbao Purple Star (Hangzhou) Biopharmaceutical Co., Ltd. (72) WANG, Jianfei CHEN, Shuhui ZHANG, Yang ZHU, Wenyan (31) 201610343321 (32) 23.05.2016 (33) China
(51) C07D 403/12 C07D 413/14 C07D 403/04 C07D 403/14 C07D 405/04 C07D 241/44 C07D 417/14 C07D 471/04 C07D 495/10 A61K 31/498 A61P 35/00 A61P 31/00 (11) EP3672951 (21) EP18753208.0 (47) 30.08.2023 (87) EP2018072397 28.02.2019 (22) 20.08.2018 (54) QUINOXALINE DERIVATIVES AS ADENOSINE RECEPTOR ANTAGONISTS (73) Merck Patent GmbH (72) TANZER, Eva-Maria KLEIN, Markus SCHIEMANN, Kai (31) 17187100 (32) 21.08.2017 (33) European Patent Office (EPO)	(51) C07D 405/04 A61K 31/443 A61P 35/00 (11) EP3822267 (21) EP19829797.0 (47) 30.08.2023 (87) CN2019094602 09.01.2020 (22) 03.07.2019 (54) POLYMORPH OF HDAC6-SELECTIVE INHIBITOR AND APPLICATION THEREOF (73) CSTONE PHARMACEUTICALS (SUZHOU) CO., LTD. CSTONE PHARMACEUTICALS (SHANGHAI) CO., LTD. CSTONE PHARMACEUTICALS (72) WEI, Changqing QIAN, Wenyan XIAO, Yao FAN, Lili GUO, Qiang (31) 201810726102 (32) 04.07.2018 (33) China	(51) C07D 413/04 C07D 413/14 C07D 417/14 C07D 471/04 C07F 9/09 A61K 31/42 A61K 31/505 A61K 31/506 A61K 31/437 A61K 31/4439 (11) EP3720438 (21) EP18885399.8 (47) 30.08.2023 (87) US2018064609 13.06.2019 (22) 07.12.2018 (54) HETEROCYCLE SUBSTITUTED PYRIDINE DERIVATIVE ANTIFUNGAL AGENTS (73) Amplyx Pharmaceuticals, Inc. (72) SHAW, Karen Joy WEBB, Peter
(51) C07D 403/14 A61K 31/506 A61P 35/00 (11) EP3353168 (21) EP16770031.9 (47) 30.08.2023 (87) EP2016072616 30.03.2017 (22) 22.09.2016 (54) COMPOUNDS AND METHODS FOR INHIBITING JAK	(51) C07D 405/06 C07D 417/06 A61K 31/428 A61K 31/4192 A61K 31/343	

COVEL, Jonathan	21.01.2021	29.08.2019
TRZOSS, Michael	(22) 16.07.2020	(22) 25.02.2019
(31) 201862649225 P	(54) TRICYCLIC HETEROARYL	(54) SUBSTITUTED PYRROLIZINE
201762595894 P	COMPOUNDS USEFUL AS IRAK4	COMPOUNDS AS HBV REPLICATION
(32) 28.03.2018	INHIBITORS	INHIBITORS
07.12.2017	(73) Bristol-Myers Squibb Company	(73) GILEAD SCIENCES, INC.
(33) United States of America	(72) SARKUNAM, Kandhasamy	(72) LEE, Rick Andrew
United States of America	MURUGESAN, Natesan	KOBAYASHI, Tetsuya
(51) C07D 413/14	PAIDI, Venkatram Reddy	PYUN, Hyung-Jung
A61P 31/00	HYNES, John	GUTIERREZ, David Alan
A61K 31/4439	SISTLA, Ramesh Kumar	LAZERWITH, Scott E.
A61K 31/5377	NAIR, Satheesh Kesavan	MORGANELLI, Philip Anthony
A61K 31/5386	(31) 201962875563 P	(31) 201862635262 P
C07D 498/04	(32) 18.07.2019	(32) 26.02.2018
A61P 31/04	(33) United States of America	(33) United States of America
A61P 31/12	(51) C07D 471/04	(51) C07D 487/04
(11) EP3458452	C07D 491/107	A61P 35/00
(21) EP17737888.2	A61P 25/18	A61K 31/496
(47) 30.08.2023	A61K 31/397	A61K 31/5377
(87) IN2017050188	(11) EP3820869	A61K 31/4709
23.11.2017	(21) EP19744868.1	A61K 31/454
(22) 19.05.2017	(47) 30.08.2023	A61K 31/4439
(54) HETEROCYCLIC COMPOUNDS	(87) IB2019055948	(11) EP3986897
USEFUL AS ANTI-BACTERIAL AGENTS	16.01.2020	(21) EP20734871.5
AND METHOD FOR PRODUCTION	(22) 12.07.2019	(47) 30.08.2023
(73) Bugworks Research, Inc.	(54) SPIROCHROMANE DERIVATIVES	(87) EP2020067076
(72) KATAGIHALLIMATH, Nainesh	(73) Richter Gedeon Nyrt.	24.12.2020
PEER MOHAMED, Shahul Hameed	(72) LEDNECZKI, István	(22) 19.06.2020
NANDISHAIAH, Radha	LÉVAY, György István	(54) EGFR INHIBITOR FOR THE
BHARATHAM, Nagakumar	NÉMETHY, Zsolt	TREATMENT OF CANCER
SHARMA, Sreevalli	ÉLES, János	(73) F. Hoffmann-La Roche AG
(31) 201641017526	HORVÁTH, Anita	(72) NAGEL, Yvonne, Alice
(32) 20.05.2016	TAPOLCSÁNYI, Pál	OBST SANDER, Ulrike
(33) India	DUDÁSNE MOLNÁR, Katalin	JAESCHKE, Georg
(51) C07D 413/14	(31) 1800248	DOLENTE, Cosimo
C07D 417/14	(32) 13.07.2018	KUHN, Bernd
C07D 487/04	(33) Hungary	GOERGLER, Annick
A61K 31/4427	(51) C07D 487/04	STEINER, Sandra
A61K 31/496	A61K 31/5377	RUEHER, Daniel
(11) EP3535260	A61K 31/502	RICCI, Antonio
(21) EP17801164.9	A61P 25/28	HEWINGS, David
(47) 30.08.2023	A61P 9/10	(31) 19181754
(87) US2017058802	A61P 29/00	(32) 21.06.2019
11.05.2018	(11) EP3388433	(33) European Patent Office (EPO)
(22) 27.10.2017	(21) EP16872406.0	(51) C07D 487/04
(54) NITROGEN-CONTAINING	(47) 30.08.2023	C07D 519/00
HETEROCYCLIC COMPOUNDS AS	(87) CN2016108975	A61P 35/00
FXR MODULATORS	15.06.2017	A61K 31/519
(73) Hepagene Therapeutics (HK) Limited	(22) 08.12.2016	(11) EP3765461
(72) XU, Xiaodong	(54) PHTHALAZINE DERIVATIVES,	(21) EP19714002.3
(31) 201610974016	AND PREPARATION METHOD,	(47) 30.08.2023
201662424813 P	PHARMACEUTICAL COMPOSITION	(87) US2019022288
(32) 04.11.2016	AND USE THEREOF	19.09.2019
21.11.2016	(73) Shanghai Simr Biotech Co., Ltd	(22) 14.03.2019
(33) China	Shanghai Simrd Biotechnology Co., Ltd	(54) SELECTIVE INHIBITORS OF PROTEIN
United States of America	(72) SUN, Yong	ARGININE METHYLTRANSFERASE 5
(51) C07D 471/04	LI, Shuai	(PRMT5)
C07D 471/14	(31) 201510900083	(73) Prelude Therapeutics, Incorporated
C07D 498/04	(32) 08.12.2015	(72) LIN, Hong
C07D 491/048	(33) China	HAWKINS, Michael
A61P 35/00	(51) C07D 487/04	SABORIT VILLARROYA, Gisela
A61P 29/00	A61P 31/20	SHETTY, Rupa
A61P 37/00	A61K 31/403	LUENGO, Juan
A61K 31/4375	A61K 31/4192	PITIS, Philip
(11) EP3999508	(11) EP3759109	(31) 201862742048 P
(21) EP20750135.4	(21) EP19710245.2	201862666726 P
(47) 30.08.2023	(47) 30.08.2023	201862642727 P
(87) US2020042241	(87) US2019019428	(32) 05.10.2018

04.05.2018	INDUCING CHONDROGENESIS FOR	(73) Bristol-Myers Squibb Company
14.03.2018	TREATING JOINT DAMAGE	(72) MBACHU, Victoria A.
(33) United States of America	(73) Novartis AG	SHI, Zhongping
United States of America	(72) LAJINESS, James Paul	VLAHOVA, Petinka I.
United States of America	VALIERE, Andrew	SCHLAM, Roxana F.
(51) C07D 487/04	(31) 201862776271 P	CUNIERE, Nicolas
C07D 519/00	(32) 06.12.2018	(31) 201862783223 P
A61P 35/00	(33) United States of America	(32) 21.12.2018
A61K 38/00	(51) C07D 495/04	(33) United States of America
(11) EP3759108	C07D 487/04	(51) C07F 5/02
(21) EP19706670.7	A61K 31/519	(11) EP3704100
(47) 30.08.2023	A61K 31/38	(21) EP18873485.9
(87) EP2019054715	A61P 3/10	(47) 30.08.2023
29.08.2019	A61P 3/04	(87) IN2018050702
(22) 26.02.2019	A61P 1/16	09.05.2019
(54) POLYPROLIN MIMETICS OF PROLINE	A61P 35/00	(22) 30.10.2018
DERIVED MODULE -15	(11) EP3571205	(54) NOVEL PROCESS FOR THE
(73) Forschungsverbund Berlin E.V.	(21) EP18741820.7	PREPARATION TAVABOROLE AND ITS
Universität zu Köln	(47) 30.08.2023	INTERMEDIATES
(72) CHIHA, Slim	(87) CN2018073581	(73) Halcyon Labs Private Limited
KÜHNE, Ronald	26.07.2018	(72) MERCHANT, Aditya
MÜLLER, Matthias	(22) 22.01.2018	LIMBAD, Piyushkumar
SCHMALZ, Hans-Günther	(54) THIENOPYRIMIDINE DERIVATIVE AND	MERCHANT, Rupa
DOHMEN, Stephan	USE THEREOF IN MEDICINE	PANSURIYA, Akshay
ALBAT, Dominik	(73) Sunshine Lake Pharma Co., Ltd.	(31) 201721039067
BARONE, Matthias	(72) ZHANG, Zongyuan	(32) 02.11.2017
(31) 18175731	WAN, Zhifu	(33) India
18158650	YANG, Xinye	(51) C07F 5/02
(32) 04.06.2018	LI, Chenlu	C07B 37/04
26.02.2018	TANG, Wanjun	C07C 67/343
(33) European Patent Office (EPO)	GU, Zheng	C07C 69/76
European Patent Office (EPO)	WANG, Xiaojun	C07B 37/00
(51) C07D 491/052	ZHANG, Yingjun	C07B 53/00
C09K 9/02	(31) 201710052275	C07C 1/32
C08K 5/3415	(32) 22.01.2017	C07C 15/14
C09B 1/00	(33) China	C07C 15/24
G03C 1/00	(51) C07D 498/04	(11) EP3063154
C08K 5/3417	A61K 31/553	(21) EP14802743.6
C09B 57/00	A61P 35/00	(47) 30.08.2023
G03C 1/73	(11) EP3778607	(87) US2014063692
(11) EP3898636	(21) EP20174298.8	07.05.2015
(21) EP18833049.2	(47) 30.08.2023	(22) 03.11.2014
(47) 30.08.2023	(22) 01.07.2016	(54) CROSS-COUPPLING OF UNACTIVATED
(87) EP2018086587	(54) BENZOXAZEPIN OXAZOLIDINONE	SECONDARY BORONIC ACIDS
25.06.2020	COMPOUNDS AND METHODS OF USE	(73) The Board of Trustees of the University
(22) 21.12.2018	(73) F. Hoffmann-La Roche AG	of Illinois
(54) INDOLONAPHTHOPYRANS	(72) Heald, Robert Andrew	(72) BURKE, Martin, D.
(73) Transitions Optical, Ltd.	Hanan, Emily	WANG, Pulin
(72) SMITH, Zachary	Braun, Marie-Gabrielle	CROUCH, Ian
STAYSHICH, Ryan	Staben, Steven T.	(31) 201361899296 P
DABIDEEN, Darrin R.	Macleod, Calum	(32) 03.11.2013
WALTERS, Robert W.	Elliot, Richard	(33) United States of America
(51) C07D 493/08	(31) 201562188029 P	(51) C07F 7/18
A61K 31/34	(32) 02.07.2015	C07F 7/22
A61K 31/443	(33) United States of America	C07C 405/00
A61K 31/5377	(51) C07D 513/04	(11) EP3663305
A61K 31/4155	C07C 55/22	(21) EP18841947.7
A61K 31/506	C07C 55/10	(47) 30.08.2023
A61P 19/02	C07C 55/00	(87) JP2018020527
(11) EP3891155	C07C 59/265	07.02.2019
(21) EP19821289.6	(11) EP3898638	(22) 29.05.2018
(47) 30.08.2023	(21) EP19842497.0	(54) METHOD FOR INTRODUCING
(87) IB2019060456	(47) 30.08.2023	SUBSTITUENTS INTO ALPHA,BETA-
11.06.2020	(87) US2019067717	UNSATURATED KETONE AND
(22) 04.12.2019	25.06.2020	PROSTAGLANDIN COMPOUND
(54) 6-HYDROXY-8-	(22) 20.12.2019	SYNTHESIS METHOD UTILIZING
OXATRICYCLO[3.2.1.0 _{2,4}]OCTANE-2-	(54) CRYSTALLINE FORMS OF A PAR4	SAME
CARBOXAMIDE DERIVATIVES FOR	INHIBITOR	

- (73) National Center for Geriatrics and Gerontology
(72) KOYAMA Hiroko
SUZUKI Masaaki
(31) 2017150745
(32) 03.08.2017
(33) Japan
-
- (51) C07F 15/00
C07C 51/00
(11) EP4011859
(21) EP20212336.0
(47) 30.08.2023
(22) 08.12.2020
(54) METHOD FOR CHEMICAL STORAGE OF HYDROGEN
(73) APEX ENERGY TETEROW GMBH
(72) Sang, Rui
Beller, Matthias
Junge, Henrik
Sponholz, Peter
Jackstell, Ralf
-
- (51) C07H 15/256
G01N 33/48
A23L 27/30
(11) EP3101023
(21) EP16161536.4
(47) 30.08.2023
(22) 02.10.2009
(54) NEW STEVIOL GLYCOSIDES
(73) Morita Kagaku Kogyo Co., Ltd.
(72) MATSUURA, Fumito
FUJITA, Isao
MORITA, Toyoshige
OTA, Masaya
(31) 2008258617
(32) 03.10.2008
(33) Japan
-
- (51) C07H 21/00
C12N 15/11
A61P 1/00
(11) EP3999520
(21) EP20742690.9
(47) 30.08.2023
(87) EP2020070022
21.01.2021
(22) 15.07.2020
(54) HYBRID HTIRNA/NANOPARTICLE COMPLEX AND USE THEREOF FOR TREATING A DISEASE OF THE DIGESTIVE SYSTEM
(73) COMMISSARIAT À L'ÉNERGIE ATOMIQUE ET AUX ÉNERGIES ALTERNATIVES
(72) NOUGAREDE, Adrien
JARY, Dorothée
NAVARRO Y GARCIA, Fabrice
(31) 1907965
(32) 15.07.2019
(33) France
-
- (51) C07H 21/04
C12N 15/113
C12N 15/115
(11) EP3137479
(21) EP15785822.6
(47) 30.08.2023
(87) US2015028327
05.11.2015
(22) 29.04.2015
- (54) OLIGONUCLEOTIDE COMPOSITIONS AND METHODS OF MAKING THE SAME
(73) Geron Corporation
(72) RAMIYA, Premchandran H.
(31) 201562151909 P
201461987396 P
(32) 23.04.2015
01.05.2014
(33) United States of America
United States of America
-
- (51) C07J 73/00
A61K 31/585
A61P 35/02
A61P 37/06
A61K 31/58
A61P 35/00
A61P 37/00
(11) EP3699184
(21) EP18913951.2
(47) 30.08.2023
(87) CN2018083525
10.10.2019
(22) 18.04.2018
(54) TRIPTOLIDE DERIVATIVE AND PREPARATION METHOD THEREFOR AND USE THEREOF
(73) Cinkate Pharmaceutical Intermediates Co., Ltd.
Cinkate Pharm Tech (Shanghai) Co., Ltd.
(72) XIAO, Fei
ZHANG, Peng
QIU, Bo
(31) 201810283385
(32) 02.04.2018
(33) China
-
- (51) C07K 1/04
C07K 1/06
C07K 5/087
C07K 7/06
(11) EP4011901
(21) EP20213533.1
(47) 30.08.2023
(22) 11.12.2020
(54) METHOD FOR THE FMOC GROUP CLEAVAGE
(73) Fresenius Kabi iPSUM S.r.l.
Alma Mater Studiorum -Universita' di Bologna
(72) CANTELMI, Paolo
VIOLA, Angelo
TOLOMELLI, Alessandra
RICCI, Antonio
PALLADINO, Chiara
CABRI, Walter
MARTELLI, Giulia
MACIS, Marco
FERRAZZANO, Lucia
-
- (51) C07K 1/14
C07K 1/16
C07K 16/00
C12N 15/09
(11) EP3643722
(21) EP19208112.3
(47) 30.08.2023
(22) 19.03.2013
(54) METHOD OF PURIFYING PROTEIN
(73) Kyowa Kirin Co., Ltd.
- (72) Ishihara, Takashi
(31) 201261680433 P
(32) 07.08.2012
(33) United States of America
-
- (51) C07K 7/04
C07K 1/22
C07K 17/00
G01N 30/88
C07K 16/00
C12N 15/09
(11) EP3543251
(21) EP17870668.5
(47) 30.08.2023
(87) JP2017041404
24.05.2018
(22) 17.11.2017
(54) SOLID SUPPORT CONTAINING IGG-BINDING PEPTIDE, AND METHOD FOR SEPARATING IGG
(73) Daicel Corporation
Kagoshima University
(72) UCHIMURA Seiichi
ITO Yuji
(31) 2016225483
(32) 18.11.2016
(33) Japan
-
- (51) C07K 14/135
C07K 14/005
A61P 31/14
A61K 47/54
A61K 38/00
(11) EP3638284
(21) EP18729463.2
(47) 30.08.2023
(87) EP2018065714
20.12.2018
(22) 13.06.2018
(54) CYCLIC PEPTIDES FOR PROTECTION AGAINST RESPIRATORY SYNCYTIAL VIRUS
(73) Virometix AG
Universität Zürich
(72) MÖHLE, Kerstin
GHASPARIAN, Arin
ROBINSON, John A.
ZUNIGA, Armando
MARRERO NODARSE, Aniebrys
RASSEK, Oliver
(31) 17176068
(32) 14.06.2017
(33) European Patent Office (EPO)
-
- (51) C07K 14/195
C12N 9/22
C12N 15/113
C12N 15/90
(11) EP3919505
(21) EP21175562.4
(47) 30.08.2023
(22) 15.01.2014
(54) USES OF CAS9-NUCLEIC ACID COMPLEXES
(73) Emory University
(72) GRAKOU, Arash
SAMPSON, Timothy
WEISS, David S.
PRICE, Aryn Elaine
(31) 201361905368 P
201361753046 P

(32) 18.11.2013 16.01.2013	SUCH PEPTIDES BOUND TO MHC MOLECULES	(54) GENETIC MARKERS AND USES THEREFOR
(33) United States of America United States of America	(73) Adaptimmune Limited Immunocore Limited	(73) Livestock Improvement Corporation Limited
(51) C07K 14/245 C12Q 1/68	(72) SUN, Meidai POWLESLAND, Alex	(72) DAVIS, Stephen, Richard LITTLEJOHN, Mathew, Douglas
(11) EP3353194	(31) 201520557	(31) 63054014
(21) EP16775518.0	(32) 23.11.2015	62720914
(47) 30.08.2023	(33) United Kingdom	62515014
(87) EP2016072224 30.03.2017	(51) C07K 14/47 C07K 14/12	61704013
(22) 20.09.2016	A61K 39/00	(32) 12.09.2014 08.07.2014
(54) OMPG VARIANTS	(11) EP3380498	20.05.2014
(73) F. Hoffmann-La Roche AG	(21) EP16805177.9	25.10.2013
(72) YANG, Charlotte JENSEN, Liv CECH, Cynthia DALAL, Dhruvi DIPIETRO, Matthew TZITZILONIS, Christos CRAIG, Tim YANG, Alexander HARRIS, Corissa	(47) 30.08.2023 (87) GB2016053637 01.06.2017	(33) New Zealand New Zealand New Zealand New Zealand
(31) 201662333672 P 201562222197 P	(22) 23.11.2016	
(32) 09.05.2016 22.09.2015	(54) PEPTIDES DERIVED FROM KITA- KYUSHU LUNG CANCER ANTIGEN (KKLC1, CT83, CXORF61) AND COMPLEXES COMPRISING SUCH PEPTIDES BOUND TO MHC MOLECULES	(51) C07K 16/08 C07K 16/10 A61K 31/522 A61K 39/395 A61P 31/14 A61P 31/20
(33) United States of America United States of America	(73) Adaptimmune Limited Immunocore Limited	(11) EP3898668 (21) EP19839558.4 (47) 30.08.2023 (87) US2019067216 25.06.2020
(51) C07K 14/34 C12P 13/08	(72) POWLESLAND, Alex CHILLAKURI, Chandramouli POPA, Alina HOOD, Graham SANGANI, Dhaval	(22) 18.12.2019 (54) ANTIBODIES THAT NEUTRALIZE HEPATITIS B VIRUS AND USES THEREOF
(11) EP4092041	(31) 201520559	(73) Humabs Biomed SA
(21) EP21746630.9	(32) 23.11.2015	(72) CORTI, Davide
(47) 30.08.2023	(33) United Kingdom	(31) 201962860085 P 201862782274 P
(87) KR2021005401 13.10.2022	(51) C07K 14/705 C07K 16/28 C07K 16/30 C12N 15/85 C07K 14/725	(32) 11.06.2019 19.12.2018
(22) 28.04.2021	A61P 35/00 A61P 37/04 A61P 43/00 A61K 39/00	(33) United States of America United States of America
(54) NOVEL WHIB-AFFILIATED TRANSCRIPTIONAL REGULATOR WHCA VARIANT AND METHOD FOR PRODUCING L-VALINE USING SAME	(11) EP2817331 (21) EP13751899.9 (47) 30.08.2023 (87) US2013027361 29.08.2013	(51) C07K 16/12 (11) EP3150631 (21) EP16187268.4 (47) 30.08.2023 (22) 03.05.2011
(73) CJ CheilJedang Corporation	(22) 22.02.2013	(54) ANTI-GLUCOSAMINIDASE PASSIVE IMMUNIZATION FOR STAPHYLOCOCCUS AUREUS INFECTIONS
(72) YUN, Hyojin YOON, Byoung Hoon YOO, Hyeryun KIM, Bina HUH, Lan LEE, Heeseok KIM, Seon Hye PARK, Goun OH, Haena SON, Sung Kwang	(54) USE OF THE CD2 SIGNALING DOMAIN IN SECOND-GENERATION CHIMERIC ANTIGEN RECEPTORS	(73) University of Rochester (72) Sullivan, Mark A Schwarz, Edward M Daiss, John L
(31) 20210045270	(73) The Trustees of the University of Pennsylvania	(31) 330568 P (32) 03.05.2010 (33) United States of America
(32) 07.04.2021	(72) SCHOLLER, John JUNE, Carl H. POSEY, Avery, D.	
(33) Korea (Republic)	(31) 201261601907 P (32) 22.02.2012 (33) United States of America	
(51) C07K 14/47 A61K 39/00 C07K 4/12	(51) C07K 14/72 C12Q 1/6876	(51) C07K 16/14 C07K 16/28 C07K 16/46 A61K 39/395 A61K 45/06 A61K 51/10 A61P 17/06 A61P 35/00 A61P 35/02
(11) EP3380504	(11) EP3060682	(11) EP3500301
(21) EP16805195.1	(21) EP14855747.3	(21) EP17841965.1
(47) 30.08.2023	(47) 30.08.2023	
(87) GB2016053660 01.06.2017	(87) NZ2014000224 30.04.2015	
(22) 23.11.2016	(22) 24.10.2014	
(54) PEPTIDES DERIVED FROM HOMEOBOX PROTEIN B13 (HOX- B13) AND COMPLEXES COMPRISING		

(47) 30.08.2023	(73) The Institute for Cancer Research	MEADOR, James
(87) US2017046875 22.02.2018	(72) Cambell, Kerry S.	BOSQUES, Carlos, J.
(22) 15.08.2017	(31) 586581 P	ORTIZ, Daniel
(54) MONOVALENT ASYMMETRIC TANDEM FAB BISPECIFIC ANTIBODIES	(32) 10.07.2004	(31) 201462081923 P
(73) Epimab Biotherapeutics Inc.	(33) United States of America	201461987863 P
(72) WU, Chengbin	(51) C07K 16/28	(32) 19.11.2014
(31) PCT/CN2016/109267	C07K 16/40	02.05.2014
PCT/CN2016/095546	(11) EP3362475	(33) United States of America
(32) 09.12.2016	(21) EP16779112.8	United States of America
16.08.2016	(47) 30.08.2023	(51) C08B 3/06
(33) World Intellectual Property Office (WIPO)	(87) EP2016074306	C08L 1/12
World Intellectual Property Office (WIPO)	20.04.2017	C08L 1/14
(51) C07K 16/24	(22) 11.10.2016	C08B 3/24
A61P 1/00	(54) CD73 BLOCKING AGENTS	C08B 3/28
(11) EP3430043	(73) Innate Pharma	A61K 45/06
(21) EP17710748.9	Centre Léon Bérard	A61K 31/717
(47) 30.08.2023	(72) PATUREL, Carine	A23K 20/163
(87) EP2017056237	GAUTHIER, Laurent	A23K 50/10
21.09.2017	MENETRIER-CAUX, Christine	A23L 33/24
(22) 16.03.2017	CAUX, Christophe	(11) EP3090749
(54) ANTI-TNFALPHA-ANTIBODIES AND FUNCTIONAL FRAGMENTS THEREOF	GOURDIN, Nicolas	(21) EP14873093.0
(73) Tillotts Pharma AG	PERROT, Ivan	(47) 30.08.2023
(72) MEYER, Sebastian	(31) 201562240112 P	(87) JP2014058069
FURRER, Esther Maria	201562240101 P	25.06.2015
GUNDE, Tea	(32) 12.10.2015	(22) 24.03.2014
(31) 16160907	12.10.2015	(54) NUTRIENT COMPOSITION HAVING LIPID METABOLISM-IMPROVING ACTION
(32) 17.03.2016	(33) United States of America	(73) Daicel Corporation
(33) European Patent Office (EPO)	United States of America	(72) UKITA, Shizuka
(51) C07K 16/28	(51) C07K 16/30	SHIMAMOTO, Shu
A61K 39/395	A61K 47/68	NAKAMURA, Tsuyoshi
G01N 33/53	A61K 39/00	KOBAYASHI, Hiroshi
G01N 33/574	A61P 35/00	YAMAUCHI, Ryoko
C12N 15/09	(11) EP3606963	NAKAMURA, Toshikazu
C12P 21/08	(21) EP18712921.8	(31) 2013263889
A61P 35/00	(47) 30.08.2023	(32) 20.12.2013
A61K 39/00	(87) EP2018058043	(33) Japan
(11) EP3064512	11.10.2018	(51) C08B 37/00
(21) EP16165434.8	(22) 29.03.2018	A61K 8/73
(47) 30.08.2023	(54) ANTIBODIES BINDING TO STEAP-1	A61Q 19/08
(22) 09.01.2009	(73) F. Hoffmann-La Roche AG	A61P 17/00
(54) ANTI-CLDN6 ANTIBODY	(72) LARIVIERE, Laurent	(11) EP2367852
(73) CHUGAI SEIYAKU KABUSHIKI KAISHA	HOFER, Thomas	(21) EP09797178.2
The University of Tokyo	MOESSNER, Ekkehard	(47) 30.08.2023
(72) NISHIMURA, Kunihiro	WEINZIERL, Tina	(87) IB2009055663
ABURATANI, Hiroyuki	NIEWOEHNER, Jens	17.06.2010
SAKUMOTO, Hirofumi	KOENIG, Maximiliane	(22) 10.12.2009
TSUTSUMI, Shuichi	(31) 17164466	(54) COSMETIC COMPOSITION CONTAINING ACETYLATED OLIGOGLUCURONANS
KAWAI, Shigeto	(32) 03.04.2017	(73) SEDERMA
(31) 2008004423	(33) European Patent Office (EPO)	(72) MONDON, Philippe
(32) 11.01.2008	(51) C07K 19/00	FOURNIAL, Arnaud
(33) Japan	A61K 38/00	GRIZAUD, Claire-Marie
(51) C07K 16/28	C07K 16/00	LE MOIGNE, Caroline
C07K 16/32	C07K 16/46	(31) 0858501
C07K 14/735	(11) EP3137506	(32) 11.12.2008
G01N 33/50	(21) EP15785583.4	(33) France
A61K 35/12	(47) 30.08.2023	(51) C08B 37/08
A61P 35/00	(87) US2015028926	A61K 31/715
C12N 5/0783	05.11.2015	A61K 31/702
A61P 31/00	(22) 01.05.2015	C08L 5/08
(11) EP2921500	(54) COMPOSITIONS AND METHODS RELATED TO ENGINEERED FC CONSTRUCTS	(11) EP2885323
(21) EP15150984.1	(73) Momena Pharmaceuticals, Inc.	(21) EP13829755.1
(47) 30.08.2023	(72) SCHULTES, Birgit, C.	(47) 30.08.2023
(22) 08.07.2005	LANSING, Jonathan, C.	(87) US2013055360
(54) GENETICALLY MODIFIED HUMAN NATURAL KILLER CELL LINES	RUTITZKY, Laura	20.02.2014
	HUSTON, James, S.	
	LING, Leona, E.	

(22) 16.08.2013	(54) CARBON DIOXIDE AS A CATALYST	01.10.2020
(54) WATER SOLUBLE NITRIC OXIDE- RELEASING POLYGLUCOSAMINES AND USES THEREOF	QUENCH AGENT IN SOLUTION POLYMERIZATION, AND PRODUCTS MADE THEREFROM	(22) 19.03.2020
(73) The University of North Carolina At Chapel Hill	(73) ExxonMobil Chemical Patents Inc.	(54) MONOBIDENTATE AMINOPYRIDINE GROUP IV TRANSITION METAL OLEFIN COPOLYMERIZATION CATALYSTS WITH ULTRA-HIGH MOLECULAR WEIGHT CAPABILITY AND ULTRA-LOW COMONOMER INCORPORATION
(72) LU, Yuan	(72) NGUYEN, Danica L.	(73) Dow Global Technologies LLC
SCHOENFISCH, Mark	RODRIGUEZ, George	(72) CHRISTIANSON, Matthew D.
(31) 201261684373 P	HARLAN, Charles, J.	BAILEY, Brad C.
(32) 17.08.2012	BARSAN, Florin	MUKHOPADHYAY, Sukrit
(33) United States of America	MCDONALD, Michael, F.	PAINE, Tomas D.
(51) C08F 2/00	JAIN, Aakriti	CAMELIO, Andrew M.
C08F 6/00	CANICH, Jo Ann, M.	(31) 201962825264 P
C08F 10/00	SATTLER, Aaron	(32) 28.03.2019
C08F 2/01	(31) 201762551380 P	(33) United States of America
C08F 2/34	17202252	
(11) EP3838928	(32) 29.08.2017	
(21) EP21150052.5	17.11.2017	
(47) 30.08.2023	(33) United States of America	
(22) 30.11.2017	European Patent Office (EPO)	
(54) PROCESS	(51) C08F 110/06	(51) C08F 212/08
(73) Ineos Europe AG	C08F 4/02	C08F 220/18
(72) CHAMAYOU, Jean-Louis	C08F 4/651	C08L 25/14
NAVARRO DE CASTRO, Miguel Angel	(11) EP3322739	C09J 125/14
GUIGNES, Laure	(21) EP16739107.7	C08L 33/08
(31) 201620525	(47) 30.08.2023	C08K 3/16
(32) 02.12.2016	(87) EP2016066717	C08K 3/30
(33) United Kingdom	19.01.2017	C08K 3/36
(51) C08F 2/44	(22) 14.07.2016	G03G 9/087
C08F 2/50	(54) CATALYST COMPONENT	C09D 125/14
C08K 3/22	(73) Borealis AG	C08F 257/02
C08K 3/28	(72) LEINONEN, Timo	C09J 7/38
C08K 3/34	DENIFL, Peter	C09J 9/00
C08K 3/36	RÖNKKÖ, Hanna-Leena	G03G 9/097
C08K 5/00	VESTBERG, Torvald	(11) EP4063410
C09D 4/00	(31) 15177143	(21) EP21211633.9
H01M 10/625	15177135	(47) 30.08.2023
H01M 10/653	(32) 16.07.2015	(22) 01.12.2021
C08F 220/18	16.07.2015	(54) METHOD FOR PRODUCING PRESSURE-RESPONSIVE PARTICLES, METHOD FOR PRODUCING PRINTED MATERIAL, METHOD FOR PRODUCING SHEET FOR PRODUCING PRINTED MATERIAL, AND PRESSURE-RESPONSIVE PARTICLES
C08K 3/013	(33) European Patent Office (EPO)	(73) FUJIFILM Business Innovation Corp.
C08K 3/014	European Patent Office (EPO)	(72) KAMIWAKI, Satoshi
C08J 5/18	(51) C08F 110/10	INOUE, Satoshi
H01L 23/373	C08F 4/52	YAMANAKA, Kiyohiro
(11) EP3862369	C08F 4/78	IWANAGA, Takeshi
(21) EP20837521.2	C08F 2/06	YAMASAKI, Sumiaki
(47) 30.08.2023	C08F 6/00	(31) 2021054291
(87) KR2020008976	C08F 6/02	(32) 26.03.2021
14.01.2021	(11) EP3722333	(33) Japan
(22) 09.07.2020	(21) EP19888150.0	
(54) COMPOSITION AND HEAT DISSIPATION SHEET MANUFACTURED THEREFROM	(47) 30.08.2023	
(73) LG Chem, Ltd.	(87) KR2019014453	
(72) PARK, Hyo Soon	28.05.2020	
JUNG, Je Sik	(22) 30.10.2019	
(31) 20190082964	(54) METHOD FOR PREPARING POLYBUTENE OLIGOMER	
(32) 10.07.2019	(73) LG CHEM, LTD.	
(33) Korea (Republic)	(72) LEE, Jin	
(51) C08F 4/659	CHOI, Gyeong Shin	
C08F 6/02	JO, Dong Hyun	
C08F 2/12	KIM, Won Hee	
(11) EP3676299	(31) 20180145928	
(21) EP18740494.2	(32) 23.11.2018	
(47) 30.08.2023	(33) Korea (Republic)	
(87) US2018040837	(51) C08F 210/16	
07.03.2019	C08F 4/659	
(22) 05.07.2018	(11) EP3947481	
	(21) EP20718995.2	
	(47) 30.08.2023	
	(87) US2020023487	
		(31) 2018179382

(32) 25.09.2018	(72) RAETH, Alexander	(21) EP17771696.6
(33) Japan	SDRUJKOWSKI, Waldemar	(47) 30.08.2023
(51) C08F 257/02	OTERO MARTINEZ, Iran	(87) EP2017072662
C08F 220/18	FRISCHE, Bianca	15.03.2018
C08F 2/22	(31) 18213997	(22) 08.09.2017
C08F 2/00	(32) 19.12.2018	(54) COATINGS
C08F 212/08	(33) European Patent Office (EPO)	(73) Jotun A/S
C09D 143/02	(51) C08G 18/48	(72) RISBERG, Erik
C09D 143/04	C08G 18/66	SHIN, Hyun-ho
C09D 151/00	C08G 18/76	JUNG, Ku-sik
(11) EP3394115	C08G 18/10	(31) 16187921
(21) EP15910994.1	C08G 18/32	(32) 08.09.2016
(47) 30.08.2023	C08F 290/06	(33) European Patent Office (EPO)
(87) CN2015098013	C08F 290/14	(51) C08G 59/40
29.06.2017	(11) EP3732220	C08K 5/55
(22) 21.12.2015	(21) EP18812489.5	(11) EP4010399
(54) MULTISTAGE AQUEOUS EMULSION	(47) 30.08.2023	(21) EP20750218.8
POLYMER AND AQUEOUS COATING	(87) US2018060639	(47) 30.08.2023
COMPOSITION FORMED THEREFROM	04.07.2019	(87) EP2020071371
(73) Rohm and Haas Company	(22) 13.11.2018	11.02.2021
Dow Global Technologies, LLC	(54) CONTROLLABLE-CURE URETHANE	(22) 29.07.2020
(72) LIU, Han	ACRYLATE RESIN COMPOSITIONS	(54) STORAGE-STABLE EPOXY RESIN
LI, Ling	AND METHODS OF MAKING SAME	COMPOSITION
ZHANG, Jinyuan	(73) Dow Global Technologies LLC	(73) Alzchem Trostberg GmbH
CUI, Wei	(72) QIAN, Huifeng	(72) HARTL, Maximilian
ZHANG, Qingwei	PELLACANI, Luigi	SAX, Monika
DONG, Xiangting	SHAFI, Muhammad A.	RITZINGER, Florian
(51) C08F 283/12	(31) 201700149916	DIJKINK, Peter
C08L 51/08	(32) 27.12.2017	ZGELA, Dominik
C08L 69/00	(33) Italy	(31) 102019121195
C08L 101/00	(51) C08G 18/48	(32) 06.08.2019
C08F 285/00	C08G 18/76	(33) Germany
(11) EP3901190	C08G 18/12	(51) C08G 59/40
(21) EP21163190.8	C08G 18/18	C09J 163/00
(47) 30.08.2023	C08G 18/20	(11) EP3700958
(22) 29.05.2018	C08G 18/28	(21) EP18788790.6
(54) POLYORGANOSILOXANE-	(11) EP3320006	(47) 30.08.2023
CONTAINING GRAFT COPOLYMER,	(21) EP15790689.2	(87) EP2018079159
THERMOPLASTIC RESIN	(47) 30.08.2023	02.05.2019
COMPOSITION, AND MOLDED	(87) IT2015000178	(22) 24.10.2018
ARTICLE	12.01.2017	(54) HEAT-CURABLE EPOXY RESIN
(73) Mitsubishi Chemical Corporation	(22) 06.07.2015	COMPOSITION WITH HIGH STORAGE
(72) WAKITA, Ayaka	(54) POLYURETHANE PREPOLYMERS	STABILITY
NODONO, Mitsufumi	(73) Dow Global Technologies LLC	(73) Sika Technology AG
MATSUOKA, Shinji	(72) CASAGRANDE, Gianluca	(72) KRÜGER, Christian
SUENAGA, Naotaka	CORINTI, Elisa	MUNZINGER, Noah
TAKEMASU, Kenta	(51) C08G 18/78	(31) 17198120
(31) 2017111777	C08G 73/02	(32) 24.10.2017
(32) 06.06.2017	(11) EP4032930	(33) European Patent Office (EPO)
(33) Japan	(21) EP21152882.3	(51) C08G 63/181
(51) C08G 18/48	(47) 30.08.2023	C08G 63/668
C08G 18/63	(22) 22.01.2021	C08G 63/672
C08G 18/76	(54) BIURET-BASED QUATERNIZED	C08G 63/85
C08G 18/08	POLYMERS AND THEIR USE IN METAL	(11) EP3585828
C08G 18/18	OR METAL ALLOY PLATING BATHS	(21) EP18709875.1
C08G 18/20	(73) Atotech Deutschland GmbH	(47) 30.08.2023
C08G 18/40	(72) Llavona-Serrano, Angela	(87) US2018019340
C08G 101/00	Hilbert, Frank	30.08.2018
(11) EP3898745	Wenzel, Agnieszka	(22) 23.02.2018
(21) EP19813868.7	Luttmann, Sven	(54) PROCESS FOR PREPARING
(47) 30.08.2023	Heyde, Sandra	POLY(ALKYLENE
(87) EP2019084134	Haack, Peter	FURANDICARBOXYLATE)
25.06.2020	Rückbrod, Sven	(73) Covation Inc.
(22) 09.12.2019	Brunner, Heiko	(72) PIGLIACAMPI, Paul J.
(54) FLEXIBLE POLYURETHANE FOAMS	(51) C08G 59/40	SUNKARA, Hari Babu
HAVING IMPROVED LONG-TERM	C08G 59/24	(31) 201762462950 P
PROPERTIES	C09D 5/08	(32) 24.02.2017
(73) BASF SE	(11) EP3510074	(33) United States of America

(51) C08G 63/90	TALLEY, Samantha	(47) 30.08.2023
(11) EP3423509	YUAN, Xijing	(87) FR2018051130
(21) EP17710673.9	BRANHAM, Kelly D.	15.11.2018
(47) 30.08.2023	MOORE, Robert B.	(22) 04.05.2018
(87) EP2017054623	JEOL, Stéphane	(54) PEBA-BASED COMPOSITION AND
08.09.2017	APOSTOLO, Marco	USE THEREOF FOR PRODUCING A
(22) 28.02.2017	ROLLER, David B.	FATIGUE-RESISTANT TRANSPARENT
(54) PROCESS FOR REMOVAL OF	(31) 201662406634 P	OBJECT
TETRAHYDROFURAN	(32) 11.10.2016	(73) Arkema France
(73) Novamont S.p.A.	(33) United States of America	(72) TURAN-ALTUNTAS, Inci
(72) CAPUZZI, Luigi	(51) C08G 69/02	SABARD, Mathieu
BASTIOLI, Catia	C08G 69/04	BLONDEL, Philippe
RALLIS, Angelos	C08G 69/26	PINEAU, Quentin
(31) 16157987	C08G 69/28	(31) 1754154
(32) 01.03.2016	(11) EP3237491	(32) 11.05.2017
(33) European Patent Office (EPO)	(21) EP15828357.2	(33) France
(51) C08G 64/06	(47) 30.08.2023	(51) C08G 73/06
C08G 64/30	(87) FR2015053706	C08L 79/08
(11) EP3571240	30.06.2016	C08J 5/18
(21) EP18719639.9	(22) 22.12.2015	C09D 179/04
(47) 30.08.2023	(54) PRODUCTION OF POLYAMIDE	C09D 179/08
(87) IB2018050268	POWDERS BY ESTER AMINOLYSIS	C08G 73/10
26.07.2018	(73) Arkema France	C08G 73/22
(22) 16.01.2018	(72) NOGUES, Pierre	C09D 7/20
(54) REDUCED COLOR POLYCARBONATE	CAMMAGE, Geoffroy	H01L 23/29
COMPOSITIONS, METHODS OF	(31) 1463132	H01L 23/31
MANUFACTURE, AND ARTICLES	(32) 22.12.2014	H01L 23/495
THEREOF	(33) France	H01L 23/522
(73) SABIC Global Technologies B.V.	(51) C08G 69/16	H01L 21/02
(72) GARCIA AGUDO, Jorge A.	C08J 3/14	(11) EP3284771
BOJARSKI, Aaron David	B29B 9/10	(21) EP16779830.5
(31) 17382020	B29B 9/12	(47) 30.08.2023
(32) 17.01.2017	(11) EP3936316	(87) JP2016056349
(33) European Patent Office (EPO)	(21) EP21181601.2	20.10.2016
(51) C08G 65/26	(47) 30.08.2023	(22) 02.03.2016
(11) EP3914634	(22) 24.06.2021	(54) HEAT-RESISTANT RESIN
(21) EP20701439.0	(54) METHOD OF SYNTHESIZING	COMPOSITION, METHOD FOR
(47) 30.08.2023	HIGHLY SPHERICAL POLYAMIDE	MANUFACTURING HEAT-RESISTANT
(87) EP2020051262	MICROPARTICLES	RESIN FILM, METHOD FOR
30.07.2020	(73) Xerox Corporation	MANUFACTURING INTERLAYER
(22) 20.01.2020	(72) JAMALI, Hojjat Seyed	INSULATION FILM OR SURFACE
(54) WATER-BASED PIGMENT	(31) 202016925780	PROTECTIVE FILM, AND METHOD
PREPARATIONS, THE PRODUCTION	(32) 10.07.2020	FOR MANUFACTURING ELECTRONIC
THEREOF AND THE USE OF THE	(33) United States of America	COMPONENT OR SEMICONDUCTOR
SAME	(51) C08G 69/26	COMPONENT
(73) Clariant International Ltd	C08G 69/40	(73) Toray Industries, Inc.
(72) HÖVELMANN, Felix	(11) EP3622008	(72) KIUCHI, Yohei
BECK, Dietmar	(21) EP18734861.0	OKUDA, Ryoji
KUPFER, Rainer	(47) 30.08.2023	(31) 2015083049
SCHEINHARDT, Benjamin	(87) FR2018051129	(32) 15.04.2015
GABEL, Dorothee	15.11.2018	(33) Japan
(31) 102019200789	(22) 04.05.2018	(51) C08G 73/14
(32) 23.01.2019	(54) PEBA-BASED COMPOSITION AND	C08G 73/10
(33) Germany	USE THEREOF FOR PRODUCING A	C08L 79/08
(51) C08G 65/40	FATIGUE-RESISTANT TRANSPARENT	C08J 5/18
(11) EP3526275	OBJECT	C08G 18/34
(21) EP17790983.5	(73) Arkema France	C08G 18/77
(47) 30.08.2023	(72) BLONDEL, Philippe	(11) EP3363845
(87) EP2017075864	SABARD, Mathieu	(21) EP17802981.5
19.04.2018	PINEAU, Quentin	(47) 30.08.2023
(22) 10.10.2017	TURAN-ALTUNTAS, Inci	(87) KR2017003943
(54) BLOCKY POLY(ETHER ETHER	(31) 1754153	30.11.2017
KETONE) COPOLYMERS AND	(32) 11.05.2017	(22) 12.04.2017
CORRESPONDING SYNTHESIS	(33) France	(54) POLYAMIDE-IMIDE
METHODS AND ARTICLES	(51) C08G 69/36	(73) LG Chem, Ltd.
(73) Solvay Specialty Polymers Italy S.p.A.	C08G 69/40	(72) KIM, Kyungjun
Virginia Tech Intellectual Properties, Inc.	(11) EP3622009	YUN, Cheolmin
(72) ANDERSON, Lindsey	(21) EP18734862.8	SUH, Jun Sik

(31) 20160063317	B01J 20/26	(21) EP14875628.1
(32) 24.05.2016	B01J 20/30	(47) 30.08.2023
(33) Korea (Republic)	B01J 20/10	(87) JP2014083241
(51) C08G 79/02	C08F 220/06	02.07.2015
C08L 85/02	(11) EP3882301	(22) 16.12.2014
C09D 185/02	(21) EP21172413.3	(54) POLYOLEFIN RESIN FOAM
C08F 230/02	(47) 30.08.2023	PARTICLES, AND POLYOLEFIN RESIN
C09D 143/02	(22) 11.07.2016	IN-MOLD EXPANSION MOLDED
C09D 175/04	(54) SUPERABSORBENT POLYMER	ARTICLE
C08G 18/62	(73) LG Chem, Ltd.	(73) Kaneka Corporation
C08G 18/79	(72) LEE, Sang Gi	(72) FUKUZAWA Jun
(11) EP3204444	NAM, Hye Mi	YOSHIDA Toru
(21) EP15848199.4	LEE, Soo Jin	(31) 2013270943
(47) 30.08.2023	JANG, Tae Hwan	(32) 27.12.2013
(87) US2015054442	HWANG, Min Ho	(33) Japan
14.04.2016	(31) 20160086939	(51) C08J 9/04
(22) 07.10.2015	20160035409	C08J 9/00
(54) PHOSPHATE ESTER-MODIFIED	(32) 08.07.2016	C08J 9/10
ACRYLIC POLYOLS	24.03.2016	(11) EP3858902
(73) BASF SE	(33) Korea (Republic)	(21) EP19864200.1
(72) CALHOUN, Eric	Korea (Republic)	(47) 30.08.2023
KLOTS, Timothy	(51) C08J 5/04	(87) JP2019038389
(31) 201462061558 P	C08J 5/24	02.04.2020
(32) 08.10.2014	C08K 5/16	(22) 27.09.2019
(33) United States of America	C08K 5/09	(54) FOAMED POLYOLEFIN-BASED-RESIN
(51) C08J 3/05	(11) EP3464429	SHEET
C08G 63/06	(21) EP17726899.2	(73) SEKISUI CHEMICAL CO., LTD.
C08G 63/91	(47) 30.08.2023	(72) NAGAI, Asami
(11) EP3822300	(87) EP2017062430	MUKOHATA, Daisuke
(21) EP19834289.1	07.12.2017	(31) 2018185670
(47) 30.08.2023	(22) 23.05.2017	(32) 28.09.2018
(87) JP2019027091	(54) METHOD OF MANUFACTURING	(33) Japan
16.01.2020	COMPOSITE PRODUCTS	(51) C08J 9/14
(22) 09.07.2019	COMPRIING A CARBOHYDRATE-	C08J 3/12
(54) POLYLACTIC ACID COPOLYMER AND	BASED BINDER	C08J 3/24
METHOD FOR PRODUCING SAME	(73) Knauf Insulation SPRL	C08K 9/10
(73) Toyo Seikan Group Holdings, Ltd.	(72) HAMPSON, Carl	C08F 2/44
(72) KATAYAMA, Tsutaki	MAXWELL, Mike	C08J 9/16
YOSHIKAWA, Seishi	(31) 201609616	(11) EP3753976
SHIBATA, Kouki	(32) 02.06.2016	(21) EP19885400.2
(31) 2018130660	(33) United Kingdom	(47) 30.08.2023
(32) 10.07.2018	(51) C08J 5/24	(87) KR2019015196
(33) Japan	C08J 5/04	22.05.2020
(51) C08J 3/24	(11) EP3168257	(22) 08.11.2019
B29C 73/16	(21) EP15818313.7	(54) METHOD FOR PREPARING SUPER
(11) EP3071634	(47) 30.08.2023	ABSORBENT POLYMER
(21) EP14805769.8	(87) JP2015069251	(73) LG CHEM, LTD.
(47) 30.08.2023	14.01.2016	(72) MIN, Yoon Jae
(87) US2014066119	(22) 03.07.2015	KIM, Ki Hyun
21.05.2015	(54) PSEUDO-ISOTROPIC REINFORCED	WOO, Heechang
(22) 18.11.2014	SHEET MATERIAL AND METHOD FOR	KIM, Gicheul
(54) SELF-HEALING POLYMERIC	PRODUCING SAME	KIM, Jaeyul
COMPOSITION	(73) Fukui Prefectural Government	JEONG, In Yong
(73) Battelle Memorial Institute	(72) KONDO, Keiichi	LEE, Seul Ah
(72) MUSZYNSKI, Beth	KAWABE, Kazumasa	SONG, Jong Hun
LALGUDI, Ramanathan S.	IYO, Hirofumi	(31) 20180164466
(31) 201461987119 P	(31) 2015126500	20180153909
201361905538 P	2014140660	20180139106
(32) 01.05.2014	(32) 24.06.2015	(32) 18.12.2018
18.11.2013	(32) 08.07.2014	03.12.2018
(33) United States of America	(33) Japan	13.11.2018
United States of America	Japan	(33) Korea (Republic)
(51) C08J 3/24	(51) C08J 9/00	Korea (Republic)
C08J 3/12	C08J 9/12	Korea (Republic)
C08K 3/00	C08J 9/16	(51) C08K 3/36
C08K 3/22	C08J 9/18	C09J 7/10
B01J 20/28	C08J 9/232	C09J 7/20
B01J 20/08	(11) EP3088454	C09J 7/00

C09J 4/00	C08J 5/00	(33) France
C09J 11/04	C08J 5/18	(51) C08K 5/42
C09J 11/06	C08K 13/00	(11) EP3397684
C09J 201/02	C08K 5/11	(21) EP16834148.5
H01L 21/301	C08J 3/18	(47) 30.08.2023
H01L 21/683	(11) EP3670592	(87) US2016068617
H01L 21/52	(21) EP20150838.9	06.07.2017
C08K 3/28	(47) 30.08.2023	(22) 26.12.2016
C08K 3/08	(22) 04.02.2016	(54) A METHOD TO ENHANCE RELEASE
(11) EP3187556	(54) PLASTICIZER COMPOSITION AND	OF POLYMERS FROM HOT METAL
(21) EP15835421.7	RESIN COMPOSITION	SURFACES
(47) 30.08.2023	(73) LG CHEM, LTD.	(73) Rohm and Haas Company
(87) JP2015072717	(72) MOON, Jeong Ju	(72) PETR, Michael T.
03.03.2016	LEE, Mi Yeon	(31) 201562271771 P
(22) 10.08.2015	KIM, Hyun Kyu	(32) 28.12.2015
(54) ADHESIVE FILM	KIM, Joo Ho	(33) United States of America
(73) Furukawa Electric Co., Ltd.	JEONG, Seok Ho	(51) C08K 5/42
(72) KIRIKAE, Noriyuki	(31) 20150144889	C08L 101/00
AOYAMA, Masami	20150113875	C09K 3/16
(31) 2014176348	20150041794	C08G 81/00
(32) 29.08.2014	20150021783	C08G 81/02
(33) Japan	(32) 16.10.2015	C08L 87/00
(51) C08K 5/00	12.08.2015	C08K 5/00
C08K 5/12	25.03.2015	(11) EP4134397
C08L 101/00	12.02.2015	(21) EP21844940.3
C08J 5/18	(33) Korea (Republic)	(47) 30.08.2023
(11) EP3327074	Korea (Republic)	(87) JP2021037096
(21) EP16830773.4	Korea (Republic)	22.12.2022
(47) 30.08.2023	Korea (Republic)	(22) 07.10.2021
(87) KR2016008043	(51) C08K 5/13	(54) ANTISTATIC AGENT FOR
02.02.2017	C08K 5/46	THERMOPLASTIC RESINS
(22) 22.07.2016	C08L 33/02	(73) Sanyo Chemical Industries, Ltd.
(54) PLASTICIZER COMPOSITION, RESIN	C08F 220/06	(72) SUGIMOTO, Yuko
COMPOSITION, AND PREPARATION	(11) EP3763779	FUJITA, Shinichi
METHODS THEREFOR	(21) EP20182730.0	(31) 2021101264
(73) LG Chem, Ltd.	(47) 30.08.2023	(32) 18.06.2021
(72) JEONG, Seok Ho	(22) 26.06.2020	(33) Japan
MOON, Jeong Ju	(54) LUBRICANT COMPOSITION	(51) C08L 9/06
LEE, Mi Yeon	AND METHOD OF PREPARING	B60C 1/00
KIM, Joo Ho	COPOLYMER USING THE SAME	(11) EP4004103
KIM, Hyun Kyu	(73) SK Geo Centric Co., Ltd.	(21) EP20739651.6
(31) 20160092873	SK Innovation Co., Ltd.	(47) 30.08.2023
20150105323	(72) YANG, Jin Haek	(87) EP2020069497
(32) 21.07.2016	LEE, Ho Seong	04.02.2021
24.07.2015	KIM, Sun Joo	(22) 10.07.2020
(33) Korea (Republic)	(31) 20190082484	(54) TIRE INCORPORATING A RUBBER
Korea (Republic)	(32) 09.07.2019	COMPOSITION INCLUDING A
(51) C08K 5/098	(33) Korea (Republic)	SPECIFIC HYDROCARBON RESIN
C08K 5/13	(51) C08K 5/1545	(73) COMPAGNIE GENERALE DES
C08K 5/51	C08K 11/00	ETABLISSEMENTS MICHELIN
C08L 23/04	C08L 23/04	(72) HUT, Alain
(11) EP3630879	C08L 23/10	DE GAUDEMARIS, Benoit
(21) EP18735000.4	(11) EP3990535	GEORJON, Olivier J. F.
(47) 30.08.2023	(21) EP20747037.8	COPEY, Laurent
(87) US2018033921	(47) 30.08.2023	TRIPATHY, Ranjan
29.11.2018	(87) FR2020051106	THURMAN, Derek W.
(22) 22.05.2018	30.12.2020	BONNETTE, Fabien
(54) METHODS FOR IMPROVING COLOR	(22) 25.06.2020	(31) 1908541
STABILITY IN POLYETHYLENE RESINS	(54) MATERIAL FOR FOOD PACKAGING	(32) 26.07.2019
(73) Chevron Phillips Chemical Company LP	AND PROCESS OF PREPARATION	(33) France
(72) LANIER, Elizabeth Mary	THEREOF	(51) C08L 9/06
KAMPLAIN, Justin Wade	(73) Centre National de la Recherche	B60C 1/00
(31) 201762510787 P	Scientifique	C08K 3/04
(32) 25.05.2017	Université de Pau et des Pays de l'Adour	C08K 3/36
(33) United States of America	(72) ISSART, Ambre	C08K 5/521
(51) C08K 5/12	ALLAL, Ahmed Michel	C08L 57/02
C08K 5/00	(31) 1907060	C08L 9/00
C08L 101/00	(32) 27.06.2019	(11) EP3676324

(21) EP17923103.0	Japan	(87) FR2018052029
(47) 30.08.2023	(51) C08L 23/08	14.02.2019
(87) JP2017031088	C08L 23/12	(22) 07.08.2018
07.03.2019	C08L 23/14	(54) COMPOSITION OF FLUORINATED
(22) 30.08.2017	C08L 53/00	ELECTROACTIVE POLYMERS,
(54) A TIRE HAVING A TREAD	(11) EP3404064	FORMULATION, FILM, ELECTRONIC
COMPRISING A RUBBER	(21) EP18172236.4	DEVICE AND ORGANIC FIELD-EFFECT
COMPOSITION	(47) 30.08.2023	TRANSISTOR
(73) Compagnie Générale des	(22) 15.05.2018	(73) Université de Bordeaux
Etablissements Michelin	(54) THERMOPLASTIC ELASTOMER	Arkema France
(72) MAESAKA Masayuki	COMPOSITION	Institut Polytechnique de Bordeaux
(51) C08L 21/00	(73) Sumitomo Chemical Company, Ltd	Centre National de la Recherche
B60C 1/00	(72) KUROKAWA, Ryosuke	Scientifique
C08K 3/04	(31) 2017099569	(72) THUAU, Damien
C08K 3/24	(32) 19.05.2017	DOMINGUES DOS SANTOS, Fabrice
C08K 3/36	(33) Japan	HADZIOANNOU, Georges
C08K 3/22	(51) C08L 23/08	SOULESTIN, Thibaut
(11) EP3653667	C08L 23/16	(31) 1757604
(21) EP18831784.6	C08K 3/04	(32) 09.08.2017
(47) 30.08.2023	C08K 3/22	(33) France
(87) JP2018025806	C08K 5/14	(51) C08L 29/04
17.01.2019	C08K 5/16	B65D 65/46
(22) 09.07.2018	(11) EP3752559	C08K 5/053
(54) RUBBER COMPOSITION AND TIRE	(21) EP18906133.6	C08J 3/18
(73) Otsuka Chemical Co., Ltd.	(47) 30.08.2023	C08J 5/18
(72) TANI, Masato	(87) CN2018076786	(11) EP3564306
(31) 2017136133	22.08.2019	(21) EP17888605.7
(32) 12.07.2017	(22) 14.02.2018	(47) 30.08.2023
(33) Japan	(54) ETHYLENE/ALPHA-OLEFIN	(87) JP2017046200
(51) C08L 23/06	INTERPOLYMER COMPOSITIONS	05.07.2018
C09D 123/06	WITH IMPROVED CONTINUOUS HIGH	(22) 22.12.2017
(11) EP3317348	TEMPERATURE RESISTANCE	(54) WATER-SOLUBLE FILM, USE
(21) EP15744758.2	(73) Dow Global Technologies LLC	THEREOF AND CHEMICAL AGENT
(47) 30.08.2023	(72) HAN, Tao	PACKAGE
(87) US2015038626	CHEN, Yong	(73) Mitsubishi Chemical Corporation
05.01.2017	LV, Bo	(72) HIURA Takahiro
(22) 30.06.2015	(51) C08L 23/16	(31) 2016253450
(54) ETHYLENE-BASED POLYMER	C08L 91/06	(32) 27.12.2016
COMPOSITIONS FOR IMPROVED	C08L 51/04	(33) Japan
EXTRUSION COATINGS	C08K 13/06	(51) C08L 29/14
(73) Dow Global Technologies LLC	C08K 9/06	C08K 5/00
(72) DEMIRORS, Mehmet	C08K 3/26	C08J 5/18
COOPER, James L.	C08K 3/34	B32B 27/30
LIN, Yijian	C08K 3/30	B32B 17/00
KARJALA, Teresa P.	(11) EP3394172	(11) EP3230371
(51) C08L 23/08	(21) EP16877738.1	(21) EP15867256.8
C08L 23/12	(47) 30.08.2023	(47) 30.08.2023
C08L 23/14	(87) CN2016111363	(87) US2015063885
C08K 5/14	29.06.2017	16.06.2016
(11) EP3747945	(22) 21.12.2016	(22) 04.12.2015
(21) EP19747872.0	(54) SOUND INSULATION COMPOSITION	(54) POLY(VINYL ACETAL) RESIN
(47) 30.08.2023	AND SOUND INSULATION SHEET FOR	COMPOSITIONS, LAYERS, AND
(87) JP2019001631	VEHICLE	INTERLAYERS HAVING ENHANCED
08.08.2019	(73) BYD Company Limited	OPTICAL PROPERTIES
(22) 21.01.2019	(72) ZHOU, Xiong	(73) Solutia Inc.
(54) MODIFIED ELASTOMER	LIN, Xiping	(72) LU, Jun
COMPOSITION, CROSSLINKED	ZHANG, Min	LI, Zhou
ELASTOMER COMPOSITION, AND	SUN, Yaxuan	(31) 201414563372
MOLDED ARTICLE THEREOF	ZHOU, Mingshuang	201414563364
(73) MCPP Innovation LLC	(31) 201510988207	201414563359
(72) HIROTA, Yasushi	(32) 25.12.2015	(32) 08.12.2014
KATO, Manami	(33) China	08.12.2014
MATSUMOTO, Seiji	(51) C08L 27/16	08.12.2014
(31) 2018015416	H10K 10/46	(33) United States of America
2018015414	H10N 30/857	United States of America
(32) 31.01.2018	(11) EP3665226	United States of America
31.01.2018	(21) EP18762380.6	(51) C08L 35/00
(33) Japan	(47) 30.08.2023	B32B 15/08

B32B 15/088	CONTAINING RESOLE PHENOLIC	(73) Mitsubishi Chemical Corporation
C08K 5/14	RESINS	(72) YOKOGI Masashi
C08K 5/23	(73) Eastman Chemical Company	NISHIKAWA Yoshiki
C08K 5/3445	(72) KUO, Thauming	KITADE Taku
C08K 5/49	LIU, Junjia	(31) 2010156831
C08L 79/08	HALL, Phillip	2010115665
H05K 1/03	(31) 201514922846	(32) 09.07.2010
(11) EP3483214	201514683278	19.05.2010
(21) EP17824246.7	201414540490	(33) Japan
(47) 30.08.2023	201414524509	Japan
(87) JP2017024520	201414524514	(51) C08L 83/05
11.01.2018	(32) 26.10.2015	C08L 83/07
(22) 04.07.2017	10.04.2015	C09K 5/14
(54) RESIN COMPOSITION, RESIN FILM,	13.11.2014	C08K 3/013
LAMINATE, MULTILAYER PRINTED	27.10.2014	C08K 3/22
WIRING BOARD AND METHOD FOR	27.10.2014	(11) EP3988617
PRODUCING MULTILAYER PRINTED	(33) United States of America	(21) EP21820076.4
WIRING BOARD	United States of America	(47) 30.08.2023
(73) Resonac Corporation	United States of America	(87) JP2021012856
(72) MIZUSHIMA Etsuo	United States of America	10.03.2022
IRINO Tetsuroh	United States of America	(22) 26.03.2021
KONDOU Yuusuke	(51) C08L 69/00	(54) THERMALLY CONDUCTIVE SILICONE
TANIGAWA Takao	(11) EP3464468	GEL COMPOSITION, THERMALLY
FUKUDA Tomio	(21) EP17731291.5	CONDUCTIVE SILICONE SHEET, AND
NAGAI Yuki	(47) 30.08.2023	PRODUCTION METHODS THEREFOR
(31) 2016133542	(87) IB2017053118	(73) Fuji Polymer Industries Co., Ltd.
(32) 05.07.2016	30.11.2017	(72) TODO, Shingo
(33) Japan	(22) 26.05.2017	(31) 2020147982
(51) C08L 63/00	(54) HIGH HEAT, HIGH IMPACT	(32) 03.09.2020
C08G 59/22	POLYCARBONATE COMPOSITIONS	(33) Japan
C08K 3/00	AND ARTICLES MADE THEREFROM	(51) C08L 91/02
H05K 7/20	(73) SHPP Global Technologies B.V.	B01J 20/22
H05K 1/05	(72) GRCEV, Snezana	B01D 15/08
H05K 1/03	VAN DE WETERING, Karin	B01D 53/02
(11) EP2731993	(31) 201662341967 P	B01D 53/14
(21) EP12811953.4	(32) 26.05.2016	B09C 1/08
(47) 30.08.2023	(33) United States of America	A62D 3/33
(87) KR2012005547	(51) C08L 69/00	B01J 20/26
17.01.2013	B29C 64/153	B01J 20/34
(22) 12.07.2012	C08L 79/08	A62D 101/24
(54) EPOXY RESIN COMPOUND AND	(11) EP4004112	A62D 101/43
RADIANT HEAT CIRCUIT BOARD	(21) EP20767890.5	B01D 15/00
USING THE SAME	(47) 30.08.2023	(11) EP3445823
(73) LG Innotek Co., Ltd.	(87) US2020044018	(21) EP17785148.2
(72) PARK, Jeung Ook	04.02.2021	(47) 30.08.2023
PARK, Jae Man	(22) 29.07.2020	(87) AU2017000094
GIANG, Thanh Kieu	(54) MATERIAL AND METHOD FOR	26.10.2017
KIM, Jin Hwan	POWDER BED FUSION	(22) 20.04.2017
CHO, In Hee	(73) SHPP Global Technologies B.V.	(54) METAL ADSORBENT MATERIAL AND
YOON, Jong Heum	(72) PRICE, Brian	USES THEREOF
KIM, Hae Yeon	JOFORE, Bruke Daniel	(73) Clean Earth Technology Pty Ltd
KIM, Eun Jin	(31) 201962880722 P	(72) CHALKER, Justin Mark
MOON, Sung Bae	(32) 31.07.2019	WORTHINGTON, Max John Haldane
PARK, Hyun Gyu	(33) United States of America	(31) 2016901470
(31) 20110136871	(51) C08L 69/00	(32) 20.04.2016
20110069138	C08J 5/18	(33) Australia
(32) 16.12.2011	C08G 64/02	(51) C08L 95/00
12.07.2011	B42D 25/00	C08L 9/06
(33) Korea (Republic)	G06K 19/02	C08L 67/02
Korea (Republic)	G06K 19/07	E01C 7/26
(51) C08L 67/00	G06K 19/06	C08L 51/04
(11) EP3428231	(11) EP2573137	C08L 53/02
(21) EP18191066.2	(21) EP11783523.1	C08L 55/02
(47) 30.08.2023	(47) 30.08.2023	(11) EP3656821
(22) 27.10.2015	(87) JP2011061251	(21) EP18835024.3
(54) CURABLE POLYESTERS AND	24.11.2011	(47) 30.08.2023
THERMOSETTING COMPOSITIONS	(22) 16.05.2011	(87) JP2018026719
	(54) SHEET FOR CARDS AND CARD	24.01.2019

- (22) 17.07.2018
(54) ASPHALT COMPOSITION
(73) Kao Corporation
(72) IWAMOTO, Ryoji
HASHIMOTO, Ryoichi
(31) 2017139232
(32) 18.07.2017
(33) Japan
-
- (51) C09B 23/08
A61K 49/00
C07D 209/60
(11) EP3383436
(21) EP16870081.3
(47) 30.08.2023
(87) IB2016057178
08.06.2017
(22) 29.11.2016
(54) AN IMPROVED PROCESS FOR THE
PREPARATION OF INDOCYANINE
GREEN
(73) Dishman Carbogen Amcis Limited
(72) PATEL, Dilip, N.
DHOTRE, Himani
VYAS, Janmejay, Rajnikant
PATEL, Babulal, R.
SONI, Ashish, A.
SARMA, Narasimha
SHARMA, Dinesh, Kumar
(31) 4536MU2015
(32) 01.12.2015
(33) India
-
- (51) C09B 57/00
C09B 69/00
C09B 69/10
H10K 85/10
C08G 61/12
H10K 10/46
(11) EP2764034
(21) EP12768810.9
(47) 30.08.2023
(87) EP2012069510
11.04.2013
(22) 03.10.2012
(54) POLYMERS BASED ON
BENZODIONES
(73) CLAP Co., Ltd.
(72) HAYOZ, Pascal
DÜGGELI, Mathias
(31) 201261596755 P
201161542830 P
12154730
11183765
(32) 09.02.2012
04.10.2011
09.02.2012
04.10.2011
(33) United States of America
United States of America
European Patent Office (EPO)
European Patent Office (EPO)
-
- (51) C09B 67/22
C09B 67/10
C09D 11/037
C09D 11/322
(11) EP3215571
(21) EP15784398.8
(47) 30.08.2023
(87) EP2015074628
- 12.05.2016
(22) 23.10.2015
(54) PROCESS FOR PREPARING C.I.
PIGMENT YELLOW 155
(73) Clariant Plastics & Coatings Ltd
(72) HARADA, Daisuke
CHINO, Tomohiro
(31) 2014224569
(32) 04.11.2014
(33) Japan
-
- (51) C09C 3/10
C09C 1/00
(11) EP2963089
(21) EP15175128.6
(47) 30.08.2023
(22) 02.07.2015
(54) CHEMICAL SYNTHESIS OF
HYBRID INORGANIC-ORGANIC
NANOSTRUCTURED CORROSION
INHIBITIVE PIGMENTS
(73) Raytheon Technologies Corporation
(72) ZHANG, Weilong
(31) 201462019918 P
(32) 02.07.2014
(33) United States of America
-
- (51) C09D 5/00
C09D 7/45
C09D 7/63
C09K 23/56
C08K 5/1545
C09D 5/02
C09D 7/61
C08K 3/00
C09D 123/08
C09D 131/04
(11) EP4015584
(21) EP21213075.1
(47) 30.08.2023
(22) 08.12.2021
(54) USE OF RHAMNOLIPIDS AND /
OR SOPHOROLIPIDS FOR
INCREASING THE YIELD AND / OR
FOR MAINTAINING THE APPLICATION
PROPERTIES OF COATING
COMPOSITIONS
(73) Evonik Operations GmbH
(72) Silber, Stefan
Cavaleiro, Pedro
Blei, Marco
Jansen, Claudia
Allef, Petra
Reuter, Ellen
Roland, Katrin
Mergenthaler, Jochen
(31) 20214082
(32) 15.12.2020
(33) European Patent Office (EPO)
-
- (51) C09D 5/08
(11) EP3247750
(21) EP16701402.6
(47) 30.08.2023
(87) US2016013552
28.07.2016
(22) 15.01.2016
(54) AQUEOUS CORROSION RESISTANT
COATINGS WITH SURFACE-
HYDROPHOBIC INORGANIC
PARTICLES
- (73) The Chemours Company FC, LLC
(72) SHAN, Guobin
DIEBOLD, Michael Patrick
(31) 201562105241 P
(32) 20.01.2015
(33) United States of America
-
- (51) C09D 5/08
C09D 5/00
(11) EP3997180
(21) EP20750895.3
(47) 30.08.2023
(87) US2020041042
25.03.2021
(22) 07.07.2020
(54) METAL SURFACE COATINGS FOR
IMPROVING BOND PERFORMANCE
AND METHODS OF MAKING THE
SAME
(73) Novelis Inc.
Empa Swiss Federal Laboratories for
Materials Science and Technology
(72) BERNER, Michèle Edith
SCHMUTZ, Patrik
GAAN, Sabyasachi
BASSI, Corrado
(31) 201962901966 P
(32) 18.09.2019
(33) United States of America
-
- (51) C09D 5/14
A61F 6/04
A61L 27/16
A61L 27/34
A61L 29/08
A61L 29/16
A61L 31/04
A61L 31/10
A61L 26/00
C08K 5/00
C08L 9/06
C09D 109/06
C09D 127/06
C08L 27/06
(11) EP3177687
(21) EP15753184.9
(47) 30.08.2023
(87) IB2015054985
11.02.2016
(22) 02.07.2015
(54) ELASTOMERIC COMPOSITIONS
COMPRISING USNIC ACID AND
DEVICES MADE THEREOF OR
COATED THEREWITH
(73) Apharm S.r.l.
(72) POZZI, Paolo
GUERRA, Emanuele
PIZZONI, Angelo
(31) MI20141444
(32) 06.08.2014
(33) Italy
-
- (51) C09D 5/16
B01J 35/00
B01J 35/02
B01J 21/06
(11) EP3491078
(21) EP17835412.2
(47) 30.08.2023
(87) US2017044677
01.02.2018

(22) 31.07.2017	(51) C09D 11/40	C09D 7/43
(54) CONTAMINANT-ACTIVATED PHOTOCATALYSIS	C09D 11/322	C09D 7/61
(73) University of Florida Research Foundation, Inc.	B41J 2/01	C09D 163/00
(72) KRISHNA, Vijay	B41M 5/00	C25D 13/06
KOOPMAN, Benjamin, L.	(11) EP3699244	C08G 18/75
BAI, Wei	(21) EP18868080.5	C08G 18/80
MOUDGIL, Brij, M.	(47) 30.08.2023	C08G 18/28
(31) 201662368357 P	(87) JP2018038295	C08K 3/22
(32) 29.07.2016	25.04.2019	C08K 3/28
(33) United States of America	(22) 15.10.2018	C08G 18/64
(51) C09D 11/00	(54) INK SET FOR INKJET RECORDING	C08G 18/73
B32B 15/00	(73) Kao Corporation	C08G 18/76
B32B 15/20	(72) EGAWA, Tsuyoshi	C08G 18/58
C09D 11/02	NAGANO, Tomohiko	C09D 175/00
C09D 11/101	MITSUUYOSHI, Kaname	(11) EP3604465
(11) EP3430096	(31) 2017200637	(21) EP18770308.7
(21) EP17705654.6	(32) 16.10.2017	(47) 30.08.2023
(47) 30.08.2023	(33) Japan	(87) JP2018011315
(87) EP2017053786	(51) C09D 11/54	27.09.2018
21.09.2017	C09D 11/40	(22) 22.03.2018
(22) 20.02.2017	C09D 11/326	(54) CATIONIC ELECTRODEPOSITION COATING MATERIAL COMPOSITION
(54) FLEXIBLE LAMINATE FOR PRINTED RETORT PACKAGING	C09D 11/324	(73) Nippon Paint Automotive Coatings Co., Ltd.
(73) Amcor Flexibles Sélestat SAS	C09D 11/107	(72) SHIMODAIRA, Yosuke
(72) LOHWASSER, Wolfgang	C09D 11/106	MIYAMAE, Nobuhiro
WELVAERT, Steven	C09D 11/38	OHARA, Tetsuya
STENO, Georgia-Venetsana	B41J 2/01	INBE, Toshio
MALFAIT, Tony	B41M 5/00	(31) 2017057927
(31) 16161181	C09C 3/10	(32) 23.03.2017
(32) 18.03.2016	(11) EP3699245	(33) Japan
(33) European Patent Office (EPO)	(21) EP18868816.2	(51) C09J 7/30
(51) C09D 11/101	(47) 30.08.2023	B32B 37/14
(11) EP3549988	(87) JP2018038247	C09J 7/38
(21) EP19167315.1	25.04.2019	H10K 50/844
(47) 30.08.2023	(22) 15.10.2018	(11) EP2781570
(22) 04.04.2019	(54) INK SET	(21) EP13733663.2
(54) UV-CURABLE COMPOSITION FOR COATING OR PRINTING A SUBSTRATE AND/OR A SUBSTRATE SURFACE	(73) Sakata INX Corporation	(47) 30.08.2023
(73) Marabu GmbH & Co. KG	(72) MORIYASU, Kazuki	(87) KR2013000110
(72) Böhlinger, Oliver	SATO, Yoichi	11.07.2013
Rupp, Jochen	KONISHI, Hiroyuki	(22) 07.01.2013
(31) 102018205210	(31) 2017199997	(54) METHOD FOR MANUFACTURING ELECTRONIC DEVICE
(32) 06.04.2018	(32) 16.10.2017	(73) LG Chem, Ltd.
(33) Germany	(33) Japan	(72) CHANG, Suk Ky
(51) C09D 11/105	(51) C09D 167/08	SHIM, Jung Sup
C09D 11/326	C09F 9/00	YOO, Hyun Jee
C09D 11/36	C08K 5/00	CHO, Yoon Gyung
C09D 11/324	C09D 7/63	LEE, Seung Min
G06K 1/12	(11) EP3994221	(31) 20120002170
(11) EP4065651	(21) EP20734578.6	(32) 06.01.2012
(21) EP20824697.5	(47) 30.08.2023	(33) Korea (Republic)
(47) 30.08.2023	(87) EP2020068481	(51) C09J 7/38
(87) JP2020043880	07.01.2021	(11) EP3418341
03.06.2021	(22) 01.07.2020	(21) EP18174769.2
(22) 25.11.2020	(54) COATING COMPOSITION COMPRISING AN AUTOXIDIZABLE RESIN AND AN IRON-LIGAND COMPLEX, SUBSTRATE COATED WITH SUCH COATING COMPOSITION, AND USE OF SUCH IRON-LIGAND COMPLEX	(47) 30.08.2023
(54) INK COMPOSITIONS	(73) Akzo Nobel Coatings International B.V.	(22) 29.05.2018
(73) Ricoh Company, Ltd.	(72) FLAPPER, Jitte	(54) STRETCH RELEASE ADHESIVE, HOUSING ASSEMBLY AND ELECTRONIC DEVICE
(72) DAVIES, Samantha	DE BRUIN, Bas	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
SMITH, Derek	BOOTSMA, Johan	(72) ZENG, Yuanqing
MCVITIE, Andrew	(31) 19184519	(31) 201720717989 U
HAMILTON, John	(32) 04.07.2019	201710466150
(31) 201917277	(33) European Patent Office (EPO)	(32) 19.06.2017
(32) 27.11.2019	(51) C09D 175/04	19.06.2017
(33) United Kingdom	C09D 5/44	(33) China

China	(22) 26.02.2019	(22) 05.10.2018
(51) C09J 7/38	(54) POLYISOBUTYLENE ADHESIVE	(54) COMPOSITION COMPRISING
C09J 125/14	COMPRISING POLYOLEFIN	REFRIGERANT, USE THEREOF,
G03G 9/08	COPOLYMER ADDITIVE	REFRIGERATING MACHINE
C09J 9/00	(73) 3M Innovative Properties Company	HAVING SAME, AND METHOD FOR
G03G 9/087	(72) EVERAERTS, Albert I.	OPERATING SAID REFRIGERATING
G03G 9/093	MCALLISTER, John W.	MACHINE
G03G 9/097	JOHNSON, Jacob P.	(73) DAIKIN INDUSTRIES, LTD.
(11) EP4029918	CHEN, Zhong	(72) YOTSUMOTO, Yuuki
(21) EP21211656.0	BIEBER, Pierre	KARUBE, Daisuke
(47) 30.08.2023	CLAPPER, Jason D.	OHKUBO, Shun
(22) 01.12.2021	AMOS, David T.	TAKAHASHI, Kazuhiro
(54) PRESSURE-RESPONSIVE PARTICLES,	SAHNI, Vasav	ITANO, Mitsushi
CARTRIDGE, AND APPARATUS FOR	(31) 201862636574 P	(31) 2017242185
MANUFACTURING PRINTED MATTER	(32) 28.02.2018	(32) 18.12.2017
(73) FUJIFILM Business Innovation Corp.	(33) United States of America	(33) Japan
(72) KOBAYASHI, Takako	(51) C09J 183/04	(51) C09K 5/10
IIDA, Yoshifumi	B32B 27/00	G06F 1/20
HASEGAWA, TAKASHI	C09J 7/38	H05K 7/20
(31) 2021006588	C09J 183/05	(11) EP3971259
(32) 19.01.2021	C09J 183/07	(21) EP21187110.8
(33) Japan	(11) EP3835388	(47) 30.08.2023
(51) C09J 9/00	(21) EP19846611.2	(22) 22.07.2021
C01B 21/086	(47) 30.08.2023	(54) NON-WATER COOLANT
C07D 233/54	(87) JP2019031809	COMPOSITION AND COOLING
C07D 233/58	13.02.2020	SYSTEM
(11) EP3589712	(22) 13.08.2019	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
(21) EP18714646.9	(54) ORGANOPOLYSILOXANE	(72) WATANABE, Masao
(47) 30.08.2023	COMPOSITION FOR FORMING	TOKOZAKURA, Daisuke
(87) US2018020754	PRESSURE SENSITIVE ADHESIVE	KODAMA, Yasuaki
07.09.2018	LAYER, AND USE OF SAME	(31) 2020156332
(22) 02.03.2018	(73) Dow Toray Co., Ltd.	(32) 17.09.2020
(54) IONIC COMPOSITIONS AND RELATED	(72) ITOH Maki	(33) Japan
USES THEREOF	NAKAMURA Akihiro	(51) C09K 8/80
(73) Nitto Denko Corporation	SUTO Michitaka	E21B 43/267
(72) HU, Yufen	(31) 2018151132	(11) EP4017935
RACHWAL, Stanislaw	(32) 10.08.2018	(21) EP20754098.0
ZHANG, Hongxi	(33) Japan	(47) 30.08.2023
(31) 201762466112 P	(51) C09J 189/00	(87) US2020043172
(32) 02.03.2017	C07K 14/435	25.02.2021
(33) United States of America	A61L 24/10	(22) 23.07.2020
(51) C09J 123/08	(11) EP3686259	(54) NANOPARTICLE COATED PROPPANTS
C09J 123/14	(21) EP18859597.9	AND METHODS OF MAKING AND USE
C08L 23/14	(47) 30.08.2023	THEREOF
C08L 23/12	(87) KR2018007799	(73) Saudi Arabian Oil Company
C08L 23/08	28.03.2019	(72) HAQUE, Mohammad Hamidul
A47G 21/18	(22) 10.07.2018	SAYED, Mohammed
(11) EP3504286	(54) COACERVATE FORMED FROM	SAINI, Rajesh Kumar
(21) EP17742865.3	CATECHOL-SUBSTITUTED	(31) 201916547839
(47) 30.08.2023	ANIONIC POLYMER, ADHESIVE	(32) 22.08.2019
(87) JP2017024941	COMPRISING SAME, AND METHOD	(33) United States of America
01.03.2018	FOR PRODUCING SAME	(51) C09K 11/02
(22) 07.07.2017	(73) POSCO Co., Ltd	C09K 11/66
(54) HOT MELT ADHESIVE AGENT FOR	Nature Gluetech Co., Ltd.	(11) EP3820964
CONTAINER WITH STRAW	Postech Academy-Industry Foundation	(21) EP19744821.0
(73) Henkel AG & Co. KGaA	(72) CHOI, Bong-Hyuk	(47) 30.08.2023
(72) MATSUDA, Kenji	CHA, Hyung Joon	(87) GB2019051963
(31) 2016162564	KIM, Hyo Jeong	16.01.2020
(32) 23.08.2016	(31) 20170121382	(22) 12.07.2019
(33) Japan	(32) 20.09.2017	(54) STABILISED A/M/X MATERIALS
(51) C09J 123/20	(33) Korea (Republic)	(73) Oxford University Innovation Limited
C08L 23/20	(51) C09K 5/04	(72) SAKAI, Nobuya
C08L 51/06	F25B 1/00	SNAITH, Henry James
(11) EP3759189	(11) EP3730574	WENGER, Bernard
(21) EP19710250.2	(21) EP18891167.1	(31) 201811538
(47) 30.08.2023	(47) 30.08.2023	(32) 13.07.2018
(87) US2019019497	(87) JP2018037483	(33) United Kingdom
06.09.2019	27.06.2019	(51) C09K 11/73

H01L 33/50	(72) BELLOLI, Stefano	C10M 129/28
(11) EP3889239	(31) 201700139624	C10M 135/18
(21) EP21167808.1	(32) 04.12.2017	C10M 137/02
(47) 30.08.2023	(33) Italy	F16C 33/66
(22) 10.10.2017	(51) C10M 105/38	C10N 20/00
(54) PHOSPHOR AND PRODUCTION	C07D 307/12	C10N 30/00
METHOD THEREFOR	(11) EP3797145	C10N 40/02
(73) Seoul Semiconductor Co., Ltd.	(21) EP19723115.2	C10N 50/10
(72) Matsuda, Naotoshi	(47) 30.08.2023	C10N 20/02
Takemura, Hirofumi	(87) EP2019062140	C10M 141/10
Shirakawa, Yasuhiro	28.11.2019	C10M 161/00
Itoga, Tatsunori	(22) 13.05.2019	(11) EP3733821
Yamakawa, Masahiko	(54) A LUBRICANT COMPRISING	(21) EP18893376.6
(31) 2016200188	2,5-(BISHYDROXYMETHYL)	(47) 30.08.2023
(32) 11.10.2016	TETRAHYDROFURAN DIALKANOATES	(87) JP2018047393
(33) Japan	(73) BASF SE	04.07.2019
(51) C10G 9/00	(72) STRITTMATTER, Jan	(22) 21.12.2018
C10G 9/18	ECORMIER, Muriel	(54) LUBRICANT COMPOSITION AND
C10G 31/06	GEYER, Karolin	ROLLING BEARING HAVING SAME
C10G 31/08	GRABARSE, Wolfgang	SEALED THEREIN
(11) EP3250660	SCHERER, Markus	(73) NSK Ltd.
(21) EP16744020.5	BOHN, Martin Alexander	(72) WATABE, Eri
(47) 30.08.2023	(31) 18173851	MAEDA, Masayuki
(87) US2016015090	(32) 23.05.2018	TODA, Yujiro
04.08.2016	(33) European Patent Office (EPO)	SUGAWARA, Suguru
(22) 27.01.2016	(51) C10M 107/10	MARUYAMA, Taisuke
(54) HYDROTHERMAL CLEANUP	C07C 2/68	(31) 2017247912
PROCESS	C07C 2/22	(32) 25.12.2017
(73) Applied Research Associates, Inc.	(11) EP3896141	(33) Japan
(72) NANA, Sanjay	(21) EP21168133.3	(51) C10M 169/06
RED, Charles, Jr.	(47) 30.08.2023	C10N 50/10
COPPOLA, Edward, N.	(22) 13.04.2021	C10N 20/02
(31) 201562108770 P	(54) METHOD OF CONTROLLING	C10N 30/06
(32) 28.01.2015	KINEMATIC VISCOSITY OF	C10N 40/02
(33) United States of America	POLYALPHAOLEFIN	(11) EP4090724
(51) C10G 47/06	(73) Indian Oil Corporation Limited	(21) EP21700586.7
B01J 27/043	(72) SAHOO, Usharani	(47) 30.08.2023
C10G 19/02	KUMHAR, Shobhashankar	(87) EP2021050733
C10G 45/02	SINGH, Gurmeet	22.07.2021
C10G 59/02	SAXENA, Deepak	(22) 14.01.2021
C10G 67/10	PAPPU, Naresh	(54) GREASE COMPOSITION
C10G 67/14	RAMAKUMAR, Sankara Sri Venkata	(73) Shell Internationale Research
(11) EP3464515	KAPUR, Gurpreet Singh	Maatschappij B.V.
(21) EP16903333.9	KAUR, Sukhdeep	(72) YANO, Hiroki
(47) 30.08.2023	PANDEY, Jai Narayan	TANAKA, Keiji
(87) US2016034393	(31) 202021016105	(31) 2020005259
30.11.2017	(32) 14.04.2020	(32) 16.01.2020
(22) 26.05.2016	(33) India	(33) Japan
(54) PROCESS FOR REMOVING	(51) C10M 141/10	(51) C10M 171/00
OXYGENATES FROM HYDROCARBON	C10N 10/04	F25B 45/00
STREAMS	C10N 30/00	B60H 1/00
(73) Fluor Technologies Corporation	C10N 30/02	C10N 40/30
(72) DIERICKX, Jan	C10N 30/06	C10N 20/00
(31) 201615164576	C10N 40/04	C10N 30/00
(32) 25.05.2016	(11) EP3431573	F25B 31/00
(33) United States of America	(21) EP17766366.3	(11) EP3743491
(51) C10J 3/00	(47) 30.08.2023	(21) EP18833587.1
C10J 3/72	(87) JP2017008072	(47) 30.08.2023
C10B 5/06	21.09.2017	(87) US2018066607
C10B 11/00	(22) 01.03.2017	01.08.2019
(11) EP3720929	(54) LUBRICATING OIL COMPOSITION AND	(22) 19.12.2018
(21) EP18799866.1	ITS USE IN TRANSMISSIONS	(54) SYSTEM AND METHODS FOR
(47) 30.08.2023	(73) Idemitsu Kosan Co., Ltd	INTRODUCING POE LUBRICANT INTO
(87) IB2018058358	(72) YANAGIHARA, Takashi	AN AUTOMOTIVE AIR-CONDITIONING
13.06.2019	(31) 2016050752	SYSTEM
(22) 26.10.2018	(32) 15.03.2016	(73) The Chemours Company FC, LLC
(54) GASIFICATION APPARATUS	(33) Japan	(72) GRAY, Nina E.
(73) Bernardi Impianti S.r.l.	(51) C10M 169/04	KOBAN, Mary E.

MENTZ JR., Hubert	D06F 39/02	(51) C11D 3/395
(31) 201862745449 P	D06F 23/02	C11D 7/26
201862620575 P	C11D 17/04	C11D 3/39
(32) 14.10.2018	C11D 11/00	C11D 17/00
23.01.2018	C11D 3/37	(11) EP3447114
(33) United States of America	(11) EP3227420	(21) EP17786063.2
United States of America	(21) EP15804224.2	(47) 30.08.2023
(51) C10M 173/02	(47) 30.08.2023	(87) JP2017016111
C10M 125/02	(87) GB2015053655	26.10.2017
C10N 30/06	09.06.2016	(22) 21.04.2017
C10N 40/02	(22) 30.11.2015	(54) MATERIAL CONTAINING SOLID
(11) EP3708642	(54) NEW CLEANING METHOD,	BLEACHING AGENT, AND
(21) EP18876296.7	APPARATUS AND USE	DETERGENT COMPOSITION
(47) 30.08.2023	(73) Xeros Limited	(73) Shikoku Chemicals Corporation
(87) JP2018039646	(72) KNIESEL, Simon	(72) SAHIRO, Koichi
16.05.2019	DIETRICH, Matthias	NORIMOTO, Akihiro
(22) 25.10.2018	SCHOEMER, Martina	TOYOTA, Tsuyoshi
(54) INITIAL RUNNING-IN SYSTEM	EHRET, Frank	IWASAKI, Yoshiya
INCLUDING AN INITIAL RUNNING-IN	KLOKE, Philipp	(31) 2016086619
AGENT COMPOSITION	ELLIS, Gordon Lee	(32) 22.04.2016
(73) Daicel Corporation	BIRD, Robert Andrew	(33) Japan
Tohoku University	(31) 201421293	(51) C11D 3/40
(72) KIMOTO, Norihiro	(32) 01.12.2014	C11D 11/00
TAKAHASHI, Tsubasa	(33) United Kingdom	C09B 29/033
GOTO, Tomohiro	(51) C11D 3/386	C09B 31/10
ADACHI, Koshi	C11D 3/40	C09B 62/008
(31) 2017216442	C11D 3/42	C09B 69/00
(32) 09.11.2017	(11) EP3101110	(11) EP3752589
(33) Japan	(21) EP16161866.5	(21) EP20700371.6
(51) C11C 3/00	(47) 30.08.2023	(47) 30.08.2023
C07C 29/74	(22) 22.01.2007	(87) EP2020050469
C10L 1/182	(54) ENZYME AND FABRIC HUEING AGENT	30.07.2020
C07C 29/86	CONTAINING COMPOSITIONS	(22) 09.01.2020
C07C 29/88	(73) The Procter & Gamble Company	(54) LAUNDRY DETERGENT
(11) EP3440168	(72) LANT, Neil Joseph	(73) Unilever IP Holdings B.V.
(21) EP17715948.0	(31) 854752 P	(72) BATCHELOR, Stephen, Norman
(47) 30.08.2023	795875 P	BURNHAM, Neil, Stephen
(87) EP2017058367	761279 P	(31) 19153077
12.10.2017	(32) 27.10.2006	(32) 22.01.2019
(22) 07.04.2017	28.04.2006	(33) European Patent Office (EPO)
(54) PROCESS FOR RECOVERY OF	23.01.2006	(51) C11D 11/00
GLYCEROL FROM BIODIESEL	(33) United States of America	C11D 3/39
PRODUCTION STREAMS	United States of America	C07D 223/10
(73) A&C Freeman	United States of America	C07D 207/27
(72) FREEMAN, Andrew	(51) C11D 3/39	(11) EP4061918
(31) 201605944	C11D 17/00	(21) EP20808066.3
(32) 07.04.2016	(11) EP3426760	(47) 30.08.2023
(33) United Kingdom	(21) EP17710284.5	(87) EP2020082198
(51) C11D 1/83	(47) 30.08.2023	27.05.2021
C11D 3/37	(87) EP2017055875	(22) 16.11.2020
C11D 1/29	14.09.2017	(54) BLEACH ACTIVATOR HAVING A
C11D 1/75	(22) 13.03.2017	CATIONIC GROUP AND DETERGENT
(11) EP3730594	(54) MANGANESE BLEACH CATALYST	OR CLEANING PRODUCT
(21) EP19200982.7	GRANULES	CONTAINING SAME
(47) 30.08.2023	(73) Novozymes A/S	(73) Henkel AG & Co. KGaA
(22) 02.10.2019	(72) NIELSEN, Niels-Viktor	(72) JANSEN, Arne
(54) DISHWASHING COMPOSITION	SHANG, Lei	SCHAEFER, Sascha
HAVING IMPROVED SUDSING	ENGSTED, Kaare, Joergensen	JUNKES, Christa
(73) The Procter & Gamble Company	ANDRIC, Pavle	GEBERT-SCHWARZWÄELDER, Antje
(72) BRAECKMAN, Karl Ghislain	(31) PCT/EP2017/055553	NEUHAUS, Svenja
GONZALES, Denis Alfred	16198298	(31) 102019217851
VANDENBERGHE, Frederik Clara P.	16159923	(32) 20.11.2019
SAVEYN, Pieter Jan Maria	(32) 09.03.2017	(33) Germany
(31) 19170724	10.11.2016	(51) C11D 11/00
(32) 24.04.2019	11.03.2016	C11D 3/48
(33) European Patent Office (EPO)	(33) World Intellectual Property Office (WIPO)	D06F 33/43
(51) C11D 3/14	European Patent Office (EPO)	D06F 34/22
D06F 35/00	European Patent Office (EPO)	(11) EP3896143

(21) EP21168405.5	(54) BEER PRODUCTION CONTAINER, AND BEER PRODUCTION DEVICE COMPRISING SAME	(33) European Patent Office (EPO)
(47) 30.08.2023		(51) C12N 5/07
(22) 14.04.2021		G01N 33/50
(54) METHOD FOR WET TREATING LAUNDRY	(73) LG Electronics Inc.	(11) EP3607050
(73) Herbert Kannegiesser GmbH	(72) PARK, Sunyoung	(21) EP18723072.7
(72) Heinz, Engelbert	CHONG, Chungook	(47) 30.08.2023
Bringewatt, Wilhelm	KIM, Heeyeon	(87) IL2018050390
(31) 102020002312	(31) 20160110346	11.10.2018
(32) 16.04.2020	201662363326 P	(22) 03.04.2018
(33) Germany	(32) 29.08.2016	(54) EX-VIVO CULTURE SYSTEM AND METHODS OF USING SAME
(51) C11D 17/00	17.07.2016	(73) Yeda Research and Development Co., Ltd.
C11D 3/50	(33) Korea (Republic)	
C11D 3/12	United States of America	(72) STRAUSSMAN, Ravid
C11D 3/20	(51) C12M 1/00	GAVERT, Nancy
(11) EP3824062	C12N 15/09	(31) 201762481738 P
(21) EP19736409.4	C12P 19/34	(32) 05.04.2017
(47) 30.08.2023	(11) EP3749740	(33) United States of America
(87) EP2019068630	(21) EP18903080.2	
23.01.2020	(47) 30.08.2023	(51) C12N 5/071
(22) 10.07.2019	(87) US2018066592	C12N 5/0783
(54) BENEFIT AGENT DELIVERY PARTICLES	08.08.2019	(11) EP3336175
(73) Unilever IP Holdings B.V.	(22) 19.12.2018	(21) EP16306718.4
(72) PARKER, Andrew, Philip	(54) SYSTEMS AND METHODS FOR MULTIPLEXED MEASUREMENTS IN SINGLE AND ENSEMBLE CELLS	(47) 30.08.2023
JONES, Craig, Warren	(73) The Board Of Trustees Of The Leland Stanford Junior University	(22) 16.12.2016
(31) 18183988	(72) CHANG, Howard Y.	(54) THREE-DIMENSIONAL MODEL OF DEPIGMENTING DISORDER
(32) 17.07.2018	SATPATHY, Ansuman	(73) INSERM (Institut National de la Santé et de la Recherche Médicale)
(33) European Patent Office (EPO)	SALIGRAMA, Naresha	Centre Hospitalier Universitaire de Bordeaux
(51) C12C 1/027	DAVIS, Mark M.	UNIVERSITE DE BORDEAUX
C12C 1/047	(31) 201862626603 P	(72) BONIFACE, Katia
C12C 1/125	(32) 05.02.2018	BERNARD, François-Xavier
C12C 1/18	(33) United States of America	SENECHAL, Julien
C12C 7/00		
C12C 7/01	(51) C12M 1/36	(51) C12N 5/10
C12C 7/04	(11) EP3867350	(11) EP3132025
A23L 2/38	(21) EP19790832.0	(21) EP15780038.4
(11) EP3732279	(47) 30.08.2023	(47) 30.08.2023
(21) EP18830274.9	(87) IB2019058739	(87) US2015025523
(47) 30.08.2023	23.04.2020	22.10.2015
(87) EP2018086650	(22) 14.10.2019	(22) 13.04.2015
04.07.2019	(54) A SYSTEM AND METHOD OF PERFORMING A BIOLOGICAL EXPERIMENT WITH ADAPTIVE CYBERNETIC CONTROL OF PROCEDURAL CONDITIONS	(54) METHODS AND COMPOSITIONS FOR MODIFYING GENOMIC DNA
(22) 21.12.2018	(73) Arctoris Limited	(73) Maxcyte, Inc.
(54) METHOD FOR PRODUCING AN EXTRACT OF CEREAL AND METHOD FOR PROCESSING THIS EXTRACT INTO BEVERAGE	(72) ROWORTH, Alice Poppy	(72) PESHWA, Madhusudan
(73) Carlsberg A/S	FLEMING, Thomas Adam	LI, Linhong
(72) WENDT, Toni	BITTNER, Martin-Immanuel	(31) 201462078706 P
SKADHAUGE, Birgitte	(31) 201816164090	201461979178 P
KNUDSEN, Søren	(32) 18.10.2018	(32) 12.11.2014
LOK, Finn	(33) United States of America	14.04.2014
KRUCIEWICZ, Katarzyna		(33) United States of America
OLSEN, Ole	(51) C12N 5/00	United States of America
MARRI, Lucia	(11) EP3717631	(51) C12N 5/10
(31) 17210958	(21) EP18811257.7	A61K 35/12
(32) 28.12.2017	(47) 30.08.2023	A61K 38/18
(33) European Patent Office (EPO)	(87) EP2018083010	A61K 38/46
(51) C12C 13/10	06.06.2019	A61K 48/00
B65D 51/28	(22) 29.11.2018	A61P 37/00
B65D 25/08	(54) CELL CULTURE METHODS	C07K 14/475
B65D 85/72	(73) UCB Biopharma SRL	C07K 14/51
(11) EP3486306	(72) KOCHANOWSKI, Nadine	C12N 15/18
(21) EP17831252.6	CHEVALLIER, Valentine	C12N 15/55
(47) 30.08.2023	MALPHETTES, Laetitia	C12N 15/85
(87) KR2017007196	COOL, Vincent Adolphe Carol	C12N 5/0775
25.01.2018	(31) 17204978	C12N 9/18
(22) 05.07.2017	(32) 01.12.2017	A61K 35/28
		C07K 14/515
		(11) EP3874029

(21) EP19878837.4	(73) Hansa Biopharma AB	SUZUKI, Kiyoshi
(47) 30.08.2023	(72) KJELLMAN, Christian	(31) 2013123435
(87) CA2019051526	JARNUM, Sofia	(32) 12.06.2013
07.05.2020	NORDAHL, Emma	(33) Japan
(22) 29.10.2019	(31) 201502305	(51) C12N 15/10
(54) GENETICALLY-ENGINEERED	(32) 12.02.2015	(11) EP3612630
MESENCHYMAL STEM CELLS	(33) United Kingdom	(21) EP18725682.1
OVEREXPRESSING AOA AND USES	(51) C12N 9/76	(47) 30.08.2023
THEREOF	C12R 1/19	(87) US2018028366
(73) United Therapeutics Corporation	A61K 38/48	25.10.2018
Ottawa Hospital Research Institute	(11) EP3221449	(22) 19.04.2018
(72) MEI, Shirley H.J.	(21) EP15862029.4	(54) SITE-SPECIFIC DNA MODIFICATION
CALLAHAN, Michael	(47) 30.08.2023	USING A DONOR DNA REPAIR
FLORIAN, Maria	(87) US2015060502	TEMPLATE HAVING TANDEM REPEAT
LEE, Chyan-jang	26.05.2016	SEQUENCES
ROWE, Katelynn	(22) 13.11.2015	(73) Global Life Sciences Solutions USA LLC
WANG, Yan	(54) PROCESS FOR REFOLDING	(72) SCHIEL, John Anthony
(31) 201862752000 P	RECOMBINANT CHYMOTRYPSIN	DUTHIE, Robert Scott
(32) 29.10.2018	(73) Merck Sharp & Dohme LLC	SPOONER, Patrick McCoy
(33) United States of America	(72) SLEEVI, Mark, C.	LOWERY, Lisa Anne
(51) C12N 5/10	GRIMISON, Bryn	SMITH, Anja Josifa
C12M 1/26	LILE, Jack	NELSON, John Richard
C12Q 1/68	(31) 201462081227 P	(31) 201715491125
(11) EP3045531	(32) 18.11.2014	(32) 19.04.2017
(21) EP14844430.0	(33) United States of America	(33) United States of America
(47) 30.08.2023	(51) C12N 15/09	(51) C12N 15/10
(87) JP2014073511	A61K 35/19	C07K 14/47
19.03.2015	C12N 5/10	C12N 15/63
(22) 05.09.2014	A61K 31/444	C12N 15/864
(54) METHOD FOR INDUCING	A61K 31/381	(11) EP3551754
DIFFERENTIATION OF INDUCED	A61P 7/04	(21) EP17822105.7
PLURIPOTENT STEM CELLS AND	(11) EP3453759	(47) 30.08.2023
METHOD FOR SELECTING INDUCED	(21) EP17744459.3	(87) US2017064870
PLURIPOTENT STEM CELLS	(47) 30.08.2023	14.06.2018
(73) Kaneka Corporation	(87) JP2017003191	(22) 06.12.2017
Satomura, Kazuhito	03.08.2017	(54) METHODS AND COMPOSITIONS FOR
(72) SATOMURA Kazuhito	(22) 30.01.2017	ENHANCING FUNCTIONAL MYELIN
(31) 2013189221	(54) PLATELET PRODUCTION PROMOTER	PRODUCTION
(32) 12.09.2013	AND METHOD OF PRODUCING	(73) Case Western Reserve University
(33) Japan	PLATELETS USING SAME	(72) TESAR, Paul
(51) C12N 9/10	(73) Megakaryon Corporation	ELITT, Matthew
(11) EP3532626	Kyoto University	(31) 201762542660 P
(21) EP17800622.7	(72) ITO, Yukitaka	201662431787 P
(47) 30.08.2023	ETO, Koji	(32) 08.08.2017
(87) JP2017038795	HAZAMA, Yasuko	08.12.2016
03.05.2018	SEO, Hideya	(33) United States of America
(22) 26.10.2017	OTA, Akira	United States of America
(54) METHOD FOR PRODUCING	(31) 2016016677	(51) C12N 15/10
OBJECTIVE SUBSTANCE	(32) 29.01.2016	C12P 19/34
(73) Ajinomoto Co., Inc.	(33) Japan	(11) EP4108769
(72) ROCHE, Christine	(51) C12N 15/09	(21) EP22190069.9
MIJTS, Benjamin	C12N 9/90	(47) 30.08.2023
SIDDIQUI, Michael	C12P 19/26	(22) 30.05.2016
MODI, Sheetal	C12P 19/64	(54) A METHOD FOR PRODUCING AND
(31) 201662417617 P	(11) EP3009509	PURIFYING RNA, COMPRISING AT
201662413061 P	(21) EP14811007.5	LEAST ONE STEP OF TANGENTIAL
(32) 04.11.2016	(47) 30.08.2023	FLOW FILTRATION
26.10.2016	(87) JP2014065533	(73) CureVac Manufacturing GmbH
(33) United States of America	18.12.2014	(72) BROGHAMMER, Norbert
United States of America	(22) 12.06.2014	DORNER, Stefanie
(51) C12N 9/24	(54) HEPAROSAN-GLUCURONIC ACID-5-	MUTZKE, Thorsten
(11) EP3256579	EPIMERASE, AND METHOD FOR	SEWING, Stefanie
(21) EP16704223.3	PRODUCING POLYSACCHARIDE	FUNKNER, Andreas
(47) 30.08.2023	USING SAME	KETTERER, Thomas
(87) EP2016053054	(73) Seikagaku Corporation	KAMM, Johannes
18.08.2016	(72) YAMAGISHI, Kiwamu	(31) PCT/EP2015/062002
(22) 12.02.2016	MOCHIZUKI, Hideo	(32) 29.05.2015
(54) CYSTEINE PROTEASE	KIM, Yeong Shik	(33) World Intellectual Property Office (WIPO)

- (51) C12N 15/10
C12R 1/07
A61K 35/742
C12N 15/75
- (11) EP3704243
(21) EP18800295.0
(47) 30.08.2023
(87) GB2018053178
09.05.2019
- (22) 01.11.2018
(54) MODIFIED BACTERIAL SPORES
(73) SporeGen Limited
(72) CUTTING, Simon
(31) 201718133
(32) 02.11.2017
(33) United Kingdom
-
- (51) C12N 15/113
A61K 31/7088
A61P 11/00
- (11) EP3591052
(21) EP19173375.7
(47) 30.08.2023
(22) 17.09.2013
(54) RESTORATION OF THE CFTR
FUNCTION BY SPLICING
MODULATION
(73) Yissum Research Development
Company of The Hebrew University of
Jerusalem Ltd.
(72) PRICE, Loren
WILTON, Stephen Donald
FLETCHER, Sue
KEREM, Batsheva
TUR SINAI, Michal
- (31) 201261704859 P
(32) 24.09.2012
(33) United States of America
-
- (51) C12N 15/82
A01N 25/00
A01N 27/00
- (11) EP3662069
(21) EP17784590.6
(47) 30.08.2023
(87) EP2017074877
04.04.2019
- (22) 29.09.2017
(54) NEW BIO-PESTICIDES FOR
CONTROLLING PLANT PESTS
(73) Kmetijski Institut Slovenije
Univerza V Ljubljani
(72) SEPCIC, Kristina
MACEK, Peter
BUTALA, Matej
PANEVSKA, Anastasija
RAZINGER, Jaka
GRUNDNER, Maja
SKOCAJ, Matej
TURK, Tom
MODIC, Spela
NOVAK, Marusa
HODNIK, Vesna
-
- (51) C12N 15/82
C07K 14/415
A01H 5/12
- (11) EP3739053
(21) EP20180722.9
(47) 30.08.2023
(22) 06.10.2015
- (54) GENETIC CONTROL OF AXILLARY
BUD GROWTH IN TOBACCO PLANTS
(73) Altria Client Services LLC
(72) XU, Dongmei
FREDERICK, Jesse
YANG, Jaemo
KUDITHIPUDI, Chengalrayan
SHEN, Yanxin
- (31) 201462060473 P
(32) 06.10.2014
(33) United States of America
-
- (51) C12Q 1/24
C12N 5/00
G01N 21/65
C12M 1/26
C12M 1/42
- (11) EP3615680
(21) EP18719074.9
(47) 30.08.2023
(87) EP2018058883
01.11.2018
- (22) 06.04.2018
(54) METHOD AND SYSTEM FOR
PREPARATION OF A TARGET
PROTEIN EXPRESSING CELL LINE
(73) Fraunhofer-Gesellschaft zur Förderung
der angewandten Forschung e.V.
(72) PIPPOW, Andreas
GREINER, Benjamin
NOTTRODT, Nadine
RIESTER, Dominik
BACH, Monika
SCHENKE-LAYLAND, Katja
BURGER-KENTISCHER, Anke
HOFER-SCHMITZ, Katharina
BRAUCHLE, Eva
WEHNER, Martin
NGUYEN, Phuong-Ha
GILLNER, Arnold
- (31) 102017207262
(32) 28.04.2017
(33) Germany
-
- (51) C12Q 1/26
G01N 33/72
- (11) EP3461908
(21) EP18198301.6
(47) 30.08.2023
(22) 02.10.2018
(54) MEASUREMENT OF GLYCOPROTEIN
(73) ARKRAY, Inc.
(72) KASAI, Takuo
YONEHARA, Satoshi
- (31) 2018185144
2017192867
(32) 28.09.2018
02.10.2017
(33) Japan
Japan
-
- (51) C12Q 1/68
(11) EP3507384
(21) EP17771623.0
(47) 30.08.2023
(87) US2017049747
08.03.2018
- (22) 31.08.2017
(54) METHODS AND COMPOSITION FOR
THE PREDICTION OF THE ACTIVITY
OF ENZASTAURIN
- (73) Denovo Biopharma LLC
(72) SUN, Hong
LUO, Wen
- (31) 201662414601 P
201662382734 P
(32) 28.10.2016
01.09.2016
(33) United States of America
United States of America
-
- (51) C12Q 1/68
(11) EP3978621
(21) EP21201053.2
(47) 30.08.2023
(22) 20.05.2013
(54) METHODS AND PROCESSES FOR
NON-INVASIVE ASSESSMENT OF
GENETIC VARIATIONS
(73) Sequenom, Inc.
(72) DECIU, Cosmin
KIM, Sung K.
(31) 201313782883
201313782857
201261740368 P
201261740377 P
201261649841 P
- (32) 01.03.2013
01.03.2013
20.12.2012
20.12.2012
21.05.2012
(33) United States of America
United States of America
United States of America
United States of America
United States of America
-
- (51) C12Q 1/68
B41M 3/14
B42D 25/405
G07D 7/14
C12Q 1/6818
- (11) EP3768852
(21) EP19771822.4
(47) 30.08.2023
(87) US2019023371
26.09.2019
- (22) 21.03.2019
(54) METHODS AND COMPOSITIONS FOR
MOLECULAR AUTHENTICATION
(73) President and Fellows of Harvard
College
(72) YIN, Peng
KIM, Youngeun
SCHAUS, Thomas, E.
KISHI, Jocelyn, Yoshiko
- (31) 201862739756 P
201862650119 P
201862650096 P
201862649431 P
201862646728 P
- (32) 01.10.2018
29.03.2018
29.03.2018
28.03.2018
22.03.2018
(33) United States of America
United States of America
United States of America
United States of America

United States of America	(31) 201562172580 P	(54) WORKFLOW FOR DETECTION OF
(51) C12Q 1/68	201562170600 P	LIGANDS USING NUCLEIC ACIDS
C12N 15/00	(32) 08.06.2015	(73) Life Technologies Corporation
C07H 21/04	03.06.2015	(72) LU, Julia
(11) EP3467125	(33) United States of America	SHANNON, Mark
(21) EP18208105.9	United States of America	CHEN, Shiaw-Min
(47) 30.08.2023	(51) C12Q 1/68	RUFF, David
(22) 14.03.2014	C12P 19/34	HENDRICKS, Stephen
(54) USING RNA-GUIDED FOKI	C12Q 1/6869	SWARTZMAN, Elana
NUCLEASES (RFNS) TO INCREASE	(11) EP3825412	(31) 201161433475 P
SPECIFICITY FOR RNA-GUIDED	(21) EP20211911.1	(32) 17.01.2011
GENOME EDITING	(47) 30.08.2023	(33) United States of America
(73) The General Hospital Corporation	(22) 23.06.2017	(51) C12Q 1/6804
(72) JOUNG, J. Keith	(54) NUCLEIC ACID SYNTHESIS AND	C12Q 1/6839
TSAI, Shengdar	SEQUENCING USING TETHERED	(11) EP3802859
(31) 201361921007 P	NUCLEOSIDE TRIPHOSPHATES	(21) EP19739430.7
201361838148 P	(73) The Regents of the University of	(47) 30.08.2023
201361838178 P	California	(87) US2019035888
201361799647 P	(72) ARLOW, Daniel	12.12.2019
(32) 26.12.2013	PALLUK, Sebastian	(22) 06.06.2019
21.06.2013	(31) 201662354635 P	(54) DETECTION ASSAY FOR PROTEIN-
21.06.2013	(32) 24.06.2016	POLYNUCLEOTIDE CONJUGATES
15.03.2013	(33) United States of America	(73) Amgen Inc.
(33) United States of America	(51) C12Q 1/68	(72) HUMPHREYS, Sara
United States of America	C40B 40/06	THAYER, Mai
United States of America	C12Q 1/6806	(31) 201862681931 P
United States of America	(11) EP3988665	(32) 07.06.2018
(51) C12Q 1/68	(21) EP19933969.8	(33) United States of America
C12N 15/00	(47) 30.08.2023	(51) C12Q 1/6851
C12N 15/113	(87) CN2019092116	C12Q 1/6804
C12N 15/90	24.12.2020	G01N 33/53
C12N 9/22	(22) 20.06.2019	G01N 33/68
A61K 48/00	(54) METHOD AND USE FOR	C12Q 1/6806
C12N 15/10	CONSTRUCTION OF SEQUENCING	(11) EP3759249
(11) EP3310932	LIBRARY BASED ON DNA SAMPLES	(21) EP19760658.5
(21) EP16812552.4	(73) MGI Tech Co., Ltd.	(47) 30.08.2023
(47) 30.08.2023	(72) JIANG, Hui	(87) US2019020283
(87) US2016038161	YANG, Juan	06.09.2019
22.12.2016	YANG, Xinshi	(22) 01.03.2019
(22) 17.06.2016	CHEN, Fang	(54) QUANTIFICATION OF NUCLEOSOME
(54) CRISPR/CAS9 COMPLEX FOR	WANG, Qiwei	MODIFICATIONS USING CHEMICALLY-
GENOMIC EDITING	YU, Yuan	DEFINED RECOMBINANT
(73) The UAB Research Foundation	YANG, Lin	NUCLEOSOMES
(72) DING, Lei	ZHANG, Yanyan	(73) Epicypher, Inc.
CHANG, Chia-Wei	(51) C12Q 1/68	(72) MARUNDE, Matthew R.
TOWNES, Tim	G01N 33/542	WHELIHAN, Matthew F.
(31) 201562266316 P	(11) EP4015647	KEOGH, Michael-Christopher
201562181138 P	(21) EP21192360.2	SUN, Zu-Wen
(32) 11.12.2015	(47) 30.08.2023	HALL, Nathan W.
17.06.2015	(22) 24.02.2017	JOHNSTONE, Andrea L.
(33) United States of America	(54) MULTIPLEXED SINGLE MOLECULE	COWLES, Martis William
United States of America	RNA VISUALIZATION WITH A TWO-	(31) 201862637066 P
(51) C12Q 1/68	PROBE PROXIMITY LIGATION	(32) 01.03.2018
C12N 15/11	SYSTEM	(33) United States of America
C12N 15/85	(73) The Board of Trustees of the Leland	(51) C12Q 1/6876
C12N 15/10	Stanford Junior University	A61K 39/00
(11) EP3303634	(72) SAMUSIK, Nikolay	A61K 47/14
(21) EP16804346.1	NOLAN, Garry	A61K 47/22
(47) 30.08.2023	GOLTSEV, Yury	A61K 47/26
(87) US2016035301	BAVA, Felice-Alessio	A61K 9/00
08.12.2016	(31) 201662300596 P	A61K 31/7088
(22) 01.06.2016	(32) 26.02.2016	A61K 39/39
(54) CAS9 VARIANTS AND METHODS OF	(33) United States of America	A61P 31/20
USE THEREOF	(51) C12Q 1/6804	A61P 35/00
(73) The Regents of the University of	(11) EP3567121	A61K 9/19
California	(21) EP19166484.6	(11) EP3704269
(72) STERNBERG, Samuel H.	(47) 30.08.2023	(21) EP18826793.4
DOUDNA, Jennifer A.	(22) 17.01.2012	(47) 30.08.2023

(87) IB2018058628 09.05.2019	(87) US2017049915 08.03.2018	(72) TSUTSUMI, Koichi MIWA, Yoshihiro SUMI, Ikuhiro
(22) 02.11.2018	(22) 01.09.2017	(31) 2019164846
(54) OLIGONUCLEOTIDE CONSTRUCTS AND USES THEREOF	(54) DETECTING HEPATOCELLULAR CARCINOMA	(32) 10.09.2019
(73) Janssen Pharmaceuticals, Inc.	(73) Exact Sciences Corporation	(33) Japan
(72) BEIGELMAN, Leonid GRYAZNOV, Sergei YUN, Theodore	(72) Mayo Foundation for Medical Education and Research	(51) C21C 5/52
(31) 201762580924 P	(72) AHLQUIST, David A.	C21C 5/00
(32) 02.11.2017	KISIEL, John B.	C21C 5/42
(33) United States of America	ALLAWI, Hatim T.	C21C 5/46
(51) C12Q 1/6883	TAYLOR, William R.	C21C 5/54
(11) EP3645745	YAB, Tracy C.	C22B 7/04
(21) EP18732123.7	MAHONEY, Douglas W.	C22B 34/32
(47) 30.08.2023	LIDGARD, Graham P.	(11) EP3960880
(87) EP2018067063	GIAKOUMOPOULOS, Maria	(21) EP20796188.9
03.01.2019	(31) 201662383165 P	(47) 30.08.2023
(22) 26.06.2018	(32) 02.09.2016	(87) JP2020014962
(54) NOVEL BIOMARKERS FOR DETECTING SENESCENT CELLS	(33) United States of America	29.10.2020
(73) Universität für Bodenkultur Wien	(51) C12Q 1/6886	(22) 31.03.2020
Buck Institute for Research on Aging	C12Q 1/70	(54) METHOD OF MANUFACTURING MOLTEN IRON CONTAINING CHROMIUM
(72) GRILLARI, Johannes	(11) EP3658684	(73) NIPPON STEEL CORPORATION
KALE, Abhijit	(21) EP18838558.7	(72) TANAKA, Yasuhiro
CAMPISI, Judith	(47) 30.08.2023	KANEKO, Naoki
HACKL, Matthias	(87) CN2018097072	NAKAGAWA, Junichi
(31) 17177840	31.01.2019	FUTAKA, Mikio
(32) 26.06.2017	(22) 25.07.2018	KATO, Katsuhiko
(33) European Patent Office (EPO)	(54) ENHANCEMENT OF CANCER SCREENING USING CELL-FREE VIRAL NUCLEIC ACIDS	ASAHARA, Norifumi
(51) C12Q 1/6886	(73) The Chinese University Of Hong Kong	(31) 2019081179
(11) EP3320116	(72) CHAN, Kwan Chee	(32) 22.04.2019
(21) EP16820952.6	JIANG, Peiyong	(33) Japan
(47) 30.08.2023	LAM, Wai Kei	(51) C21D 1/18
(87) IL2016050718	CHIU, Rossa Wai Kwun	C21D 1/60
12.01.2017	LO, Yuk-Ming Dennis	C21D 1/63
(22) 05.07.2016	(31) 201762537328 P	C21D 9/04
(54) METHODS FOR DIAGNOSING BLADDER CANCER	(32) 26.07.2017	C22C 38/02
(73) Nucleix Ltd.	(33) United States of America	C22C 38/04
(72) FRUMKIN, Danny	(51) C21B 7/10	C22C 38/18
WASSERSTROM, Adam	C21C 5/46	C22C 38/24
(31) 201514792270	F27B 1/24	C22C 38/26
(32) 06.07.2015	F27B 3/24	(11) EP3821040
(33) United States of America	F27D 1/12	(21) EP19752261.8
(51) C12Q 1/6886	F27D 9/00	(47) 30.08.2023
(11) EP3524690	(11) EP4043589	(87) IB2019055660
(21) EP17874597.2	(21) EP22157392.6	16.01.2020
(47) 30.08.2023	(47) 30.08.2023	(22) 03.07.2019
(87) KR2017013404	(22) 15.03.2018	(54) TRACK PART MADE OF A HYPEREUTECTOID STEEL
31.05.2018	(54) STAVE PROTECTION SYSTEM	(73) VOESTALPINE RAIL TECHNOLOGY GMBH
(22) 23.11.2017	(73) Primetals Technologies Limited	(72) GORIUPP, Jürgen
(54) METHOD FOR PREDICTING EFFECTIVENESS OF CHEMOTHERAPY IN BREAST CANCER PATIENTS	(72) Atkinson, James Osborne, David McDonald, Ian James	(72) KUSS, Mario
(73) Gencurix Inc.	(51) C21B 11/10	(31) 2012018
(72) HAN, Jin Il	C21C 5/52	(32) 10.07.2018
SHIN, Young Kee	C21C 5/56	(33) Austria
MOON, Young Ho	F27B 3/18	(51) C21D 6/00
CHO, Sang Rae	F27D 13/00	C21D 9/08
(31) 20160156824	(11) EP4029954	C21D 7/10
(32) 23.11.2016	(21) EP20862630.9	C21D 7/02
(33) Korea (Republic)	(47) 30.08.2023	C21D 8/02
(51) C12Q 1/6886	(87) JP2020024337	C22C 38/22
(11) EP3507298	18.03.2021	C21D 9/46
(21) EP17847642.0	(22) 22.06.2020	C22C 38/42
(47) 30.08.2023	(54) METHOD FOR PRODUCING MOLTEN IRON USING AN ELECTRIC FURNACE	C22C 38/38
	(73) JFE Steel Corporation	C22C 38/40
		C22C 38/44
		C22C 38/46

C22C 33/02	C01D 15/06	(54) ALUMINUM ALLOY MATERIAL, AND
C22C 38/48	(11) EP3802892	ELECTROCONDUCTIVE MEMBER,
C22C 38/50	(21) EP19812583.3	BATTERY MEMBER, FASTENING
C22C 38/58	(47) 30.08.2023	COMPONENT, SPRING COMPONENT
C22C 38/52	(87) AU2019050541	AND STRUCTURAL COMPONENT
C22C 38/54	05.12.2019	USING SAME
C22C 38/00	(22) 30.05.2019	(73) Furukawa Electric Co., Ltd.
(11) EP3899064	(54) PROCESS FOR RECOVERING	(72) ARAKI Akiyoshi
(21) EP19829564.4	LITHIUM PHOSPHATE AND LITHIUM	KANEKO Hiroshi
(47) 30.08.2023	SULFATE FROM LITHIUM-BEARING	SUSAI Kyoto
(87) EP2019086385	SILICATES	(31) 2016138841
25.06.2020	(73) Lithium Australia NL	(32) 13.07.2016
(22) 19.12.2019	AUSTRALIAN NUCLEAR SCIENCE &	(33) Japan
(54) SUPER AUSTENITIC MATERIAL	TECHNOLOGY ORGANISATION	(51) C22C 21/10
(73) voestalpine BÖHLER Edelstahl GmbH &	(72) GRIFFITH, Christopher	C22F 1/053
Co KG	NAPIER, Andrew	(11) EP3798327
Voestalpine Böhler Bleche GmbH Co KG	(31) 2018904919	(21) EP20195985.5
(72) FLUCH, Rainer	2018901929	(47) 30.08.2023
VICHYTIL, Clemens	(32) 21.12.2018	(22) 14.09.2020
KEPLINGER, Andreas	30.05.2018	(54) INTERIM TEMPER PROCESS
(31) 102018133255	(33) Australia	(73) The Boeing Company
(32) 20.12.2018	Australia	(72) CAMPBELL, Clinton J.
(33) Germany	(51) C22C 21/00	WEBER, Gary Robert
(51) C22B 3/14	(11) EP3827106	(31) 201916585079
C22B 7/00	(21) EP20789631.7	(32) 27.09.2019
C22B 7/04	(47) 30.08.2023	(33) United States of America
C22B 26/20	(87) EP2020079221	(51) C22C 38/00
C01F 11/18	22.04.2021	C22C 38/24
C21B 3/06	(22) 16.10.2020	C22C 38/26
(11) EP3891311	(54) A METHOD FOR MANUFACTURING	C22C 38/08
(21) EP19821264.9	AN ALUMINIUM TUBE AND AN	C22C 38/14
(47) 30.08.2023	ALUMINIUM TUBE	C22C 38/28
(87) FI2019050871	(73) TUBEX Tubenfabrik Wolfsberg GmbH	C22C 38/12
11.06.2020	Neuman Aluminium Austria GmbH	C22C 38/06
(22) 04.12.2019	(72) GLITZNER, Oliver	C22C 38/04
(54) METHOD OF EXTRACTING AND	BITOUT, Thierry	C22C 38/34
CARBONATING CALCIUM FROM	WIMMER, Alexander	C22C 38/02
ALKALINE INDUSTRIAL WASTE OR BY-	(31) 19203569	C22C 38/38
PRODUCT MATERIALS	(32) 16.10.2019	C21D 1/02
(73) Aalto University Foundation sr	(33) European Patent Office (EPO)	C21D 1/18
(72) ELONEVA, Sanni	(51) C22C 21/00	C21D 1/84
JÄRVINEN, Mika	B21B 27/02	C21D 8/02
(31) 20186047	B21B 27/06	C21D 6/00
(32) 04.12.2018	B21B 27/10	C21D 9/46
(33) Finland	C22F 1/04	(11) EP4039842
(51) C22B 3/24	(11) EP4010510	(21) EP20870604.4
C02F 1/00	(21) EP20743368.1	(47) 30.08.2023
C22B 7/00	(47) 30.08.2023	(87) JP2020033593
C12R 1/00	(87) IB2020056809	08.04.2021
(11) EP3775302	11.02.2021	(22) 04.09.2020
(21) EP19715905.6	(22) 20.07.2020	(54) HOT-ROLLED STEEL SHEET
(47) 30.08.2023	(54) COMPACT ALUMINIUM ALLOY HEAT	(73) NIPPON STEEL CORPORATION
(87) EP2019058383	TREATMENT METHOD	(72) SAKAKIBARA, Akifumi
10.10.2019	(73) Novelis Koblenz GmbH	HAYASHI, Koutarou
(22) 03.04.2019	(72) MEYER, Philippe	ANDO, Jun
(54) RECOVERY OF METALS FROM	(31) 19190299	TSUTSUI, Kazumasa
INDUSTRIAL WASTEWATER OF LOW	(32) 06.08.2019	SHUTO, Hiroshi
METAL CONCENTRATION	(33) European Patent Office (EPO)	ENDO, Shota
(73) Helmholtz-Zentrum Dresden -	(51) C22C 21/02	(31) 2019181314
Rosendorf e.V.	C22C 21/06	(32) 01.10.2019
(72) POLLMANN, Katrin	C22F 1/00	(33) Japan
JAIN, Rohan	C22F 1/05	(51) C22C 38/00
LEHMANN, Falk	(11) EP3486342	H01F 1/147
(31) 102018107923	(21) EP17827608.5	H01F 1/18
(32) 04.04.2018	(47) 30.08.2023	C22C 38/02
(33) Germany	(87) JP2017025211	C23C 22/00
(51) C22B 26/12	18.01.2018	C22C 38/04
C01B 25/30	(22) 11.07.2017	C22C 38/08

C22C 38/16	(11) EP3899063	B23P 15/00
C22C 38/32	(21) EP19829563.6	B21K 1/22
C22C 38/34	(47) 30.08.2023	C23C 4/134
C21D 6/00	(87) EP2019086384	C23C 4/129
C21D 8/12	25.06.2020	C23C 4/11
C21D 9/46	(22) 19.12.2019	C23C 4/02
(11) EP3913100	(54) SUPER AUSTENITIC MATERIAL	F01L 3/02
(21) EP20741725.4	(73) voestalpine BÖHLER Edelstahl GmbH & Co KG	F01L 3/12
(47) 30.08.2023	(72) FLUCH, Rainer	F01L 3/14
(87) JP2020001177	KEPLINGER, Andreas	(11) EP3704283
23.07.2020	(31) 102018133255	(21) EP18789115.5
(22) 16.01.2020	(32) 20.12.2018	(47) 30.08.2023
(54) GRAIN-ORIENTED ELECTRICAL STEEL SHEET	(33) Germany	(87) EP2018078338
(73) NIPPON STEEL CORPORATION	(51) C23C 2/06	09.05.2019
(72) NAGANO, Shohji	C23C 2/12	(22) 17.10.2018
OKUMURA, Shunsuke	C23C 2/40	(54) POPPET VALVE
TAKATANI, Shinsuke	C23C 28/02	(73) Eaton Intelligent Power Limited
ARITA, Yoshihiro	(11) EP3597787	(72) MANCUSO, Francesca
(31) 2019005084	(21) EP18768296.8	LIA, Luigi
(32) 16.01.2019	(47) 30.08.2023	AIMASSO, Alberto
(33) Japan	(87) JP2018010628	(31) 201721575
(51) C22C 38/42	20.09.2018	17199290
C22C 38/44	(22) 16.03.2018	(32) 21.12.2017
C22C 38/00	(54) COATED STEEL SHEET	30.10.2017
C22C 38/04	(73) Nippon Steel Corporation	(33) United Kingdom
C22C 38/58	(72) MITSUNOBU, Takuya	European Patent Office (EPO)
C21D 8/02	(31) 2017053148	(51) C23C 4/08
C21D 9/46	(32) 17.03.2017	C23C 4/18
C22C 38/02	(33) Japan	C23C 24/08
C22C 38/06	(51) C23C 2/12	H01R 4/02
(11) EP3561126	C22C 38/04	H01R 4/62
(21) EP17885245.5	C22C 38/02	H01R 43/02
(47) 30.08.2023	B32B 15/01	B23K 35/28
(87) KR2017015294	B23K 26/00	B23K 35/02
28.06.2018	B21D 22/02	B23K 35/30
(22) 21.12.2017	B23K 26/211	B23K 35/365
(54) STEEL MATERIAL HAVING EXCELLENT CORROSION RESISTANCE IN DEW CONDENSATION ENVIRONMENT CONTAINING SULFIDE AND METHOD FOR PRODUCING SAME	B23K 26/242	B32B 15/20
(73) POSCO Co., Ltd	B23K 26/26	B23K 20/10
(72) PARK, Jin-Ho	B23K 26/322	B23K 20/233
UM, Kyung-Keun	B23K 35/02	B23K 20/24
(31) 20160177202	C22C 21/00	H01R 43/28
(32) 22.12.2016	C22C 38/00	B23K 101/32
(33) Korea (Republic)	C22C 38/06	B23K 103/10
(51) C22C 38/46	C22C 38/06	B23K 103/12
C22C 38/44	B23K 26/082	B23K 103/18
C22C 38/42	B23K 101/00	B23K 101/38
C22C 38/40	B23K 101/18	(11) EP3304649
C22C 38/38	B23K 101/34	(21) EP16728668.1
C22C 38/22	B23K 103/04	(47) 30.08.2023
C21D 9/08	(11) EP3919648	(87) EP2016062899
C21D 9/46	(21) EP20210286.9	15.12.2016
C21D 8/02	(47) 30.08.2023	(22) 07.06.2016
C21D 7/10	(22) 27.11.2020	(54) METHOD FOR CONNECTING A CONDUCTOR COMPRISING A BASE METAL TO A TERMINAL ELEMENT COMPRISING COPPER BY MEANS OF WELDING
C21D 7/02	(54) ALUMINUM-COATED BLANK, MANUFACTURING METHOD THEREOF AND APPARATUS FOR MANUFACTURING ALUMINUM-COATED BLANK	(73) TE Connectivity Germany GmbH
C21D 6/00	(73) Hyundai Steel Company	(72) GREGOR, Christian
C22C 38/54	(72) LEE, Chang Yong	(31) 102015210458
C22C 38/52	KWON, Tae Woo	(32) 08.06.2015
C22C 38/50	KIM, Sung Ryul	(33) Germany
C22C 33/02	KIM, Jeong Seok	(51) C23C 14/00
C22C 38/48	(31) 20200066525	C23C 14/06
C22C 38/58	(32) 02.06.2020	C23C 14/35
C22C 38/00	(33) Korea (Republic)	C23C 28/04
	(51) C23C 4/01	F24S 80/00
	F01L 3/04	F24S 70/60

F24S 10/00	C23C 28/00	(54) PROVISION OF ELECTRICAL CONTINUITY AND/OR RADIAL SUPPORT
F24S 40/40	(11) EP3824111	(73) Baker Hughes Energy Technology UK Limited
F24S 70/30	(21) EP19837160.1	(72) WANG, Sui
(11) EP3673093	(47) 30.08.2023	CLEMENTS, Richard
(21) EP18742928.7	(87) IB2019056033	ROBERTS, Andrew
(47) 30.08.2023	23.01.2020	BALDWIN, Laurence
(87) EP2018062092	(22) 15.07.2019	(31) 201704214
14.11.2019	(54) CONFORMABLE COLOR SHIFTING LAMINATES	201704217
(22) 09.05.2018	(73) 3M Innovative Properties Company	(32) 16.03.2017
(54) SOLAR SELECTIVE COATING FOR MID-HIGH TEMPERATURE SOLAR THERMAL APPLICATIONS	(72) TAI, Huiwen	16.03.2017
(73) B-Plas Bursa Plastik, Metal, Insaat, Enerji, Madencilik, Jeotermal, Turizm, Sivil Havacilik Ve Tarim San. Ve Tic. A.S.	MAKI, Stephen P.	(33) United Kingdom
(72) GOKCEN, M. Celal	NORTH, Diane	United Kingdom
URGEN, Mustafa K.	OWINGS, Robert R.	(51) C25B 13/02
SECKIN, Eren	FRANKEL, Joan M.	C25B 13/08
KAZMANLI, M. Kursat	(31) 201862699337 P	C25B 1/04
OZBAY, Serdar S.	(32) 17.07.2018	C25B 1/044
(51) C23C 14/04	(33) United States of America	C25B 9/17
C23C 14/24	(51) C23C 16/34	C25B 9/73
C23C 14/12	C23C 16/455	(11) EP4107308
H10K 71/00	(11) EP3663301	(21) EP21712213.4
H10K 71/16	(21) EP20154718.9	(47) 30.08.2023
(11) EP3789515	(47) 30.08.2023	(87) IB2021051420
(21) EP20193789.3	(22) 29.03.2016	26.08.2021
(47) 30.08.2023	(54) BORON-CONTAINING COMPOUNDS, COMPOSITIONS, AND METHODS FOR THE DEPOSITION OF BORON CONTAINING FILMS	(22) 19.02.2021
(22) 01.09.2020	(73) Verum Materials US, LLC	(54) AN ELECTROLYTIC CELL
(54) DEPOSITION APPARATUS	(72) KIM, Moo-Sung	(73) Acca Industries Srl
(73) Samsung Display Co., Ltd.	LEI, Xinjian	(72) HUMMER, Andreas
(72) Park, Kookchol	(31) 201615079585	MASOTTI, Aldo
Noh, Sokwon	201562140570 P	(31) 202000003650
Oh, Suhyun	(32) 24.03.2016	(32) 21.02.2020
(31) 20190108846	31.03.2015	(33) Italy
(32) 03.09.2019	(33) United States of America	(51) C25D 5/02
(33) Korea (Republic)	United States of America	C25D 17/00
(51) C23C 14/06	(51) C23C 24/04	C25D 21/10
F01D 5/28	(11) EP2902530	C25D 1/00
F02C 7/00	(21) EP15153434.4	(11) EP3929332
F04D 29/02	(47) 30.08.2023	(21) EP20182378.8
F04D 29/32	(22) 02.02.2015	(47) 30.08.2023
(11) EP3199821	(54) Method for applying a coating to a substrate	(22) 25.06.2020
(21) EP15872872.5	(73) Pratt & Whitney Canada Corp.	(54) SHIELD BODY SYSTEM FOR A PROCESS FLUID FOR CHEMICAL AND/OR ELECTROLYTIC SURFACE TREATMENT OF A SUBSTRATE
(47) 30.08.2023	NATIONAL RESEARCH COUNCIL OF CANADA	(73) Semsysco GmbH
(87) JP2015085299	(72) Legoux, Jean-Gabriel	(72) ÖTZLINGER, Herbert
30.06.2016	Irissou, Eric	KOLITSCH-MATALN, Marianne
(22) 17.12.2015	Verrier, Pierre	GLEISSNER, Andreas
(54) COMPRESSOR BLADE FOR ENGINE	Belval, Frederic	OKORN-SCHMIDT, Harald
(73) IHI Corporation	(31) 201414169571	(51) C30B 29/04
Proterial, Ltd.	(32) 31.01.2014	C30B 25/00
(72) TANAKA, Yuta	(33) United States of America	C30B 25/10
KAKINUMA, Kazuhiko	(51) C23F 13/06	(11) EP2985368
BABA, Masanobu	C23F 13/10	(21) EP14783086.3
OTERA, Issei	C23F 13/18	(47) 30.08.2023
ARAKI, Takahito	F16L 11/127	(87) JP2014059713
MORISHITA, Kana	F16L 58/00	16.10.2014
KOSEKI, Shuho	F16L 11/08	(22) 02.04.2014
(31) 2014262590	F16L 11/16	(54) SINGLE CRYSTAL DIAMOND AND DIAMOND TOOL
(32) 25.12.2014	(11) EP3596257	(73) Sumitomo Electric Industries, Ltd.
(33) Japan	(21) EP18714060.3	Sumitomo Electric Hardmetal Corp.
(51) C23C 14/20	(47) 30.08.2023	(72) KOBAYASHI, Yutaka
C23C 14/16	(87) GB2018050700	NISHIBAYASHI, Yoshiki
C23C 14/12	20.09.2018	SEKI, Yuichiro
C23C 14/35	(22) 16.03.2018	TAKAHASHI, Toshiya
C23C 14/30		
C23C 14/00		
C23C 14/02		

UEDA, Akihiko SUMIYA, Hitoshi (31) 2013081157 (32) 09.04.2013 (33) Japan	(11) EP3428327 (21) EP17763394.8 (47) 30.08.2023 (87) JP2017009543 14.09.2017	(54) METHOD AND DEVICE FOR DETECTING AN OVERLOAD AT A BALE OPENER (73) Trützschler Group SE (72) HARTUNG, Reinhard BREUERS, Frank WACKERZAPP, Frank
(51) C30B 29/20 C30B 33/02 G02B 5/30 (11) EP3438332 (21) EP16896862.6 (47) 30.08.2023 (87) JP2016060458 05.10.2017	(22) 09.03.2017 (54) CELLULOSE ACETATE FIBERS, CELLULOSE ACETATE COMPOSITION, AND METHOD FOR PRODUCING SAME (73) National University Corporation Hokkaido University Nippon Paper Industries Co., Ltd. Daicel Corporation	(31) 102017109548 102016115097 (32) 04.05.2017 15.08.2016 (33) Germany Germany
(22) 30.03.2016 (54) OPTICAL COMPONENT COMPRISING ALUMINUM OXIDE (73) Nikon Corporation (72) MIZUGUCHI, Masafumi	(72) KONNO, Haruo URAKI, Yasumitsu SHIMAMOTO, Shu (31) 2017015300 2016048235 (32) 31.01.2017 11.03.2016 (33) Japan Japan	(51) D02G 1/02 D02G 3/32 (11) EP3870743 (21) EP19789742.4 (47) 30.08.2023 (87) IB2019057825 30.04.2020 (22) 17.09.2019 (54) COTTON-BASED ELASTICISED YARNS TO MAKE ENVIRONMENT-FRIENDLY ELASTICISED FABRICS (73) Candiani S.p.A. (72) BENELLI, Paolo (31) 201800009802 (32) 25.10.2018 (33) Italy
(51) C40B 30/04 (11) EP3180463 (21) EP15832244.6 (47) 30.08.2023 (87) US2015045221 18.02.2016	(51) D01F 6/60 D01F 8/12 D01F 1/10 A63B 51/02 D02G 3/44 (11) EP3997261 (21) EP20736738.4 (47) 30.08.2023 (87) EP2020069572 21.01.2021 (22) 10.07.2020 (54) MONOFILAMENT STRING FOR A RACKET (73) Speed France S.A.S. (72) DUVAL, Sébastien (31) 19186099 (32) 12.07.2019 (33) European Patent Office (EPO)	(51) D02G 3/36 D02G 3/32 (11) EP3870744 (21) EP19808636.5 (47) 30.08.2023 (87) IB2019057703 30.04.2020 (22) 12.09.2019 (54) A METHOD FOR MAKING AN ELASTICISED YARN AND FABRIC MANUFACTURED FROM SAID YARN (73) Candiani S.p.A. (72) CANDIANI, Alberto Primo (31) 201800009805 (32) 25.10.2018 (33) Italy
(22) 14.08.2015 (54) DETECTING RESIDUAL HOST CELL PROTEINS IN RECOMBINANT PROTEIN PREPARATIONS (73) Medimmune, LLC The Regents of the University of California (72) WALKER, Faye CSORDAS, Andrew STROUSE, Robert SOH, Hyongsok Tom MCGIVENEY IV, James B. (31) 201562154981 P 201462037864 P (32) 30.04.2015 15.08.2014 (33) United States of America United States of America	(51) D01F 9/22 (11) EP3397797 (21) EP16882761.6 (47) 30.08.2023 (87) US2016069537 06.07.2017 (22) 30.12.2016 (54) METHOD OF PRODUCING CARBON FIBERS FROM MULTIPURPOSE COMMERCIAL FIBERS (73) UT-Battelle, LLC (72) NASKAR, Amit K. JACKSON, Connie D. (31) 201662305232 P 201562273559 P (32) 08.03.2016 31.12.2015 (33) United States of America United States of America	(51) D02G 3/32 D02G 3/32 (11) EP3870744 (21) EP19808636.5 (47) 30.08.2023 (87) IB2019057703 30.04.2020 (22) 12.09.2019 (54) A METHOD FOR MAKING AN ELASTICISED YARN AND FABRIC MANUFACTURED FROM SAID YARN (73) Candiani S.p.A. (72) CANDIANI, Alberto Primo (31) 201800009805 (32) 25.10.2018 (33) Italy
(51) D01D 5/06 C08F 220/44 D01F 6/38 D01F 13/04 D01D 1/02 D01F 9/22 (11) EP4098784 (21) EP22176049.9 (47) 30.08.2023 (22) 30.05.2022 (54) SINGLE-STEP PROCESS FOR THE PRODUCTION OF A CARBON FIBER PRECURSOR (73) Montefibre Mae Technologies S.R.L. (72) VIDIGAL, Ana Paula FRANCALANCI, Franco (31) 202100014159 (32) 31.05.2021 (33) Italy	(51) D01F 9/22 (11) EP3397797 (21) EP16882761.6 (47) 30.08.2023 (87) US2016069537 06.07.2017 (22) 30.12.2016 (54) METHOD OF PRODUCING CARBON FIBERS FROM MULTIPURPOSE COMMERCIAL FIBERS (73) UT-Battelle, LLC (72) NASKAR, Amit K. JACKSON, Connie D. (31) 201662305232 P 201562273559 P (32) 08.03.2016 31.12.2015 (33) United States of America United States of America	(51) D03C 1/14 D03C 3/32 D03C 5/00 D03C 19/00 (11) EP3987091 (21) EP20733983.9 (47) 30.08.2023 (87) EP2020067107 24.12.2020 (22) 19.06.2020 (54) TEXTILE MACHINE, WEAVING LOOM HAVING SUCH A TEXTILE MACHINE, AND ASSOCIATED METHODS (73) Staubli Faverges (72) AUBERT, Pierre PRZYTARSKI, Patrice VANDROUX, Philippe POLLET, François (31) 1906582 (32) 19.06.2019 (33) France
(51) D01F 2/28 C08L 1/12 B82Y 30/00 D06M 13/188 C08B 3/06 C08H 8/00 C08J 5/04	(51) D01G 7/14 (11) EP3497269 (21) EP17737585.4 (47) 30.08.2023 (87) EP2017067376 22.02.2018 (22) 11.07.2017	(51) D04B 1/12 (11) EP3947798

(21) EP20721850.4	(73) SHIMA SEIKI MFG., LTD.	(51) D06F 37/02
(47) 30.08.2023	(72) SAKAI, Yoshiyuki	(11) EP3945152
(87) US2020023074	YASUDA, Kazuki	(21) EP21186213.1
08.10.2020	MINAMI, Masayuki	(47) 30.08.2023
(22) 17.03.2020	(31) 2018244062	(22) 16.07.2021
(54) KNIT COMPONENTS WITH DIFFERING	(32) 27.12.2018	(54) LAUNDRY DRUM INSULATION
VISUAL EFFECTS AND A METHOD OF	(33) Japan	(73) Whirlpool Corporation
MAKING SAME	(51) D04H 1/4374	(72) Borgerson, Matthew E.
(73) NIKE Innovate C.V.	D04H 1/542	(31) 202016941692
(72) ROSE, Payton	D04H 1/593	(32) 29.07.2020
PAN, Yung Huang	D04H 1/60	(33) United States of America
CHUNG-CHUN, Yang	D04H 1/4258	(51) D06F 37/10
ZACK, Joseph	B32B 5/02	D06F 37/28
(31) 202016816574	B32B 5/26	D06F 39/14
201962829977 P	D01D 5/098	D06F 58/04
(32) 12.03.2020	(11) EP3913125	D06F 58/20
05.04.2019	(21) EP19910058.7	(11) EP3850142
(33) United States of America	(47) 30.08.2023	(21) EP19883679.3
United States of America	(87) CN2019087396	(47) 30.08.2023
(51) D04B 15/56	23.07.2020	(87) KR2019015448
D04B 27/02	(22) 17.05.2019	22.05.2020
D04B 27/24	(54) WEAR-RESISTANT WIPE AND	(22) 13.11.2019
D04B 39/04	MANUFACTURING METHOD	(54) CLOTHES HANDLING APPARATUS
(11) EP4019682	THEREFOR	(73) Samsung Electronics Co., Ltd.
(21) EP20216845.6	(73) Xiamen Yanjan New Material Co., Ltd	(72) KIM, Joon Ho
(47) 30.08.2023	(72) XIE, Jihua	KANG, Hyun Su
(22) 23.12.2020	HE, Shunxin	LEE, Ki Su
(54) KNITTING MACHINE WITH AT LEAST	WU, Danpin	PARK, Jae Won
ONE YARN GUIDE	ZHENG, Qingzhong	(31) 20180139308
(73) KARL MAYER STOLL R&D GmbH	(31) 201910036152	(32) 13.11.2018
(72) Mohr, Jürgen	(32) 15.01.2019	(33) Korea (Republic)
Schröder, Patrick	(33) China	(51) D06F 37/20
(51) D04B 21/00	(51) D05B 1/08	D06F 37/24
D04B 21/12	D05B 15/00	(11) EP2459791
(11) EP3831995	B60R 13/02	(21) EP10804742.4
(21) EP19845375.5	D05B 57/02	(47) 30.08.2023
(47) 30.08.2023	(11) EP3255193	(87) KR2010005004
(87) JP2019029549	(21) EP17183276.9	03.02.2011
06.02.2020	(47) 30.08.2023	(22) 29.07.2010
(22) 26.07.2019	(22) 06.10.2015	(54) A FABRIC TREATING MACHINE
(54) ROLLED WRAPPING NET	(54) AN APPARATUS FOR STITCHING	(73) LG Electronics Inc.
PRODUCTION METHOD	A THREE DIMENTIONAL FORMED	(72) KIM, Young Jong
(73) Okamoto Lace Co., Ltd.	COMPONENT	LEE, Hyuk Soo
(72) OKAMOTO Tadashi	(73) Inteva Products, LLC	(31) 20090071065
OKAMOTO Kenichi	(72) HABHAB, Ramez M.	20090071064
(31) 2019097559	WENZEL, Edward	(32) 31.07.2009
2018142972	(31) 201462060487 P	31.07.2009
(32) 24.05.2019	(32) 06.10.2014	(33) Korea (Republic)
30.07.2018	(33) United States of America	Korea (Republic)
(33) Japan	(51) D06F 34/18	(51) D06F 37/22
Japan	D06F 103/02	D06F 37/04
(51) D04B 23/10	D06F 105/58	D06F 37/06
D02H 13/38	D06F 105/60	(11) EP3358064
(11) EP3715512	(11) EP3951043	(21) EP16852126.8
(21) EP20187037.5	(21) EP21188634.6	(47) 30.08.2023
(47) 30.08.2023	(47) 30.08.2023	(87) KR2016011032
(22) 21.07.2020	(22) 29.07.2021	06.04.2017
(54) WARP BEAM ASSEMBLY	(54) COLOR SENSOR FOR WASHING	(22) 01.10.2016
(73) KARL MAYER STOLL R&D GmbH	MACHINES	(54) LAUNDRY HANDLING APPARATUS
(72) Keller, Alexander	(73) Whirlpool Corporation	(73) LG Electronics Inc.
(51) D04B 37/02	(72) Chiorino, Carlo	(72) CHO, Mingyu
G06F 30/20	Sorana, Luca	KIM, Sungmin
G06F 113/12	(31) 202117363362	KIM, Seungjoon
(11) EP3677713	202063062797 P	PARK, Seungchul
(21) EP19218868.8	(32) 30.06.2021	(31) 20150138652
(47) 30.08.2023	07.08.2020	(32) 01.10.2015
(22) 20.12.2019	(33) United States of America	(33) Korea (Republic)
(54) KNITTED FABRIC DESIGN SYSTEM	United States of America	(51) D06F 39/02

(11) EP3722481	TO MODIFY THE POSITION OF A	(31) 1909520
(21) EP18886524.0	HANDLE IN SAID DOOR ASSEMBLY	(32) 29.08.2019
(47) 30.08.2023	(73) Electrolux Appliances Aktiebolag	(33) France
(87) CN2018119394	(72) BRACONI, Dario	(51) D07B 3/00
13.06.2019	BUSO, Danny	D07B 7/02
(22) 05.12.2018	PRADAL, Luca	D07B 1/06
(54) LAUNDRY TREATMENT AGENT	SANTAROSSA, Marco	(11) EP4004275
STORAGE AND DISPENSING DEVICE	(51) D06F 58/10	(21) EP20757632.3
AND WASHING MACHINE	D06F 58/20	(47) 30.08.2023
(73) Qingdao Haier Drum Washing Machine	(11) EP3943656	(87) FR2020051334
Co., Ltd.	(21) EP19921859.5	28.01.2021
Haier Smart Home Co., Ltd.	(47) 30.08.2023	(22) 22.07.2020
(72) XING, Yujing	(87) CN2019096576	(54) HIGHLY COMPRESSIBLE OPEN
XU, Sheng	01.10.2020	REINFORCING CORD
ZHAO, Zhiqiang	(22) 18.07.2019	(73) COMPAGNIE GENERALE DES
SONG, Huacheng	(54) LAUNDRY TREATMENT DEVICE	ETABLISSEMENTS MICHELIN
LV, Peishi	(73) Wuxi Little Swan Electric Co., Ltd.	(72) REIX, Olivier
(31) 201711288444	(72) WANG, Guilian	BARGUET, Henri
201711287291	REN, Guangqi	PATAUT, Gaël
(32) 07.12.2017	ZHU, Lei	(31) 1908425
07.12.2017	ZHOU, Chunhao	(32) 25.07.2019
(33) China	(31) 201910238660	(33) France
China	201920406286 U	(51) D21C 5/00
(51) D06F 39/08	(32) 27.03.2019	D21C 9/00
D06F 37/30	27.03.2019	(11) EP3488045
D06F 33/42	(33) China	(21) EP17749146.1
D06F 105/08	China	(47) 30.08.2023
D06F 103/48	(51) D06F 58/38	(87) EP2017068436
D06F 105/48	D06F 103/00	01.02.2018
(11) EP3819420	D06F 103/08	(22) 21.07.2017
(21) EP19831171.4	D06F 103/38	(54) METHOD FOR LIGNIN
(47) 30.08.2023	D06F 105/28	DEPOLYMERISATION
(87) KR2019008294	D06F 103/32	(73) MetGen Oy
09.01.2020	D06F 103/34	(72) SUONPÄÄ, Anu Minna Maaret
(22) 05.07.2019	D06F 103/44	BIRIKH, Klara
(54) LAUNDRY HANDLING APPARATUS	D06F 103/52	(31) 16181065
(73) LG Electronics Inc.	D06F 103/54	(32) 25.07.2016
(72) KIM, Jieon	D06F 105/30	(33) European Patent Office (EPO)
KIM, Sungwan	D06F 105/32	(51) D21D 99/00
JUNG, Jongseok	D06F 58/02	D21G 9/00
(31) 20180079043	D06F 58/26	(11) EP3684972
(32) 06.07.2018	D06F 34/26	(21) EP18826453.5
(33) Korea (Republic)	(11) EP3608469	(47) 30.08.2023
(51) D06F 39/14	(21) EP19186484.2	(87) US2018051477
D06F 37/42	(47) 30.08.2023	21.03.2019
D06F 39/12	(22) 16.07.2019	(22) 18.09.2018
(11) EP3533919	(54) LAUNDRY DRYER AND METHOD FOR	(54) METHOD FOR CONTROLLING A FIBER
(21) EP19166584.3	DRYING LAUNDRY WITH A LAUNDRY	FRACTIONATION SYSTEM
(47) 30.08.2023	DRYER	(73) International Paper Company
(22) 17.02.2016	(73) E.G.O. Elektro-Gerätebau GmbH	(72) JAAKKOLA, Jyrki, Tapio
(54) WASHING MACHINE	(72) Schmidt, Kay	HEIKKINEN, Antti
(73) Samsung Electronics Co., Ltd.	Grill, Rebecca	(31) 201762559861 P
(72) Kim, Dong Young	Bellm, Mathias	(32) 18.09.2017
Wishney, Adam	Schaumann, Uwe	(33) United States of America
Lee, In Ju	(31) 102018213108	(51) D21H 17/44
Ryu, Doo Young	(32) 06.08.2018	C08F 8/28
(31) 20150026854	(33) Germany	C08L 33/26
(32) 25.02.2015	(51) D06F 75/10	D21H 17/45
(33) Korea (Republic)	D06F 75/12	D21H 17/56
(51) D06F 39/14	D06F 75/14	D21H 21/18
D06F 58/04	(11) EP3786345	D21H 21/20
D06F 37/42	(21) EP20191969.3	D21H 23/04
(11) EP3323928	(47) 30.08.2023	(11) EP3562997
(21) EP16199838.0	(22) 20.08.2020	(21) EP17742789.5
(47) 30.08.2023	(54) IRON COMPRISING A REMOVABLE	(47) 30.08.2023
(22) 21.11.2016	SCALE COLLECTION CONTAINER	(87) FI2017050506
(54) A DOOR ASSEMBLY FOR A LAUNDRY	(73) SEB S.A.	05.07.2018
TREATING MACHINE AND A METHOD	(72) GELUS, Dominique	(22) 05.07.2017

(54) GLYOXYLATED POLYACRYLAMIDE POLYMER COMPOSITION, ITS USE AND METHOD FOR INCREASING THE STRENGTH PROPERTIES OF PAPER, BOARD OR THE LIKE	(72) KUO, CHIEN-KUAN HUANG, CHUN-HUANG (31) 201910744226 (32) 13.08.2019 (33) China	(73) ZAMAGNI, Gianluca (72) ZAMAGNI, Gianluca (31) 201700144623 (32) 14.12.2017 (33) Italy
(73) Kemira Oyj (72) HIETANIEMI, Matti HALINEN, Martina KARPPI, Asko VIRTANEN, Mikko TIMPERI, Salla GRIGORIEV, Vladimir (31) PCT/FI2016/050927 (32) 28.12.2016 (33) World Intellectual Property Office (WIPO)	(51) E01B 11/32 E01B 25/28 (11) EP3933106 (21) EP20290052.8 (47) 30.08.2023 (22) 02.07.2020 (54) RAIL EXPANSION DEVICE AND METHOD (73) Siemens Mobility S.A.S. (72) Nitaq, Khalil Ripoll Batle, Francesc Roux, Raphael	(51) E01C 19/23 E01C 23/12 E02D 3/026 (11) EP3951057 (21) EP21183322.3 (47) 30.08.2023 (22) 02.07.2021 (54) SOIL PROCESSING ROLLER SYSTEM FOR SOIL PROCESSING MACHINE (73) Hamm AG (72) Meier, Matthias (31) 102020120381 (32) 03.08.2020 (33) Germany
(51) D21H 23/56 B05C 1/08 B05D 1/28 D21H 27/30 (11) EP3967809 (21) EP21169477.3 (47) 30.08.2023 (22) 20.04.2021 (54) LIQUID APPLYING APPARATUS FOR FIBER PRODUCTS (73) Chan Li Machinery Co., Ltd. (72) TSAI, Tung-I (31) 109131292 (32) 11.09.2020 (33) Taiwan, Chinese Taipei	(51) E01B 27/04 E02F 3/08 E02F 3/10 E02F 3/14 E02F 9/28 E21C 25/28 E21C 25/34 (11) EP4045714 (21) EP20788828.0 (47) 30.08.2023 (87) EP2020078943 22.04.2021 (22) 14.10.2020 (54) LINK FOR AN EXCAVATING CHAIN, AND ASSOCIATED EXCAVATING CHAIN (73) Matisa Matériel Industriel S.A. (72) SVITOK, Vladimir MARTINET, Franck (31) 1911422 (32) 14.10.2019 (33) France	(51) E01C 19/23 E01C 23/12 E02D 3/026 (11) EP3951058 (21) EP21183324.9 (47) 30.08.2023 (22) 02.07.2021 (54) SOIL PROCESSING ROLLER FOR SOIL PROCESSING MACHINE (73) Hamm AG (72) Meier, Matthias (31) 102020120376 (32) 03.08.2020 (33) Germany
(51) D21H 27/00 A47K 10/16 B31F 1/07 B31F 5/04 D04H 1/593 D21H 27/30 D21H 27/32 D21H 27/40 (11) EP3408447 (21) EP16706142.3 (47) 30.08.2023 (87) EP2016051716 03.08.2017 (22) 27.01.2016 (54) MULTI-PLY FIBROUS PRODUCT COMPRISING A LAMINATING ADHESIVE WITH A DERMATOLOGICALLY ACCEPTABLE ACID (73) Essity Hygiene and Health Aktiebolag (72) ENGGASSER, Yves SMITH, Clive HAGBERG, Daniel ROESCH, Frédéric BOHN, Alain SAAS, Pascale PLEYBER, Emilie	(51) E01C 5/20 E01C 9/00 E01F 9/553 (11) EP3889353 (21) EP21166676.3 (47) 30.08.2023 (22) 01.04.2021 (54) INTERLOCKING CELLULAR POROUS PAVING GRIDS (73) Berry Global, Inc. (72) MCCARTHY, Andrew Mark HERNANDEZ, Emma STEVENS, Peter WORMALD, Paul Stuart (31) 202063003377 P (32) 01.04.2020 (33) United States of America	(51) E01C 19/48 (11) EP3892777 (21) EP20168635.9 (47) 30.08.2023 (22) 08.04.2020 (54) ROAD FINISHER AND METHOD WITH TRANSVERSE PROFILE CONTROL (73) Joseph Vögele AG (72) BUSCHMANN, Martin WEISER, Ralf
(51) D21J 3/00 A24F 47/00 (11) EP3779043 (21) EP19217741.8 (47) 30.08.2023 (22) 18.12.2019 (54) ELECTRONIC CIGARETTE CARTRIDGE TUBE AND METHOD FOR PREPARING THE SAME (73) Golden Arrow Printing Technology (Kunshan) Co., Ltd.	(51) E01C 9/00 E01F 13/02 E01B 26/00 E04G 21/32 (11) EP3724398 (21) EP18849484.3 (47) 30.08.2023 (87) IB2018060093 20.06.2019 (22) 14.12.2018 (54) PROTECTED FUNCTIONAL PAVEMENT	(51) E01C 23/12 (73) Sumitomo (S.H.I.) Construction Machinery Co., Ltd. (72) SAKAKIBARA, Akira BABA, Nobuyuki (31) 2018146898 (32) 03.08.2018 (33) Japan (51) E01C 23/12

E01C 19/26	E21B 41/00	(11) EP3872267
(11) EP3985173	(11) EP4116498	(21) EP21159160.7
(21) EP21213004.1	(21) EP21183751.3	(47) 30.08.2023
(47) 30.08.2023	(47) 30.08.2023	(22) 25.02.2021
(22) 11.12.2018	(22) 05.07.2021	(54) DIGGING MACHINE WITH A FRAME
(54) SOIL WORKING ROLLER	(54) CONSTRUCTION MACHINE	EQUIPPED WITH GUIDING WINGS
(73) Hamm AG	AND METHOD FOR PAINTING A	(73) Soletanche Freyssinet
(72) Meier, Matthias	CONSTRUCTION MACHINE	(72) KIRBY, Scott
(31) 102017129932	(73) BAUER Maschinen GmbH	(31) 2001824
(32) 14.12.2017	(72) Sähn, Matthias	(32) 25.02.2020
(33) Germany	Lindermair, Bernhard	(33) France
(51) E01D 15/14	(51) E02D 29/063	(51) E02F 3/36
F16B 2/14	E02D 29/067	(11) EP3653796
F16B 5/00	E02D 29/07	(21) EP19200805.0
(11) EP3919683	(11) EP3882399	(47) 30.08.2023
(21) EP20177827.1	(21) EP21152316.2	(22) 01.10.2019
(47) 30.08.2023	(47) 30.08.2023	(54) QUICK CHANGER AND QUICK
(22) 02.06.2020	(22) 19.01.2021	CHANGE SYSTEM COMPRISING
(54) CONNECTING DEVICE	(54) INCREMENTAL LAUNCHING PROCESS	SUCH A QUICK CHANGER
(73) General Dynamics European Land	FOR A SUBMERGED CABLE-STAYED	(73) OilQuick Deutschland KG
Systems-Bridge Systems GmbH	FLOATING TUNNEL	(72) SCHMID, Sebastian
(72) RUST, Christian	(73) CCCC Third Harbor Engineering Co.,	(31) 102018128479
(51) E01F 15/00	Ltd.	(32) 14.11.2018
E01F 15/04	China Communications Construction	(33) Germany
(11) EP4073320	Company Limited	(51) E02F 3/40
(21) EP20825222.1	(72) Sun, Xu	E02F 9/28
(47) 30.08.2023	Sun, Hongchun	E21C 35/183
(87) GB2020053139	Xu, Lixin	A01B 23/02
17.06.2021	Zou, Xing	A01B 35/22
(22) 08.12.2020	Mo, Yasi	(11) EP4013915
(54) STRAPPING APPARATUS	Zhao, Hui	(21) EP20751037.1
(73) THREE SMITH GROUP LIMITED	Luo, Hao	(47) 30.08.2023
(72) SCHOLFIELD, Dale	Zheng, Rongping	(87) US2020042701
(31) 201918407	(31) 202010063396	25.02.2021
(32) 13.12.2019	(32) 20.01.2020	(22) 20.07.2020
(33) United Kingdom	(33) China	(54) RETAINER SLEEVE DESIGN WITH
(51) E01H 5/06	(51) E02D 29/067	ANTI-ROTATION FEATURES FOR A
E01H 10/00	E02D 29/063	GROUND ENGAGING TOOL
(11) EP4029995	E02D 29/07	(73) Caterpillar Inc.
(21) EP22152322.8	(11) EP3865627	(72) SINN, Eric T.
(47) 30.08.2023	(21) EP21152291.7	WELLS, Corey Michael
(22) 19.01.2022	(47) 30.08.2023	JURA, Jason Grant
(54) METHOD AND SNOWPLOW BLADE	(22) 19.01.2021	SERRURIER, Douglas C.
FOR REMOVING SNOW FROM A	(54) SUBMERGED CABLE-STAYED	(31) 201962887745 P
ROAD SURFACE	FLOATING TUNNEL STRUCTURE	(32) 16.08.2019
(73) Giletta S.p.A.	(73) China Communications Construction	(33) United States of America
(72) GILETTA, Enzo	Company Limited	(51) E02F 3/92
(31) 202100000857	CCCC Third Harbor Engineering Co.,	E02F 3/88
(32) 19.01.2021	Ltd.	E02F 7/04
(33) Italy	(72) Qiu, Song	(11) EP3642421
(51) E02B 3/10	Sun, Xu	(21) EP18740330.8
E02B 3/12	Du, Yu	(47) 30.08.2023
(11) EP3896226	Sun, Hongchun	(87) NL2018050398
(21) EP21168154.9	Zhao, Hui	27.12.2018
(47) 30.08.2023	Mo, Yasi	(22) 21.06.2018
(22) 13.04.2021	Shi, Beiling	(54) TRAILING SUCTION HOPPER
(54) GEOTEXTILE SAND CONTAINER WITH	Xu, Lixin	DREDGER HAVING A RECYCLE
QUICK-RELEASE FASTENER	(31) 202010063382	SYSTEM FOR EFFLUENT AND
(73) Naue GmbH & Co. KG	(32) 20.01.2020	METHOD FOR SUCTION DREDGING
(72) Pries, Janne Kristin	(33) China	(73) Baggermaatschappij Boskalis B.V.
Tazl, Martin	(51) E02F 3/20	(72) BIESHEUVEL, Mark
(31) 102020110307	E02D 17/13	NEELISSEN, Roeland Frederik
(32) 15.04.2020	E02F 3/47	Johannes
(33) Germany	E02F 3/92	(31) 2019109
(51) E02D 7/16	B66C 3/02	(32) 22.06.2017
E02D 11/00	B66C 3/16	(33) Netherlands
E02D 13/00	E02F 3/22	(51) E02F 9/00
	E02F 3/58	B60K 15/063

E02F 9/16	(33) United States of America	(11) EP3885499
F01N 3/08	(51) E02F 9/20	(21) EP21164311.9
F01N 3/20	E02F 9/24	(47) 30.08.2023
E02F 9/08	(11) EP4012111	(22) 23.03.2021
E02F 3/32	(21) EP20849866.7	(54) CONNECTION BOX UNIT BUILT IN TO
B60K 13/04	(47) 30.08.2023	A WALL WITH FUNCTIONAL AREA
(11) EP3056613	(87) JP2020030525	BODY
(21) EP14851726.1	11.02.2021	(73) Hansgrohe SE
(47) 30.08.2023	(22) 07.08.2020	(72) Lehmann, Günther
(87) JP2014076825	(54) EXCAVATOR	Schorer, Jürgen
16.04.2015	(73) Sumitomo Construction Machinery Co.,	(31) 102020203794
(22) 07.10.2014	Ltd.	(32) 24.03.2020
(54) SHOVEL	(72) MISAKI, Youji	(33) Germany
(73) Sumitomo (S.H.I.) Construction	(31) 2019146179	(51) E03C 1/04
Machinery Co., Ltd.	(32) 08.08.2019	(11) EP3872271
(72) YAMAMOTO, Akihiro	(33) Japan	(21) EP21160001.0
TSUDA, Kazuya	(51) E02F 9/26	(47) 30.08.2023
(31) 2013211167	(11) EP4010534	(22) 01.03.2021
(32) 08.10.2013	(21) EP20751028.0	(54) WATER OUTLET FITTING WITH
(33) Japan	(47) 30.08.2023	EXTENSIBLE DISH RINSER
(51) E02F 9/16	(87) US2020042494	(73) Kludi GmbH & Co. KG
E02F 9/08	18.02.2021	(72) Sommer, Frank
E02F 3/34	(22) 17.07.2020	Gebhart, Paul
B60N 2/14	(54) METHODS AND SYSTEMS FOR	(31) 102020122954
B62D 53/02	DETERMINING PART WEAR USING A	102020105247
B60N 2/24	BOUNDING MODEL	(32) 02.09.2020
B62D 21/18	(73) Caterpillar Inc.	27.02.2020
(11) EP3556946	(72) HARTOONIAN, Graham R.	(33) Germany
(21) EP18168580.1	CAMPOMANES, Patrick S.	Germany
(47) 30.08.2023	MCCAFFREY, Brandon H.	(51) E03C 1/04
(22) 20.04.2018	(31) 201916537269	E03C 1/044
(54) WORK VEHICLE WITH IMPROVED	(32) 09.08.2019	(11) EP3822420
STABILITY	(33) United States of America	(21) EP20201963.4
(73) Wacker Neuson Linz GmbH	(51) E02F 9/28	(47) 30.08.2023
(72) ERLINGER, Josef	(11) EP3676456	(22) 15.10.2020
(51) E02F 9/20	(21) EP18752944.1	(54) TAP WITH MIXER AND CONNECTION
(11) EP2984244	(47) 30.08.2023	SYSTEM, FOR USE AS A HIGH-
(21) EP14717221.7	(87) US2018043596	PRESSURE OR LOW-PRESSURE
(47) 30.08.2023	07.03.2019	FAUCET
(87) NL2014050189	(22) 25.07.2018	(73) Al Mstreh, Rafat
16.10.2014	(54) HEAVY DUTY ADAPTER	(72) Al Mstreh, Rafat
(22) 27.03.2014	(73) Caterpillar Inc.	(31) 202019106298 U
(54) MOBILE APPARATUS WITH	(72) SERRURIER, Douglas C.	(32) 12.11.2019
OPERATING SYSTEM	WORTH, David	(33) Germany
(73) Herr Pluto AG	BALAN, Mihai M.	(51) E03C 1/08
(72) HUISSOON, Leendert Wilhelmus	(31) 201715690423	F16L 15/00
Cornelis	(32) 30.08.2017	(11) EP3513007
(31) 1040157	(33) United States of America	(21) EP17787327.0
(32) 12.04.2013	(51) E02F 9/28	(47) 30.08.2023
(33) Netherlands	B29C 64/386	(87) EP2017001063
(51) E02F 9/20	(11) EP3334865	22.03.2018
A01B 76/00	(21) EP16751718.4	(22) 07.09.2017
E02F 9/22	(47) 30.08.2023	(54) SANITARY OUTLET DEVICE
E02F 9/26	(87) US2016044259	(73) Neoperl GmbH
B60K 11/04	16.02.2017	(72) BIRMELIN, David
(11) EP3998384	(22) 27.07.2016	(31) 202016005646 U
(21) EP21216071.7	(54) RETENTION LOBE FOR GROUND	(32) 15.09.2016
(47) 30.08.2023	ENGAGING TIP	(33) Germany
(22) 25.02.2021	(73) Caterpillar Inc.	(51) E03C 1/122
(54) SELF-PROPELLED WORK VEHICLE	(72) SERRURIER, Douglas C.	E04C 1/39
AND METHOD IMPLEMENTING	BALAN, Mihai M.	F16L 41/08
PERCEPTION INPUTS FOR COOLING	(31) 201514824749	(11) EP3770348
FAN CONTROL OPERATIONS	(32) 12.08.2015	(21) EP20187051.6
(73) Deere & Company	(33) United States of America	(47) 30.08.2023
(72) CONRAD, Craig	(51) E03C 1/02	(22) 21.07.2020
KENNEDY, Thomas	H02G 3/12	(54) MOUNTING BLOCK
(31) 202016841191	H02G 3/18	(73) Jürgen Höflers Profibox GmbH
(32) 06.04.2020		(72) Höfler, Jürgen

(31) 506622019	(51) E04B 7/16	(72) Schneider, Thomas
(32) 23.07.2019	E06B 7/092	Schulze, Jens
(33) Austria	E06B 7/096	(31) 102018111745
(51) E03F 3/04	(11) EP3854956	(32) 16.05.2018
E03F 5/04	(21) EP20382037.8	(33) Germany
(11) EP3916166	(47) 30.08.2023	(51) E04F 13/08
(21) EP21175396.7	(22) 23.01.2020	E04F 13/14
(47) 30.08.2023	(54) FOLDABLE STRUCTURE FOR BEING	(11) EP4033048
(22) 21.05.2021	USED AS SUNSHADE, SHUTTER OR	(21) EP21156749.0
(54) DRAINAGE SYSTEM WITH A GUTTER	FENCE	(47) 30.08.2023
AND A GRATE	(73) Marín Rodríguez, Francisco Javier	(22) 12.02.2021
(73) Weidemann GmbH	(72) Marín Rodríguez, Francisco Javier	(54) METHOD OF MANUFACTURE OF
(72) Andresen, Carsten	(51) E04B 9/06	THE FACADE THERMAL INSULATION
(31) 102020113909	E04B 9/14	FINISHING ELEMENT
(32) 25.05.2020	E04B 9/10	(73) UAB "Koderus"
(33) Germany	(11) EP3870769	(72) RACEVSKIJ, Edvard
(51) E03F 5/04	(21) EP19877176.8	(31) 2021503
(11) EP3688239	(47) 30.08.2023	(32) 22.01.2021
(21) EP18795712.1	(87) US2019056969	(33) Lithuania
(47) 30.08.2023	30.04.2020	(51) E04F 13/08
(87) GB2018052770	(22) 18.10.2019	F21V 33/00
04.04.2019	(54) CEILING BEAM GRID	E04D 1/30
(22) 28.09.2018	(73) Price Industries Limited	F21Y 103/10
(54) PLUMBING TRAP	(72) HEBERT, Marc Louis	F21Y 115/10
(73) McAlpine & Co Ltd.	DUCHARME, Dan	(11) EP3910130
(72) MCKENDRICK, Christopher	BISTRONG, Sylvia	(21) EP21173385.2
MCALPINE, James Edward	HIEBERT, Jordan	(47) 30.08.2023
MCALPINE, Robert Gemmell	RIMMER, Julian	(22) 11.05.2021
(31) 201715837	FOM, Alexandra	(54) CLADDING ELEMENT FOR A FAÇADE
(32) 29.09.2017	CARDERO, Gustavo	OR ROOF LINING AND FAÇADE
(33) United Kingdom	BAHUMANYAM, Srivani	OR ROOF LINING WITH SEVERAL
(51) E04B 1/344	(31) 201862749732 P	CLADDING ELEMENTS
E04H 15/48	(32) 24.10.2018	(73) Dachkeramik Meyer-Holsen GmbH
E04H 15/50	(33) United States of America	(72) Bethke, Phillip
E04H 12/18	(51) E04C 3/293	(31) 102020112974
(11) EP3596278	E04C 3/10	(32) 13.05.2020
(21) EP18711919.3	E04C 3/04	(33) Germany
(47) 30.08.2023	(11) EP3622127	(51) E04F 15/02
(87) EP2018056609	(21) EP17777100.3	(11) EP4077833
20.09.2018	(47) 30.08.2023	(21) EP20800891.2
(22) 15.03.2018	(87) TR2017050255	(47) 30.08.2023
(54) A FOLDABLE SCISSOR MODULE FOR	15.11.2018	(87) EP2020080778
DOUBLY CURVED SCISSOR GRIDS	(22) 07.06.2017	24.06.2021
(73) Vrije Universiteit Brussel	(54) A STEEL BEAM REINFORCING	(22) 03.11.2020
(72) ROOVERS, Kelvin	METHOD	(54) SUBSTRUCTURE FOR FLOORING
DE TEMMERMAN, Niels	(73) Onesteel Yapi Teknolojileri Ltd. Sti.	(73) NOVO-TECH GMBH & CO. KG
(31) 17180268	(72) SAYDAR, İrfan	(72) SASSE, Holger
17161353	(31) 201706984	(31) 102019135419
(32) 07.07.2017	(32) 11.05.2017	(32) 20.12.2019
16.03.2017	(33) Türkiye	(33) Germany
(33) European Patent Office (EPO)	(51) E04C 5/07	(51) E04F 15/02
European Patent Office (EPO)	E04C 5/03	E04F 15/10
(51) E04B 1/348	(11) EP3599320	(11) EP4105408
E04B 1/16	(21) EP18186149.3	(21) EP22182592.0
(11) EP3956526	(47) 30.08.2023	(47) 30.08.2023
(21) EP19816855.1	(22) 27.07.2018	(22) 30.09.2019
(47) 30.08.2023	(54) REINFORCING BAR AND METHOD	(54) PANEL, IN PARTICULAR A FLOOR
(87) GB2019053378	FOR ITS PRODUCTION	PANEL OR WALL PANEL
22.10.2020	(73) Solidian GmbH	(73) I4F LICENSING NV
(22) 29.11.2019	(72) Hinzen, Marcus, Dr.	(72) BOUCKÉ, Eddy Alberic
(54) MODULAR STRUCTURE AND	(51) E04D 13/17	(31) 2021884
CONNECTION METHOD	(11) EP3569789	(32) 26.10.2018
(73) Peter Dann Limited	(21) EP19401017.9	(33) Netherlands
(72) CHAPMAN, Peter	(47) 30.08.2023	(51) E04F 21/00
(31) 201905434	(22) 14.05.2019	E04F 21/18
(32) 17.04.2019	(54) VENTILATION STRIP FOR A ROOF	E04F 21/22
(33) United Kingdom	RIDGE OR BURRS	(11) EP3907350
	(73) BOSIG Baukunststoffe GmbH	

(21) EP21172357.2	B25J 9/00	(72) Dietrich, Stefanie
(47) 30.08.2023	(11) EP3556967	Raudies, Thomas
(22) 05.05.2021	(21) EP19167225.2	Häberle, Wilfried
(54) ASSEMBLY FOR SETTING THE POSITION OF BOARDS ON THE FACE OF A WALL AND SYSTEM FOR INSTALLING BOARDS ON THE FACE OF A WALL	(47) 30.08.2023	Eppelt, Gisbert
(73) Selena Industrial Technologies Sp. z o.o.	(22) 04.04.2019	(31) 102018118230
(72) Zemanek, Piotr	(54) LARGE MANIPULATOR, ESPECIALLY FOR CONCRETE PUMPS	(32) 27.07.2018
Krzyzaniak, Michal	(73) Liebherr-Mischtechnik GmbH	(33) Germany
Bandakova, Joanna	(72) WANNER, Julian	(51) E04H 4/14
Kula, Konrad	(21) EP20203839.4	E04H 4/12
Placzkiewicz, Krzysztof	(31) 102018109088	B05B 1/04
Klimentowska, Katarzyna	(32) 17.04.2018	B05B 15/652
Didyk-Mucha, Agnieszka	(33) Germany	B05B 9/04
Jarzab, Artur	(51) E04G 21/12	(11) EP3751076
(31) 43389420	B21F 7/00	(21) EP20173417.5
(32) 06.05.2020	B21F 15/04	(47) 30.08.2023
(33) Poland	B25B 25/00	(22) 07.05.2020
(51) E04G 9/02	B65B 13/28	(54) WATER SPRAYING DEVICE AND POOL
E04G 11/36	(11) EP3789565	(73) Bestway Inflatables & Material Corp.
E04G 11/38	(21) EP20203839.4	(72) HUANG, Shuiyong
E04G 11/48	(47) 30.08.2023	CHEN, Xinwei
(11) EP3482020	(22) 21.07.2016	(31) 201920739440 U
(21) EP17735508.8	(54) BINDING MACHINE	(32) 22.05.2019
(47) 30.08.2023	(73) Max Co., Ltd.	(33) China
(87) EP2017066710	(72) Kasahara, Akira	(51) E04H 6/06
11.01.2018	Nagaoka, Takahiro	B66F 7/02
(22) 05.07.2017	(31) 2016136070	(11) EP3752694
(54) COMPENSATING ELEMENT	2016135748	(21) EP19714318.3
(73) PERI SE	2015145263	(47) 30.08.2023
(72) BELMANN, Eugen	(32) 08.07.2016	(87) EP2019053446
SCHNEIDER, Werner	08.07.2016	15.08.2019
(31) 102016212282	22.07.2015	(22) 12.02.2019
(32) 06.07.2016	(33) Japan	(54) CAR PARKING DEVICE
(33) Germany	Japan	(73) Klaus Multiparking GmbH
(51) E04G 15/06	Japan	(72) ZOBEL, Fabian
(11) EP3253935	(51) E04G 23/00	FAESSLER, Norbert
(21) EP16702363.9	(11) EP3642429	(31) 202018106415 U
(47) 30.08.2023	(21) EP18739710.4	202018102976 U
(87) EP2016051479	(47) 30.08.2023	202018100746 U
11.08.2016	(87) US2018038505	(32) 12.11.2018
(22) 26.01.2016	27.12.2018	28.05.2018
(54) REENTRANT DEVICE	(22) 20.06.2018	12.02.2018
(73) Bertrand, Eric	(54) FLOOR STRIPPING MACHINE, BLADE ASSEMBLY FOR USE THEREWITH, AND METHODS	(33) Germany
(72) Bertrand, Eric	(73) Anderson Innovations, LLC	Germany
(31) 1500220	(72) ANDERSON, Quinn M.	Germany
(32) 05.02.2015	ANDERSON, Joseph M.	(51) E04H 12/18
(33) France	ANDERSON, Martin L.	B60Q 1/26
(51) E04G 17/14	(31) 201715629092	(11) EP3724426
E04G 9/08	(32) 21.06.2017	(21) EP18887264.2
E04G 19/00	(33) United States of America	(47) 30.08.2023
E04G 11/06	(51) E04G 25/06	(87) DK2018050357
E04G 9/02	E04G 11/36	20.06.2019
(11) EP3985207	E04G 11/48	(22) 13.12.2018
(21) EP21201883.2	E04G 11/38	(54) TELESCOPIC MAST
(47) 30.08.2023	E04G 11/50	(73) Falck-Schmidt ApS
(22) 11.10.2021	E04G 25/00	(72) Falck-Schmidt, Jan
(54) FORMWORK SYSTEMS AND RELATED METHODS	E04G 9/02	(31) PA201770947
(73) Premform Limited	(11) EP3599323	(32) 15.12.2017
(72) FERREIRA, Manuel	(21) EP19186500.5	(33) Denmark
(31) 202063091684 P	(47) 30.08.2023	(51) E04H 12/22
(32) 14.10.2020	(22) 16.07.2019	E02D 5/60
(33) United States of America	(54) BEARING HEAD COMPRISING A CLAMPING DEVICE AND CORRESPONDING CEILING FORMWORK SYSTEM	E02D 5/64
(51) E04G 21/04	(73) PERI SE	(11) EP3857004
B66C 13/06		(21) EP19833001.1
		(47) 30.08.2023
		(87) NL2019050644
		02.04.2020
		(22) 25.09.2019

(54) METHOD FOR REPAIRING A WOODEN POLE PRESENT IN WATER	E05C 3/26 E05C 19/02	(33) Korea (Republic)
(73) Protekta B.V.	E05B 63/00	(51) E05D 11/10
(72) BISSELING, Jacobus Petrus Johannes	E05B 9/08	(11) EP4008869
(31) 2021718	E05B 17/00	(21) EP21211790.7
(32) 26.09.2018	(11) EP3995652	(47) 30.08.2023
(33) Netherlands	(21) EP21214861.3	(22) 01.12.2021
(51) E04H 15/08	(47) 30.08.2023	(54) STOPPING DEVICE FOR A HINGE OF A VEHICLE
(11) EP3797199	(22) 09.07.2020	(73) Defta
(21) EP19716478.3	(54) CLOSURE	(72) POYER, Bertrand
(47) 30.08.2023	(73) MACO Technologie GmbH	(31) 2012549
(87) GB2019050712	(72) Hölzl, Josef	(32) 02.12.2020
28.11.2019	(31) 102019118550	(33) France
(22) 13.03.2019	(32) 09.07.2019	(51) E05F 1/10
(54) SEALING ARRANGEMENT FOR SHELTERS	(33) Germany	(11) EP3449076
(73) AMG Group Limited	(51) E05B 63/06	(21) EP17708152.8
(72) KERR, Lisa May	E05C 19/14	(47) 30.08.2023
MORE, James	B64D 29/06	(87) AT2017060045
(31) 201808499	(11) EP4019720	02.11.2017
(32) 23.05.2018	(21) EP21211334.4	(22) 24.02.2017
(33) United Kingdom	(47) 30.08.2023	(54) FURNITURE DRIVE
(51) E05B 9/04	(22) 30.11.2021	(73) Julius Blum GmbH
E05B 47/00	(54) ENCAPSULATED BEARING BLOCK DESIGN FOR ADJUSTABLE HOOK LATCH	(72) KOHLWEISS, Franz
(11) EP4092228	(73) Rohr, Inc.	FLOGAUS, Alexander Simon
(21) EP21183554.1	(72) LIPSON, David Louis	(31) 503802016
(47) 30.08.2023	McMAHAN, Paul F.	(32) 28.04.2016
(22) 02.07.2021	AGUILAR, Jose Roberto	(33) Austria
(54) ELECTRONIC LOCK CYLINDER WITH SEALED ACTUATOR	SALAZAR, Jamie	(51) E05F 1/10
(73) SimonsVoss Technologies GmbH	(31) 202017132489	(11) EP4033061
(72) MEYERLE, Herbert	(32) 23.12.2020	(21) EP22162777.1
(31) 21174446	(33) United States of America	(47) 30.08.2023
(32) 18.05.2021	(51) E05B 83/06	(22) 19.02.2015
(33) European Patent Office (EPO)	E05F 15/646	(54) ACTUATOR FOR FURNITURE FLAP
(51) E05B 15/02	E05F 15/652	(73) Julius Blum GmbH
E05B 47/00	E05F 15/655	(72) NUSSBICHLER, Harald
E05B 15/04	E05F 15/662	HUBER, Edgar
(11) EP4116525	E05D 15/10	(31) 1832014
(21) EP21382601.9	(11) EP4067610	(32) 14.03.2014
(47) 30.08.2023	(21) EP22153174.2	(33) Austria
(22) 05.07.2021	(47) 30.08.2023	(51) E05F 5/02
(54) ELECTRIC DOOR OPENER	(22) 25.01.2022	E05F 7/04
(73) Openers & Closers, S.L.	(54) DOOR OPENING-CLOSING DEVICE	(11) EP3786406
(72) Andreu Pallerola, Bernat	(73) Nabtesco Corporation	(21) EP20184427.1
Andreu Pallerola, Roger	(72) Sakaki, Genta	(47) 30.08.2023
(51) E05B 47/06	(31) 2021062965	(22) 07.07.2020
E05B 47/00	(32) 01.04.2021	(54) BUFFER WITH SELF-ADJUSTING STOP
E05B 17/22	(33) Japan	(73) A. Raymond et Cie
E05C 3/26	(51) E05D 3/02	(72) SICOT, Mikael
E05C 19/02	E05D 5/04	(31) 1909494
E05B 63/00	E05D 11/00	(32) 29.08.2019
E05B 9/08	E06B 3/36	(33) France
E05B 17/00	E06B 7/36	(51) E05F 15/611
(11) EP3995651	(11) EP3879053	E05F 15/622
(21) EP21214851.4	(21) EP20189506.7	E05B 1/00
(47) 30.08.2023	(47) 30.08.2023	(11) EP3990737
(22) 09.07.2020	(22) 05.08.2020	(21) EP20719344.2
(54) CLOSURE	(54) DOOR WITH FINGER PINCH PREVENTION FUNCTION	(47) 30.08.2023
(73) MACO Technologie GmbH	(73) WOODSAIR Inc.	(87) EP2020059260
(72) Hölzl, Josef	(72) Kim, Ji Won	30.12.2020
(31) 102019118550	Kim, Hee Suk	(22) 01.04.2020
(32) 09.07.2019	An, Gang Suk	(54) DRIVE
(33) Germany	Kim, Dae Il	(73) GEZE GmbH
(51) E05B 47/06	Kim, Seo Yeon	(72) BRAUN, Verena
E05B 47/00	(31) 20200029121	BUDARICK, Marko
E05B 17/22	(32) 09.03.2020	(31) 102019209377
		(32) 27.06.2019

(33) Germany	(54) MULLION AND TRANSOM	(33) Germany
(51) E06B 1/70	STRUCTURE AND METHOD OF	(51) E06C 1/56
E06B 3/968	ASSEMBLING A CASSETTE WITH A	B63B 27/14
E06B 3/964	WINDABLE CURTAIN ON A MULLION	(11) EP4116538
E06B 3/16	AND TRANSOM STRUCTURE	(21) EP21400015.0
E06B 3/263	(73) SCHÜCO International KG	(47) 30.08.2023
(11) EP4055241	(72) MELENBERG, Viktor	(22) 07.07.2021
(21) EP20797527.7	BASTIAN, Maxi Millian	(54) A ROPE LADDER WITH TWO BRAIDED
(47) 30.08.2023	DOPPEMEIER, Andreas	ROPES
(87) EP2020080824	STOCKHAUSEN, André	(73) AIRBUS HELICOPTERS
14.05.2021	(31) 102020114826	DEUTSCHLAND GmbH
(22) 03.11.2020	102020114828	(72) Heider, Christoph
(54) THRESHOLD DEVICE, JOINERY WORK	102020100537	Salzburger, Stefan
COMPRISING SAID THRESHOLD	(32) 04.06.2020	Dinca, Alexandru
DEVICE AND METHOD FOR USING	04.06.2020	Vogel, Dominik
SAID THRESHOLD DEVICE	13.01.2020	(51) E21B 10/42
(73) HYDRO EXTRUDED SOLUTIONS AS	(33) Germany	E21B 10/43
(72) PASTOR, Quentin	Germany	E21B 10/54
CLAUZET, Robert	Germany	E21B 10/62
LOTRONG, Khounlu	(51) E06B 9/322	E21B 10/567
(31) 1912329	E06B 9/308	(11) EP3167146
(32) 04.11.2019	E06B 9/323	(21) EP15818384.8
(33) France	(11) EP3880930	(47) 30.08.2023
(51) E06B 3/273	(21) EP19801378.1	(87) US2015039766
E06B 3/263	(47) 30.08.2023	14.01.2016
(11) EP3048231	(87) EP2019081464	(22) 09.07.2015
(21) EP15152183.8	22.05.2020	(54) CUTTING ELEMENTS COMPRISING
(47) 30.08.2023	(22) 15.11.2019	PARTIALLY LEACHED
(22) 22.01.2015	(54) ELECTROMECHANICAL ACTUATOR	POLYCRYSTALLINE MATERIAL,
(54) Metal profile, composite profile with a	AND SHADING DEVICE COMPRISING	TOOLS COMPRISING SUCH CUTTING
such a metal profile and method for	SUCH AN ACTUATOR	ELEMENTS, AND METHODS OF
producing the metal profile	(73) SOMFY ACTIVITES SA	FORMING WELLBORES USING SUCH
(73) RP Technik GmbH Profilsysteme	(72) MEASSON, Ghislain	CUTTING ELEMENTS
(72) Schulz, Harald	MUGNIER, Mickaël	(73) Baker Hughes Holdings LLC
Schmitte, Bernd	THUMEREL, Stéphane	(72) STOCKEY, David A.
Hatzl, Eduard	PELLE, Vincent	FLORES, Alejandro
(51) E06B 3/36	(31) 1860615	DIGIOVANNI, Anthony A.
E06B 3/22	(32) 16.11.2018	(31) 201414329380
E06B 3/32	(33) France	(32) 11.07.2014
E06B 3/08	(51) E06B 9/52	(33) United States of America
(11) EP3438395	B63B 19/00	(51) E21B 17/08
(21) EP18185179.1	(11) EP4030033	E21B 17/042
(47) 30.08.2023	(21) EP21216557.5	E21B 17/046
(22) 24.07.2018	(47) 30.08.2023	E21B 17/043
(54) WINDOW FRAME SYSTEM	(22) 21.12.2021	(11) EP3870798
(73) Drutex S.a.	(54) INSECT SCREEN FOR BOATS	(21) EP19813172.4
(72) GIERSZEWSKI, Leszek	(73) Avanzolini, Vincenzo	(47) 30.08.2023
(31) 506342017	(72) Avanzolini, Vincenzo	(87) IS2019050013
(32) 31.07.2017	(31) 202100000821	30.04.2020
(33) Austria	(32) 18.01.2021	(22) 23.10.2019
(51) E06B 3/66	(33) Italy	(54) CONNECTORS FOR HIGH
E06B 5/18	(51) E06B 11/02	TEMPERATURE GEOTHERMAL WELLS
(11) EP3767062	E06B 11/04	(73) Íslenskar Orkurannsóknir - Ísor
(21) EP19186384.4	E05D 15/06	(72) THORBJORNSSON, Ingolfur
(47) 30.08.2023	E05D 15/10	(31) 50242
(22) 15.07.2019	(11) EP3988758	(32) 24.10.2018
(54) MULTI-PANE GLAZING UNIT	(21) EP21204183.4	(33) Iceland
(73) Swisscom AG	(47) 30.08.2023	(51) E21B 17/10
(72) Schumacher, Adrian	(22) 22.10.2021	(11) EP3732345
(51) E06B 9/11	(54) GATE FOR INSTALLATION IN THE	(21) EP18837121.5
E06B 9/40	BOUNDARY OF A SPORTS OR PLAY	(47) 30.08.2023
E06B 9/58	AREA	(87) US2018067953
(11) EP3848551	(73) Futura Solution GmbH	04.07.2019
(21) EP21151277.7	Hau GmbH & Co. KG	(22) 28.12.2018
(47) 30.08.2023	(72) Annawitt, Gerhard	(54) SUCKER ROD GUIDES
(22) 13.01.2021	Hau, Tobias	(73) Materion Corporation
	(31) 102020006516	(72) GRENSING, Fritz, C.
	(32) 23.10.2020	GEDEON, Michael, J.

<p>NIELSEN, William, D. NIELSEN, Diane, M. DAMSCHRODER, Christopher, W. (31) 201762611250 P (32) 28.12.2017 (33) United States of America (51) E21B 19/16 E21B 17/042 (11) EP4008878 (21) EP21209130.0 (47) 30.08.2023 (22) 01.02.2018 (54) APPARATUS AND METHOD OF CONNECTING TUBULARS (73) Weatherford Technology Holdings, LLC (72) HEBEBRAND, Christina, Karin RUEHMANN, Rainer (31) 201715455515 201762454382 P (32) 10.03.2017 03.02.2017 (33) United States of America United States of America (51) E21B 29/00 E21B 33/134 (11) EP3592939 (21) EP18768136.6 (47) 30.08.2023 (87) US2018021965 20.09.2018 (22) 12.03.2018 (54) HELICAL COIL ANNULAR ACCESS PLUG AND ABANDONMENT (73) ConocoPhillips Company (72) SHAFER, Randall, S. (31) 201762470234 P (32) 11.03.2017 (33) United States of America (51) E21B 33/035 E21B 33/064 E21B 33/08 E21B 33/122 E21B 34/04 E21B 43/10 (11) EP3874119 (21) EP19880231.6 (47) 30.08.2023 (87) US2019051245 07.05.2020 (22) 16.09.2019 (54) STATIC ANNULAR SEALING SYSTEMS AND INTEGRATED MANAGED PRESSURE DRILLING RISER JOINTS FOR HARSH ENVIRONMENTS (73) Grant Prideco, Inc. (72) JOHNSON, Austin FRACZEK, Justin (31) 201862754915 P (32) 02.11.2018 (33) United States of America (51) E21B 33/035 E21B 43/01 (11) EP3334895 (21) EP16744786.1 (47) 30.08.2023 (87) EP2016068145 16.02.2017 (22) 29.07.2016</p>	<p>(54) SUBSEA SAFETY NODE (73) Baker Hughes Energy Technology UK Limited (72) DALZIEL, Robert KENT, Ian (31) 201514080 (32) 10.08.2015 (33) United Kingdom (51) E21B 33/04 E21B 33/12 E21B 23/06 (11) EP3857019 (21) EP19794195.8 (47) 30.08.2023 (87) GB2019052731 02.04.2020 (22) 27.09.2019 (54) IMPROVED SEAL FOR A WELL (73) Plexus Holdings, PLC. (72) HARRALD, Brent VAN BILDERBEEK, Bernard Herman HENDRIE, Craig Francis Bryce (31) 201815929 (32) 28.09.2018 (33) United Kingdom (51) E21B 33/06 E21B 34/16 (11) EP3864254 (21) EP19876028.2 (47) 30.08.2023 (87) US2019057278 30.04.2020 (22) 21.10.2019 (54) PRESSURE CONTROL DEVICE WITH SAFETY LOCKING MECHANISM (73) Kinetic Pressure Control, Ltd. (72) GALLAGHER, Billy GALLAGHER, Bobby ANGSTMANN, Steven Anthony (31) 201862751230 P (32) 26.10.2018 (33) United States of America (51) E21B 33/129 (11) EP4074940 (21) EP22178108.1 (47) 30.08.2023 (22) 10.07.2020 (54) DOWNHOLE ANCHOR WITH STRENGTHENED SLIPS FOR WELL TOOL (73) Weatherford Technology Holdings, LLC (72) SCRUGGS, Justin R. (31) 201916509643 (32) 12.07.2019 (33) United States of America (51) E21B 33/13 C09K 8/46 C04B 103/00 C04B 28/26 C09K 8/42 (11) EP4048857 (21) EP20804134.3 (47) 30.08.2023 (87) US2020056999 29.04.2021 (22) 23.10.2020 (54) METHOD FOR PLUGGING AND ABANDONING OIL AND GAS WELLS</p>	<p>(73) PQ LLC Board of Regents, The University of Texas System (72) VAN OORT, Eric MCDONALD, Michael (31) 201962925287 P (32) 24.10.2019 (33) United States of America (51) E21B 43/12 E21B 34/10 (11) EP3827157 (21) EP19745390.5 (47) 30.08.2023 (87) US2019040180 30.01.2020 (22) 01.07.2019 (54) GAS LIFT VALVE HAVING SHEAR OPEN MECHANISM FOR PRESSURE TESTING (73) Weatherford Technology Holdings, LLC (72) LONG, Stephen RACCA, Lance SALIHBEGOVIC, Zlatko STERNAMAN, Brian (31) 201816046758 (32) 26.07.2018 (33) United States of America (51) E21B 43/17 E21B 43/26 G06F 9/455 (11) EP3371416 (21) EP15907920.1 (47) 30.08.2023 (87) US2015058624 11.05.2017 (22) 02.11.2015 (54) METHOD AND APPARATUS FOR FAST ECONOMIC ANALYSIS OF PRODUCTION OF FRACTURE- STIMULATED WELLS (73) Landmark Graphics Corporation (72) KHORIAKOV, Vitaly JIA, Xinli FILIPPOV, Andrey (51) E21B 43/22 E21B 43/27 C09K 8/57 C09K 8/72 C09K 8/92 C09K 8/502 C09K 8/504 C09K 8/516 C09K 8/82 C09K 8/84 (11) EP3508684 (21) EP17847082.9 (47) 30.08.2023 (87) RU2017000086 08.03.2018 (22) 21.02.2017 (54) METHOD FOR TREATING THE NEAR-WELLSBORE REGION OF A FORMATION (73) LIMITED LIABILITY COMPANY "VI- ENERGY" Nissan Chemical Corporation (72) SERGEEV, Vitalii Vyacheslavovich (31) 2016135679</p>
---	---	---

(32) 02.09.2016	(73) Merlin Technology Inc.	(32) 16.09.2015
(33) Russian Federation	(72) BAHR, David	(33) France
(51) E21B 44/00	KOLPACK, Bruce	(51) F01D 1/26
E21B 41/00	(31) 201213725718	F01D 21/00
(11) EP3695097	201261583566 P	F02C 3/067
(21) EP18865464.4	(32) 21.12.2012	F02K 3/072
(47) 30.08.2023	05.01.2012	F04D 19/02
(87) US2018054674	(33) United States of America	(11) EP3947914
18.04.2019	United States of America	(21) EP20726205.6
(22) 05.10.2018	(51) E21B 47/14	(47) 30.08.2023
(54) FIELD-LEVEL ANALYSIS OF	E21B 47/16	(87) FR2020050549
DOWNHOLE OPERATION LOGS	(11) EP3482044	01.10.2020
(73) Baker Hughes Holdings LLC	(21) EP17826717.5	(22) 16.03.2020
(72) KAISER, Jonas	(47) 30.08.2023	(54) COUNTER-ROTATING TURBINE OF
WESSLING, Stefan	(87) CA2017050823	AN AIRCRAFT TURBOMACHINE AND
RITZMANN, Nicklas	18.01.2018	NON-DESTRUCTIVE INSPECTION
(31) 201715728693	(22) 07.07.2017	METHOD FOR A COUNTER-ROTATING
(32) 10.10.2017	(54) METHOD AND APPARATUS FOR	TURBINE
(33) United States of America	PRE-LOADING A PIEZOELECTRIC	(73) SAFRAN AIRCRAFT ENGINES
(51) E21B 47/00	TRANSDUCER FOR DOWNHOLE	(72) SULTANA, Patrick, Jean, Laurent
G01V 3/18	ACOUSTIC COMMUNICATION	MARTET, Renaud, James
G01V 3/38	(73) Baker Hughes Oilfield Operations LLC	ROTENBERG, Maxime, Aurélien
(11) EP3129587	(72) WHALEN, Dave	(31) 1903092
(21) EP15777010.8	VAN ZELM, John-Peter	(32) 25.03.2019
(47) 30.08.2023	MCRORY, John Godfrey	(33) France
(87) US2015024688	XIAO, Xiaojun	(51) F01D 5/14
15.10.2015	(31) 201662360717 P	F01D 5/18
(22) 07.04.2015	(32) 11.07.2016	F01D 5/28
(54) MULTI-STRING MONITORING	(33) United States of America	(11) EP3819466
USING ELECTRO-MAGNETIC (EM)	(51) E21D 20/00	(21) EP20205902.8
CORROSION DETECTION TOOL	E21D 21/00	(47) 30.08.2023
(73) Halliburton Energy Services, Inc.	E21D 11/00	(22) 05.11.2020
(72) WU, Dagang	E21D 9/00	(54) CERAMIC AIRFOIL TRAILING EDGE
DONDERICI, Burkay	(11) EP3489459	CONFIGURATION
(31) 201461978126 P	(21) EP17892981.6	(73) Raytheon Technologies Corporation
(32) 10.04.2014	(47) 30.08.2023	(72) MARTIN, Thomas J.
(33) United States of America	(87) CN2017108695	KENNEDY, Matthew B.
(51) E21B 47/00	26.07.2018	HOLLOWCZAK, John E.
G01V 3/28	(22) 31.10.2017	CROTEAU, Paul F.
G01V 3/10	(54) NON-UNIFORM SUPPORT	(31) 201916678927
H01Q 1/04	STRUCTURE FOR GOB-SIDE	(32) 08.11.2019
(11) EP3516167	ENTRY DRIVING UNDER DEEP	(33) United States of America
(21) EP17883131.9	UNSTABLE OVERBURDEN ROCK AND	(51) F01D 5/14
(47) 30.08.2023	CONSTRUCTION METHOD	F01D 5/18
(87) US2017061612	(73) Shandong University Of Science And	F01D 5/28
28.06.2018	Technology	F01D 9/02
(22) 14.11.2017	(72) FAN, Deli	F01D 9/04
(54) INSULATOR BASE FOR ANTENNA	ZANG, Chuanwei	F01D 11/00
ASSEMBLIES	JING, Chunyan	(11) EP4015771
(73) Halliburton Energy Services, Inc.	NIU, Shengming	(21) EP21209704.2
(72) HENSARLING, Jesse K.	FAN, Kegong	(47) 30.08.2023
KOROVIN, Alexei	(31) 201710057785	(22) 22.11.2021
MOHON, Brian	(32) 23.01.2017	(54) VANE ARC SEGMENT WITH THERMAL
(31) 201662437732 P	(33) China	INSULATION ELEMENT
(32) 22.12.2016	(51) F01C 21/00	(73) Raytheon Technologies Corporation
(33) United States of America	F04C 11/00	(72) ZELESKY, Mark F.
(51) E21B 47/02	F04C 14/06	SURACE, Raymond
E21B 7/04	F04C 14/02	(31) 202017102575
E21B 44/00	(11) EP3144472	(32) 24.11.2020
E02F 5/18	(21) EP16189295.5	(33) United States of America
(11) EP2802739	(47) 30.08.2023	(51) F01D 5/14
(21) EP13733668.1	(22) 16.09.2016	F01D 5/28
(47) 30.08.2023	(54) ARRANGEMENT OF AT LEAST TWO	F01D 9/04
(87) US2013020128	HYDRAULIC PUMP DEVICES	(11) EP3277930
11.07.2013	(73) JTEKT Europe	(21) EP16713368.5
(22) 03.01.2013	(72) BABONNAUD, Laurent	(47) 30.08.2023
(54) DIRECTIONAL DRILLING TARGET	EYRAUD, Philippe	(87) EP2016056553
STEERING APPARATUS AND METHOD	(31) 1570041	06.10.2016

(22) 24.03.2016	(51) F01D 5/28	(51) F01D 11/10
(54) VANE SEGMENT FOR A GAS TURBINE	F01D 25/00	F01D 11/12
(73) Siemens Energy Global GmbH & Co. KG	C23C 4/04	F01D 5/22
(72) HANNAM, Steve	C23C 28/00	(11) EP4010562
WELLS, Jonathan	(11) EP3269934	(21) EP20756934.4
PADLEY, Paul	(21) EP17180782.9	(47) 30.08.2023
WALKER, Paul Mathew	(47) 30.08.2023	(87) FR2020051397
(31) 15162152	(22) 11.07.2017	11.02.2021
(32) 01.04.2015	(54) STRUCTURE COMPRISING A	(22) 29.07.2020
(33) European Patent Office (EPO)	REFLECTIVE THERMAL BARRIER	(54) ROTOR BLADE FOR A ROTOR OF AN
(51) F01D 5/16	COATING AND CORRESPONDING	AIRCRAFT TURBOMACHINE, ROTOR
F16F 7/112	METHOD OF CREATING A THERMAL	FOR AN AIRCRAFT TURBOMACHINE
F16F 7/116	BARRIER COATING	AND AIRCRAFT TURBOMACHINE
F16F 9/18	(73) Collins Engine Nozzles, Inc.	(73) Safran Helicopter Engines
F04D 29/66	(72) MARTIN, Thomas J.	(72) PELLATON, Bertrand, Guillaume, Robin
F16F 15/14	STAROSELSKY, Alexander	BENASSIS, Lucas
F16F 15/173	(31) 201615208066	(31) 1909053
(11) EP3978726	(32) 12.07.2016	(32) 07.08.2019
(21) EP21187048.0	(33) United States of America	(33) France
(47) 30.08.2023	(51) F01D 5/30	(51) F01D 11/12
(22) 21.07.2021	F01D 5/28	(11) EP3660275
(54) VIBRATIONAL DAMPENING ELEMENT	F01D 5/14	(21) EP19211954.3
AND ROTOR BLADE	(11) EP3926143	(47) 30.08.2023
(73) General Electric Company	(21) EP21188307.9	(22) 27.11.2019
(72) ERTAS, Bugra Han	(47) 30.08.2023	(54) ABRADABLE COATING FOR
CHAKRABARTI, Suryarghya	(22) 16.10.2019	GROOVED BOAS
(31) 202017038540	(54) HYBRID AIRFOIL FOR GAS TURBINE	(73) Raytheon Technologies Corporation
(32) 30.09.2020	ENGINES	(72) AUXIER, James Tilsley
(33) United States of America	(73) Raytheon Technologies Corporation	(31) 201816201164
(51) F01D 5/16	(72) GLASPEY, James	(32) 27.11.2018
F16F 15/14	HUSBAND, Jason	(33) United States of America
F16F 15/16	(31) 201816163607	(51) F01D 11/12
F04D 29/34	(32) 18.10.2018	F01D 5/28
F04D 29/66	(33) United States of America	(11) EP3611350
(11) EP3854996	(51) F01D 5/34	(21) EP19185794.5
(21) EP19879672.4	F01D 5/30	(47) 30.08.2023
(47) 30.08.2023	F01D 9/04	(22) 11.07.2019
(87) JP2019029259	F04D 29/66	(54) TURBINE ABRASIVE BLADE TIPS
07.05.2020	(11) EP3572624	WITH IMPROVED RESISTANCE TO
(22) 25.07.2019	(21) EP19175641.0	OXIDATION
(54) VIBRATION DAMPING DEVICE FOR	(47) 30.08.2023	(73) Raytheon Technologies Corporation
BLADE OF ROTARY MACHINE, AND	(22) 21.05.2019	(72) SEYMOUR, Kevin
ROTARY MACHINE WITH SAME	(54) TURBO MACHINE ASSEMBLY	STROCK, Christopher W.
(73) Mitsubishi Heavy Industries Aero	(73) MTU Aero Engines AG	(31) 201816039901
Engines, Ltd.	(72) Hartung, Andreas	(32) 19.07.2018
(72) WATANABE, Toshio	(31) 102018208229	(33) United States of America
AKIMOTO, Kentaro	(32) 24.05.2018	(51) F01D 17/10
(31) 2018206239	(33) Germany	F04D 27/02
(32) 01.11.2018	(51) F01D 9/04	F02C 6/08
(33) Japan	F01D 25/24	F01B 9/02
(51) F01D 5/20	(11) EP4006308	(11) EP3797214
F01D 11/08	(21) EP21210809.6	(21) EP19734177.9
F01D 25/32	(47) 30.08.2023	(47) 30.08.2023
F01D 5/18	(22) 26.11.2021	(87) US2019033336
(11) EP3597859	(54) DEVICE AND METHOD FOR	28.11.2019
(21) EP19185277.1	CONTROLLING THE SECTORS FOR	(22) 21.05.2019
(47) 30.08.2023	THE DISTRIBUTOR ASSEMBLY OF A	(54) SIMPLIFIED MECHANISM FOR A
(22) 09.07.2019	TURBINE	SCOTCH YOKE ACTUATOR
(54) TURBINE BLADE WITH DUST	(73) SAFRAN AIRCRAFT ENGINES	(73) Woodward, Inc.
TOLERANT COOLING SYSTEM	(72) CHAUVEL, Florian	(72) KLECKLER, Joel W.
(73) Honeywell International Inc.	ALVES DE MATOS, Carlos	HOEMKE, Brian E.
(72) WALDMAN, David	DE AGOSTINI, Enguerrand Frédéric	(31) 201815986671
WHITAKER, Steven	GAGLIARDO, Mathias	(32) 22.05.2018
CRITES, Daniel C.	WYSIDI, Abner	(33) United States of America
MORRIS, Mark C.	EPARVIER, Baptiste	(51) F01D 25/04
(31) 201816035191	(31) 2012269	F01D 25/16
(32) 13.07.2018	(32) 27.11.2020	F16H 1/28
(33) United States of America	(33) France	(11) EP3798427

(21) EP20205202.3	(72) Lee, Jin-Lu	(33) Germany
(47) 30.08.2023	Yu, Chih-Wen	(51) F01N 3/20
(22) 17.01.2013	(31) 103128917	F01N 3/023
(54) TURBOMACHINE GEARED	103115880	F01N 13/00
ARCHITECTURE SUPPORT	103114813	F01N 3/035
ASSEMBLY	(32) 22.08.2014	F01N 9/00
(73) Raytheon Technologies Corporation	02.05.2014	(11) EP3861203
(72) OTTO, John R.	24.04.2014	(21) EP19869598.3
(31) 201213362389	(33) Taiwan, Chinese Taipei	(47) 30.08.2023
(32) 31.01.2012	Taiwan, Chinese Taipei	(87) SE2019050873
(33) United States of America	Taiwan, Chinese Taipei	09.04.2020
(51) F01D 25/32	(51) F01M 1/16	(22) 17.09.2019
(11) EP4036380	F16N 9/04	(54) SCR CONTROL OFAMMONIA PRE-
(21) EP20900122.1	F16N 11/00	DOSING BASED ON LOOK-AHEAD
(47) 30.08.2023	F16N 29/02	DATA
(87) JP2020046349	G05B 19/042	(73) Scania CV AB
17.06.2021	(11) EP3516288	(72) HARNEMO, Björn
(22) 11.12.2020	(21) EP17852033.4	(31) 1851196
(54) TURBINE STATOR VANE ASSEMBLY	(47) 30.08.2023	(32) 04.10.2018
AND STEAM TURBINE	(87) CA2017051113	(33) Sweden
(73) Mitsubishi Heavy Industries, Ltd.	29.03.2018	(51) F01N 3/20
(72) DUAN, Chongfei	(22) 21.09.2017	F01N 3/28
ISHIBASHI, Koji	(54) CONTROLLING AT LEAST ONE	F01N 3/027
MIZUMI, Shunsuke	LUBRICATION APPARATUS	H05B 3/06
TABATA, Suichiro	ACCORDING TO WHETHER	H05B 3/34
(31) 2019223560	VIBRATION SATISFIES ONE OF A	H05B 3/42
(32) 11.12.2019	PLURALITY OF DIFFERENT CRITERIA	(11) EP3864263
(33) Japan	(73) Stephania Holdings Inc.	(21) EP19805897.6
(51) F01K 23/10	(72) ORLITZKY, Stephan Karl	(47) 30.08.2023
F01K 23/16	(31) 201662398372 P	(87) EP2019077574
(11) EP3795808	(32) 22.09.2016	16.04.2020
(21) EP20205484.7	(33) United States of America	(22) 11.10.2019
(47) 30.08.2023	(51) F01M 13/04	(54) APPARATUS FOR EXHAUST GAS
(22) 26.07.2017	F01M 13/00	TREATMENT
(54) STEAM AND GAS TURBINE DEVICE	B01D 45/12	(73) Vitesco Technologies GmbH
(73) Heat Power B.V.	B01D 45/06	(72) RINGS, Florian
(72) OUWERKERK, Henk	B01D 45/08	HIRTH, Peter
(31) 2017247	(11) EP3720588	(31) 102018217438
(32) 28.07.2016	(21) EP18885642.1	(32) 11.10.2018
(33) Netherlands	(47) 30.08.2023	(33) Germany
(51) F01K 25/06	(87) US2018060070	(51) F01N 3/20
(11) EP3797218	13.06.2019	F01N 9/00
(21) EP19726369.2	(22) 09.11.2018	F01N 3/28
(47) 30.08.2023	(54) CRANKCASE VENTILATION SYSTEMS	F02D 41/00
(87) EP2019063138	HAVING A SWIRL BREAKER TO	F02D 41/02
28.11.2019	REDUCE PRESSURE DROP IN	F02D 17/02
(22) 21.05.2019	TANGENTIALLY EXITING FLUIDS	(11) EP3887660
(54) CLOSED-CYCLE ABSORPTION	(73) Cummins Filtration IP, Inc.	(21) EP19805706.9
SYSTEM AND METHOD FOR COOLING	(72) KOLHE, Vijay Dinkar	(47) 30.08.2023
AND GENERATING POWER	POTRATZ, Daniel	(87) EP2019082361
(73) Gios, Bart	HERMAN, Peter K.	04.06.2020
(72) Gios, Bart	BARRETEAU, Anthony	(22) 25.11.2019
(31) 201805328	SURANA, Navin	(54) CONTROL METHOD OF A TRACTION
(32) 23.05.2018	(31) 201741043739	DEVICE FOR AN AUTOMOBILE
(33) Belgium	(32) 06.12.2017	VEHICLE COMPRISING AN
(51) F01L 13/08	(33) India	ELECTRICALLY HEATED EXHAUST
F02B 61/02	(51) F01N 3/027	GAS AFTERTREATMENT SYSTEM
F02D 41/06	F01N 3/20	(73) Renault s.a.s
F02N 11/04	(11) EP3954881	NISSAN MOTOR CO., LTD.
F02N 19/00	(21) EP21184935.1	(72) BOIARCIUC, Andrei-Alexandru
F02D 13/02	(47) 30.08.2023	(31) 1871888
(11) EP2955343	(22) 12.07.2021	(32) 27.11.2018
(21) EP15164916.7	(54) EXHAUST GAS HEATING	(33) France
(47) 30.08.2023	ARRANGEMENT	(51) F01N 3/28
(22) 23.04.2015	(73) Purem GmbH	F01N 13/00
(54) ENGINE WITH DECOMPRESSION	(72) Gaiser, Gerd	G01N 33/00
DEVICES	(31) 102020121414	(11) EP3767086
(73) Sanyang Motor Co., Ltd.	(32) 14.08.2020	(21) EP20183393.6

(47) 30.08.2023	(31) 1908579	ROBERGE, Gary D.
(22) 01.07.2020	(32) 27.07.2019	(31) 201816044268
(54) SENSOR FOR MEASURING GAS PROPERTIES	(33) France	(32) 24.07.2018
(73) Renault s.a.s	(51) F02C 1/00	(33) United States of America
(72) ZHANG, Weiran	F02C 1/10	(51) F02C 7/232
PRUSKI, STANISLAS	F02C 6/18	(11) EP3800339
(31) 1908029	F01K 23/10	(21) EP19215813.7
(32) 16.07.2019	(11) EP4060173	(47) 30.08.2023
(33) France	(21) EP21163092.6	(22) 12.12.2019
(51) F01N 13/10	(47) 30.08.2023	(54) FLUID INJECTION SYSTEMS HAVING FLUID LINE PURGING
F01N 13/18	(22) 17.03.2021	(73) Hamilton Sundstrand Corporation
F01N 1/00	(54) AIRCRAFT POWERPLANT COMPRISING A RECUPERATIVE CLOSED-CYCLE ARRANGEMENT	(72) DOERNER, Steve
(11) EP3882441	(73) AVL Powertrain UK Ltd	SUSCA, Ryan
(21) EP21163668.3	ITP Engines UK Ltd	REUTER, Charles E.
(47) 30.08.2023	(72) AFTANASA, Florin Gabriel	(31) 201916593370
(22) 19.03.2021	BALANDIER, Quentin Luc	(32) 04.10.2019
(54) SINUOUS BALANCED TAILPIPE SYSTEM	WANG, Xiang	(33) United States of America
(73) Active Automotive Group Inc. d/b/a Active Auto Werke	(51) F02C 6/00	(51) F02C 7/232
(72) HUGH, Karl	F02C 7/275	F02C 9/26
HUGH, David	F02C 7/32	(11) EP3994347
(31) 202017113648	F02C 7/36	(21) EP20737147.7
202062991631 P	F02C 9/00	(47) 30.08.2023
(32) 07.12.2020	F02K 5/00	(87) EP2020068906
19.03.2020	B64D 1/00	07.01.2021
(33) United States of America	(11) EP3770399	(22) 03.07.2020
United States of America	(21) EP20187729.7	(54) METHOD FOR DETERMINING THE DENSITY OF FUEL FOR METERING FUEL IN A FUEL SUPPLY CIRCUIT OF AN AIRCRAFT ENGINE
(51) F01P 3/20	(47) 30.08.2023	(73) SAFRAN AIRCRAFT ENGINES
B60H 1/08	(22) 24.07.2020	(72) PORA, Loïc
B60H 1/20	(54) ASYMMETRIC HYBRID AIRCRAFT IDLE	JOUDAREFF, Arnaud Bernard Clément Thomas
F01P 7/16	(73) Raytheon Technologies Corporation	(31) 1907427
F02D 45/00	(72) TERWILLIGER, Neil	(32) 03.07.2019
F28D 20/02	(31) 201962878442 P	(33) France
B60H 1/00	(32) 25.07.2019	(51) F02C 7/268
B60K 11/02	(33) United States of America	F01D 15/10
F01P 11/20	(51) F02C 6/16	F02C 7/32
F28D 21/00	F01K 25/00	F02C 7/36
(11) EP3974629	F01K 13/02	F02K 5/00
(21) EP20841006.8	F02C 1/10	(11) EP4004355
(47) 30.08.2023	F01K 13/00	(21) EP20753991.7
(87) JP2020026870	(11) EP4004349	(47) 30.08.2023
21.01.2021	(21) EP20746900.8	(87) FR2020051292
(22) 09.07.2020	(47) 30.08.2023	04.02.2021
(54) VEHICULAR HEAT ACCUMULATING SYSTEM	(87) EP2020069988	(22) 16.07.2020
(73) Japan Climate Systems Corporation	14.05.2021	(54) TURBOMACHINE COMPRISING AN ELECTRIC MACHINE HAVING A STARTER-GENERATOR FUNCTION AND METHOD FOR CONTROLLING THE SPEED OF SUCH AN ELECTRIC MACHINE
(72) HAMAMOTO Hiroshi	(22) 15.07.2020	(73) SAFRAN AIRCRAFT ENGINES
MIYAZAKI Yoichi	(54) PRESSURE CONTROL FOR CLOSED JOULE CIRCUIT PROCESSES	(72) DE WERGIFOSSE, Huguette
(31) 2019130822	(73) Siemens Energy Global GmbH & Co. KG	(31) 1908561
(32) 16.07.2019	(72) GRAEBER, Carsten	(32) 26.07.2019
(33) Japan	JURETZEK, Uwe	(33) France
(51) F02B 43/00	(31) 19206843	(51) F02C 7/32
F02B 69/04	(32) 04.11.2019	(11) EP4004356
F02B 3/02	(33) European Patent Office (EPO)	(21) EP20756912.0
F02B 3/06	(51) F02C 7/047	(47) 30.08.2023
(11) EP3771813	F01D 25/02	(87) FR2020051353
(21) EP20186352.9	F25D 21/00	04.02.2021
(47) 30.08.2023	H05B 6/10	(22) 23.07.2020
(22) 17.07.2020	(11) EP3599358	(54) DEVICE FOR DRIVING A GENERATOR OF AN AIRCRAFT TURBOMACHINE
(54) METHOD FOR TRANSFORMING A DIESEL ENGINE INTO AN ENGINE OPERATING WITH NATURAL GAS FOR A VEHICLE AND VEHICLE EQUIPPED WITH SUCH AN ENGINE	(21) EP19188202.6	
(73) Euro Investissement	(47) 30.08.2023	
(72) LAFON, Guy	(22) 24.07.2019	
	(54) SYSTEMS AND METHODS FOR FAN BLADE DE-ICING	
	(73) Raytheon Technologies Corporation	
	(72) MORRIS, Robert J.	

AND METHOD FOR REGULATING THE SPEED OF SUCH A GENERATOR	(11) EP3431743 (21) EP18184622.1	YUUKI, Akihiro FURUKAWA, Yuta
(73) SAFRAN AIRCRAFT ENGINES	(47) 30.08.2023	(31) 2016010723
(72) DE WERGIFOSSE, Huguette	(22) 20.07.2018	(32) 22.01.2016
(31) 1908553	(54) METHOD AND APPARATUS FOR OPERATING A GAS ENGINE AT LOW POWER OPERATION	(33) Japan
(32) 26.07.2019		(51) F02F 1/00
(33) France		F02F 5/00
(51) F02C 9/18	(73) Geisberger, Maximilian	F16J 10/00
B64D 13/08	(72) Eichhorn, Sebastian	F02F 1/20
F02C 7/047	Geisberger, Maximilian	(11) EP3657000
F02C 6/08	(31) 102017116402	(21) EP19840704.1
F02C 3/107	(32) 20.07.2017	(47) 30.08.2023
F02C 7/14	(33) Germany	(87) JP2019026763
F02C 7/32	(51) F02D 41/14	30.01.2020
F02K 3/06	F02D 19/06	(22) 05.07.2019
F04D 25/08	F02D 29/02	(54) CAST IRON CYLINDER LINER, AND INTERNAL COMBUSTION ENGINE
(11) EP3835563	F02D 41/22	(73) TPR CO., LTD.
(21) EP20209452.0	(11) EP2971712	TPR INDUSTRY CO., LTD.
(47) 30.08.2023	(21) EP14764981.8	(72) TAMAKI Seiji
(22) 24.11.2020	(47) 30.08.2023	SUZUKI Wataru
(54) ENVIRONMENTAL CONTROL SYSTEM	(87) CA2014050212	SUZUKI Takashi
(73) Rolls-Royce plc	18.09.2014	YAGUCHI Hiroshi
(72) Howarth, Nicholas	(22) 11.03.2014	KAWAI Kiyoyuki
Mann, Amarveer	(54) FUEL SYSTEM DIAGNOSTICS	AMAIKE Shinji
(31) 201917964	(73) Westport Fuel Systems Canada Inc.	HOSHINO Seeroku
(32) 09.12.2019	(72) HUANG, Jian	NANGO Tetsuya
(33) United Kingdom	MUNSHI, Sandeep	OIZUMI Takashi
(51) F02C 9/58	(31) 2809291	(31) 2018139942
(11) EP3770408	(32) 12.03.2013	(32) 26.07.2018
(21) EP20187537.4	(33) Canada	(33) Japan
(47) 30.08.2023	(51) F02D 41/14	(51) F02F 1/40
(22) 23.07.2020	F02D 41/40	(11) EP3409934
(54) SYSTEM AND METHOD FOR OPERATING A TURBOPROP ENGINE	F02D 35/02	(21) EP17196759.9
(73) Pratt & Whitney Canada Corp.	F02D 41/00	(47) 30.08.2023
(72) CHAREST, Alexandre	(11) EP3418541	(22) 17.10.2017
LAMARRE, Sylvain	(21) EP18176174.3	(54) WATER JACKET FOR CYLINDER HEAD
DES ROCHES-DIONNE, Nicolas	(47) 30.08.2023	(73) Kia Corporation
(31) 201916551177	(22) 05.06.2018	Hyundai Motor Company
201962879066 P	(54) METHOD FOR CONTROLLING COMBUSTION IN ENGINES	(72) LEE, Bong Sang
(32) 26.08.2019	(73) Caterpillar Motoren GmbH & Co. KG	LEE, Byung Soo
26.07.2019	(72) MARSCHEIDER, Hannes	(31) 20170066143
(33) United States of America	GRAUMÜLLER, Robert	(32) 29.05.2017
United States of America	WESTER, Daniel	(33) Korea (Republic)
(51) F02D 41/00	SCHMIDT, Andre	(51) F02M 35/10
F02B 37/16	WOLFGRAMM, Marius	F02M 35/104
F02M 35/09	SIXEL, Eike Joachim	(11) EP3999732
F02M 35/02	(31) 201709963	(21) EP20739730.8
F02B 37/18	(32) 22.06.2017	(47) 30.08.2023
(11) EP3411577	(33) United Kingdom	(87) EP2020070363
(21) EP16822880.7	(51) F02D 45/00	28.01.2021
(47) 30.08.2023	F02P 5/152	(22) 17.07.2020
(87) AT2016060119	F02P 5/153	(54) INTAKE DISTRIBUTOR MADE FROM PLASTIC MATERIAL WITH AN AT LEAST PARTIAL INNER LINING
06.07.2017	F02D 35/02	(73) Sogefi Air & Cooling
(22) 07.12.2016	F02D 41/14	(72) BORR, Julien
(54) METHOD AND APPARATUS FOR CONTROLLING A TURBOCHARGER	F02D 41/28	DONETTI, Jimmy
(73) Innio Jenbacher GmbH & Co OG	(11) EP3392493	ANCEL, Benoit
(72) HOLECEK, Jakub	(21) EP16886542.6	(31) 1908201
WALL, Günther	(47) 30.08.2023	(32) 19.07.2019
(31) 511072015	(87) JP2016088810	(33) France
(32) 29.12.2015	27.07.2017	(51) F02M 51/06
(33) Austria	(22) 27.12.2016	(11) EP4033087
(51) F02D 41/06	(54) KNOCKING DETECTION METHOD, IGNITION PERIOD CONTROL METHOD, AND IGNITION PERIOD CONTROL SYSTEM	(21) EP22157406.4
F02D 41/00	(73) Mitsubishi Heavy Industries, Ltd.	(47) 30.08.2023
F02M 21/02	(72) TAKEMOTO, Daisuke	(22) 03.05.2018
F02D 19/02		(54) VALVE FOR METERING A FLUID
F02D 9/02		

(73) Robert Bosch GmbH	(54) NACELLE FRAME STRUCTURE FOR A	(31) 201916378808
(72) Ucal, Murat	NACELLE OF A WIND TURBINE	(32) 09.04.2019
Cerny, Stefan	(73) Schemik, Mario	(33) United States of America
Buehner, Martin	Hoffmann, Maik	(51) F03D 7/02
Heinstein, Axel	(72) Schemik, Mario	F03D 17/00
Boee, Matthias	Hoffmann, Maik	(11) EP3597905
Rose, Jochen	(31) 202021017146	(21) EP19186805.8
Glaser, Andreas	(32) 21.04.2020	(47) 30.08.2023
Herrmann, Nico	(33) India	(22) 17.07.2019
(31) 102017207845	(51) F03D 1/06	(54) SYSTEM AND METHOD FOR
(32) 10.05.2017	(11) EP3807523	DETECTING A PITCH FAULT IN
(33) Germany	(21) EP19733392.5	A WIND TURBINE VIA VOLTAGE,
(51) F02N 11/00	(47) 30.08.2023	CURRENT, TORQUE, OR FORCE
F02N 11/08	(87) DE2019100503	MONITORING
(11) EP3770418	19.12.2019	(73) General Electric Company
(21) EP20164845.8	(22) 05.06.2019	(72) Danielsen, Darren John
(47) 30.08.2023	(54) ARRANGEMENT FOR TRACTIVE	Verzella, Philip James
(22) 23.03.2020	OR LONGITUDINAL FORCE	(31) 201816037458
(54) CONTROL METHOD FOR ISG OF	TRANSMISSION AND METHOD	(32) 17.07.2018
VEHICLE EQUIPPED WITH MANUAL	FOR PRODUCING SUCH AN	(33) United States of America
TRANSMISSION	ARRANGEMENT	(51) F03D 7/02
(73) Kia Corporation	(73) Schultes, Klaus	F03D 17/00
Hyundai Motor Company	(72) Schultes, Klaus	(11) EP3821125
(72) JUNG, Young Ho	(31) 102018114098	(21) EP19737657.7
BANG, Jung Hwan	(32) 13.06.2018	(47) 30.08.2023
LEE, Tae Suk	(33) Germany	(87) DK2019050215
(31) 20190089309	(51) F03D 1/06	16.01.2020
(32) 24.07.2019	(11) EP3835571	(22) 03.07.2019
(33) Korea (Republic)	(21) EP20217409.0	(54) METHOD AND SYSTEM FOR
(51) F02P 15/10	(47) 30.08.2023	CONTROLLING A WIND TURBINE TO
F02P 3/04	(22) 16.07.2010	REDUCE NACELLE VIBRATION
F02P 5/15	(54) WIND TURBINE BLADE WITH	(73) VESTAS WIND SYSTEMS A/S
F02P 9/00	NARROW SHOULDER AND	(72) VASUDEVAN, Karthik
F02P 3/02	RELATIVELY THICK AIRFOIL	CHRISTENSEN, Poul Brandt
(11) EP3295019	PROFILES	GRUNNET, Jacob Deleuran
(21) EP16725918.3	(73) LM Wind Power A/S	NICHOLS, James Alexander
(47) 30.08.2023	(72) MADSEN, Jesper	(31) PA201870480
(87) IB2016052266	FUGLSANG, Peter	(32) 11.07.2018
17.11.2016	ANDERSEN, Christian, Frank	(33) Denmark
(22) 21.04.2016	(51) F03D 1/06	(51) F03D 7/02
(54) ELECTRONIC IGNITION SYSTEM FOR	(11) EP3997332	F03D 17/00
AN INTERNAL COMBUSTION ENGINE	(21) EP20740234.8	F03D 7/04
(73) Eldor Corporation S.p.A.	(47) 30.08.2023	(11) EP3645866
(72) SILVA, Stefano	(87) DK2020050211	(21) EP18734810.7
CARUGATI, Eugenio	21.01.2021	(47) 30.08.2023
FORTE, Pasquale	(22) 09.07.2020	(87) EP2018067363
(31) MI20150678	(54) CONNECTION FOR SPLIT WIND	03.01.2019
(32) 14.05.2015	TURBINE BLADE	(22) 28.06.2018
(33) Italy	(73) VESTAS WIND SYSTEMS A/S	(54) COMPUTER-IMPLEMENTED METHOD
(51) F03B 13/06	(72) HEDGES, Andrew	FOR RE-CALIBRATING AT LEAST ONE
H02J 15/00	ERNST, Robert	YAW-ANGLE OF A WIND TURBINE,
(11) EP3489506	MASMANIDIS, Iordanis	RESPECTIVE SYSTEM, COMPUTER-
(21) EP18206519.3	(31) PA201970463	IMPLEMENTED METHOD FOR
(47) 30.08.2023	(32) 12.07.2019	WIND PARK OPTIMIZATION, AND
(22) 15.11.2018	(33) Denmark	RESPECTIVE WIND PARK
(54) PUMP STORAGE STATION AND PUMP	(51) F03D 7/02	(73) RWE Offshore Wind GmbH
STORAGE PROCEDURE	(11) EP3722597	(72) CORTIANA, Giorgio
(73) Piekorz, Bernhard	(21) EP20168033.7	(31) 102017114583
(72) Piekorz, Bernhard	(47) 30.08.2023	(32) 29.06.2017
(31) 102017010933	(22) 03.04.2020	(33) Germany
(32) 23.11.2017	(54) SYSTEM AND METHOD FOR	(51) F03D 7/04
(33) Germany	PREVENTING CATASTROPHIC	(11) EP3812580
(51) F03D 1/00	DAMAGE IN DRIVETRAIN OF A WIND	(21) EP20203106.8
(11) EP3901450	TURBINE	(47) 30.08.2023
(21) EP21169387.4	(73) General Electric Company	(22) 21.10.2020
(47) 30.08.2023	(72) Angel, Mathew Doyle	(54) WIND TURBINE MODEL BASED
(22) 20.04.2021	Cardinal, Mark Edward	CONTROL AND ESTIMATION WITH
	Viscome, Drake Joseph	ACCURATE ONLINE MODELS

(73) General Electric Company	(32) 31.08.2018	(33) Germany
(72) Barton, Justin	(33) Denmark	(51) F04B 39/14
Adegas, Fabiano Daher	(51) F03G 7/06	F04B 39/12
Luenenschloss, Alexander	(11) EP3692261	F04B 53/10
D'Amato, Fernando Javier	(21) EP18782940.3	G01H 3/04
(31) 201916660084	(47) 30.08.2023	F04B 39/10
(32) 22.10.2019	(87) EP2018076662	(11) EP3482076
(33) United States of America	11.04.2019	(21) EP17734734.1
(51) F03D 13/10	(22) 01.10.2018	(47) 30.08.2023
F03D 13/40	(54) DRIVE SYSTEM COMPRISING	(87) EP2017066494
F03D 13/25	AT LEAST ONE METAL ELEMENT	11.01.2018
B63B 35/28	EXHIBITING SHAPE MEMORY	(22) 03.07.2017
B63B 35/00	PROPERTIES	(54) CYLINDER HEAD COVER FOR A
B63B 27/10	(73) Bleco - Apparatebau GmbH	REFRIGERANT COMPRESSOR
B63B 77/10	(72) PATTEN, Werner	(73) Secop GmbH
B63B 35/44	(31) 202018102372 U	(72) STEINBRUNN, Rolf
(11) EP4006338	102017123146	(31) 5012216 U
(21) EP20923688.4	(32) 27.04.2018	(32) 06.07.2016
(47) 30.08.2023	05.10.2017	(33) Austria
(87) KR2020016679	(33) Germany	(51) F04B 45/04
24.03.2022	Germany	F04F 7/00
(22) 24.11.2020	(51) F03H 1/00	F04D 33/00
(54) METHOD FOR INSTALLING	B64G 1/40	H02K 33/18
OFFSHORE FLOATING BODY FOR	F16K 31/02	H02K 33/02
WIND POWER GENERATION	(11) EP3658773	(11) EP3933200
(73) ACE E&T (ENGINEERING &	(21) EP18736899.8	(21) EP21155283.1
TECHNOLOGY)	(47) 30.08.2023	(47) 30.08.2023
(72) KIM, Soo Han	(87) EP2018067977	(22) 04.02.2021
KIM, Day Hwan	31.01.2019	(54) HEAT SINK ASSEMBLY AND CONTROL
(31) 20200119068	(22) 03.07.2018	METHOD FOR HEAT SINK ASSEMBLY,
(32) 16.09.2020	(54) ELECTRIC THRUSTER AND METHOD	AND ELECTRONIC DEVICE AND
(33) Korea (Republic)	OF OPERATING AN ELECTRIC	MANUFACTURING METHOD FOR
(51) F03D 17/00	THRUSTER	ELECTRONIC DEVICE
F03D 7/02	(73) Airbus Defence and Space GmbH	(73) Beijing Xiaomi Mobile Software Co., Ltd.
(11) EP3597910	(72) HEY, Franz Georg	(72) GUO, Yiwei
(21) EP19186802.5	(31) 102017212927	(31) 202010620369
(47) 30.08.2023	(32) 27.07.2017	(32) 30.06.2020
(22) 17.07.2019	(33) Germany	(33) China
(54) SYSTEM AND METHOD FOR	(51) F04B 1/047	(51) F04C 2/08
REDUCING LOADS DURING AN	F04B 1/0421	F04C 2/10
IDLING OR PARKED STATE OF A WIND	F04B 43/02	F04C 15/00
TURBINE WITH A STUCK ROTOR	F04B 53/16	(11) EP3228866
BLADE	(11) EP3847369	(21) EP17158191.1
(73) General Electric Company	(21) EP18769624.0	(47) 30.08.2023
(72) Danielsen, Darren John	(47) 30.08.2023	(22) 27.02.2017
Verzella, Philip James	(87) EP2018074072	(54) GEARED FUEL PUMP
Davidson, James Paul	17.10.2019	(73) Suntec Industries France
Gandhi, Jignesh Govindlal	(22) 06.09.2018	(72) EMAILLE, Dominique
Tschappatt, Christopher Lee	(54) RADIAL FLUID PUMP	(31) 1651673
Souri, Ramy Michael	(73) Cytiva Sweden AB	(32) 29.02.2016
(31) 201816037196	(72) LUNDKVIST, Mats	(33) France
(32) 17.07.2018	GRONOWITZ, David	(51) F04C 2/344
(33) United States of America	MARCSTROM, Andreas	F04C 15/00
(51) F03D 80/00	MARTELEUR, Klas	(11) EP4010595
F03D 80/50	LUNDIN, Andreas, Torbjorn	(21) EP20746645.9
(11) EP3844390	(51) F04B 23/02	(47) 30.08.2023
(21) EP19744623.0	F04B 23/04	(87) EP2020071220
(47) 30.08.2023	(11) EP3808977	18.02.2021
(87) DK2019050230	(21) EP20197627.1	(22) 28.07.2020
05.03.2020	(47) 30.08.2023	(54) ROTOR AND PUMP COMPRISING
(22) 16.07.2019	(22) 23.09.2020	SUCH ROTOR
(54) WIND TURBINE ENERGY	(54) HYDRAULIC ASSEMBLY	(73) VHIT S.p.A. Societa Unipersonale
GENERATING UNIT COMPRISING A	(73) Deere & Company	(72) BELA, Simona
TOOL FIXTURE	(72) Meid, Michael	RUFRANO, Vito
(73) VESTAS WIND SYSTEMS A/S	Billich, Manuel	PASQUALI, Stefania
(72) KOFMAN, Joris	(31) 102019215975	CAEDDU, Leonardo
LANGVARDT KROGH, Lars	(32) 17.10.2019	(31) 201900014604
(31) PA201870560		(32) 09.08.2019

(33) Italy	(72) ECHEVERRI, Luis	(11) EP3839262
(51) F04C 5/00	(31) 201662319010 P	(21) EP20214738.5
(11) EP3768974	(32) 06.04.2016	(47) 30.08.2023
(21) EP19735541.5	(33) United States of America	(22) 16.12.2020
(47) 30.08.2023	(51) F04D 13/14	(54) FAN WITH SENSOR DEVICE FOR PREVENTING COLLISION OF AN OBJECT WITH THE ROTOR
(87) EP2019067542	F04D 29/42	(73) ebm-papst Mulfingen GmbH & Co. KG
30.01.2020	F04D 13/16	(72) Knipp, Christian Antonius
(22) 01.07.2019	F04D 1/06	Wystup, Ralph
(54) PUMP WITH DETECTION OF ABSOLUTE ANGLE OF ROTATION	(11) EP4015826	Humm, Markus
(73) EBM-PAPST ST. GEORGEN GMBH & CO. KG	(21) EP21215686.3	(31) 102019135412
(72) LÖFFLER, Jens	(47) 30.08.2023	(32) 20.12.2019
LAUFER, Wolfgang	(22) 17.12.2021	(33) Germany
BRAXMAIER, Markus	(54) HYDRAULIC PUMP WITH AN INTEGRATED BUFFER TANK	(51) F04D 29/057
HAUER, Daniel	(73) Trevitech S.r.l.	F04D 29/059
STAIGER, Mario	(72) FANTOZZI, Luca	F04D 29/58
(31) 102018118100	(31) 202000031490	(11) EP3808989
(32) 26.07.2018	(32) 18.12.2020	(21) EP20206177.6
(33) Germany	(33) Italy	(47) 30.08.2023
(51) F04C 18/12	(51) F04D 25/02	(22) 07.09.2017
F04C 25/02	F16D 1/02	(54) VENTILATION FAN HAVING A HYBRID BEARING SYSTEM
F04C 28/26	F04D 17/12	(73) Hamilton Sundstrand Corporation
(11) EP3762611	F04D 25/06	(72) COLSON, Darryl A.
(21) EP19711684.1	F04D 29/057	LOKHANDWALLA, Murtuza
(47) 30.08.2023	F16D 3/06	(31) 201615258402
(87) GB2019050650	F16D 3/10	(32) 07.09.2016
12.09.2019	F16D 3/56	(33) United States of America
(22) 08.03.2019	(11) EP3845765	(51) F04D 29/22
(54) A VACUUM PUMP WITH A PRESSURE RELIEF VALVE	(21) EP20217396.9	F04D 29/048
(73) Edwards Limited	(47) 30.08.2023	F04D 29/24
(72) HOLBROOK, Alan Ernest Kinnaid	(22) 28.12.2020	A61M 60/104
KAILASAM, Sivabalan	(54) COMPRESSOR SYSTEM	A61M 60/232
WICKES, Matthew Richard	(73) Mitsubishi Heavy Industries Compressor Corporation	A61M 60/422
TURNER, Neil	(72) Nagao, Hideki	A61M 60/804
(31) 201803859	(31) 2020000331	(11) EP3867534
(32) 09.03.2018	(32) 06.01.2020	(21) EP19801969.7
(33) United Kingdom	(33) Japan	(47) 30.08.2023
(51) F04C 21/00	(51) F04D 25/06	(87) IB2019058808
F01C 9/00	F04D 25/08	23.04.2020
F04B 35/01	F04D 29/08	(22) 16.10.2019
F01B 9/04	F04D 29/42	(54) MAGNETIC LEVITATION CENTRIFUGAL PUMP
F16H 35/02	F04D 29/52	(73) Eurosets S.r.l.
F01C 17/02	F04D 29/64	(72) GHELLI, Nicola
(11) EP2857689	H02K 1/18	FONTANILI, Paolo
(21) EP13075069.8	H02K 5/10	COSTA MAIANTI, Edgardo
(47) 30.08.2023	H02K 5/24	(31) 201800009506
(22) 02.10.2013	F04D 29/62	(32) 16.10.2018
(54) Circulation transmission piston engine with a lever system, arranged on an axle	H02K 5/173	(33) Italy
(73) Dr. Gnauck & Partner	H02K 7/14	(51) F04D 29/28
Erfindergesellschaft bR	(11) EP4031773	F04D 17/10
(72) Schwäbisch, Reinhard	(21) EP20776094.3	F04D 29/16
(51) F04D 7/04	(47) 30.08.2023	(11) EP3708847
F04D 29/24	(87) EP2020075901	(21) EP17930344.1
F04D 29/68	25.03.2021	(47) 30.08.2023
F04D 29/22	(22) 16.09.2020	(87) JP2017039916
(11) EP3440360	(54) CONNECTION OF AT LEAST TWO COMPONENTS OF A FAN AND METHOD TO CONNECT THE TWO COMPONENTS TO ONE ANOTHER	09.05.2019
(21) EP17716650.1	(73) EBM-Papst Mulfingen GmbH&CO. KG	(22) 06.11.2017
(47) 30.08.2023	(72) RÜCKERT, Christian	(54) CENTRIFUGAL COMPRESSOR AND TURBOCHARGER COMPRISING SAID CENTRIFUGAL COMPRESSOR
(87) IB2017051978	HAMMEL, Christian	(73) Mitsubishi Heavy Industries Engine & Turbocharger, Ltd.
12.10.2017	(31) 102019214087	(72) IWAKIRI, Kenichiro
(22) 06.04.2017	(32) 16.09.2019	IBARAKI, Seiichi
(54) LOW INLET VORTICITY IMPELLER HAVING ENHANCED HYDRODYNAMIC WEAR CHARACTERISTICS	(33) Germany	HAYASHI, Yoshihiro
(73) FLSmidth A/S	(51) F04D 27/00	
	F04D 25/08	

(51) F15B 11/20	(73) The Boeing Company	Lamello AG
(11) EP4001668	(72) Hansen, Darrin M.	Baur, Franz
(21) EP21208158.2	Simpson, Blake A.	(72) HASER, Franz Josef
(47) 30.08.2023	(31) 202016736638	JEKER, Patrick
(22) 15.11.2021	(32) 07.01.2020	BAUR, Franz
(54) DEVICE FOR SEQUENTIAL	(33) United States of America	SEILER, Philipp
OPERATION OF TWO OR MORE	(51) F16B 5/02	(31) 102016215037
CYLINDERS	F16B 43/02	(32) 11.08.2016
(73) Robert Bosch GmbH	(11) EP3645897	(33) Germany
(72) Pedrazzi, Alberto	(21) EP18823703.6	(51) F16B 13/06
(31) 202000027654	(47) 30.08.2023	F16B 13/12
(32) 18.11.2020	(87) US2018039742	(11) EP3995706
(33) Italy	03.01.2019	(21) EP21205845.7
(51) F15B 13/043	(22) 27.06.2018	(47) 30.08.2023
(11) EP3473865	(54) MOUNT	(22) 02.11.2021
(21) EP17461622.7	(73) Blanking Systems, Inc.	(54) EXPANSION ANCHOR
(47) 30.08.2023	(72) OETLINGER, Frank, E.	(73) fischerwerke GmbH & Co. KG
(22) 19.10.2017	(31) 201715635429	(72) Lehmann, David
(54) NOZZLE ASSEMBLY WITH FILTER FOR	(32) 28.06.2017	Suchy, Ulrich
A SERVOVALVE	(33) United States of America	Schneider, Sebastian
(73) Hamilton Sundstrand Corporation	(51) F16B 7/18	(31) 102020129376
(72) Sawicki, Piotr	F16B 37/04	(32) 07.11.2020
Kozlowski, Piotr	F16B 41/00	(33) Germany
(51) F15B 15/20	F16B 37/12	(51) F16B 13/12
F15B 11/04	(11) EP3655667	E06B 1/60
F16K 27/02	(21) EP18745702.3	(11) EP3702629
(11) EP3284988	(47) 30.08.2023	(21) EP20158214.5
(21) EP17189398.5	(87) GB2018052013	(47) 30.08.2023
(47) 30.08.2023	24.01.2019	(22) 19.02.2020
(22) 13.09.2011	(22) 16.07.2018	(54) UNIVERSAL ASSEMBLY SET FOR
(54) ACTUATOR ASSEMBLY WITH	(54) CONNECTOR AND METHOD OF	MOUNTING A FRAME TO A BASE
VOLUMEN BOOSTER	ASSEMBLING A CONNECTOR	(73) Würth International AG
(73) Fisher Controls International LLC	(73) Tecna Display Limited	(72) Küenzlen, Jürgen
(72) STIEHL, Mark	(72) EVITT, Jonathan	Immel, Torsten
SCOTT, Gary, L.	(31) 201711796	Wied, Eberhard
JWANOUSKOS, Ryan, J.	(32) 21.07.2017	Wieland, Achim
JUNK, Kenneth, W.	(33) United Kingdom	(31) 102019105126
LOVELL, Michel, K	(51) F16B 12/12	(32) 28.02.2019
(31) 882549	A47B 47/04	(33) Germany
(32) 15.09.2010	B23C 1/08	(51) F16B 15/06
(33) United States of America	F16B 12/22	F16B 19/14
(51) F16B 2/10	F16B 21/09	(11) EP3899290
F16B 5/06	F16B 12/26	(21) EP19816616.7
F16B 7/04	B27M 3/18	(47) 30.08.2023
(11) EP3789620	(11) EP3830429	(87) EP2019083476
(21) EP20194181.2	(21) EP19844252.7	25.06.2020
(47) 30.08.2023	(47) 30.08.2023	(22) 03.12.2019
(22) 02.09.2020	(87) SE2019050646	(54) ATTACHMENT ELEMENT
(54) CLAMPING DEVICE	06.02.2020	(73) Hilti Aktiengesellschaft
(73) Purple Line Limited	(22) 01.07.2019	(72) BEAUVAIS, Simon
(72) HARRISON, Jonathan	(54) A CONNECTION ARRANGMENT	SCHULTE SUEDHOFF, Eric
HAWKINS, Ben	AND A METHOD OF PROVIDING A	HAAG, Stefan
(31) 201912582	FURNITURE PART WITH RECESSES	GUELTEKIN, Furkan
(32) 02.09.2019	(73) IKEA Supply AG	(31) 18214539
(33) United Kingdom	(72) CARLSSON, Mikael	(32) 20.12.2018
(51) F16B 5/02	(31) 1850950	(33) European Patent Office (EPO)
F16B 33/06	(32) 02.08.2018	(51) F16B 21/07
B29C 65/56	(33) Sweden	F16B 19/10
B29C 65/00	(51) F16B 12/26	(11) EP3824197
F16B 33/00	(11) EP3497339	(21) EP19790610.0
F16B 1/00	(21) EP17737569.8	(47) 30.08.2023
(11) EP3848593	(47) 30.08.2023	(87) FR2019051499
(21) EP21150204.2	(87) EP2017067311	23.01.2020
(47) 30.08.2023	15.02.2018	(22) 19.06.2019
(22) 05.01.2021	(22) 10.07.2017	(54) FIXING DEVICE FOR TWO FLAT
(54) CONDUCTIVELY COATED FASTENING	(54) SPRING DEVICE AND CONNECTING	ELEMENTS
SYSTEMS FOR FULL SIZE	DEVICE	(73) A. Raymond et Cie
DETERMINANT ASSEMBLY (FSDA)	(73) Haser, Franz Josef	(72) MOUILLON, Romain

DE MARCO, Sebastien	(32) 02.08.2019	(33) Japan
(31) 1856690	(33) Germany	(51) F16C 17/03
(32) 19.07.2018	(51) F16C 1/10	F16C 17/06
(33) France	G02B 7/00	F16C 17/26
(51) F16B 25/00	(11) EP3821144	(11) EP3999750
(11) EP3655669	(21) EP19745913.4	(21) EP20731465.9
(21) EP18740586.5	(47) 30.08.2023	(47) 30.08.2023
(47) 30.08.2023	(87) US2019041212	(87) EP2020065828
(87) EP2018069082	16.01.2020	21.01.2021
24.01.2019	(22) 10.07.2019	(22) 08.06.2020
(22) 13.07.2018	(54) ANGULAR MOTION TRANSFER	(54) TILTING-PAD BEARING
(54) WOOD SCREW	DRIVEN BY BALLS	(73) Robert Bosch GmbH
(73) SWG Schraubenwerk Gaisbach GmbH	(73) Northrop Grumman Systems Corporation	(72) SCHUELKE, Armin
(72) WIMMER, Alois	(72) WIBBY, Story, C.	(31) 102019210660
SÜPPLÉ, Tobias	(31) 201816034642	(32) 18.07.2019
(31) 102017212439	(32) 13.07.2018	(33) Germany
(32) 20.07.2017	(33) United States of America	(51) F16C 17/04
(33) Germany	(51) F16C 11/06	(11) EP3994367
(51) F16B 31/02	F16C 11/08	(21) EP19736647.9
H01R 4/36	(11) EP3771841	(47) 30.08.2023
F16B 1/00	(21) EP20185481.7	(87) EP2019067622
(11) EP3792509	(47) 30.08.2023	07.01.2021
(21) EP19306089.4	(22) 13.07.2020	(22) 01.07.2019
(47) 30.08.2023	(54) BALL JOINT AND BEARING FOR A	(54) COMPLIANT FOIL THRUST BEARING
(22) 10.09.2019	BALL JOINT	(73) Bladon Jets Holdings Limited
(54) TORQUE-LIMITING NUT FOR A	(73) THK Rhythm Automotive GmbH	(72) PYE, Stephen
BREAK-OFF BOLT	(72) Selvan Rajagopal, Tamil	NIMMA, Vasudeva
(73) Tyco Electronics SIMEL	Phiaphakdy-Nguyen, Vat	HEWARD, Phillip
(72) DOSSMANN, Julien	Vetten, Daniel	(51) F16C 17/22
(51) F16B 37/04	Paul, Alexander	F16C 33/10
F16B 37/06	(31) 202019104213 U	(11) EP4062077
(11) EP3919764	(32) 31.07.2019	(21) EP20780629.0
(21) EP20177709.1	(33) Germany	(47) 30.08.2023
(47) 30.08.2023	(51) F16C 13/00	(87) EP2020076563
(22) 01.06.2020	B41J 11/04	27.05.2021
(54) BUSHING ASSEMBLY	B41J 13/076	(22) 23.09.2020
(73) FCA Italy S.p.A.	B65H 3/06	(54) TILTING PAD BEARING
(72) GARIANO, Saverio	B65H 5/06	(73) Robert Bosch GmbH
VICARI, Marcello	B65H 27/00	(72) LANG, Thomas
IACOVANGELO, Danilo Raffaele	G03G 15/00	(31) 102019217696
(51) F16B 39/10	(11) EP3623653	(32) 18.11.2019
F16B 39/284	(21) EP19788735.9	(33) Germany
(11) EP4001676	(47) 30.08.2023	(51) F16C 19/28
(21) EP21208739.9	(87) JP2019016202	F16C 33/76
(47) 30.08.2023	24.10.2019	F16C 35/067
(22) 17.11.2021	(22) 15.04.2019	F01D 25/16
(54) BRAKING NUT AND ASSOCIATED	(54) ELASTIC ROLLER	F01D 25/26
ATTACHMENT	(73) Sanwa Techno Co., Ltd	F01D 25/18
(73) Lisi Aerospace	Risetec Co.,Ltd	F02C 7/06
(72) SOTOU-BERE, Batoubie	(72) SHOJI Susumu	(11) EP4015852
GOYER, Julien	FUKUI Kazuro	(21) EP21215567.5
(31) 2011880	(31) 2018080267	(47) 30.08.2023
(32) 19.11.2020	(32) 18.04.2018	(22) 17.12.2021
(33) France	(33) Japan	(54) BEARING HOUSING WITH SLIP JOINT
(51) F16B 39/14	(51) F16C 17/02	(73) Pratt & Whitney Canada Corp.
F16B 39/16	F16C 27/02	(72) LEFEBVRE, Guy
F16B 39/282	F16C 33/08	(31) 202017125147
(11) EP4007858	(11) EP3763955	(32) 17.12.2020
(21) EP20750633.8	(21) EP19763426.4	(33) United States of America
(47) 30.08.2023	(47) 30.08.2023	(51) F16C 19/30
(87) EP2020071558	(87) JP2019009066	F16C 19/54
11.02.2021	12.09.2019	(11) EP3914831
(22) 30.07.2020	(22) 07.03.2019	(21) EP20754461.0
(54) LOCKNUT	(54) RADIAL FOIL BEARING	(47) 30.08.2023
(73) SF Handels- und Besitzgesellschaft mbH	(73) IHI CORPORATION	(87) US2020043014
(72) FLAIG, Hartmut	(72) OMORI, Naomichi	24.06.2021
(31) 102019120894	(31) 2018041245	(22) 22.07.2020
	(32) 07.03.2018	

(54) STACKED THRUST TAPERED DISSIMILAR SERIES ROLLER BEARING	(47) 30.08.2023 (22) 12.03.2021 (54) FLUSHING OF A TOUCHDOWN BEARING	F16D 65/18 (11) EP3289237 (21) EP16720498.1 (47) 30.08.2023 (87) GB2016051188 03.11.2016 (22) 27.04.2016 (54) BRAKE CALIPER BODY AND METHOD OF MANUFACTURE OF A BRAKE CALIPER BODY
(73) The Timken Company (72) STANCIU, Daniel, F. CONSTANTIN, Florin, M. (31) 201962950458 P (32) 19.12.2019 (33) United States of America	(73) Carrier Corporation (72) SISHTLA, Vishnu M. (31) 202062989166 P (32) 13.03.2020 (33) United States of America	(73) Alcon Components Limited (72) HUMBLE, Richard SMITH, Andrew HODGKINS, Stephen (31) 201507130 (32) 27.04.2015 (33) United Kingdom
(51) F16C 29/06 F16C 33/58 (11) EP2653737 (21) EP13164335.5 (47) 30.08.2023 (22) 18.04.2013 (54) Bearing race with defined contact areas (73) Ewellix AB (72) Stahl, Erwin Mayer, Uwe Gransow, Anita Jeschka, Erwin Velde, Henryk (31) 202012101437 U 102012206373 (32) 18.04.2012 18.04.2012 (33) Germany Germany	(51) F16C 39/06 F16F 15/315 F16C 32/04 F16C 19/54 F16C 23/08 F16C 35/077 H02K 7/02 H02J 3/30 H02K 7/09 (11) EP2580489 (21) EP11791768.2 (47) 30.08.2023 (87) CA2011000641 15.12.2011 (22) 03.06.2011 (54) FLYWHEEL ENERGY SYSTEM (73) BC New Energy (Tianjin) Co., Ltd. (72) VELTRI, Jeffrey Allan (31) 352810 P (32) 08.06.2010 (33) United States of America	(51) F16D 55/2255 F16D 55/226 (11) EP3987195 (21) EP19734312.2 (47) 30.08.2023 (87) EP2019066186 24.12.2020 (22) 19.06.2019 (54) VEHICLE BRAKE, IN PARTICULAR A UTILITY VEHICLE COMPRESSED-AIR DISK BRAKE, AND PRESSURE PIECE FOR THE SAME (73) ZF CV Systems Europe BV (72) MITTENDORF, Roman-Marius SCHERER, Vitalij MOSER, Peter ENGLMEIER, Marco
(51) F16C 33/46 F16C 33/66 F16C 9/04 F16C 19/26 F16C 19/46 F16C 33/54 (11) EP3693626 (21) EP18859133.3 (47) 30.08.2023 (87) JP2018034781 28.03.2019 (22) 20.09.2018 (54) RETAINER FOR ROLLING BEARING (73) NTN Corporation (72) OHASHI, Izumi (31) 2017179655 (32) 20.09.2017 (33) Japan	(51) F16D 35/02 F16H 47/06 (11) EP3918220 (21) EP19913558.3 (47) 30.08.2023 (87) US2019067119 06.08.2020 (22) 18.12.2019 (54) PUMP AND WIPER ASSEMBLY, ASSOCIATED VISCOUS CLUTCH, AND ASSOCIATED METHOD (73) Horton, Inc. (72) HENNESSY, David R. (31) 201962799232 P (32) 31.01.2019 (33) United States of America	(51) F16D 57/02 B05B 3/00 (11) EP3379101 (21) EP17205513.9 (47) 30.08.2023 (22) 13.01.2016 (54) VISCOUS ROTATIONAL SPEED CONTROL DEVICE (73) Nelson Irrigation Corporation (72) NELSON, Craig B. GREENWOOD, Riley D. PERKINS, Lee A. SESSER, George L. (31) 201514986338 201514789415 201514699445 201562103168 P (32) 31.12.2015 01.07.2015 29.04.2015 14.01.2015 (33) United States of America United States of America United States of America United States of America
(51) F16C 33/60 F16C 19/16 F16C 33/38 F16C 33/52 (11) EP3947997 (21) EP20723976.5 (47) 30.08.2023 (87) DE2020100261 08.10.2020 (22) 30.03.2020 (54) CAGE-FREE ROLLING BEARING (73) Paul Müller GmbH & Co. KG Unternehmensbeteiligungen (72) FÖRTSCHBECK, Ewald (31) 202019101921 U (32) 03.04.2019 (33) Germany	(51) F16D 41/08 F16D 11/10 F16D 65/16 F16D 67/02 F16D 127/04 F16D 127/06 F16D 129/04 B60N 2/16 (11) EP3686452 (21) EP18859683.7 (47) 30.08.2023 (87) JP2018034842 28.03.2019 (22) 20.09.2018 (54) CLUTCH UNIT (73) NTN Corporation (72) WATANABE, Kengo (31) 2017180175 (32) 20.09.2017 (33) Japan	(51) F16D 65/00 F16D 65/02 (11) EP3317555 (21) EP16816870.6 (47) 30.08.2023 (87) AU2016050571 05.01.2017 (22) 30.06.2016
(51) F16C 33/66 F16C 39/02 F16C 32/04 (11) EP3892875 (21) EP21162336.8	(51) F16D 55/22 B22F 3/105	

(54) APPARATUS FOR USE IN SERVICING A HEAVY VEHICLE BRAKE ASSEMBLY	(54) PLANET CARRIER ASSEMBLY FOR VEHICLE DOOR CLOSING ACTUATOR	(22) 03.07.2015
(73) Truck & Bus Technology PTY Ltd	(73) Guangdong Zhaoqing L & V Co. Ltd	(54) DUAL-TYPE WAVE GEAR DEVICE
(72) JAMES, Allan Martin	(72) JIANG, Yuan	(73) Harmonic Drive Systems Inc.
(31) 2015902552	YANG, Qingchun	(72) KIYOSAWA, Yoshihide
(32) 30.06.2015	QIU, Xianghuai	HANDA, Jun
(33) Australia	GONG, Hongyu	TAKIZAWA, Noboru
(51) F16F 5/00	(31) 201820848658 U	ZHANG, Xin Yue
F16F 9/02	(32) 01.06.2018	(31) 2014149375
F16F 9/32	(33) China	(32) 23.07.2014
(11) EP4004398	(51) F16H 1/46	(33) Japan
(21) EP20760569.2	F16H 48/06	(51) F16H 57/021
(47) 30.08.2023	(11) EP3663609	B60G 21/055
(87) IT2020050183	(21) EP18865637.5	F16C 35/067
28.01.2021	(47) 30.08.2023	F16C 19/18
(22) 23.07.2020	(87) JP2018038207	F16C 35/06
(54) GAS SPRING	18.04.2019	(11) EP3814656
(73) CAPPELLER FUTURA SRL	(22) 12.10.2018	(21) EP19728413.6
(72) CAPPELLER, Alessandro	(54) DRIVE DEVICE FOR VEHICLE	(47) 30.08.2023
(31) 201900012786	(73) AISIN CORPORATION	(87) EP2019064288
(32) 24.07.2019	(72) KAWAGUCHI Yuki	02.01.2020
(33) Italy	ICHIOKA Mitsuhiro	(22) 03.06.2019
(51) F16G 5/08	SANJI Hiroaki	(54) ACTUATOR DEVICE FOR AN ADJUSTABLE ROLL STABILIZER OF A MOTOR VEHICLE
F16G 5/20	SUYAMA Daiki	(73) ZF Friedrichshafen AG
(11) EP3812612	(31) 2017199761	(72) RISSLING-STAUPEPENDAHL, Robert
(21) EP19827351.8	(32) 13.10.2017	GRAEULER, Dirk
(47) 30.08.2023	(33) Japan	(31) 102018210637
(87) JP2019021396	(51) F16H 3/72	(32) 28.06.2018
02.01.2020	H02K 49/00	(33) Germany
(22) 29.05.2019	(11) EP3482100	(51) F16H 57/025
(54) WRAPPED JOINED V-BELT	(21) EP17735170.7	B61F 5/00
(73) Mitsuboshi Belting Ltd.	(47) 30.08.2023	B61C 9/50
(72) NAKAOJI Yoshihito	(87) EP2017067132	(11) EP3973211
KIMURA Takeshi	11.01.2018	(21) EP20721439.6
(31) 2019092308	(22) 07.07.2017	(47) 30.08.2023
2018119730	(54) VARIABLE SPEED TRANSMISSION AND SYSTEM USING SAME	(87) EP2020059980
(32) 15.05.2019	(73) Nuovo Pignone Tecnologie - S.r.l.	26.11.2020
25.06.2018	(72) MILANI, Giuliano	(22) 08.04.2020
(33) Japan	BOCCADAMO, Gianluca	(54) ARRANGEMENT FOR SUPPORTING A TRANSMISSION ON A BOGIE
Japan	(31) 201600071646	(73) ZF Friedrichshafen AG
(51) F16G 15/02	(32) 08.07.2016	(72) HUPFAUER, Michael
F16G 13/14	(33) Italy	FREBEL, Bernd
F16G 15/04	(51) F16H 25/20	WIERUSZEWSKI, Phillip
(11) EP3964731	F16H 25/22	(31) 102019207396
(21) EP21188283.2	H02K 7/06	(32) 21.05.2019
(47) 30.08.2023	F16C 19/18	(33) Germany
(22) 28.07.2021	(11) EP3438504	(51) F16H 57/04
(54) SAFETY BOLT, CHAIN LOCK AND METHOD FOR SECURING A CHAIN LOCK	(21) EP17774576.7	F01D 25/18
(73) RUD Ketten Rieger & Dietz GmbH u. Co. KG	(47) 30.08.2023	F01D 15/12
(72) Kühling, Anne	(87) JP2017011441	F02C 7/36
Wesch, Rupert	05.10.2017	F02C 7/06
Buck, Clemens	(22) 22.03.2017	(11) EP3822515
Jaros, Julian	(54) ELECTRIC ACTUATOR	(21) EP20207399.5
(31) 102020121972	(73) NTN Corporation	(47) 30.08.2023
(32) 21.08.2020	(72) ISHIKAWA, Tomomi	(22) 13.11.2020
(33) Germany	MATSUTO, Takushi	(54) IMPELLER FOR A PLANET CARRIER OF A SPEED REDUCER WITH EPICYCLIC GEARSET OF A TURBOMACHINE
(51) F16H 1/32	HIRANO, Shinsuke	(73) Safran Transmission Systems
E05F 15/603	IKEDA, Atsushi	(72) CHARRIER, Mathieu Jean
(11) EP3816476	(31) 2016069065	DI GIOVANNI, Jean-Charles Michel
(21) EP19810748.4	(32) 30.03.2016	Pierre
(47) 30.08.2023	(33) Japan	RAPPAPORT, Florian
(87) CN2019083796	(51) F16H 49/00	PENNACINO, Antoine Jacques Marie
05.12.2019	(11) EP3173662	(31) 1912784
(22) 23.04.2019	(21) EP15825337.7	
	(47) 30.08.2023	
	(87) JP2015069247	
	28.01.2016	

(32) 15.11.2019	(54) MULTI-POSITION CRANKSHAFT LIP SEAL	(54) GATE VALVE WITH SLIDING GUIDE
(33) France		(73) VAT Holding AG
(51) F16H 61/06	(73) Powerhouse Engine Solutions	(72) NETZER, Martin
F16D 48/06	Switzerland IP Holding GmbH	(31) 102019001115
(11) EP2861886	(72) Roth, John Stephen	(32) 15.02.2019
(21) EP13813950.6	Mendoza, Michael	(33) Germany
(47) 30.08.2023	Namadev Kamble, Sandeep	(51) F16K 7/12
(87) US2013045322	Pethuraj, Kamala Hasan	F16K 37/00
09.01.2014	(31) 202063052824 P	(11) EP3851711
(22) 12.06.2013	(32) 16.07.2020	(21) EP21151970.7
(54) METHOD AND APPARATUS FOR CLUTCH PRESSURE CONTROL	(33) United States of America	(47) 30.08.2023
(73) Allison Transmission, Inc.	(51) F16J 15/34	(22) 18.01.2021
(72) WEBER, Darren J.	(11) EP3627013	(54) METHOD FOR MONITORING MEMBRANE VALVES
WILSON, Thomas H.	(21) EP19198453.3	(73) SISTO Armaturen S.A.
BROWN, Travis A.	(47) 30.08.2023	(72) SICHWARDT, Paul
LONG, Charles F.	(22) 19.09.2019	HACKENBERGER, Bernd
(31) 201213495443	(54) LOW FRICTION CARBON - CARBON SEAL ASSEMBLY	SCHAAL, Andreas
(32) 13.06.2012	(73) Raytheon Technologies Corporation	BRUECKER, Rainer
(33) United States of America	(72) STOYANOV, Pantcho P.	HESS, Timo
(51) F16H 61/4139	(31) 201862733598 P	(31) 102020101174
(11) EP3824205	(32) 19.09.2018	(32) 20.01.2020
(21) EP19748590.7	(33) United States of America	(33) Germany
(47) 30.08.2023	(51) F16K 1/42	(51) F16K 11/085
(87) FR2019051737	F16K 3/26	B60L 1/02
23.01.2020	F16K 3/24	H01M 10/625
(22) 10.07.2019	F16K 47/08	H01M 10/6568
(54) HYDRAULIC ASSISTANCE CIRCUIT COMPRISING IMPROVED FEEDING MEANS	F16K 1/46	(11) EP3384187
(73) Poclair Hydraulics Industrie	(11) EP3431841	(21) EP16871471.5
(72) DEPIERRE, Géry	(21) EP18184253.5	(47) 30.08.2023
HASENAU, Johannes	(47) 30.08.2023	(87) US2016064340
SCHUBERT, Christian	(22) 18.07.2018	08.06.2017
(31) 1856552	(54) VALVE COMPONENT ARRANGEMENT AND CONTROL VALVE HAVING A VALVE COMPONENT ARRANGEMENT	(22) 01.12.2016
(32) 16.07.2018	(73) Samson Aktiengesellschaft	(54) MULTI-PORT VALVE WITH MULTIPLE OPERATION MODES
(33) France	(72) Sander, Andreas	(73) Tesla, Inc.
(51) F16J 15/06	(31) 202017104280 U	(72) KOPITZ, Jan
F16L 11/12	(32) 19.07.2017	MARDALL, Joseph Stratford Maxwell
G01N 23/10	(33) Germany	ROCHE, Nicholas Albert
C08K 3/08	(51) F16K 3/08	O'DONNELL, Curt Raymond
(11) EP3701172	(11) EP2454505	(31) 201615365781
(21) EP18768851.0	(21) EP10732819.7	201562261804 P
(47) 30.08.2023	(47) 30.08.2023	(32) 30.11.2016
(87) EP2018074240	(87) US2010041612	01.12.2015
02.05.2019	20.01.2011	(33) United States of America
(22) 10.09.2018	(22) 09.07.2010	United States of America
(54) FLEXIBLE TUBE HAVING A DETECTABLE LAYER	(54) ROTARY SHEAR VALVE ASSEMBLY WITH HARD-ON-HARD SEAL SURFACES	(51) F16K 11/087
(73) ContiTech Schlauch GmbH	(73) Idex Health&Science LLC	F01P 7/14
(72) BORVITZ, Dieter	(72) TOWER, Christopher R.	F16K 11/16
ONKEN, Kristian	(31) 328594 P	F16K 27/06
(31) 102018214615	301516 P	F16K 31/524
102017219337	225143 P	F16K 31/528
(32) 29.08.2018	(32) 27.04.2010	F16K 31/53
27.10.2017	04.02.2010	(11) EP3680525
(33) Germany	13.07.2009	(21) EP20151521.0
Germany	(33) United States of America	(47) 30.08.2023
(51) F16J 15/3232	United States of America	(22) 13.01.2020
F16J 15/3228	United States of America	(54) ADJUSTABLE VALVE
F16J 15/3244	United States of America	(73) Illinois Tool Works, Inc.
F16J 15/3268	(51) F16K 3/316	(72) HENKER, Michael
F16J 15/3204	(11) EP3924650	MA, Yue
F16M 1/021	(21) EP20705339.8	ZHENG, Ziteng
(11) EP3940267	(47) 30.08.2023	FENG, Sheng
(21) EP21165727.5	(87) EP2020053596	(31) 202010018387
(47) 30.08.2023	20.08.2020	201910033574
(22) 29.03.2021	(22) 12.02.2020	(32) 08.01.2020
		14.01.2019
		(33) China

China	02.05.2019	B65H 75/42
(51) F16K 11/087	(22) 28.09.2018	F16L 1/19
F16K 5/06	(54) ELECTRICALLY OPERATED VALVE	F16L 1/20
F01P 7/14	(73) Zhejiang Sanhua Climate and Appliance Controls Group Co. Ltd.	(11) EP4004417
F16K 5/20	(72) LV, Ming	(21) EP20761517.0
(11) EP3775638	ZHI, Jiancheng	(47) 30.08.2023
(21) EP19716882.6	YANG, Damai	(87) EP2020071016
(47) 30.08.2023	(31) 201711025591	04.02.2021
(87) EP2019058760	(32) 27.10.2017	(22) 24.07.2020
17.10.2019	(33) China	(54) MARINE REEL-LAY PIPELAYING VESSEL
(22) 08.04.2019	(51) F16K 31/52	(73) Itrec B.V.
(54) SEAL ASSEMBLY AND FLUID VALVE	F16K 31/524	(72) VEHEIJER, Terence Willem August
(73) Vitesco Technologies GmbH	F16L 37/44	DONKERS, Jeroen Adrianus Joseph
(72) YAN, Chunxiao	F16L 37/56	(31) 2025059
(31) 102018205557	F16K 11/18	2024021
(32) 12.04.2018	F16L 37/30	2023579
(33) Germany	F16L 37/38	(32) 05.03.2020
(51) F16K 15/14	(11) EP3473906	15.10.2019
A61C 17/02	(21) EP17197329.0	26.07.2019
F16K 17/02	(47) 30.08.2023	(33) Netherlands
F16K 24/06	(22) 19.10.2017	Netherlands
(11) EP3683477	(54) HYDRAULIC AND/OR PNEUMATIC MULTI-COUPLING CONNECTOR WITH LEVER ACTUATED MECHANISM	Netherlands
(21) EP20174957.9	(73) FASTER S.r.l.	(51) F16L 3/10
(47) 30.08.2023	(72) CANZI, Luigi	F16L 3/11
(22) 15.05.2020	(51) F16K 51/02	F16L 55/035
(54) CHECK VALVE, CONTAINER AND ORAL IRRIGATOR	H01L 21/677	F16L 3/12
(73) Freeman Intelligent Power Inc.	H01J 37/32	(11) EP3865749
(72) HUANG, Ziaoyue	F16K 3/02	(21) EP20157545.3
(51) F16K 27/12	H01L 21/67	(47) 30.08.2023
F16K 3/26	C23C 16/455	(22) 16.02.2020
F16K 7/17	C23C 16/44	(54) PIPE CLIP
F16K 37/00	(11) EP3937219	(73) Zurecon AG
F16K 31/50	(21) EP20184139.2	(72) PFLUGER, Gerd
(11) EP3652473	(47) 30.08.2023	(51) F16L 5/00
(21) EP18745667.8	(22) 06.07.2020	E04G 21/18
(47) 30.08.2023	(54) METHOD FOR GENERATING A GAS CURTAIN FROM PURGE GAS IN A SLIT VALVE TUNNEL AND SLIT VALVE TUNNEL	F16L 23/08
(87) GB2018051958	(73) Siltronic AG	(11) EP3685083
17.01.2019	(72) Feldmann, Marco	(21) EP18797097.5
(22) 10.07.2018	Moos, Patrick	(47) 30.08.2023
(54) AUTOMATIC SHUT OFF VALVE	(51) F16L 1/12	(87) IB2018057081
(73) Surestop Ltd.	F16L 1/23	21.03.2019
(72) LOVE, Carl	B63B 35/03	(22) 14.09.2018
(31) 201711307	B66D 1/50	(54) PUDDLE FLANGE
(32) 13.07.2017	(11) EP3215774	(73) FUCOLI-SOMEPAI FUNDIÇÃO DE FERRO, S.A.
(33) United Kingdom	(21) EP15856930.1	(72) CRAVINHO SANTOS, Bruno Ricardo
(51) F16K 31/122	(47) 30.08.2023	(31) 2017110289
F16K 1/12	(87) US2015058549	(32) 14.09.2017
F16K 15/02	12.05.2016	(33) Portugal
(11) EP3537018	(22) 02.11.2015	(51) F16L 9/10
(21) EP19150586.6	(54) METHOD FOR AUTOMATICALLY MEASURING TIMES OF VARIOUS OPERATIONS IN FLOATING VESSEL PIPE DEPLOYMENT	F16L 9/18
(47) 30.08.2023	(73) Tde Petroleum Data Solutions, Inc.	F16L 53/37
(22) 07.01.2019	(72) ZOELLNER, Philipp	F16L 53/38
(54) INLINE AIR VALVE NOSE CAP FOR REDUCED CONTAMINATION	MAIDLA, William, R.	(11) EP3835639
(73) Hamilton Sundstrand Corporation	KANEMATSU, Arthur, H.F.	(21) EP20211216.5
(72) DeFelice, Robert	(31) 201414533127	(47) 30.08.2023
(31) 201815913005	(32) 05.11.2014	(22) 02.12.2020
(32) 06.03.2018	(33) United States of America	(54) GAS-TIGHT, HEAT PERMEABLE, CERAMIC AND MULTILAYER COMPOSITE PIPE
(33) United States of America	(51) F16L 1/16	(73) BASF SE
(51) F16K 31/50	B63B 35/03	(72) Kern, Matthias
F16K 1/42		Scheiff, Frederik
F16K 27/02		Kolios, Grigorios
(11) EP3702649		Zoels, Bernd
(21) EP18869836.9		Laib, Heinrich
(47) 30.08.2023		(31) 19215608
(87) CN2018108293		

(32) 12.12.2019	(22) 30.07.2018	(33) Italy
(33) European Patent Office (EPO)	(54) TUBE WITH REINFORCEMENT LAYER	(51) F16L 37/00
(51) F16L 9/12	(73) Exel Industries	F17C 13/04
F16L 9/16	(72) LORD, David	F16L 37/32
F16L 58/10	IACIOFANO, Nick	F16L 37/23
F16L 58/16	(31) 1757308	(11) EP3831500
B29C 65/00	(32) 31.07.2017	(21) EP20208047.9
B29C 63/10	(33) France	(47) 30.08.2023
F16L 11/08	(51) F16L 21/00	(22) 17.11.2020
(11) EP3931478	F16L 21/06	(54) DOCKING DEVICE, DOSING DEVICE
(21) EP20703302.8	F16B 2/10	AND CONTAINER
(47) 30.08.2023	(11) EP3638938	(73) Volkmann GmbH
(87) IB2020050830	(21) EP18760008.5	(72) SÜMMERMANN, Konrad
06.08.2020	(47) 30.08.2023	(31) 202019004683 U
(22) 03.02.2020	(87) IB2018055342	(32) 19.11.2019
(54) METHOD OF PROVIDING	07.02.2019	(33) Germany
REINFORCED PLASTIC PIPES AND	(22) 18.07.2018	(51) F16L 53/30
RESULTING PRODUCTS	(54) CLAMPING RING WITH CONNECTING	F16L 53/32
(73) IFLEX LIMITED W.L.L.	STRUCTURE	F16L 9/18
(72) NEWBERT, John Joseph	(73) KRAUSZ INDUSTRIES LTD.	B64D 37/32
ALMEKHLAFI, Omar	(72) CHIPROOT, Avi	F02M 31/125
(31) 2022499	(31) 201715663767	F16L 55/027
(32) 01.02.2019	(32) 30.07.2017	F28F 1/36
(33) Netherlands	(33) United States of America	F28D 7/10
(51) F16L 11/08	(51) F16L 21/00	(11) EP3594550
F16L 11/16	F16L 21/06	(21) EP19185509.7
(11) EP3987208	F16L 21/08	(47) 30.08.2023
(21) EP20733802.1	(11) EP3857108	(22) 10.07.2019
(47) 30.08.2023	(21) EP19778613.0	(54) HEATED PIPE FOR LIQUID FLOWS
(87) EP2020067128	(47) 30.08.2023	(73) Hamilton Sundstrand Corporation
24.12.2020	(87) GB2019052655	(72) MEZZINO, Giacomo
(22) 19.06.2020	02.04.2020	RHODEN, William E.
(54) FLEXIBLE PIPE FOR TRANSPORTING	(22) 20.09.2019	SALVATORIELLO, Gianfranco
FLUID, COMPRISING A HELICAL	(54) PIPE COUPLING WITH IMPROVED	(31) 201816031573
INSERT, AND ASSOCIATED METHOD	TENSIONING SYSTEM	(32) 10.07.2018
(73) TechnipFMC Subsea France	(73) Taylor Kerr (Couplings) Limited	(33) United States of America
(72) PHELUT, Renaud	(72) WEBB, Ian Richard	(51) F16L 55/48
(31) 1906720	(31) 201815542	F16L 55/32
(32) 21.06.2019	(32) 24.09.2018	F16L 55/38
(33) France	(33) United Kingdom	F16L 55/40
(51) F16L 11/08	(51) F16L 21/03	F16L 55/128
F16L 33/01	F16L 51/00	B60L 7/00
(11) EP4013984	(11) EP3940281	F16L 55/18
(21) EP20754251.5	(21) EP21172807.6	F16L 55/44
(47) 30.08.2023	(47) 30.08.2023	B60L 53/00
(87) EP2020072452	(22) 07.05.2021	G01C 21/00
18.02.2021	(54) PIPE SLEEVE	G01L 19/00
(22) 11.08.2020	(73) Poloplast GmbH & Co. KG	F16L 101/30
(54) CONNECTION TIP FOR A FLEXIBLE	(72) MAYRBÄURL, Erwin	F16L 101/60
PIPE, ASSOCIATED FLEXIBLE PIPE	HEINDL, Andreas	B23K 37/02
AND MOUNTING METHOD	(31) 102020119002	B60L 7/10
(73) TechnipFMC Subsea France	(32) 17.07.2020	B60L 50/30
(72) MIYAZAKI, Marcelo, Noboro, Ralim	(33) Germany	B60L 50/60
COELHO MEDEIROS, Filipe	(51) F16L 33/12	B60L 50/90
BROCHADO DOS REIS, Felipe	G01N 3/12	B23K 101/06
PACHECO STIKAN, Rafael	G01M 3/32	B23K 101/10
(31) 1909156	(11) EP3995729	(11) EP3877690
(32) 12.08.2019	(21) EP21206232.7	(21) EP19817393.2
(33) France	(47) 30.08.2023	(47) 30.08.2023
(51) F16L 11/12	(22) 03.11.2021	(87) FR2019052626
D03D 1/00	(54) SUPPORT AND CONNECTION	14.05.2020
D03D 3/02	STRUCTURE FOR A TANK AND	(22) 06.11.2019
D03D 15/56	HYDROSTATIC ACCEPTANCE	(54) TOOL WITH MOTORIZED ROLLERS,
(11) EP3662186	SYSTEM	FOR INTERVENTION ON THE WALL
(21) EP18745950.8	(73) Aumatech S.r.l.	OF A FLUID CONDUIT
(47) 30.08.2023	(72) MONACO, Marco	(73) GRTgaz
(87) EP2018070560	(31) 202000026717	(72) BONNAUDET, Melissandre
07.02.2019	(32) 09.11.2020	COURTALON, Eric

ACKER, Benoit	(11) EP3919804	F21V 13/14
LECCHI, Maxime	(21) EP20178480.8	F21W 121/00
FERNANDEZ, Charles	(47) 30.08.2023	F21Y 115/30
(31) 1860216	(22) 05.06.2020	(11) EP4040039
(32) 06.11.2018	(54) HIGH PRESSURE VESSEL	(21) EP22152124.8
(33) France	(73) Magna Energy Storage Systems	(47) 30.08.2023
(51) F16L 57/00	GesmbH	(22) 18.01.2022
F16L 55/00	(72) PUNTIGAM, David	(54) LAMP FOR PROJECTING STARS AND
B64D 37/00	PREITLER, Andreas	METHOD FOR PRODUCING NEBULA
F16L 9/18	PUCHLEITNER, Rainer	THEREOF
F16L 39/00	(51) F21K 9/232	(73) Lonvis Technology (Shenzhen) Co., Ltd.
F16L 9/12	F21S 4/22	(72) LI, Xuequan
(11) EP3587889	F21Y 103/10	(31) 202110156576
(21) EP18275088.5	F21Y 105/12	(32) 04.02.2021
(47) 30.08.2023	F21Y 107/70	(33) China
(22) 22.06.2018	F21Y 113/10	(51) F21S 41/143
(54) COMPOSITE PIPE ASSEMBLY	F21Y 115/10	F21S 41/151
(73) Crompton Technology Group Limited	F21Y 107/90	F21S 41/153
(72) FAULKNER, Dale	(11) EP4146979	F21S 41/265
(51) F16M 13/02	(21) EP21722466.6	F21S 41/663
F16M 11/04	(47) 30.08.2023	F21S 41/20
(11) EP3715697	(87) EP2021061423	F21W 102/165
(21) EP20166529.6	11.11.2021	(11) EP3699486
(47) 30.08.2023	(22) 30.04.2021	(21) EP20159053.6
(22) 28.03.2020	(54) AN LED FILAMENT AND A LAMP	(47) 30.08.2023
(54) BRACKET ASSEMBLY AND METHOD	(73) Signify Holding B.V.	(22) 24.02.2020
FOR MOUNTING ELECTRICAL	(72) HIKMET, Rifat, Ata, Mustafa	(54) HEADLAMP COMPRISING A
EQUIPMENT IN BETWEEN A MONITOR	VAN BOMMEL, Ties	PLURALITY OF SEMICONDUCTOR
AND A SUPPORTING STRUCTURE	(31) 20173386	LIGHT SOURCES AND A ONE-PIECE
(73) KARL STORZ SE & Co. KG	(32) 07.05.2020	PRIMARY OPTICAL FIELD
(72) Whitehurst, Thomas	(33) European Patent Office (EPO)	(73) Marelli Automotive Lighting Reutlingen
Bullock, Mitchell D.	(51) F21K 9/233	(Germany) GmbH
(31) 201916367926	F21K 9/238	(72) Kiesel, Markus
(32) 28.03.2019	F21V 23/04	Vogt, Henning
(33) United States of America	F21V 29/70	Rudolf, Philip
(51) F17C 6/00	F21Y 115/10	Wiedmaier, Dominik
F17C 9/00	(11) EP3943803	(31) 102019104722
F17C 13/02	(21) EP21186713.0	(32) 25.02.2019
(11) EP3987216	(47) 30.08.2023	(33) Germany
(21) EP20785771.5	(22) 20.07.2021	(51) F21S 41/143
(47) 30.08.2023	(54) LIGHTING APPARATUS	F21S 41/255
(87) FR2020051052	(73) Leedarson Lighting Co., Ltd.	F21S 41/24
24.12.2020	(72) ZOU, Renhua	F21S 41/43
(22) 17.06.2020	LIN, Youqin	F21S 41/32
(54) DEVICE FOR TRANSFERRING A	ZHAO, Fanglei	F21S 41/663
FLUID FROM A SUPPLY TANK TO A	WU, Zhixian	F21S 41/365
RECEIVER TANK	WANG, Yun	F21S 41/39
(73) Gaztransport et Technigaz	(31) 202021433496 U	F21S 41/20
(72) BOUVIER, Arnaud	(32) 20.07.2020	(11) EP3612766
GOSSET, Maxime	(33) China	(21) EP18720546.3
(31) 1906697	(51) F21S 8/08	(47) 30.08.2023
(32) 21.06.2019	(11) EP3305034	(87) EP2018059884
(33) France	(21) EP16728894.3	25.10.2018
(51) F17C 13/04	(47) 30.08.2023	(22) 18.04.2018
(11) EP3660381	(87) EP2016062654	(54) HEADLIGHT SYSTEM FOR A VEHICLE
(21) EP19210220.0	08.12.2016	(73) Lumileds LLC
(47) 30.08.2023	(22) 03.06.2016	(72) WU, Ping
(22) 28.10.2015	(54) IMPROVEMENTS IN OR RELATING TO	LU, Kang
(54) FITTING FOR LIQUEFIED GAS	LUMINAIRES	FENG, Huayun
BOTTLES AND FILLING METHOD	(73) Schreder	LU, Yiwen
(73) CleanTech Swiss AG	(72) PAPOULAR, André	HAN, Meng
(72) Tilhof, Eckhard	(31) 201505349	(31) PCT/CN2017/110464
(31) 14192891	(32) 05.06.2015	PCT/CN2017/081053
(32) 12.11.2014	(33) Belgium	17171367
(33) European Patent Office (EPO)	(51) F21S 10/00	(32) 10.11.2017
(51) F17C 13/04	F21V 5/00	19.04.2017
F17C 1/06	F21V 7/05	16.05.2017
	F21V 9/00	(33) World Intellectual Property Office (WIPO)

World Intellectual Property Office (WIPO)	(22) 08.05.2020	(47) 30.08.2023
European Patent Office (EPO)	(54) MOTOR VEHICLE LIGHTING DEVICE,	(22) 26.07.2019
(51) F21S 41/19	METHOD FOR OPERATING A MOTOR	(54) AN IMPROVED SECTION BAR
H05K 1/02	VEHICLE LIGHTING DEVICE, AND	(73) Teleco Automation S.R.L.
H05K 1/11	CONTROL UNIT	(72) BORSOI, Luigi
B60Q 1/00	(73) Marelli Automotive Lighting Reutlingen	COLLOVINI, Roberto
H01L 33/62	(Germany) GmbH	(31) 201800007711
F21V 23/00	(72) Vogt, Henning	(32) 31.07.2018
H01R 43/16	Foster, Henry	(33) Italy
H05K 3/20	Breitenbach, Uwe	(51) F21V 17/16
H01L 33/48	(31) 102019114516	F21V 19/00
(11) EP3253620	(32) 29.05.2019	F16B 13/00
(21) EP16706985.5	(33) Germany	F16B 5/06
(47) 30.08.2023	(51) F21V 8/00	F21V 3/00
(87) EP2016052570	G02B 6/26	F21Y 103/10
11.08.2016	G02B 26/00	F21Y 115/10
(22) 05.02.2016	G02B 26/08	(11) EP3922909
(54) DEVICE FOR CONNECTING A LIGHT	G02B 27/00	(21) EP21187742.8
SOURCE TO AN ELECTRICAL POWER	G02B 27/01	(47) 30.08.2023
SUPPLY DEVICE	G02B 5/00	(22) 22.07.2014
(73) Valeo Vision	G02B 27/42	(54) LED ASSEMBLY WITH HOLD-DOWN
(72) ZOJCESKI, Zdravko	G02B 6/293	DEVICES
DUARTE, Marc	G02B 6/34	(73) Trilux GmbH & Co. KG
(31) 1550887	(11) EP3688371	(72) Decker, Frank
(32) 05.02.2015	(21) EP18863754.0	Drees, Frank
(33) France	(47) 30.08.2023	Goeke, Thomas
(51) F21S 41/27	(87) US2018053172	(31) 202014100922 U
F21S 41/32	04.04.2019	102013214620
F21S 41/63	(22) 27.09.2018	(32) 28.02.2014
F21S 41/657	(54) METHODS AND APPARATUSES FOR	26.07.2013
F21S 41/675	REDUCING STRAY LIGHT EMISSION	(33) Germany
F21V 14/04	FROM AN EYEPIECE OF AN OPTICAL	Germany
F21V 14/06	IMAGING SYSTEM	(51) F21V 33/00
F21S 41/26	(73) Magic Leap, Inc.	F21V 21/30
F21S 41/148	(72) YARAS, Fahri	A61G 13/10
F21V 5/04	LIU, VictorKai	A61G 15/10
F21V 7/04	SINGH, Vikramjit	F21Y 115/10
(11) EP2853804	BROWY, Eric C.	F21W 131/202
(21) EP14187197.0	SAWICKI, Joseph Christopher	F21W 131/205
(47) 30.08.2023	BHARGAVA, Samarth	(11) EP3821170
(22) 30.09.2014	VAUGHN, Michal Beau Dennison	(21) EP19761962.0
(54) LIGHTING AND/OR SIGNALLING	(31) 201762564528 P	(47) 30.08.2023
MODULE WITH A PLURALITY OF	(32) 28.09.2017	(87) IB2019056027
ROTARY OPTICAL SYSTEMS	(33) United States of America	16.01.2020
(73) VALEO VISION	(51) F21V 15/00	(22) 15.07.2019
(72) Godbillon, Vincent	G01R 19/17	(54) VENTILATING LAMP
Meyrenaud, Jean-Luc	F21W 131/103	(73) Musco, Carmelo
Puente, Jean-Claude	(11) EP4015901	(72) Musco, Carmelo
(31) 1359459	(21) EP21214758.1	(31) 201900006984
(32) 30.09.2013	(47) 30.08.2023	201800007200
(33) France	(22) 15.12.2021	(32) 17.05.2019
(51) F21S 41/64	(54) POWER SUPPLY MODULE FOR A	13.07.2018
G02F 1/1343	PUBLIC LIGHTING INSTALLATION,	(33) Italy
(11) EP3599417	LAMP COMPRISING SUCH A	Italy
(21) EP19188056.6	POWER SUPPLY MODULE AND	(51) F23B 50/12
(47) 30.08.2023	PUBLIC LIGHTING INSTALLATION	F23B 20/00
(22) 24.07.2019	COMPRISING AT LEAST ONE SUCH	F23B 60/02
(54) VEHICULAR LAMP	LAMP	F24B 5/02
(73) STANLEY ELECTRIC CO., LTD.	(73) Lacroix Group	F23L 1/00
(72) TOKO, Yasuo	(72) HUOT, Laurent	F23L 9/02
(31) 2018138259	GRELOT, David	F23L 9/04
(32) 24.07.2018	(31) 2013380	F24H 3/00
(33) Japan	(32) 16.12.2020	F24H 9/00
(51) F21S 45/60	(33) France	(11) EP3948075
F21S 41/13	(51) F21V 15/01	(21) EP20720744.0
(11) EP3745019	F21S 4/28	(47) 30.08.2023
(21) EP20173635.2	(11) EP3604912	(87) EP2020059531
(47) 30.08.2023	(21) EP19188653.0	08.10.2020

(22) 03.04.2020	(32) 07.08.2019	(47) 30.08.2023
(54) COMBUSTION HEATER FOR PREVENTING SPRING FROST OR ANY OTHER THREAT TO VINEYARDS, ORCHARDS AND CROPS	(33) Japan	(22) 15.07.2021
(73) Gros, Claude	(51) F23N 5/12	(54) ASSEMBLY FOR A GAS TURBINE ENGINE WITH DEFLECTOR FOR CONDUIT INLET WITHIN A COMBUSTOR SECTION PLENUM
(72) Gros, Claude	(11) EP3726140	(73) Raytheon Technologies Corporation
(31) 1911395	(21) EP20382300.0	(72) LUNDGREEN, Ryan
1903622	(47) 30.08.2023	PRENTER, Robin
(32) 14.10.2019	(22) 15.04.2020	(31) 202016929673
04.04.2019	(54) GAS COOKING APPLIANCE AND ASSOCIATED METHOD	(32) 15.07.2020
(33) France	(73) Copreci, S.Coop.	(33) United States of America
France	(72) QUEREJETA ANDUEZA, Félix	(51) F23R 3/28
(51) F23D 1/00	ZABALO BAYON, Aitor	(11) EP3748231
(11) EP3318801	(31) 201916703587	(21) EP19178465.1
(21) EP16817783.0	19382303	(47) 30.08.2023
(47) 30.08.2023	(32) 04.12.2019	(22) 05.06.2019
(87) JP2016068469	17.04.2019	(54) BURNER AND BURNER TIP
05.01.2017	(33) United States of America	(73) Siemens Energy Global GmbH & Co. KG
(22) 22.06.2016	European Patent Office (EPO)	(72) Jokisch, Torsten
(54) SOLID FUEL BURNER	(51) F23N 5/12	Kleinfeld, Jens
(73) Mitsubishi Heavy Industries, Ltd.	F23N 5/24	Eriksson, Jonas
(72) TANIGUCHI, Masayuki	(11) EP3985308	(51) F23R 3/34
BABA, Akira	(21) EP21195889.7	F23R 3/50
ISHII, Shota	(47) 30.08.2023	(11) EP4004443
KURAMASHI, Koji	(22) 10.09.2021	(21) EP20756920.3
(31) 2015131146	(54) FLAME AMPLIFIER FOR FLAME MONITORING AND ASSOCIATED METHOD	(47) 30.08.2023
(32) 30.06.2015	(73) ebm-papst Landshut GmbH	(87) FR2020051369
(33) Japan	(72) Kleine, Volker	04.02.2021
(51) F23D 14/84	(31) 102020126788	(22) 27.07.2020
F23D 14/58	(32) 13.10.2020	(54) COMBUSTION CHAMBER COMPRISING SECONDARY INJECTION SYSTEMS, AND FUEL SUPPLY METHOD
C21B 11/00	(33) Germany	(73) SAFRAN AIRCRAFT ENGINES
F23L 7/00	(51) F23R 3/00	(72) CABRE, Jean-François
F23D 14/56	F01D 9/02	LUNEL, Romain, Nicolas
F23D 14/22	F23R 3/50	MUSAEFENDIC, Haris
C21C 5/46	F23R 3/60	LEPAROUX, Julien, Marc, Matthieu
C21C 5/52	(11) EP4010632	(31) 1908618
F27D 99/00	(21) EP20789517.8	(32) 29.07.2019
(11) EP3677832	(47) 30.08.2023	(33) France
(21) EP18851710.6	(87) EP2020077649	(51) F24C 3/12
(47) 30.08.2023	17.06.2021	G05G 25/04
(87) JP2018028072	(22) 02.10.2020	G05G 1/08
07.03.2019	(54) COMBUSTION CHAMBER FOR A GAS TURBINE WITH WALL COOLING	(11) EP3933272
(22) 26.07.2018	(73) Siemens Energy Global GmbH & Co. KG	(21) EP21179556.2
(54) OXYGEN-ENRICHED BURNER AND HEATING METHOD USING OXYGEN-ENRICHED BURNER	(72) SUNDHOLM, Magnus	(47) 30.08.2023
(73) Taiyo Nippon Sanso Corporation	LOERSTAD, Daniel	(22) 15.06.2021
(72) SAITO, Takeshi	LARSSON, David	(54) GAS STOVE
SEINO, Naoki	SVANSTROEM, Simon	(73) BSH Hausgeräte GmbH
HAGIHARA, Yoshiyuki	RUBENSDOERFFER, Frank	(72) Ruiloba Franco, Manuel Alejandro
YAMAMOTO, Yasuyuki	(31) 19214894	Cabarga Herrera, Alejandro
YAMAGUCHI, Masashi	(32) 10.12.2019	Carballo Fernandez, Roberto
(31) 2017165631	(33) European Patent Office (EPO)	Martinez Diez, Alvaro
(32) 30.08.2017	(51) F23R 3/00	(31) 20382578
(33) Japan	F23M 20/00	(32) 30.06.2020
(51) F23N 1/02	(11) EP3974723	(33) European Patent Office (EPO)
F23N 5/12	(21) EP20197905.1	(51) F24C 7/08
(11) EP3772614	(47) 30.08.2023	F24C 15/04
(21) EP20185491.6	(22) 23.09.2020	(11) EP3586064
(47) 30.08.2023	(54) GAS TURBINE FOR POWER PLANT COMPRISING A DAMPING DEVICE	(21) EP18705862.3
(22) 13.07.2020	(73) Ansaldo Energia Switzerland AG	(47) 30.08.2023
(54) PREMIXING APPARATUS	(72) MAURER, Michael Thomas	(87) EP2018053277
(73) Rinnai Corporation	BOUDY, Frédéric	30.08.2018
(72) TAKEUCHI, Masura	(51) F23R 3/06	(22) 09.02.2018
YOSHIMURA, Kimihiro	(11) EP3940295	(54) COOKING DEVICE COMPRISING A REMOVABLE SENSOR MODULE
NORITAKE, Katsuya	(21) EP21185949.1	
(31) 2019145279		

(73) BSH Hausgeräte GmbH	(31) 102018108562	(21) EP19798156.6
(72) HIMMEL, Arnulf	(32) 11.04.2018	(47) 30.08.2023
NEUMAYER, Dan	(33) Germany	(87) CN2019112430
ERBE, Sebastian	(51) F24D 19/10	06.08.2020
(31) 102017202773	F24D 3/10	(22) 22.10.2019
(32) 21.02.2017	F24H 3/04	(54) AIR-CONDITIONER INDOOR UNIT AND
(33) Germany	(11) EP4058737	AIR CONDITIONER
(51) F24C 15/02	(21) EP20803825.7	(73) GD Midea Air-Conditioning Equipment
F24C 7/08	(47) 30.08.2023	Co., Ltd.
A21B 3/02	(87) EP2020081495	Midea Group Co., Ltd.
(11) EP3775697	20.05.2021	(72) LIU, Xing
(21) EP19716182.1	(22) 09.11.2020	SUN, Zecheng
(47) 30.08.2023	(54) WATER HEATER ARRANGEMENT	LU, Gen
(87) EP2019059386	COMPRISING A VALVE ASSEMBLY	PI, Shuyang
17.10.2019	(73) Braathen, Thor Froelich	(31) 201920321931 U
(22) 12.04.2019	(72) Braathen, Thor Froelich	201920179237 U
(54) AUTOMATIC DOOR FOR A DOMESTIC	(31) 20191353	201910100987
APPLIANCE	(32) 14.11.2019	(32) 13.03.2019
(73) ELECTROLUX APPLIANCES	(33) Norway	31.01.2019
AKTIEBOLAG	(51) F24F 1/00	31.01.2019
(72) IVANOVIC, Branko	F24F 13/14	(33) China
SCHMIDT, Rudolf	F24F 1/0007	China
HILDNER, Dietmar	F24F 13/22	China
(31) 18167054	(11) EP3604936	(51) F24F 1/03
(32) 12.04.2018	(21) EP18856323.3	F24F 13/20
(33) European Patent Office (EPO)	(47) 30.08.2023	F24F 7/08
(51) F24C 15/20	(87) CN2018084925	F24F 12/00
(11) EP3751203	21.03.2019	F24F 110/68
(21) EP20179984.8	(22) 27.04.2018	(11) EP3994397
(47) 30.08.2023	(54) AIR CONDITIONER	(21) EP20739294.5
(22) 15.06.2020	(73) GD Midea Air-Conditioning Equipment	(47) 30.08.2023
(54) MOUNTING APPARATUS FOR	Co., Ltd.	(87) EP2020068615
MOUNTING A HOME APPLIANCE	(72) PENG, Jielin	14.01.2021
(73) Silverline Endüstri ve Ticaret A.S.	(31) 201721169631 U	(22) 02.07.2020
(72) Ceviksever, Tolga Güven	(32) 12.09.2017	(54) VENTILATION DEVICE
(31) 201908851	(33) China	(73) Radoff S.r.l.
(32) 14.06.2019	(51) F24F 1/0035	(72) CASSITTA, Giovanni Piero
(33) Türkiye	F24F 1/0041	CASSITTA, Domenico
(51) F24C 15/20	F24F 1/0038	(31) 201900010956
(11) EP3809049	F24F 13/20	(32) 05.07.2019
(21) EP20794852.2	F24F 12/00	(33) Italy
(47) 30.08.2023	(11) EP3869109	(51) F24F 1/12
(87) CN2020082808	(21) EP19917916.9	F24F 1/36
29.10.2020	(47) 30.08.2023	F24F 13/22
(22) 01.04.2020	(87) CN2019107339	F24F 13/24
(54) BALANCED CLEANING SYSTEM FOR	10.09.2020	(11) EP3792559
POLLUTANTS	(22) 23.09.2019	(21) EP18923185.5
(73) Sun, Shanmin	(54) AIR CONDITIONER INDOOR UNIT	(47) 30.08.2023
(72) Sun, Shanmin	HAVING FRESH AIR ASSEMBLY	(87) CN2018097376
(31) 201910325023	(73) Qingdao Haier Air Conditioner General	26.12.2019
(32) 22.04.2019	Corp., Ltd.	(22) 27.07.2018
(33) China	Haier Smart Home Co., Ltd.	(54) AIR CONDITIONING OUTDOOR UNIT
(51) F24D 3/10	(72) FANG, Qiling	AND AIR CONDITIONER
F24D 19/10	WANG, Ning	(73) GD Midea Air-Conditioning Equipment
F16K 27/00	WANG, Xiaoyun	Co., Ltd.
F16K 31/04	LI, Zongqiang	Midea Group Co., Ltd.
G05D 23/19	YAN, Baosheng	(72) XUE, Weifei
(11) EP3553395	GUO, Jiaying	GAO, Wendong
(21) EP19167824.2	YANG, Feng	ZHAO, Shuai
(47) 30.08.2023	(31) 201910161217	ZHAO, Zisheng
(22) 08.04.2019	(32) 04.03.2019	RAO, Tao
(54) ACTUATOR, HEATING CIRCUIT	(33) China	(31) 201820964063 U
MANIFOLD, AND PROCEDURE FOR	(51) F24F 1/0073	201810647839
INSTALLING ACTUATOR IN HEATING	B01D 41/04	(32) 20.06.2018
CIRCUIT MANIFOLD	F24F 13/28	20.06.2018
(73) Johnson Electric International AG	F24F 1/0057	(33) China
(72) Gassmann, Joerg	F24F 13/20	China
Knaebel, Heiko	(11) EP3715733	(51) F24F 1/16

F24F 11/42	F24F 11/52	(32) 08.07.2019
F24F 11/84	(11) EP3517850	(33) Germany
F24F 11/873	(21) EP16916826.7	(51) F24F 13/02
F25B 47/02	(47) 30.08.2023	F16L 17/00
(11) EP3945251	(87) JP2016078249	F16L 21/035
(21) EP21188041.4	29.03.2018	F16L 55/11
(47) 30.08.2023	(22) 26.09.2016	F16J 15/06
(22) 27.07.2021	(54) REMOTE CONTROLLER FOR AIR	F16J 15/10
(54) HEAT EXCHANGE SYSTEM	CONDITIONING	F16L 21/02
COMPRISING AN OUTDOOR UNIT	(73) Mitsubishi Electric Corporation	(11) EP3757473
AND AN AIR CONDITIONER INDOOR	(72) MASUI, Hirotaka	(21) EP20181318.5
UNIT	KITAZAKI, Mitsuru	(47) 30.08.2023
(73) Guangdong Giwee Tech Co Ltd	(51) F24F 11/46	(22) 22.06.2020
(72) GUO, Pudun	F24F 11/89	(54) METHOD FOR FORMING A SEAL
WANG, Yuxian	F25B 49/02	BETWEEN VENTILATION DUCTS AND/
(31) 202010752843	F24F 110/12	OR THEIR TERMINAL UNITS, AND
(32) 30.07.2020	F24F 130/10	COMBINATION OF A SEAL AND A
(33) China	(11) EP3779300	CHANNEL/DUCT PART
(51) F24F 5/00	(21) EP18914541.0	(73) FläktGroup Sweden AB
F24F 1/22	(47) 30.08.2023	(72) Järvinen, Juha
F24F 1/04	(87) CN2018121548	Kaakinen, Antti
F25B 25/00	17.10.2019	Lyytinen, Oskari
F25B 49/02	(22) 17.12.2018	(31) 20195556
F25B 5/02	(54) AIR CONDITIONER START CONTROL	(32) 24.06.2019
(11) EP4098951	METHOD, DEVICE, STORAGE MEDIUM	(33) Finland
(21) EP21020331.1	AND AIR CONDITIONER	(51) F24H 1/16
(47) 30.08.2023	(73) Gree Electric Appliances, Inc. of Zhuhai	F24H 1/43
(22) 30.06.2021	(72) FENG, Tao	F28D 7/02
(54) MOBILE AIR CONDITIONER WITHOUT	LI, Limin	F28F 9/00
A NECESSARY EXHAUST DUCT	WU, Lianfa	F28F 9/02
(73) Pauritsch, Harald	ZHANG, Shiqiang	F24H 9/02
Stani, Josef	(31) 201810312873	F24H 9/14
(72) Stani, Josef	(32) 09.04.2018	(11) EP3633286
Pauritsch, Harald	(33) China	(21) EP19201188.0
(51) F24F 5/00	(51) F24F 11/84	(47) 30.08.2023
F24F 6/06	F24F 13/02	(22) 02.10.2019
F24F 6/12	F24F 13/30	(54) IMPROVED HEAT EXCHANGER FOR
(11) EP3721144	F24F 1/0007	GAS BOILERS
(21) EP18913594.0	F25B 25/00	(73) Valmex S.p.A.
(47) 30.08.2023	(11) EP3683514	(72) CAPODAGLI, Severino
(87) TR2018050706	(21) EP17923958.7	(31) 201800009186
10.10.2019	(47) 30.08.2023	(32) 05.10.2018
(22) 19.11.2018	(87) JP2017031738	(33) Italy
(54) A MODULAR PRE-COOLING SYSTEM	07.03.2019	(51) F24H 3/00
(73) Aksuyek, Cuneyt	(22) 04.09.2017	A47K 10/06
(72) Aksuyek, Cuneyt	(54) TEMPERATURE ADJUSTMENT	D06F 57/12
(31) 201719470	DEVICE, RELAY DEVICE, LOAD	F28D 21/00
(32) 04.12.2017	DEVICE, AND REFRIGERATION CYCLE	(11) EP3430324
(33) Türkiye	DEVICE	(21) EP17716996.8
(51) F24F 11/00	(73) Mitsubishi Electric Corporation	(47) 30.08.2023
E06B 7/02	(72) TSUKIYAMA, Ryo	(87) IB2017051512
F24F 11/75	NOMOTO, So	21.09.2017
F24F 7/00	ITO, Masahiro	(22) 15.03.2017
(11) EP3832218	(51) F24F 13/02	(54) TEMPERATURE-CONTROL BODY
(21) EP19213119.1	F16L 3/00	ASSEMBLY WITH FLEXIBLE
(47) 30.08.2023	F16L 3/24	OPERATING MODES
(22) 03.12.2019	F24F 13/32	(73) Zehnder Group International AG
(54) CONTROL UNIT FOR OPENING AND	(11) EP3764013	(72) JENZER, Peter
CLOSING WINDOWS AND BUILDING	(21) EP20171540.6	(31) 4002016
COMPRISING SUCH A CONTROL UNIT	(47) 30.08.2023	(32) 15.03.2016
(73) Kainmüller, Ernst	(22) 27.04.2020	(33) Switzerland
(72) Kainmüller, Ernst	(54) DEVICE FOR SUSPENDING	(51) F24H 3/04
(51) F24F 11/30	RECTANGULAR CHANNEL ELEMENTS	F24H 9/18
G05B 15/02	AND CHANNEL SYSTEM	H05B 3/24
F24F 120/20	(73) Gebhardt-Stahl GmbH	H05B 3/42
F24F 11/63	(72) Hoffmeister, Bernd	(11) EP3524900
F24F 120/00	Schweins, Meinolf	(21) EP19161566.5
F24F 11/56	(31) 202019103743 U	(47) 30.08.2023

(22) 28.01.2014	F24S 25/634	F24F 140/12
(54) HEATER FOR MOTOR VEHICLE	F24S 25/60	F24F 140/20
(73) Hanon Systems	(11) EP3623721	(11) EP3988869
(72) KWON, Yong Sung	(21) EP19194854.6	(21) EP20840512.6
OH, Kwang Hun	(47) 30.08.2023	(47) 30.08.2023
JEON, Young-Ha	(22) 02.09.2019	(87) JP2020025152
GU, Jung Sam	(54) ROOF HOOK	21.01.2021
SONG, Jun Young	(73) SL Rack GmbH	(22) 26.06.2020
SHIN, Hyun Kun	(72) Schletter, Ludwig	(54) REFRIGERATION APPARATUS
LIM, Hong-Young	(31) 102018122174	(73) Daikin Industries, Ltd.
(31) 20130080601	(32) 11.09.2018	(72) UEHARA, Yoshikazu
20130009565	(33) Germany	TAGUCHI, Shuichi
(32) 09.07.2013	(51) F24S 40/20	TAKEGAMI, Masaaki
29.01.2013	B08B 1/00	(31) 2019133085
(33) Korea (Republic)	B08B 1/04	(32) 18.07.2019
Korea (Republic)	H02S 40/10	(33) Japan
(51) F24H 4/02	(11) EP3732406	(51) F25B 1/10
F24D 19/10	(21) EP18897645.0	F25B 5/02
F24H 4/04	(47) 30.08.2023	F25B 41/00
F24H 9/20	(87) IN2018050886	F25B 47/02
(11) EP3967948	04.07.2019	F25B 49/02
(21) EP19928731.9	(22) 27.12.2018	F25B 9/00
(47) 30.08.2023	(54) SELF POWERED AND TIMER BASED	F25B 13/00
(87) JP2019018792	SOLAR PANEL CLEANING SYSTEM	F25B 25/00
19.11.2020	(73) Weismacher Eco Private Limited	(11) EP3587957
(22) 10.05.2019	(72) GHADIALI, Yusuf Nazmuddin	(21) EP19182535.5
(54) THERMAL STORAGE SYSTEM	ACHARYA, Rajeshkumar Hariprasad	(47) 30.08.2023
(73) MITSUBISHI ELECTRIC	(31) 201721047112	(22) 26.06.2019
CORPORATION	(32) 28.12.2017	(54) HEAT PUMP AND METHOD OF
(72) TAKAYAMA, Keisuke	(33) India	CONTROLLING HEAT PUMP
SATO, Yusuke	(51) F25B 1/00	(73) CHUBU ELECTRIC POWER CO., INC.
KOIDE, Toru	(11) EP3978828	MITSUBISHI HEAVY INDUSTRIES
HIROSAKI, Hiroki	(21) EP19930598.8	THERMAL SYSTEMS, LTD.
MURATA, Kenta	(47) 30.08.2023	THE KANSAI ELECTRIC POWER CO.,
(51) F24H 9/00	(87) JP2019021302	INC.
F24D 19/00	03.12.2020	(72) TOKUNAGA, Yasuharu
B08B 9/032	(22) 29.05.2019	NAKAYAMA, Hiroshi
F28G 9/00	(54) REFRIGERATION CYCLE DEVICE	MAENO, Masashi
(11) EP3473949	(73) MITSUBISHI ELECTRIC	KOBAYASHI, Takayuki
(21) EP18290010.0	CORPORATION	KATSURAYAMA, Yohei
(47) 30.08.2023	(72) TAMURA, Naomichi	(31) 2018123707
(22) 01.02.2018	KOIKE, Takanori	(32) 28.06.2018
(54) DESLUDGING INSTALLATION FOR A	MORIMOTO, Hiroyuki	(33) Japan
HOT-WATER HEATING CIRCUIT	(51) F25B 1/00	(51) F25B 39/02
(73) Bogos, Valéry	F24D 3/18	F28D 1/053
(72) Bogos, Valéry	F25B 25/00	(11) EP3859239
(31) 1700102	F24D 11/02	(21) EP21154297.2
(32) 01.02.2017	F25B 49/02	(47) 30.08.2023
(33) France	(11) EP3704425	(22) 29.01.2021
(51) F24S 20/50	(21) EP18808485.9	(54) INSERT FOR EVAPORATOR HEADER
F24S 25/12	(47) 30.08.2023	(73) Hamilton Sundstrand Corporation
F24S 30/425	(87) IB2018058447	(72) CHO, Wei-Lin
H02S 20/23	09.05.2019	(31) 202016775644
H02S 20/32	(22) 29.10.2018	(32) 29.01.2020
F24S 30/00	(54) THERMODYNAMIC SYSTEM FOR	(33) United States of America
(11) EP3818312	BALANCING THERMAL LOADS	(51) F25B 41/20
(21) EP19831339.7	IN INDUSTRIAL PLANTS AND	F25B 41/26
(47) 30.08.2023	PROCESSES, AND RELATED METHOD	F16K 11/00
(87) US2019040884	(73) Frigel Firenze S.p.A.	F16K 11/074
09.01.2020	(72) DORIN, Filippo	(11) EP4075080
(22) 08.07.2019	(31) 201700123450	(21) EP22167535.8
(54) SOLAR-TRACKING CARPORTS	(32) 30.10.2017	(47) 30.08.2023
(73) KBFX LLC	(33) Italy	(22) 11.04.2022
(72) POIVET, Alain	(51) F25B 1/00	(54) VALVE FOR CONTROLLING A
(31) 201862694835 P	F24F 11/46	COOLANT CIRCUIT
(32) 06.07.2018	F24F 11/83	(73) Otto Egelhof GmbH & Co. KG
(33) United States of America	F24F 11/86	(72) Robin, Jean-Jacques
(51) F24S 25/613	F24F 11/871	Bohnenstengel, Peter

Ehmen, Andreas	(47) 30.08.2023	PARK, Jeongwon
Willers, Dr. Eike	(22) 02.07.2019	KIM, Hosan
von Rad, Volker	(54) DOUBLE ROW BARREL ICE MAKER	(31) 20170022528
(31) 102021109701	WITH OVERHEAD EXTRACTION	20160035198
(32) 16.04.2021	(73) Haier Smart Home Co., Ltd.	(32) 20.02.2017
(33) Germany	Qingdao Haier Refrigerator Co., Ltd.	24.03.2016
(51) F25B 43/00	Haier US Appliance Solutions, Inc.	(33) Korea (Republic)
B01D 53/24	(72) BESORE, John Keith	Korea (Republic)
F25B 43/04	DUPLESSIS, Samuel Vincent	(51) F25D 17/06
(11) EP3584520	JUNGE, Brent Alden	B60H 1/00
(21) EP19179692.9	(31) 201816026137	F25D 17/00
(47) 30.08.2023	(32) 03.07.2018	B65D 88/74
(22) 12.06.2019	(33) United States of America	B60P 3/20
(54) FLUID CONTROL SYSTEM	(51) F25D 3/12	(11) EP3844026
(73) Hamilton Sundstrand Corporation	C01B 32/55	(21) EP19783659.6
(72) ARNER, Michael D.	(11) EP3234485	(47) 30.08.2023
(31) 201816011149	(21) EP15820461.0	(87) IB2019057335
(32) 18.06.2018	(47) 30.08.2023	05.03.2020
(33) United States of America	(87) EP2015080047	(22) 30.08.2019
(51) F25B 49/02	23.06.2016	(54) A BAFFLE ASSEMBLY FOR A
F25D 11/00	(22) 16.12.2015	REFRIGERATION CONTAINER
F25B 40/00	(54) METHOD AND APPARATUS FOR	(73) Reefer Air Flow Technologies (Pty) Ltd
F25B 41/20	PRODUCING SUBCOOLED CARBON	(72) HUGO, Barry James
F25B 49/00	DIOXIDE SNOW	DODD, Malcolm Caulton
(11) EP3859249	(73) Messer SE & Co. KGaA	OSNER, Craig Wayne
(21) EP19865774.4	Messer France S.A.S.	(31) 201805820
(47) 30.08.2023	(72) TEBIB, Emir	(32) 30.08.2018
(87) JP2019037874	GOCKEL, Frank	(33) South Africa
02.04.2020	(31) 102014018981	(51) F25D 17/06
(22) 26.09.2019	(32) 18.12.2014	F25D 17/04
(54) REFRIGERANT LEAKAGE	(33) Germany	(11) EP3896369
DETERMINATION DEVICE,	(51) F25D 17/04	(21) EP19895386.1
FREEZING DEVICE INCLUDING	B01D 53/34	(47) 30.08.2023
THIS REFRIGERANT LEAKAGE	A61L 9/20	(87) CN2019123013
DETERMINATION DEVICE,	(11) EP3821188	18.06.2020
AND REFRIGERANT LEAKAGE	(21) EP19835159.5	(22) 04.12.2019
DETERMINATION METHOD	(47) 30.08.2023	(54) REFRIGERATOR
(73) DAIKIN INDUSTRIES, LTD.	(87) CN2019095456	(73) Haier Smart Home Co., Ltd.
(72) NAKANO Masataka	16.01.2020	Aqua Co., Ltd
SATOU Kiichirou	(22) 10.07.2019	Qingdao Haier Refrigerator Co., Ltd
(31) 2018185173	(54) REFRIGERATOR APPLIANCES AND	(72) TATEN0, Takaya
(32) 28.09.2018	ACTIVE AIR FILTER ASSEMBLIES	TOYOSHIMA, Masashi
(33) Japan	(73) Haier US Appliance Solutions, Inc.	KOMATSU, Hazime
(51) F25C 1/00	Haier Smart Home Co., Ltd.	(31) 2018231166
F25C 1/145	Qingdao Haier Refrigerator Co., Ltd.	(32) 10.12.2018
F25B 5/02	(72) PFAFFINGER, Robert Charles, Jr.	(33) Japan
(11) EP3904790	PRINCE, Ryan John	(51) F25D 23/02
(21) EP19902432.4	(31) 201816032148	F25D 23/04
(47) 30.08.2023	(32) 11.07.2018	F25D 25/00
(87) JP2019037743	(33) United States of America	F25D 25/02
02.07.2020	(51) F25D 17/04	F25D 23/08
(22) 26.09.2019	F25D 17/06	F25D 23/00
(54) ICE MAKING SYSTEM AND ICE	F25D 29/00	E05D 7/00
MAKING METHOD	(11) EP3435008	(11) EP2759791
(73) DAIKIN INDUSTRIES, LTD.	(21) EP17770681.9	(21) EP14156045.8
(72) UENO, Takeo	(47) 30.08.2023	(47) 30.08.2023
SETA, Yuuya	(87) KR2017003232	(22) 15.09.2010
KITA, Kouichi	28.09.2017	(54) Refrigerator including multiple storage
TOUYA, Shunsuke	(22) 24.03.2017	compartments
YASUDA, Shouhei	(54) CONTROL METHOD FOR	(73) LG Electronics Inc.
KONDOU, Azuma	REFRIGERATOR	(72) Lee, Jong Hwa
(31) 2018246580	(73) LG Electronics Inc.	Oh, Seungjin
(32) 28.12.2018	(72) KIM, Jindong	(31) 20100000086
(33) Japan	CHO, Yonghyeon	(32) 04.01.2010
(51) F25C 5/02	CHO, Namsoo	(33) Korea (Republic)
F25C 1/04	IM, Jihyun	(51) F25D 23/02
(11) EP4050285	LEE, Namgyo	F25D 23/04
(21) EP22167258.7	KANG, Sunghee	F25D 27/00

F21V 8/00	FRANKMAN, David	(33) China
(11) EP3333513	(31) 201715412484	(51) F28D 1/02
(21) EP17204368.9	(32) 23.01.2017	F28F 1/10
(47) 30.08.2023	(33) United States of America	(11) EP3812677
(22) 29.11.2017	(51) F26B 3/06	(21) EP20198629.6
(54) REFRIGERATOR	F26B 17/26	(47) 30.08.2023
(73) LG Electronics Inc.	(11) EP4116657	(22) 28.09.2020
(72) LEE, Sangmyung	(21) EP21183993.1	(54) RADIATOR FOR COOLING A
(31) 20160168996	(47) 30.08.2023	TRANSFORMER OR A CHOKE
(32) 12.12.2016	(22) 06.07.2021	(73) Siemens Energy Global GmbH & Co. KG
(33) Korea (Republic)	(54) WASTE DRYING	(72) Kaineder, Kurt
(51) F25D 25/02	(73) RWE Generation NL B.V.	Bachinger, Florian
(11) EP3764037	(72) Eurlings, Johannes Theodorus Gerardus	(31) 102019216469
(21) EP19199553.9	Marie	(32) 25.10.2019
(47) 30.08.2023	de Best, Carlo Jacobus Johannes Maria	(33) Germany
(22) 25.09.2019	(51) F27B 17/02	(51) F28D 1/03
(54) REFRIGERATOR	G01K 7/25	B33Y 80/00
(73) LG ELECTRONICS INC.	(11) EP3760956	B33Y 10/00
(72) Choi, Seonwoo	(21) EP19184350.7	B23K 20/10
(31) 20190084452	(47) 30.08.2023	F28D 15/02
(32) 12.07.2019	(22) 04.07.2019	B22F 5/10
(33) Korea (Republic)	(54) DENTAL OVEN	B22F 10/20
(51) F25J 1/00	(73) Ivoclar Vivadent AG	B22F 10/66
B63B 25/16	(72) MÜLLER, Dominik	B22F 3/24
F25J 1/02	SCHLEGEL, Manuel	B23K 20/12
B63H 21/38	RUDOLF, Jussel	(11) EP3948133
F02M 21/02	(51) F28B 1/06	(21) EP20716141.5
F17C 9/02	F28D 1/02	(47) 30.08.2023
F17C 6/00	F04D 29/64	(87) US2020021333
B63J 99/00	F28D 21/00	01.10.2020
(11) EP3305649	(11) EP3683530	(22) 06.03.2020
(21) EP16803634.1	(21) EP19020036.0	(54) OSCILLATING HEAT PIPE
(47) 30.08.2023	(47) 30.08.2023	USING ULTRASONIC ADDITIVE
(87) KR2016005139	(22) 18.01.2019	MANUFACTURING
08.12.2016	(54) AIR COOLED HEAT EXCHANGER	(73) Raytheon Company
(22) 16.05.2016	(73) ESINDUS, S.A.U.	(72) MAYBERRY, Travis
(54) SHIP	(72) MALPOIX, Pascal	WENNING, Justin D.
(73) Daewoo Shipbuilding & Marine	LUU, Trung	(31) 201916364310
Engineering Co., Ltd.	BULTOT, Thierry	(32) 26.03.2019
(72) SHIN, Hyun Jun	(51) F28C 1/16	(33) United States of America
MOON, Young Sik	F28C 1/14	(51) F28D 7/10
CHOI, Dong Kyu	F28C 1/08	F28D 7/02
(31) 20150176512	D21F 5/20	F28F 7/02
20150135997	B01D 53/78	F28D 21/00
20150078142	B01D 53/26	F28F 9/00
(32) 11.12.2015	B01D 5/00	(11) EP3855105
25.09.2015	E04H 5/12	(21) EP20206391.3
02.06.2015	C02F 1/10	(47) 30.08.2023
(33) Korea (Republic)	C02F 1/12	(22) 09.11.2020
Korea (Republic)	D21F 5/00	(54) HEADER ARRANGEMENT FOR
Korea (Republic)	F26B 21/08	ADDITIVELY MANUFACTURED HEAT
(51) F25J 3/08	F26B 25/00	EXCHANGER
F25J 3/02	F26B 23/00	(73) Hamilton Sundstrand Corporation
(11) EP3571454	B01D 1/00	(72) COLSON, Paul M.
(21) EP18741275.4	(11) EP3794296	(31) 202016752055
(47) 30.08.2023	(21) EP19804038.8	(32) 24.01.2020
(87) US2018014778	(47) 30.08.2023	(33) United States of America
26.07.2018	(87) FI2019050384	(51) F28D 9/00
(22) 23.01.2018	21.11.2019	F28F 3/02
(54) METHOD FOR DESUBLIMATING CO2	(22) 16.05.2019	(11) EP3734213
(73) Sustainable Energy Solutions, LLC	(54) AN ARRANGEMENT AND A METHOD	(21) EP19212868.4
(72) STITT, Kyler	FOR CONDITIONING MOIST EXHAUST	(47) 30.08.2023
BAXTER, Andrew	AIR	(22) 02.12.2019
SAYRE, Aaron	(73) TM System Finland Oy	(54) OFFSET/SLANTED CROSS COUNTER
HOEGER, Christopher	(72) HALLAPURO, Markus	FLOW HEAT EXCHANGER
BURT, Stephanie	(31) 201810475354	(73) Hamilton Sundstrand Corporation
MANSFIELD, Eric	(32) 17.05.2018	(72) RETERSDORF, Alan
BAXTER, Larry		(31) 201916397788

(32) 29.04.2019	FOR PRODUCING DOUBLE-WALLED	F28D 7/16
(33) United States of America	PIPE	F28F 1/00
(51) F28D 9/00	(73) Highly Marelli Japan Corporation	F28F 1/02
F28F 3/12	(72) OONO, Hiroyuki	F28F 9/02
F28F 9/02	(31) 2016220492	(11) EP3760962
F28F 9/00	2016220485	(21) EP19461554.8
(11) EP3779342	2016220484	(47) 30.08.2023
(21) EP20188782.5	(32) 11.11.2016	(22) 05.07.2019
(47) 30.08.2023	11.11.2016	(54) HEAT EXCHANGER
(22) 30.07.2020	11.11.2016	(73) UTC Aerospace Systems Wroclaw Sp. z
(54) HEAT EXCHANGER	(33) Japan	o.o.
(73) Honeywell International Inc.	Japan	(72) Horoszczak, Adam
(72) ARELLANO, Ahuizotl	Japan	Lewandowski, Rafal
CAMPAS, Maximilano	(51) F28F 1/42	(51) F28F 7/02
BARRIGA, Jorge	A01J 11/00	F28D 7/16
(31) 201916540761	A23C 1/00	F28F 9/02
(32) 14.08.2019	A23C 1/01	F02C 7/14
(33) United States of America	B01B 1/00	F28F 21/08
(51) F28D 15/02	F28D 7/16	(11) EP3531058
B33Y 10/00	F28F 1/06	(21) EP19158877.1
B33Y 80/00	F28F 1/08	(47) 30.08.2023
(11) EP3865803	F28D 21/00	(22) 22.02.2019
(21) EP21155287.2	(11) EP3663693	(54) HEAT EXCHANGER ASSEMBLY
(47) 30.08.2023	(21) EP18211140.1	(73) Unison Industries LLC
(22) 04.02.2021	(47) 30.08.2023	(72) JONNALAGADDA, Dattu GV
(54) COMPLIANT OSCILLATING HEAT	(22) 07.12.2018	YANG, Yanzhe
PIPES	(54) FALLING FILM EVAPORATOR FOR	PHELPS, Emily Marie
(73) Hamilton Sundstrand Corporation	DAIRY PRODUCTS	SCHMITT, Joseph Richard
(72) ALAHYARI, Abbas A.	(73) Tetra Laval Holdings & Finance S.A.	TAJIRI, Gordon
RANJAN, Ram	(72) JONGSMA, Alfred	(31) 201815903685
WANG, Jinliang	INNINGS, Fredrik	(32) 23.02.2018
(31) 202016791471	(51) F28F 3/04	(33) United States of America
(32) 14.02.2020	F15D 1/00	(51) F28F 9/007
(33) United States of America	F28F 13/02	F28F 21/06
(51) F28D 20/00	F28F 13/06	(11) EP3819584
F24H 1/18	F28F 13/12	(21) EP20206124.8
F16L 59/065	F28F 13/18	(47) 30.08.2023
B65D 81/38	H05K 7/20	(22) 06.11.2020
(11) EP3885688	(11) EP3924681	(54) HEAT EXCHANGER PLATE
(21) EP21153929.1	(21) EP20709649.6	(73) Danfoss A/S
(47) 30.08.2023	(47) 30.08.2023	(72) Knudsen, Ivan
(22) 28.01.2021	(87) FR2020050243	Nielsen, Helge
(54) THERMAL INSULATION DEVICE FOR	20.08.2020	(31) PA201901301
A CONTAINER, IN PARTICULAR A HOT	(22) 11.02.2020	(32) 07.11.2019
WATER STORAGE DEVICE	(54) HEAT SINK FOR AN ELECTRONIC	(33) Denmark
(73) va-Q-tec AG	BOARD OF A MOTOR VEHICLE	(51) F28G 3/16
(72) Taraschewski, Thomas	MOTOR-DRIVEN FAN UNIT	F28G 15/06
Mauder, Tobias	(73) Valeo Systemes Thermiques	F28G 1/16
Bock, Tobias	(72) MA, Zhenxia	B08B 9/043
Dr. Kuhn, Joachim	FRANCO, Ismaël	B08B 9/045
(31) 202020101574 U	(31) 1901364	(11) EP4182625
(32) 24.03.2020	(32) 12.02.2019	(21) EP22701985.8
(33) Germany	(33) France	(47) 30.08.2023
(51) F28F 1/40	(51) F28F 3/06	(87) EP2022051837
F28D 7/10	(11) EP3581870	11.08.2022
B21D 11/14	(21) EP19184893.6	(22) 27.01.2022
B21D 53/08	(47) 30.08.2023	(54) METHOD AND CLEANING DEVICE
B23P 15/26	(22) 19.07.2013	FOR CLEANING THE INTERIOR OF
F28F 13/12	(54) HEAT DISSIPATION DEVICE HAVING	PIPES
F28F 1/42	LATERAL- SPREADING HEAT	(73) LOBBE Industrieservice GmbH & Co KG
(11) EP3508808	DISSIPATING AND SHUNTING HEAT	(72) SKALETZ, Bodo
(21) EP17870098.5	CONDUCTIVE STRUCTURE	BERNARD, Adrian
(47) 30.08.2023	(73) Yang, Tai-Her	EISERMANN, Reinhard
(87) JP2017040114	(72) Yang, Tai-Her	(31) 102021102410
17.05.2018	(31) 201213554075	(32) 03.02.2021
(22) 07.11.2017	(32) 20.07.2012	(33) Germany
(54) METHOD FOR PRODUCING PIPE	(33) United States of America	(51) F41A 3/50
HAVING BUILT-IN FIN, AND METHOD	(51) F28F 7/02	F41A 11/02

F41A 17/74	(54) METAL FIXATION MATERIAL	(22) 28.11.2017
F41A 17/64	FEEDTHROUGH WITH LOW	(54) METHOD AND DEVICE FOR
F41A 19/15	SUSCEPTIBILITY TO FAILURE	DETECTING AND ASSESSING
F41A 19/14	(73) SCHOTT AG	A THICKNESS VARIATION OF A
F41A 17/66	(72) RANFTL, Reinhard	WORKPIECE
F41A 17/76	HARTL, Helmut	(73) ArianeGroup SAS
(11) EP4028708	Nishiwaki, Susumu	(72) BAILET Gilles
(21) EP20772025.1	PFEIFFER, Thomas	(31) 1601713
(47) 30.08.2023	HETTLER, Robert	(32) 02.12.2016
(87) EP2020075490	ROUSEK, Ondrej	(33) France
18.03.2021	(31) 102018005733	(51) G01B 11/08
(22) 11.09.2020	(32) 20.07.2018	G01B 11/10
(54) LOCK SYSTEM	(33) Germany	G01B 11/245
(73) Präzisionstechnik Volkach, Wilfried Alber,	(51) F42B 10/64	G01B 11/25
Georg Holthaus Gbr	(11) EP3918267	(11) EP3548838
(72) HOLTHAUS, Georg	(21) EP19914051.8	(21) EP17817204.5
ALBER, Wilfried	(47) 30.08.2023	(47) 30.08.2023
(31) 102019124569	(87) SE2019050084	(87) JP2017042733
(32) 12.09.2019	06.08.2020	07.06.2018
(33) Germany	(22) 31.01.2019	(22) 29.11.2017
(51) F41A 33/00	(54) A RUDDER CONTROL ASSEMBLY FOR	(54) WIRE ROPE MEASURING DEVICE
F41G 3/26	A MISSILE	AND WIRE ROPE MEASURING
F41A 33/02	(73) SAAB AB	METHOD
G01S 5/16	(72) SWENSON, Anders	(73) Otis Elevator Company
G06V 20/20	(51) F42D 1/04	Meidensha Corporation
G06V 40/18	(11) EP3527930	(72) TAKEUCHI, Takashi
G06V 40/20	(21) EP19157082.9	TANAKA, Hiroto
G09B 9/00	(47) 30.08.2023	ONODA, Ryuji
(11) EP3732430	(22) 14.02.2019	NOTA, Yoshiki
(21) EP19738618.8	(54) LOW ENERGY EXPLOSIVE TRANSFER	KATO, Mitsuru
(47) 30.08.2023	ADAPTER	WATABE, Yusuke
(87) US2019012591	(73) Goodrich Corporation	(31) 2016230838
18.07.2019	(72) RAMIREZ, German	(32) 29.11.2016
(22) 08.01.2019	CARVER, Patrick	(33) Japan
(54) WEAPON USAGE EVALUATION	WILSON, Brian	(51) G01B 11/16
SYSTEM AND A COMPUTER-	(31) 201815897909	G01D 5/353
IMPLEMENTED METHOD FOR	(32) 15.02.2018	G02B 6/44
CONDUCTING A FIREARM USAGE	(33) United States of America	H01B 11/22
SIMULATION USING SAID SYSTEM	(51) G01B 11/02	(11) EP3832254
(73) V-Armed Inc.	G01B 21/04	(21) EP19844627.0
(72) DABUSH, Elad	G03B 7/08	(47) 30.08.2023
KUR, Daniel	G03B 13/20	(87) JP2019030073
(31) 201815865731	(11) EP3956630	06.02.2020
(32) 09.01.2018	(21) EP21731916.9	(22) 31.07.2019
(33) United States of America	(47) 30.08.2023	(54) CABLE, CABLE SHAPE SENSING
(51) F41H 5/04	(87) DE2021200061	SYSTEM, SENSING SYSTEM, AND
(11) EP4048972	13.01.2022	METHOD FOR SENSING CABLE
(21) EP20807095.3	(22) 07.05.2021	SHAPE
(47) 30.08.2023	(54) OPTICAL DISTANCE SENSOR	(73) FURUKAWA ELECTRIC CO., LTD.
(87) GB2020052689	WITH EXPOSURE CONTROL AND	(72) TAKASAKA, Shigehiro
29.04.2021	CORRESPONDING METHOD	SUGIZAKI, Ryuichi
(22) 23.10.2020	(73) Micro-Epsilon Optronic GmbH	TADAKUMA, Masateru
(54) BALLISTIC PROTECTION MATERIAL	(72) PRUSSEIT, Steffen	(31) 2018144389
(73) Advanced Matrix Composite Systems	TOBESCHAT, Lars	(32) 31.07.2018
Limited	(31) 102020209065	(33) Japan
(72) FOSTER, Tom	102020208526	(51) G01B 11/24
(31) 201915727	(32) 20.07.2020	G01B 5/20
(32) 25.10.2019	07.07.2020	G01B 21/04
(33) United Kingdom	(33) Germany	(11) EP3784981
(51) F42B 3/11	Germany	(21) EP19725224.0
A61N 1/375	(51) G01B 11/06	(47) 30.08.2023
F42B 3/107	G01B 11/12	(87) IB2019053229
F42B 3/198	G01B 11/22	31.10.2019
(11) EP3851786	(11) EP3548837	(22) 18.04.2019
(21) EP21161856.6	(21) EP17821969.7	(54) OPTICAL MEASURING MACHINE FOR
(47) 30.08.2023	(47) 30.08.2023	MEASURING AN OBJECT HAVING A
(22) 15.07.2019	(87) FR2017000222	MAINLY LONGITUDINAL EXTENSION
	07.06.2018	(73) VICI & C.- S.p.A.

- (72) BARTOLINI, Manuel
ANDREINI, Stefano
BEDESCHI, Carlo
MAIOLI, Paolo
FERRI, Lanfranco
(31) 201900005006
201800009215
201800004824
(32) 03.04.2019
05.10.2018
24.04.2018
(33) Italy
Italy
Italy
-
- (51) G01B 11/24
G01B 11/30
G01N 21/892
G01N 21/89
(11) EP3719442
(21) EP18880126.0
(47) 30.08.2023
(87) JP2018043550
31.05.2019
(22) 27.11.2018
(54) SHAPE INSPECTING DEVICE AND
SHAPE INSPECTING METHOD
(73) Nippon Steel Corporation
(72) FURUYA, Nobuhiro
SONODA, Takayuki
(31) 2017226968
(32) 27.11.2017
(33) Japan
-
- (51) G01B 11/24
G01N 13/02
(11) EP4184145
(21) EP21208702.7
(47) 30.08.2023
(22) 17.11.2021
(54) DEVICE FOR DETECTING THE
GEOMETRY OF A DROPLET
ARRANGED ON A SAMPLE SURFACE
(73) KRÜSS GmbH, Wissenschaftliche
Laborgeräte
(72) KORDTS, Arne
FUCKNER, Timo
BUCHHOLZ, Alexander
FRIEDRICH, Bernd
-
- (51) G01B 11/245
G01N 21/88
(11) EP3615886
(21) EP18709953.6
(47) 30.08.2023
(87) EP2018054458
01.11.2018
(22) 23.02.2018
(54) INSPECTION APPARATUS FOR
OPTICALLY INSPECTING AN
OBJECT, AND OBJECT INSPECTION
ARRANGEMENT
(73) Robert Bosch GmbH
(72) BERGER, Martin
THOBE, Alexander
(31) 102017207071
(32) 27.04.2017
(33) Germany
-
- (51) G01B 11/27
G01B 11/30
G01B 21/04
- G01B 11/245
(11) EP3701220
(21) EP18804706.2
(47) 30.08.2023
(87) IB2018058359
02.05.2019
(22) 26.10.2018
(54) METHOD AND APPARATUS FOR
MEASURING THE STRAIGHTNESS
ERROR OF SLENDER BODIES
WITH COMPENSATION OF GRAVITY
DEFORMATION
(73) Q-TECH S.r.l.
(72) TOMASSINI, Paolo
FUMAGALLI, Luca
GREGORELLI, Erika
TOSI, Diego
(31) 201700122452
(32) 27.10.2017
(33) Italy
-
- (51) G01B 17/02
B60T 8/172
(11) EP4007889
(21) EP20753998.2
(47) 30.08.2023
(87) FR2020051306
04.02.2021
(22) 20.07.2020
(54) METHOD FOR ESTIMATING THE
WATER LEVEL ON A ROADWAY WHEN
A TYRE IS RUNNING
(73) COMPAGNIE GENERALE DES
ETABLISSEMENTS MICHELIN
(72) BREMOND, Florian
COTE, Rémi
(31) 1908820
(32) 01.08.2019
(33) France
-
- (51) G01B 17/02
G01N 29/22
G01N 29/30
(11) EP3931526
(21) EP20705102.0
(47) 30.08.2023
(87) GB2020050366
03.09.2020
(22) 17.02.2020
(54) METHOD OF CALIBRATING AN
ULTRASOUND PROBE AND
CORRESPONDING INSPECTION
APPARATUS AND METHOD
(73) Renishaw PLC
(72) HALL, Liam David
DING, Yining
(31) 19159994
(32) 28.02.2019
(33) European Patent Office (EPO)
-
- (51) G01B 17/02
G01N 29/28
G01N 29/22
G01N 29/24
G01N 29/265
(11) EP4022252
(21) EP20767989.5
(47) 30.08.2023
(87) EP2020074230
04.03.2021
(22) 31.08.2020
- (54) ULTRASOUND MEASURING UNIT
(73) Karl Deutsch Prüf- und Messgerätebau
GmbH & Co. KG
M&H Inprocess Messtechnik GmbH
(72) SEITZ, Matthias
STEVES, Simon
(31) 102019123145
(32) 29.08.2019
(33) Germany
-
- (51) G01B 21/04
B23Q 17/20
(11) EP4018159
(21) EP20742703.0
(47) 30.08.2023
(87) EP2020070132
25.02.2021
(22) 16.07.2020
(54) MEASURING SYSTEM
(73) M&H Inprocess Messtechnik GmbH
(72) WIEST, Christoph
(31) 102019122655
(32) 22.08.2019
(33) Germany
-
- (51) G01B 21/04
G01B 5/00
G01B 11/00
(11) EP3827219
(21) EP19773507.9
(47) 30.08.2023
(87) IB2019056205
30.01.2020
(22) 19.07.2019
(54) ACCESSORY FOR ROTARY PROBE
SUPPORT
(73) TESA Sàrl
(72) SCHNEEBERGER, Patrick
CHARDONNENS, Julien
(31) 9252018
(32) 26.07.2018
(33) Switzerland
-
- (51) G01B 21/24
G01M 17/03
B62D 55/00
(11) EP3795944
(21) EP19425066.8
(47) 30.08.2023
(22) 19.09.2019
(54) MONITORING SYSTEM FOR
AUTOMATICALLY ESTIMATING
AND MONITORING THE CORRECT
ALIGNMENT OF THE TRACKS,
PARTICULARLY OF THE TRACK
CHAINS, AND RELEVANT METHOD
(73) thyssenkrupp AG
Berco S.p.A.
(72) Bruno, Piero
Maggiolini, Enrico
Grenzi, Francesco
-
- (51) G01C 15/00
G01C 25/00
G01C 9/06
(11) EP3748292
(21) EP19747716.9
(47) 30.08.2023
(87) JP2019003085
08.08.2019
(22) 30.01.2019
(54) SURVEYING DEVICE

(73) TOPCON CORPORATION	(31) 201862614558 P	28.09.2020
(72) MIYAJIMA Motohiro	201762537155 P	(33) India
(31) 2018014494	(32) 08.01.2018	United States of America
(32) 31.01.2018	26.07.2017	<hr/>
(33) Japan	(33) United States of America	(51) G01D 5/14
<hr/>	United States of America	G01R 33/038
(51) G01C 19/72	(51) G01C 21/34	H01F 7/02
H01S 5/00	G08G 1/16	G01D 5/04
H01S 5/40	B60W 30/095	(11) EP3803276
H01S 5/065	B60W 60/00	(21) EP19812304.4
H01S 5/0687	(11) EP3842760	(47) 30.08.2023
H01S 5/062	(21) EP20197964.8	(87) US2019013521
H01S 5/06	(47) 30.08.2023	05.12.2019
(11) EP3770552	(22) 24.09.2020	(22) 14.01.2019
(21) EP20186815.5	(54) METHODS OF AND SYSTEM FOR	(54) ROTATING A PERMANENT MAGNET IN
(47) 30.08.2023	GENERATING TRAJECTORY FOR	A POSITION DETECTION SYSTEM
(22) 20.07.2020	SELF-DRIVING CAR (SDC)	(73) OMMO Technologies, Inc.
(54) RFOG RESONANCE HOPPING	(73) YANDEX SELF DRIVING GROUP LLC	(72) PICKETT, Matthew
(73) Honeywell International Inc.	(72) OTLIGA, Victor Igorevich	KIRBY, Jonah William
(72) STRANDJORD, Lee K.	(31) 2019143605	FELDKAMP, Jonathan
SANDERS, Glen A.	(32) 24.12.2019	ZHENG, Minjie
WU, Jianfeng	(33) Russian Federation	(31) 201815996055
SMICKLAS, Marc	<hr/>	(32) 01.06.2018
(31) 202016734038	(51) G01C 22/00	(33) United States of America
201962879344 P	G06F 1/3212	<hr/>
(32) 03.01.2020	A43B 3/38	(51) G01D 5/20
26.07.2019	A43B 3/42	(11) EP3936829
(33) United States of America	A43B 3/40	(21) EP21178772.6
United States of America	A43B 3/44	(47) 30.08.2023
<hr/>	A43B 3/48	(22) 10.06.2021
(51) G01C 21/34	G06F 1/16	(54) INDUCTIVE POSITION SENSOR
G01C 21/36	(11) EP4027116	COMPRISING AT LEAST ONE
G06Q 10/04	(21) EP21211184.3	TRANSMIT COIL, AN ABSOLUTE
(11) EP3591339	(47) 30.08.2023	POSITION RECEIVE COIL PAIR,
(21) EP19184387.9	(22) 27.05.2016	A HIGH-RESOLUTION POSITION
(47) 30.08.2023	(54) WEARABLE ARTICLE WITH A KINETIC	RECEIVE COIL PAIR AND A
(22) 04.07.2019	ENERGY GENERATOR	CONDUCTIVE MOVING TARGET
(54) METHOD, APPARATUS, AND	(73) Nike Innovate C.V.	(73) Renesas Electronics America Inc.
COMPUTER PROGRAM PRODUCT	(72) SCHNEIDER, Summer L.	(72) Buchinger, Andreas
FOR GENERATION OF A ROUTE	PHEIL, Holli	Pichler, Rudolf
INCLUDING MULTIPLE WAYPOINTS	MALHOTRA, Vikram	Leoncavallo, Ruggero
(73) HERE Global B.V.	FOLSKE, Keith	Hartl, Harald
(72) BECKER, Wolfgang	(31) 201562168535 P	Gombor, Bence
STROBECK, Knut	201562168509 P	(31) 20185164
(31) 201816027664	201562168487 P	(32) 10.07.2020
(32) 05.07.2018	(32) 29.05.2015	(33) European Patent Office (EPO)
(33) United States of America	29.05.2015	<hr/>
<hr/>	29.05.2015	(51) G01D 5/20
(51) G01C 21/34	(33) United States of America	G01B 7/30
G08G 1/005	United States of America	G01D 5/244
G08G 1/00	United States of America	G01D 3/08
H04W 4/02	United States of America	(11) EP3916359
H04W 4/44	<hr/>	(21) EP19911129.5
G06Q 50/30	(51) G01C 23/00	(47) 30.08.2023
G06Q 10/06	G01C 25/00	(87) JP2019002395
(11) EP3659078	G01C 21/16	30.07.2020
(21) EP18758779.5	(11) EP3951322	(22) 25.01.2019
(47) 30.08.2023	(21) EP21186827.8	(54) ANGLE DETECTION DEVICE
(87) US2018043644	(47) 30.08.2023	(73) Mitsubishi Electric Corporation
31.01.2019	(22) 20.07.2021	(72) IKEDA, Hiroko
(22) 25.07.2018	(54) SYSTEMS AND METHODS FOR	IKEDA, Kenji
(54) SYSTEMS AND METHODS FOR	CALIBRATING A SENSOR POSITION	SAWADA, Seiji
MANAGING AND ROUTING	ON AN AIRCRAFT	KUBO, Kenta
RIDESHARING VEHICLES	(73) Honeywell International Inc.	MATSUNAGA, Toshihiro
(73) Via Transportation, Inc.	(72) PARTHASARATHY, Sudarshan	MORI, Tatsuya
(72) RAKAH, Yaron	SAHOO, Santosh Kumar	<hr/>
RAMOT, Daniel	URBANEC, Jan	(51) G01D 5/353
SHOVAL, Oren	CROUCH, Steven Curtis	G01L 1/24
ZUQERT, Omer	(31) 202011033342	G02B 6/02
MARCOVITCH, Shmulik	202017034277	G01B 11/16
ABRAMS, Erin	(32) 04.08.2020	(11) EP3853559
		(21) EP19769524.0

(47) 30.08.2023	(51) G01D 21/00	(11) EP3779376
(87) EP2019075334	G01D 11/24	(21) EP19774990.6
26.03.2020	G01D 11/30	(47) 30.08.2023
(22) 20.09.2019	B32B 5/02	(87) JP2019010444
(54) OPTICAL FIBER SENSOR	B32B 5/26	03.10.2019
(73) FUJIKURA LTD.	(11) EP3818342	(22) 14.03.2019
Koninklijke Philips N.V.	(21) EP19736656.0	(54) GAS SAFETY DEVICE
(72) T HOOFT, Gert, Wim	(47) 30.08.2023	(73) Panasonic Intellectual Property
MATSUSHITA, Shingo	(87) EP2019067768	Management Co., Ltd.
HORIKX, Jeroen, Jan, Lambertus	09.01.2020	(72) FUJII, Yuji
VAN DUSSCHOTEN, Anna, Hendrika	(22) 02.07.2019	YASUDA, Kenji
KENTARO, Ichii	(54) ITEM AND METHOD FOR	KINOSHITA, Hideki
(31) 18195646	MONITORING OR CONTROLLING	KAYABA, Takashi
(32) 20.09.2018	OPERATION OF A MOVABLE ITEM	UEDA, Yoshihiro
(33) European Patent Office (EPO)	(73) Rasei Ltd	GYOUTOKU, Taiti
(51) G01D 11/24	(72) ABBOTT, Stuart John	(31) 2018067342
E21B 33/038	(31) 201810865	(32) 30.03.2018
(11) EP3404369	201810864	(33) Japan
(21) EP18172199.4	201810863	<hr/>
(47) 30.08.2023	201810862	(51) G01F 1/698
(22) 14.05.2018	201810861	B05B 12/00
(54) PRESSURE COMPENSATED	(32) 02.07.2018	G05D 7/06
SENSORS	02.07.2018	G01L 9/00
(73) Baker Hughes Holdings LLC	02.07.2018	B05B 1/30
(72) LU, Dan Tho	02.07.2018	G01F 23/284
(31) 201715598159	02.07.2018	G01L 7/00
(32) 17.05.2017	(33) United Kingdom	B05B 1/04
(33) United States of America	United Kingdom	(11) EP3662234
(51) G01D 18/00	United Kingdom	(21) EP18842349.5
G05B 19/418	United Kingdom	(47) 30.08.2023
G05B 19/401	United Kingdom	(87) US2018044667
(11) EP3942258	(51) G01F 1/58	07.02.2019
(21) EP20709611.6	H01F 7/20	(22) 31.07.2018
(47) 30.08.2023	(11) EP3916364	(54) DEVICE AND METHOD FOR
(87) EP2020056933	(21) EP21175218.3	IMPROVED SPRAY MONITORING
24.09.2020	(47) 30.08.2023	(73) Spraying Systems Co.
(22) 13.03.2020	(22) 21.05.2021	(72) HENNESSY, Tim
(54) METHOD FOR TIME	(54) MAGNETIC CIRCUIT DEVICE FOR A	DAY, Andrew
SYNCHRONIZATION BETWEEN AN	MAGNETIC-INDUCTIVE FLOW METER	(31) 201762538848 P
AUTOMATIC MOVING MEANS AND A	AND METHOD FOR MANUFACTURING	(32) 31.07.2017
CONTACTLESS DETECTION MEANS	A MAGNETIC CIRCUIT DEVICE	(33) United States of America
ARRANGED ON SAID AUTOMATIC	(73) Krohne AG	<hr/>
MOVING MEANS	(72) Neven, Joseph	(51) G01F 1/84
(73) Saint-Gobain Glass France	Paul, Christian	(11) EP3655731
(72) CARLU, Adrien	(31) 102020114056	(21) EP17745598.7
MARLIER, Alexandre	(32) 26.05.2020	(47) 30.08.2023
(31) 1902931	(33) Germany	(87) US2017042523
(32) 21.03.2019	(51) G01F 1/66	24.01.2019
(33) France	G01F 1/667	(22) 18.07.2017
(51) G01D 21/00	G01F 1/684	(54) FLOWMETER SENSOR WITH
F15B 15/20	G01F 1/69	INTERCHANGEABLE FLOW PATH AND
G08C 17/04	(11) EP4130687	RELATED METHOD
H04B 5/00	(21) EP22181446.0	(73) Micro Motion Inc.
F15B 15/14	(47) 30.08.2023	(72) SKINKLE, David
H04Q 9/00	(22) 28.06.2022	<hr/>
(11) EP3767247	(54) FLOW MEASURING SYSTEM	(51) G01F 15/063
(21) EP20186789.2	(73) SICK Engineering GmbH	A61M 16/00
(47) 30.08.2023	(72) STARKE, Eric	G01F 15/00
(22) 20.07.2020	KÜNZELMANN, Mario	G05D 7/06
(54) SYSTEMS AND METHODS FOR	KLEMM, Markus	(11) EP3529566
PISTON ROD MONITORING	(31) 102021120363	(21) EP17861938.3
(73) General Electric Company	(32) 05.08.2021	(47) 30.08.2023
(72) AIMI, Marco Francesco	(33) Germany	(87) US2017057306
KAPUSTA, Christopher James	(51) G01F 1/66	26.04.2018
IANNOTTI, Joseph Alfred	G01F 1/667	(22) 19.10.2017
(31) 201916517071	G01M 3/26	(54) ELECTRONIC FLOWMETER WITH
(32) 19.07.2019	G01F 1/72	REGULATOR
(33) United States of America	G01F 15/00	(73) Medtec Medical, Inc.
		(72) KILCRAN, Michael D.
		(31) 201662409953 P
		(32) 19.10.2016

(33) United States of America	(31) 102020013307	G02B 6/02
(51) G01F 15/063	(32) 11.12.2020	G01V 1/22
F17D 1/04	(33) Germany	G01V 1/40
G01M 3/28	(51) G01G 11/00	(11) EP3938744
G05B 23/02	G01M 1/30	(21) EP20717030.9
G01D 4/00	G01G 23/01	(47) 30.08.2023
G01F 15/00	G01G 23/06	(87) US2020021717
(11) EP3772634	(11) EP3788327	17.09.2020
(21) EP20188483.0	(21) EP19723645.8	(22) 09.03.2020
(47) 30.08.2023	(47) 30.08.2023	(54) DOWNHOLE MONITORING USING
(22) 29.07.2020	(87) DE2019100389	FEW-MODE OPTICAL FIBER BASED
(54) METHOD FOR MONITORING A SET OF	07.11.2019	DISTRIBUTED ACOUSTIC SENSING
METERS	(22) 30.04.2019	(73) Saudi Arabian Oil Company
(73) Sagemcom Energy & Telecom SAS	(54) METHOD FOR OPTIMIZING A	King Abdullah University Of Science And
(72) TEBOULLE, Henri	WEIGHING BELT	Technology
(31) 1909128	(73) WIPOTEC GmbH	(72) BIN ALIAS, Mohd Sharizal
(32) 09.08.2019	(72) GOTTFRIEDSEN, Jan	ASHRY, Islam
(33) France	(31) 102018110797	OOI, Boon Siew
(51) G01F 23/18	(32) 04.05.2018	YUAN, Mao
(11) EP3077776	(33) Germany	ARSALAN, Muhammad
(21) EP14867577.0	(51) G01G 17/04	HVEDING, Frode
(47) 30.08.2023	G01W 1/14	(31) 201916299918
(87) US2014067900	(11) EP3875921	(32) 12.03.2019
11.06.2015	(21) EP21160694.2	(33) United States of America
(22) 01.12.2014	(47) 30.08.2023	(51) G01J 1/42
(54) GAS SUPPLY WARNING AND	(22) 04.03.2021	G06F 3/03
COMMUNICATION SYSTEM	(54) ROOF SNOW LOAD MONITORING	G01J 1/02
(73) Obenchain, Valerie A.	DEVICE AND ROOF LOAD	G01J 1/04
(72) Obenchain, Valerie A.	MONITORING SYSTEM	G06F 3/01
(31) 201314093851	(73) Reisch, Reiner	G06F 1/3231
(32) 02.12.2013	(72) Reisch, Reiner	G06F 1/16
(33) United States of America	(31) 102020105953	(11) EP3037921
(51) G01F 23/24	(32) 05.03.2020	(21) EP15190588.2
F16N 29/04	(33) Germany	(47) 30.08.2023
(11) EP3764066	(51) G01G 21/24	(22) 20.10.2015
(21) EP20182296.2	(11) EP3798588	(54) SENSOR FOR MOTION INFORMATION,
(47) 30.08.2023	(21) EP20174901.7	ILLUMINATION INFORMATION AND
(22) 25.06.2020	(47) 30.08.2023	PROXIMITY INFORMATION, AND
(54) AIRCRAFT ACTUATOR FLUID LEVEL	(22) 15.05.2020	OPERATING METHOD OF CENTRAL
DETECTION	(54) MONOLITHIC WEIGHING BLOCK	PROCESSING UNIT (CPU) USING THE
(73) Hamilton Sundstrand Corporation	(73) WIPOTEC GmbH	SENSOR
(72) ANKNEY, Darrell E.	(72) Gottfriedsen, Jan	(73) Samsung Electronics Co., Ltd.
(31) 201916510219	Klingelhöfer, Jan-David	(72) Kim, Junseok
(32) 12.07.2019	Asal, Thorsten	Lee, Jun Haeng
(33) United States of America	Stellwagen, Tobias	Kim, Sung Ho
(51) G01F 23/284	(31) 102019113001	Ryu, Eric Hyunsurk
H01P 3/00	(32) 16.05.2019	Suh, Yunjae
(11) EP3760984	(33) Germany	(31) 20140191032
(21) EP19184075.0	(51) G01G 21/24	(32) 26.12.2014
(47) 30.08.2023	G01L 1/22	(33) Korea (Republic)
(22) 03.07.2019	(11) EP4062134	(51) G01J 3/02
(54) TRANSMISSION LINE PROBE	(21) EP20804227.5	G01J 3/28
(73) Rosemount Tank Radar AB	(47) 30.08.2023	G01J 3/12
(72) Edvardsson, Olov	(87) EP2020081466	(11) EP3184975
(51) G01F 23/296	27.05.2021	(21) EP15202374.3
G01F 25/20	(22) 09.11.2020	(47) 30.08.2023
(11) EP4012356	(54) MONOLITHIC WEIGHING SYSTEM	(22) 23.12.2015
(21) EP21214085.9	AND METHOD FOR PRODUCING	(54) A SPECTROMETER MODULE
(47) 30.08.2023	SAME	(73) Spectricity
(22) 13.12.2021	(73) Sartorius Lab Instruments GmbH & Co.	(72) BARON, Jerome
(54) METHOD FOR DETERMINING A	KG	BORREMANS, Jonathan
FILLING LEVEL, ULTRASONIC	(72) GEISLER, Matthias	LAMBRECHTS, Andy
SENSOR AND MEASURING DEVICE	BODE, Jonas	(51) G01J 3/02
FOR DETERMINING A VOLUME OF A	(31) 102019131101	G01J 3/52
FILLING MATERIAL	(32) 18.11.2019	G01J 3/42
(73) Pepperl+Fuchs SE	(33) Germany	(11) EP3431941
(72) KNITTEL, Thomas	(51) G01H 9/00	(21) EP18183640.4
		(47) 30.08.2023

(22) 16.07.2018	(72) FAIST, Jérôme	G01K 7/18
(54) OPTICAL MODULE AND ELECTRONIC APPARATUS	HUGI, Andreas	(11) EP3757534
(73) Seiko Epson Corporation	FERREIRA VILLARES, Gustavo Filipe	(21) EP20182590.8
(72) OGUCHI, Satoshi	(31) 14172614	(47) 30.08.2023
(31) 2017138795	(32) 16.06.2014	(22) 26.06.2020
(32) 18.07.2017	(33) European Patent Office (EPO)	(54) PLATINUM RESISTANCE
(33) Japan	(51) G01J 3/28	TEMPERATURE SENSOR HAVING A
(51) G01J 3/02	G01J 3/02	FLOATING PLATINUM MEMBER
G01N 21/25	(11) EP3830536	(73) Fluke Corporation
G01J 3/52	(21) EP19756006.3	(72) FARLEY, David
G01J 3/50	(47) 30.08.2023	BROWN, Timothy
G01J 3/42	(87) NL2019050500	LEACH, Donald
G01J 3/36	06.02.2020	DING, Rong
G01J 3/32	(22) 26.07.2019	(31) 201916457476
G01J 3/28	(54) SLIT HOMOGENIZER FOR SPECTRAL	(32) 28.06.2019
G01J 3/10	IMAGING	(33) United States of America
G01N 21/47	(73) Nederlandse Organisatie voor toegepast-	(51) G01K 11/24
G01N 21/55	natuurwetenschappelijk onderzoek TNO	B64D 43/02
(11) EP4070053	(72) CARON, Jerome	G01F 23/296
(21) EP20827987.7	VINK, Henri Johannes Petrus	G01N 29/02
(47) 30.08.2023	(31) 18186243	B64D 43/00
(87) EP2020084302	(32) 30.07.2018	B64D 45/00
10.06.2021	(33) European Patent Office (EPO)	G01N 29/07
(22) 02.12.2020	(51) G01J 3/36	G01N 29/34
(54) COLOUR MEASUREMENT	G01N 21/3504	G01N 29/44
(73) ams Sensors Germany GmbH	G01J 3/42	G01N 29/48
(72) SIESS, Gunter	G01J 3/447	G01P 13/02
(31) 201962943038 P	G01J 3/453	G01S 7/52
(32) 03.12.2019	G01N 21/31	G01S 7/521
(33) United States of America	G01N 21/39	G01S 15/00
(51) G01J 3/10	G01N 33/00	G01S 15/04
G01J 3/433	(11) EP3218681	G01S 15/88
G01J 3/02	(21) EP15828685.6	G01P 5/24
G01J 3/28	(47) 30.08.2023	G01S 15/60
G01B 11/25	(87) NL2015050799	(11) EP3594645
(11) EP3108216	19.05.2016	(21) EP19185811.7
(21) EP15709088.7	(22) 13.11.2015	(47) 30.08.2023
(47) 30.08.2023	(54) SPATIALLY RESOLVED GAS	(22) 11.07.2019
(87) EP2015000344	DETECTION	(54) AIRCRAFT GROUND SAFETY FOR
27.08.2015	(73) Nederlandse Organisatie voor toegepast-	ULTRASONIC SENSORS
(22) 17.02.2015	natuurwetenschappelijk onderzoek TNO	(73) Rosemount Aerospace Inc.
(54) METHOD AND DEVICE FOR	(72) VISSER, Huibert	(72) SLY, Jaime
HYPERSPECTRAL IMAGING	VAN BRUG, Hedser	BOELMAN, Joshua
(73) Universität Stuttgart	(31) 14192989	(31) 201816034836
(72) LYDA, Wolfram	(32) 13.11.2014	(32) 13.07.2018
BOETTCHER, Tobias	(33) European Patent Office (EPO)	(33) United States of America
OSTEN, Wolfgang	(51) G01J 5/34	(51) G01L 1/00
KÖRNER, Klaus	G08B 13/191	G01N 25/00
GRONLE, Marc	G01J 5/02	G01M 99/00
(31) 102014002514	G01J 5/00	G01M 5/00
(32) 21.02.2014	F24F 11/30	G01L 5/24
(33) Germany	F24F 120/10	G01M 17/08
(51) G01J 3/10	(11) EP3403063	G01L 1/24
G01J 3/433	(21) EP17702196.1	(11) EP3919880
G01J 9/04	(47) 30.08.2023	(21) EP19918586.9
(11) EP3155384	(87) US2017012913	(47) 30.08.2023
(21) EP15729819.1	20.07.2017	(87) JP2019048746
(47) 30.08.2023	(22) 11.01.2017	17.09.2020
(87) EP2015063423	(54) PYROELECTRIC DETECTOR SYSTEM	(22) 12.12.2019
23.12.2015	(73) Carrier Corporation	(54) STRESS PROPERTIES
(22) 16.06.2015	(72) SOLDNER, Nicholas Charles	MEASUREMENT METHOD, STRESS
(54) METHOD FOR HIGH-RESOLUTION	MANTESE, Joseph V.	PROPERTIES MEASUREMENT
SPECTROSCOPY IN A MULTI-	XIONG, Ziyou	DEVICE, AND STRESS PROPERTIES
HETERODYNE SETUP AND	FINN, Alan Matthew	MEASUREMENT SYSTEM
CORRESPONDING MULTI-	(31) 20166227292 P	(73) Panasonic Intellectual Property
HETERODYNE SPECTROMETER	(32) 11.01.2016	Management Co., Ltd.
(73) ETH Zürich	(33) United States of America	(72) IRIE Yousuke
	(51) G01K 1/10	(31) 2019042704

(32) 08.03.2019	(21) EP19740544.2	SOLAR, Milan
(33) Japan	(47) 30.08.2023	(31) 20170171
(51) G01L 19/00	(87) EP2019068933	(32) 27.03.2017
G01K 1/26	27.02.2020	(33) Czech Republic
G01L 19/14	(22) 15.07.2019	(51) G01N 1/22
(11) EP4151974	(54) METHOD AND SYSTEM FOR DIRECT	(11) EP4155710
(21) EP22194029.9	DETERMINATION OF THEORETICAL	(21) EP22187054.6
(47) 30.08.2023	DAMAGE TO AT LEAST ONE	(47) 30.08.2023
(22) 06.09.2022	COMPONENT OF A DEVICE	(22) 26.07.2022
(54) COMBINED SENSOR	(73) ZF Friedrichshafen AG	(54) MEASURING SYSTEM AND METHOD
(73) Yazaki Corporation	(72) SCHÄFER, Johannes	FOR MEASURING GASEOUS FLUE
(72) MURAMOTO, Daichi	STICKER, Marco	GAS COMPONENTS
NOMOTO, Shingo	(31) 102018214099	(73) SICK AG
(31) 2021144463	(32) 21.08.2018	(72) Andräß, Siegfried
(32) 06.09.2021	(33) Germany	Martin, Kaltenbach
(33) Japan	(51) G01M 11/00	Sobotta, Bernd
(51) G01L 19/06	B25J 9/16	(31) 102021124693
G01L 19/00	G05B 19/418	(32) 23.09.2021
(11) EP3598097	(11) EP3615908	(33) Germany
(21) EP19190088.5	(21) EP18709306.7	(51) G01N 1/28
(47) 30.08.2023	(47) 30.08.2023	H01J 37/317
(22) 19.07.2013	(87) EP2018054866	H01J 37/31
(54) PRESSURE TRANSMITTER HAVING	01.11.2018	G01N 1/32
AN ISOLATION ASSEMBLY WITH A	(22) 28.02.2018	H01J 37/302
TWO-PIECE ISOLATOR PLUG	(54) CONTROL DEVICE FOR A TEST	(11) EP3163283
(73) Eriksen, Christopher Lee	APPARATUS, TEST ARRANGEMENT	(21) EP15815501.0
Rosemount, Inc.	WITH THE CONTROL DEVICE,	(47) 30.08.2023
Xu, Lihong	METHOD FOR CONTROLLING	(87) JP2015068688
(72) XU, Lihong	THE TEST ARRANGEMENT AND	07.01.2016
ERIKSEN, Christopher Lee	COMPUTER PROGRAM	(22) 29.06.2015
(51) G01M 3/28	(73) Robert Bosch GmbH	(54) AUTOMATED SAMPLE-PREPARATION
G01F 3/26	(72) KLAR, Michael	DEVICE
(11) EP3714248	ZIEMLICH, Winfrid	(73) Hitachi High-Tech Science Corporation
(21) EP18807938.8	JUNG, Thomas Josef	(72) SATO, Makoto
(47) 30.08.2023	GEILER, Thomas	ASAHATA, Tatsuya
(87) EP2018082025	STRINK, Peter	YAMAMOTO, Yo
31.05.2019	KUNZ, Dieter	UEMOTO, Atsushi
(22) 21.11.2018	ACKERMANN, Jens	(31) 2014134977
(54) LEAKAGE MONITORING DEVICE FOR	(31) 102017207063	(32) 30.06.2014
A SHAFT SEAL	(32) 27.04.2017	(33) Japan
(73) KSB SE & Co. KGaA	(33) Germany	(51) G01N 1/30
(72) BERNHARDT, Manuel	(51) G01M 13/027	C12Q 1/04
VEGA-VÖLK, Josephine	G01N 3/24	G01N 33/50
URBAN, Lutz	(11) EP3943910	(11) EP3729048
OBERMAIR, Frank	(21) EP21187638.8	(21) EP18830253.3
LAUE, Stefan	(47) 30.08.2023	(47) 30.08.2023
(31) 102017220753	(22) 26.07.2021	(87) EP2018086069
(32) 21.11.2017	(54) APPARATUS AND METHOD FOR	27.06.2019
(33) Germany	TESTING DRIVE SHAFT JOINTS	(22) 20.12.2018
(51) G01M 3/32	(73) Hamilton Sundstrand Corporation	(54) PHENOL-FREE ACID-FAST STAINING
G08B 29/14	(72) KING, Michael	COMPOSITION AND USE THEREOF
(11) EP3907484	GRYK, Kevin Thomas	(73) Ventana Medical Systems, Inc.
(21) EP20382378.6	GURVICH, Mark R.	(72) KLEIN, Eric
(47) 30.08.2023	SCHAEFER, Joyel M.	SACCHETTI, Dominic
(22) 08.05.2020	REED, Brayton	MEHTA, Parula
(54) DETECTION OF LEAKAGE IN AN	(31) 202063056049 P	KESHWANI, Malik
ASPIRATING FIRE DETECTION	(32) 24.07.2020	KOSMEDER II, Jerome W.
SYSTEM	(33) United States of America	(31) 201762610215 P
(73) Carrier Corporation	(51) G01N 1/20	(32) 24.12.2017
(72) MOIX OLIVÉ, Pere	G01N 1/10	(33) United States of America
(51) G01M 5/00	(11) EP3382366	(51) G01N 1/36
G01M 13/02	(21) EP18164301.6	G01N 33/48
G01M 13/04	(47) 30.08.2023	(11) EP3748330
G01M 15/00	(22) 27.03.2018	(21) EP19841496.3
G05B 23/02	(54) SAMPLING SYSTEM FOR TAKING	(47) 30.08.2023
G07C 5/08	FUEL SAMPLES	(87) JP2019020019
(11) EP3841366	(73) Rofa Praha S.R.O.	30.01.2020
	(72) FIEDLER, Matthias	(22) 21.05.2019

(54) EMBEDDING DEVICE	(33) United States of America	CORRIGAN III, George H.
(73) Sakura Finetek Japan Co., Ltd. Sakura Seiki Co., Ltd	(51) G01N 9/14 G01N 9/18	GIRI, Manish WOODFORD, Tod
(72) NARITA, Mitsuki MIMURA, Masahisa NAKAZAWA, Yoshiaki	(11) EP3523625 (21) EP17794833.8 (47) 30.08.2023	YU, Joshua M. ZAVAREHI, Masoud
(31) 2018139203 (32) 25.07.2018 (33) Japan	(87) US2017057358 24.05.2018 (22) 19.10.2017	(51) G01N 15/10 G01N 35/10 B41J 2/04 B01L 3/00 B41J 2/14 B01L 3/02
(51) G01N 1/40 G01N 1/22	(54) DIGITAL HYDROMETER ASSISTANT READER	(11) EP3427035 (21) EP16910700.0 (47) 30.08.2023 (87) US2016044097 01.02.2018
(11) EP3042175 (21) EP14766367.8 (47) 30.08.2023 (87) US2014054266 12.03.2015 (22) 05.09.2014	(73) Fresenius Medical Care Holdings, Inc. (72) JAMES, Philip ROMERO SALDIVAR, Gilberto VARETH, Matin GARRIDO GARZA, Hernando	(22) 26.07.2016 (54) MICROFLUIDIC APPARATUSES (73) Hewlett-Packard Development Company, L.P.
(54) LIQUID-FREE SAMPLE TRAPS AND ANALYTICAL METHOD FOR MEASURING TRACE LEVEL ACIDIC AND BASIC AMC	(31) 201615351836 (32) 15.11.2016 (33) United States of America	(72) WARD, Kenneth GIRI, Manish DOMINGUE, Chantelle HAMMERSTAD, Diane, R. SMITH, Matthew David YU, Joshua M. NIELSEN, Jeffrey A. ELY, Hilary DUDENHOEFER, Christie
(73) Entegris, Inc. (72) GAUDREAU, John, C. LEBLANC, Thomas MOULTON, Tyler LOBERT, Jürgen, M.	(51) G01N 13/02 G01N 15/14 G01N 35/10 B01L 3/02	(51) G01N 15/14 G01J 3/26 G01N 21/03 G01J 3/28 G02B 5/28 G03H 1/02 G01J 3/02 G01N 15/10 G03H 1/04 G03H 1/00 G01N 15/02
(31) 201461933294 P 201361874706 P (32) 29.01.2014 06.09.2013 (33) United States of America United States of America	(11) EP3839476 (21) EP19216570.2 (47) 30.08.2023 (22) 16.12.2019 (54) METHOD AND DEVICE FOR DETERMINING A POSITION AND/OR THE EXPANSION OF A DROP	(11) EP3575774 (21) EP19177020.5 (47) 30.08.2023 (22) 28.05.2019 (54) METHOD FOR OBSERVING PARTICLES, IN PARTICULAR SUBMICRON PARTICLES
(51) G01N 3/08 B29C 45/17 B29C 45/76 B29K 27/12	(73) TECAN TRADING AG (72) Zerza, Gerald Grassl, Josef Schüller, Alwin	(73) Commissariat à l'Énergie Atomique et aux Énergies Alternatives (72) ALLIER, Cédric BENAHMED, Selimen BOUTAMI, Salim
(11) EP3800463 (21) EP19838426.5 (47) 30.08.2023 (87) JP2019023907 23.01.2020 (22) 17.06.2019	(51) G01N 15/02 B81B 7/04 G01N 21/62 B01L 3/02 G01N 15/12 G01N 15/10	(31) 1854721 (32) 31.05.2018 (33) France
(54) METHOD FOR TESTING MELT- PROCESSIBLE FLUORORESIN INJECTION-MOLDED PRODUCT AND METHOD FOR PRODUCING MELT-PROCESSIBLE FLUORORESIN INJECTION-MOLDED PRODUCT	(11) EP3861316 (21) EP18936191.8 (47) 30.08.2023 (87) US2018053725 09.04.2020 (22) 01.10.2018 (54) BATCH PARTICLE SORTING	(51) G01N 15/14 G01N 15/00 G06T 7/00 G06T 7/60 G06T 7/62 G06V 20/69 (11) EP3904859 (21) EP21179105.8 (47) 30.08.2023 (22) 13.04.2012 (54) SYSTEM AND METHOD FOR DETERMINING A PLATELET VOLUME FOR A BLOOD SAMPLE, COMPUTER
(73) DAIKIN INDUSTRIES, LTD. (72) AOYAMA, Takahisa KUWAJIMA, Yuuki TSUDA, Hayato	(73) Hewlett-Packard Development Company, L.P. (72) D'APUZZO, Fausto LEI, Yang SHKOLNIKOV, Viktor	(31) 2018134253 (32) 17.07.2018 (33) Japan
(51) G01N 3/20 (11) EP3121585 (21) EP16180593.2 (47) 30.08.2023 (22) 21.07.2016	(51) G01N 15/10 B01L 3/00 B41J 2/04 G01N 35/10	(51) G01N 15/14 G01N 15/00 G06T 7/00 G06T 7/60 G06T 7/62 G06V 20/69 (11) EP3904859 (21) EP21179105.8 (47) 30.08.2023 (22) 13.04.2012 (54) SYSTEM AND METHOD FOR DETERMINING A PLATELET VOLUME FOR A BLOOD SAMPLE, COMPUTER
(54) METHOD OF DETERMINING STRAIN LIMITS	(11) EP3436799 (21) EP16910701.8 (47) 30.08.2023 (87) US2016044099 01.02.2018 (22) 26.07.2016	
(73) Goodrich Corporation (72) EVANS, Edward Benedict AWASTHI, Hiten PANZA-GIOSA, Roque	(54) MICROFLUIDIC APPARATUSES FOR FLUID MOVEMENT CONTROL (73) Hewlett-Packard Development Company, L.P. (72) SMITH, Matthew David DOMINGUE, Chantelle	
(31) 201514805109 (32) 21.07.2015		

PROGRAM AND COMPUTER READABLE MEDIUM	(54) DEVICE AND METHOD FOR DETECTING AND/OR CHARACTERIZING FLUID-BORNE PARTICLES	(32) 20.05.2008 (33) European Patent Office (EPO)
(73) Roche Diagnostics Hematology, Inc.	(73) Clair SA	(51) G01N 21/17
(72) ZAHNISER, Michael	(72) KISELEVA, Svetlana	G01N 27/327
ZAHNISER, Russell	KISELEV, Denis	G01N 33/53
(31) 201261589672 P	(31) 201662352171 P	G01N 21/64
201161510710 P	(32) 20.06.2016	G01N 21/76
201161510614 P	(33) United States of America	G01N 33/84
201161476179 P	(51) G01N 19/10	(11) EP3906401
201161476170 P	G01N 33/24	(21) EP19864006.2
(32) 23.01.2012	A01G 27/00	(47) 30.08.2023
22.07.2011	F16K 31/00	(87) IB2019001438
22.07.2011	(11) EP3655755	09.07.2020
15.04.2011	(21) EP18835598.6	(22) 17.12.2019
15.04.2011	(47) 30.08.2023	(54) PH-MODULATED IMAGING OF TARGETS CLOSE TO A SOLID SURFACE
(33) United States of America	(87) IL2018050792	(73) Robert Bosch GmbH
United States of America	24.01.2019	(72) STALEY, Patrick A.
United States of America	(22) 18.07.2018	FOMINA, Nadia
United States of America	(54) SOIL WATER POTENTIAL EFFECTOR APPARATUS	JOHNSON, Christopher
United States of America	(73) I-Dripper Ltd.	SHIN, Young Shik
(51) G01N 15/14	(72) SHETRIT, Arik	(31) 201916355113
G01N 15/10	(31) 25354017	201862787162 P
(11) EP3241014	201862662950 P	(32) 15.03.2019
(21) EP15790611.6	(32) 18.07.2017	31.12.2018
(47) 30.08.2023	26.04.2018	(33) United States of America
(87) FR2015052857	(33) Israel	United States of America
07.07.2016	United States of America	(51) G01N 21/27
(22) 23.10.2015	(51) G01N 21/03	(11) EP3534148
(54) SYSTEM FOR ANALYSING A TRANSPARENT SAMPLE WITH CONTROL OF POSITION, AND ASSOCIATED METHOD	A61B 5/145	(21) EP17876926.1
(73) Commissariat à l'Energie Atomique et aux Énergies Alternatives	G01N 21/78	(47) 30.08.2023
Biomérieux	(11) EP3775845	(87) JP2017023037
(72) KLOSTER-LANDSBERG, Meike	(21) EP19717456.8	07.06.2018
JOSSO, Quentin	(47) 30.08.2023	(22) 22.06.2017
JOLY, Pierre	(87) EP2019058754	(54) TARGET SUBSTANCE DETECTION DEVICE AND TARGET SUBSTANCE DETECTION METHOD
PERRAUT, François	17.10.2019	(73) National Institute of Advanced Industrial Science and Technology
(31) 1463445	(22) 08.04.2019	(72) ASHIBA, Hiroki
(32) 30.12.2014	(54) POROUS MEMBRANE SENSOR ELEMENT	FUJIMAKI, Makoto
(33) France	(73) Radiometer Medical ApS	SHIMA, Takayuki
(51) G01N 15/14	(72) KJÆR, Thomas	YASUURA, Masato
G01N 21/64	(31) PA201800154	(31) 2016232382
(11) EP3957977	(32) 12.04.2018	(32) 30.11.2016
(21) EP19730860.4	(33) Denmark	(33) Japan
(47) 30.08.2023	(51) G01N 21/17	(51) G01N 21/27
(87) ES2019070270	G01N 21/64	G01N 21/35
22.10.2020	G01N 15/14	G01N 33/00
(22) 18.04.2019	B01L 3/00	G01N 21/39
(54) FLUIDIC APPARATUS FOR OPTICAL INTERROGATION OF INDIVIDUAL MICROORGANISMS	G01N 15/00	(11) EP3835759
(73) Fundació Institut de Ciències Fotòniques	G01N 35/00	(21) EP19214849.2
Institució Catalana de Recerca i Estudis Avançats	G01N 15/10	(47) 30.08.2023
(72) MARTÍNEZ CORDERO, Pedro Antonio	(11) EP3789753	(22) 10.12.2019
JOFRE, Marc	(21) EP19219209.4	(54) METHOD AND GAS ANALYSER FOR MEASURING THE CONCENTRATION OF A MEASUREMENT GAS IN A GAS MIXTURE
PRUNERI, Valerio	(47) 30.08.2023	(73) Siemens Aktiengesellschaft
(51) G01N 15/14	(22) 20.05.2009	(72) Deppenheuer, Daniel
G01N 21/64	(54) METHOD AND DEVICE FOR MEASURING THERMO-OPTICAL CHARACTERISTICS OF FLUORESCENTLY MARKED PARTICLES IN A SOLUTION	Bitter, Ralf
G01N 15/10	(73) NanoTemper Technologies GmbH	Rupp, Simone Isabel
(11) EP3472591	(72) DUHR, Stefan	(51) G01N 21/3504
(21) EP17723061.2	BAASKE, Philipp	G01N 21/359
(47) 30.08.2023	WIENKEN, Jens Christoph	(11) EP3887801
(87) EP2017061070	(31) 08009275	(21) EP19839342.3
28.12.2017		(47) 30.08.2023
(22) 09.05.2017		

(87) FR2019052784 04.06.2020	SEKISUI CHEMICAL CO., LTD.	(73) Sony Group Corporation
(22) 22.11.2019	(72) ASANO, Motohiko	(72) NAKAGAWA, Kazuhiro
(54) GAS SENSOR COMPRISING A PULSED LIGHT SOURCE	DOI, Jun	CHUBACHI, Hideya
(73) Elichens	AKAGI, Yoshinori	TAGUCHI, Ayumu
(72) DUPREZ, H�el�ene	ENDO, Tatsuro	(31) 2019005402
(31) 1871955	(31) 2019052598	2018138663
(32) 27.11.2018	2018143726	(32) 16.01.2019
(33) France	(32) 20.03.2019	24.07.2018
(51) G01N 21/3581	(33) Japan	(33) Japan
G01N 21/15	Japan	(51) G01N 21/64
G01N 21/552	(51) G01N 21/64	G02B 21/16
G01N 21/3577	A61B 1/04	G02B 21/00
G01N 21/94	A61B 1/06	G05B 19/418
(11) EP3828528	A61B 5/00	G05B 19/042
(21) EP20207138.7	G01J 3/10	(11) EP3123149
(47) 30.08.2023	G01J 3/32	(21) EP15719620.5
(22) 12.11.2020	G01J 3/44	(47) 30.08.2023
(54) DETERMINATION OF AN IMPAIRMENT OF AN OPTICAL SURFACE FOR IR- SPECTROSCOPY	G01N 21/80	(87) EP2015056157
(73) Anton Paar GmbH	G01N 21/91	01.10.2015
(72) Scheibelhofer, Otto	(11) EP3940371	(22) 23.03.2015
Benes, Roman	(21) EP21174170.7	(54) METHOD FOR CONTROLLING A PLURALITY OF FUNCTIONAL MODULES INCLUDING A MULTI- WAVELENGTH IMAGING DEVICE, AND CORRESPONDING CONTROL SYSTEM
(31) 510392019	(47) 30.08.2023	(73) CNRS (Centre National de la Recherche Scientifique)
(32) 28.11.2019	(22) 03.06.2015	Universit�e de Rennes I
(33) Austria	(54) METHOD AND IMAGING APPARATUS FOR ACQUISITION OF FLUORESCENCE AND REFLECTANCE IMAGES	(72) PECREAU, Jacques
(51) G01N 21/47	(73) Universit�t Heidelberg	TRAMIER, Marc
G01N 21/00	(72) DIMITRIADIS, Nikolas	ROUL, Julien
G01N 21/01	DELIOLANIS, Nikolaos	(31) 1452766
G01N 21/17	(31) 15160630	(32) 28.03.2014
G01N 21/81	14171378	(33) France
G01N 21/84	(32) 24.03.2015	(51) G01N 21/65
(11) EP3811058	05.06.2014	G02B 1/00
(21) EP19824479.0	(33) European Patent Office (EPO)	G01J 3/44
(47) 30.08.2023	European Patent Office (EPO)	(11) EP3677902
(87) US2019039015	(51) G01N 21/64	(21) EP19198401.2
02.01.2020	C12Q 1/6841	(47) 30.08.2023
(22) 25.06.2019	G02B 21/00	(22) 19.09.2019
(54) OPTICAL RAIN SENSOR WITH DYNAMIC OPTICAL CONFIGURATION CONTROL	G06T 5/00	(54) SURFACE-ENHANCED RAMAN SCATTERING PATCH AND RAMAN SPECTROSCOPY SYSTEM ADOPTING THE SAME
(73) Littelfuse, Inc.	(11) EP3388819	(73) Samsung Electronics Co., Ltd.
(72) SOLISKIS, Liutauras	(21) EP18166770.0	(72) ROH, Younggeun
KETLERIUS, Mindaugas	(47) 30.08.2023	KIM, Unjeong
(31) 201862689509 P	(22) 11.04.2018	PARK, Yeonsang
(32) 25.06.2018	(54) FLUORESCENCE IMAGE ANALYZING APPARATUS AND IMAGE PROCESSING METHOD OF FLUORESCENCE IMAGE	(31) 20190000856
(33) United States of America	(73) SYSMEX CORPORATION	(32) 03.01.2019
(51) G01N 21/51	(72) Matsumoto, Shohei	(33) Korea (Republic)
C12M 1/34	Sharma, Shruti	(51) G01N 21/85
G01N 21/03	(31) 2017080851	G01N 15/06
G01N 33/579	(32) 14.04.2017	G01N 15/00
G01N 33/92	(33) Japan	G01N 1/22
G01N 21/77	(51) G01N 21/64	G01N 15/02
G01N 33/543	G01N 33/533	(11) EP4001893
G01N 33/549	(11) EP3828531	(21) EP21199109.6
G01N 21/41	(21) EP19841590.3	(47) 30.08.2023
(11) EP3832292	(47) 30.08.2023	(22) 27.09.2021
(21) EP19844087.7	(87) JP2019026916	(54) PARTICLE DETECTION SENSOR AND PARTICLE DETECTOR
(47) 30.08.2023	30.01.2020	(73) Sharp Semiconductor Innovation Corporation
(87) JP2019030010	(22) 05.07.2019	(72) OKAMI, Mitsutoshi
06.02.2020	(54) INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, INFORMATION PROCESSING SYSTEM, AND PROGRAM	
(22) 31.07.2019		
(54) INSPECTING METHOD, INSPECTING INSTRUMENT, AND INSPECTING DEVICE		
(73) University Public Corporation Osaka		

NARUSE, Daiki	(21) EP20183416.5	(73) Palo Alto Research Center Incorporated
FUJIYAMA, Toshiya	(47) 30.08.2023	(72) SCHWARTZ, David
SASABE, Hirokazu	(22) 01.07.2020	SMITH, Clinton
TAKEUCHI, Noboru	(54) INSPECTION APPARATUS	COCKER, Eric
MASUDA, Yoshifumi	(73) Ishida Co., Ltd.	BAO, Jianer
(31) 2020166199	(72) YURUGI, Futoshi	(31) 201715800788
(32) 30.09.2020	TOMINAGA, Kota	(32) 01.11.2017
(33) Japan	MAKI, Hiroaki	(33) United States of America
(51) G01N 21/88	IWAI, Atsushi	(51) G01N 27/12
G01N 21/95	(31) 2019126313	G01N 33/00
G06T 7/00	(32) 05.07.2019	(11) EP4033232
(11) EP3401672	(33) Japan	(21) EP21153005.0
(21) EP16883750.8	(51) G01N 23/06	(47) 30.08.2023
(47) 30.08.2023	(11) EP3397953	(22) 22.01.2021
(87) JP2016087175	(21) EP16871809.6	(54) CARBON-BASED GAS SENSING
13.07.2017	(47) 30.08.2023	DEVICE AND METHOD FOR
(22) 14.12.2016	(87) US2016066329	OPERATING A CARBON-BASED GAS
(54) FLAW DETECTION DEVICE AND FLAW	06.07.2017	SENSING DEVICE
DETECTION METHOD	(22) 13.12.2016	(73) Infineon Technologies AG
(73) SCREEN Holdings Co., Ltd.	(54) REFERENCE DETECTOR FOR	(72) Roth, Alexandra Marina
(72) ONISHI, Hiroyuki	CORRECTING FLUCTUATIONS IN	Zoepfl, Alexander
(31) 2016002686	DOSE AND ENERGY OF X-RAY	Beaurenaut, Laurent
(32) 08.01.2016	SOURCES	Travan, Caterina
(33) Japan	(73) Leidos Security Detection & Automation,	(51) G01N 27/22
(51) G01N 21/95	Inc.	G01N 33/14
G01N 21/88	(72) DUJMIC, Denis	G01N 33/487
G01N 21/359	(31) 201514980284	(11) EP3230723
G01N 21/3563	(32) 28.12.2015	(21) EP15808014.3
B07C 5/342	(33) United States of America	(47) 30.08.2023
B65B 5/10	(51) G01N 23/20008	(87) GB2015053741
B65B 9/04	A61B 6/10	16.06.2016
B65B 57/12	G01V 8/20	(22) 07.12.2015
(11) EP3865858	(11) EP3627192	(54) PROBE FOR MEASURING THE
(21) EP19871852.0	(21) EP18195713.5	BIOMASS CONTENT IN A MEDIUM
(47) 30.08.2023	(47) 30.08.2023	(73) Aber Instruments Ltd
(87) JP2019030669	(22) 20.09.2018	(72) TODD, Robert W.
16.04.2020	(54) PROTECTION DEVICE FOR AN AREA	(31) 201422119
(22) 05.08.2019	DETECTOR	(32) 12.12.2014
(54) INSPECTION DEVICE, BLISTER	(73) Rigaku Corporation	(33) United Kingdom
PACKAGING MACHINE, AND BLISTER	(72) KUCHARCZYK, Damian	(51) G01N 27/416
SHEET MANUFACTURING METHOD	(51) G01N 25/02	G01N 1/38
(73) CKD CORPORATION	G01N 21/84	(11) EP4007912
(72) TAGUCHI Yukihiko	G01N 33/02	(21) EP20754179.8
(31) 2018191570	G01N 21/47	(47) 30.08.2023
(32) 10.10.2018	G01N 21/49	(87) EP2020071073
(33) Japan	(11) EP3423823	11.02.2021
(51) G01N 23/02	(21) EP17708783.0	(22) 27.07.2020
G01N 23/083	(47) 30.08.2023	(54) MOBILE SYSTEM FOR CALIBRATING,
G21K 7/00	(87) EP2017055097	VERIFYING AND/OR ADJUSTING
G01N 23/041	08.09.2017	A SENSOR AND METHOD FOR
(11) EP3610247	(22) 03.03.2017	CALIBRATING, VERIFYING AND/OR
(21) EP18784205.9	(54) DEVICE AND PROCESS FOR	ADJUSTING A SENSOR
(47) 30.08.2023	ANALYSING A CHANGE IN PHYSICAL	(73) Endress+Hauser Group Services AG
(87) US2018027821	STATE OF A MATTER THAT IS NOT	(72) HELLEIN, Bernhard
18.10.2018	PURELY GASEOUS	(31) 102019120897
(22) 16.04.2018	(73) Formulation	(32) 02.08.2019
(54) TALBOT X-RAY MICROSCOPE	(72) BRAMBILLA, Giovanni	(33) Germany
(73) Sigray Inc.	(31) 1651843	(51) G01N 27/62
(72) VINE, David	(32) 04.03.2016	B01J 3/04
SESHADRI, Srivatsan	(33) France	B01J 3/00
YUN, Wenbing	(51) G01N 25/48	B01J 19/00
LEWIS, Sylvia, Jia Yun	G01N 33/00	G01N 1/22
KIRZ, Janos	(11) EP3517941	H01J 49/04
(31) 201762485916 P	(21) EP18203231.8	H01J 49/24
(32) 15.04.2017	(47) 30.08.2023	H01J 49/42
(33) United States of America	(22) 29.10.2018	(11) EP3767287
(51) G01N 23/04	(54) SORBENT BASED GAS	(21) EP18909449.3
(11) EP3764088	CONCENTRATION MONITOR	(47) 30.08.2023

(87) CN2018084398 19.09.2019	(72) GREEN, Martin Raymond (31) 201814125	(73) Honeywell International Inc. (72) ZHANG, Dan
(22) 25.04.2018	(32) 30.08.2018	MENG, Zhongliang
(54) COMBINATION STRUCTURE OF UHV DEVICE INTERCONNECTED IN-SITU REACTION CELL AND BUILT-IN MASS SPECTRUM ELECTRIC QUADRUPOLE ROD	(33) United Kingdom (51) G01N 31/20 G01N 33/543 C12N 15/10	LU, Kui XU, Yuhui (31) 201910598987 (32) 04.07.2019 (33) China
(73) Shanghaitech University	(11) EP3262407	
(72) YANG, Yong	(21) EP16756172.9	(51) G01N 33/24 G01N 23/223
(31) 201810206985	(47) 30.08.2023	(11) EP4056999
(32) 13.03.2018	(87) US2016019099 01.09.2016	(21) EP22161004.1
(33) China	(22) 23.02.2016	(47) 30.08.2023
(51) G01N 27/76	(54) PARTITION PROCESSING METHODS AND SYSTEMS	(22) 09.03.2022
G01N 15/08	(73) 10X Genomics, Inc.	(54) METHOD FOR IDENTIFYING THE LITHOLOGICAL LAYER OF AN EXCAVATED MATERIAL IN ORDER TO MAKE USE OF IT
G01N 15/10	(72) BELGRADER, Phillip	(73) Eiffage GC Infra Linéaires
G01R 33/12	MASQUELIER, Donald	(72) DOOM, Florian
G01R 33/16	(31) 201562119930 P	JEANNELLE, Matthieu
(11) EP3315960	(32) 24.02.2015	BOULANGÉ, Laurence
(21) EP16814492.1	(33) United States of America	(31) 2102346
(47) 30.08.2023	(51) G01N 31/22 G01N 21/80	(32) 10.03.2021
(87) JP2016068849 29.12.2016	A61L 2/18	(33) France
(22) 24.06.2016	A61L 2/24	(51) G01N 33/48 G01N 1/04 G01N 1/28 B01L 3/00 A61B 10/00
(54) DISPERSOID ANALYSIS METHOD AND ANALYSIS DEVICE	A61B 1/00	(11) EP3629017
(73) Kawano Lab. Inc.	A61B 1/12	(21) EP19198979.7
(72) KAWANO Makoto	A61B 90/70	(47) 30.08.2023
(31) 2015127825	(11) EP3789762	(22) 23.09.2019
(32) 25.06.2015	(21) EP20201252.2	(54) PICKUP-SAFE STOOL COLLECTION TUBE
(33) Japan	(47) 30.08.2023	(73) Immundiagnostik AG
(51) G01N 29/02	(22) 17.05.2017	(72) ARMBRUSTER, Franz-Paul RUPPERT, Jana
G01N 29/036	(54) REAGENT SOLUTION TO MEASURE CONCENTRATION OF DISINFECTANT	(31) 102018124132 (32) 28.09.2018 (33) Germany
G01N 29/32	(73) ASP Global Manufacturing GmbH	(51) G01N 33/48 G01N 33/50 G01N 33/53 G01N 33/68 C12Q 1/68
G01N 30/76	(72) LU, Kaitao	(11) EP3311158
(11) EP3111205	FANG, Yan	(21) EP16812566.4
(21) EP15707077.2	NGUYEN, Nick N.	(47) 30.08.2023
(47) 30.08.2023	(31) 201615157952	(87) US2016038198 22.12.2016
(87) EP2015053703 03.09.2015	(32) 18.05.2016	(22) 17.06.2016
(22) 23.02.2015	(33) United States of America	(54) BIOMARKER PAIRS FOR PREDICTING PRETERM BIRTH
(54) DEVICE AND METHOD FOR DETERMINATION OF THE CONCENTRATION OF A VAPOR WITH A OSCILLATING BODY SENSOR	(51) G01N 33/00 G01N 1/22	(73) Sera Prognostics, Inc. (72) CRITCHFIELD, Gregory Charles
(73) Aixtron SE	(11) EP3336539	FLEISCHER, Tracey
(72) LONG, Michael	(21) EP17184565.4	KEARNEY, Paul
EICHLER, Andy	(47) 30.08.2023	BONIFACE, John, Jay
CREMER, Claudia	(22) 02.08.2017	BRADFORD, Chad
TRIMBORN, Karl-Heinz	(54) GAS ANALYSIS DEVICE, GAS SAMPLING DEVICE AND GAS ANALYSIS METHOD	GASSMAN, Andrew
BECCARD, Birgit Irmgard	(73) Horiba, Ltd.	HICKOK, Durlin Edward
AL AHMAD, Nael	(72) KUSAKA, Takeshi	FLICK, Jeff
(31) 102014102484	MOHARA, Haruhisa	POLPITIYA, Ashoka
(32) 26.02.2014	(31) 2017070648	(31) 201662290796 P
(33) Germany	2016242686	201562387420 P
(51) G01N 30/86	(32) 31.03.2017	201562182349 P
G01N 30/72	14.12.2016	
(11) EP3844494	(33) Japan	
(21) EP19763056.9	Japan	
(47) 30.08.2023	(51) G01N 33/00 G01N 27/68	
(87) GB2019052416 05.03.2020	(11) EP3761026	
(22) 30.08.2019	(21) EP20183568.3	
(54) METHOD OF MASS SPECTROMETRY WITH MASS CORRECTION AND CORRESPONDING MASS SPECTROMETER	(47) 30.08.2023	
(73) Micromass UK Limited	(22) 01.07.2020	
	(54) GAS HUMIDITY REDUCTION APPARATUS AND METHOD OF USING THE SAME	

- (32) 03.02.2016
24.12.2015
19.06.2015
- (33) United States of America
United States of America
United States of America
-
- (51) G01N 33/483
(11) EP3724655
(21) EP18833115.1
(47) 30.08.2023
(87) IB2018059936
20.06.2019
(22) 12.12.2018
(54) METHOD AND DEVICE FOR
RECORDING INTRACELLULAR
ACTION POTENTIALS IN
ELECTROGENIC CELLS
(73) Fondazione Istituto Italiano di Tecnologia
-
- (72) DIPALO, Michele
DE ANGELIS, Francesco
(31) 201700143666
(32) 13.12.2017
(33) Italy
-
- (51) G01N 33/483
(11) EP3721224
(21) EP18808036.0
(47) 30.08.2023
(87) EP2018083305
13.06.2019
(22) 03.12.2018
(54) NANOSTRUCTURE PLATFORM
FOR CELLULAR INTERFACING AND
CORRESPONDING MANUFACTURING
PROCESS
(73) Centre National de la Recherche
Scientifique
(72) LARRIEU, Guilhem
CASANOVA, Adrien
(31) 1761651
(32) 05.12.2017
(33) France
-
- (51) G01N 33/483
(11) EP4042154
(21) EP20781582.0
(47) 30.08.2023
(87) EP2020078007
15.04.2021
(22) 06.10.2020
(54) MEASURING DEVICE AND METHOD
FOR MEASURING CHARACTERISTICS
OF CELLS
(73) JUNIA
CENTRE NATIONAL DE LA
RECHERCHE SCIENTIFIQUE (CNRS)
-
- (72) FUJITA, Hiroyuki
KARSTEN, Stanislav
COLLARD, Dominique
TARHAN, Mehmet Cagatay
(31) 19306313
(32) 08.10.2019
(33) European Patent Office (EPO)
-
- (51) G01N 33/487
B01L 9/06
G01F 1/684
G01N 15/14
G01N 35/08
(11) EP3884271
(21) EP19886300.3
- (47) 30.08.2023
(87) US2019061613
28.05.2020
(22) 15.11.2019
(54) DIELECTRIC SPECTROSCOPY
SENSING APPARATUS AND METHOD
OF USE
(73) Xatek, Inc.
(72) TILK, Jason, Grant
BOLL, David J.
DELLINGER, Shawn
ERTEL, Jason R.
(31) 201962832933 P
201862769617 P
(32) 12.04.2019
20.11.2018
(33) United States of America
United States of America
-
- (51) G01N 33/487
G01N 33/68
(11) EP4070092
(21) EP20825190.0
(47) 30.08.2023
(87) GB2020053082
10.06.2021
(22) 01.12.2020
(54) METHOD OF CHARACTERISING A
TARGET POLYPEPTIDE USING A
NANOPORE
(73) Oxford Nanopore Technologies PLC
(72) GRAHAM, James Edward
STRYCHARSKA, Melania Slawa
HERON, Andrew John
(31) 202015479
201917599
(32) 30.09.2020
02.12.2019
(33) United Kingdom
United Kingdom
-
- (51) G01N 33/49
G01N 33/487
G01N 27/327
(11) EP3315964
(21) EP17197685.5
(47) 30.08.2023
(22) 23.10.2017
(54) METHOD OF MEASURING
HEMATOCRIT AND METHOD OF
TESTING BLOOD
(73) Industrial Technology Research Institute
(72) YEN, Yu-Fang
CHEN, Chu-Hsuan
HSIEH, Wen-Pin
TUNG, Yi-Ting
LIN, Fen-Fei
YUAN, Yi-Yun
(31) 201662413449 P
106135409
(32) 27.10.2016
17.10.2017
(33) United States of America
Taiwan, Chinese Taipei
-
- (51) G01N 33/497
G01N 33/00
(11) EP3304073
(21) EP16725826.8
(47) 30.08.2023
(87) EP2016061625
- 08.12.2016
(22) 24.05.2016
(54) DEVICE AND METHOD FOR
MONITORING A SUBJECT
(73) Koninklijke Philips N.V.
(72) KUENEN, Maarten Petrus Joseph
KARAKAYA, Koray
KELLY, Declan Patrick
VAN LIESHOUT, Ron Martinus
Laurentius
DE SAMBER, Marc Andre
(31) PCT/CN2015/080913
15178219
(32) 05.06.2015
24.07.2015
(33) World Intellectual Property Office (WIPO)
European Patent Office (EPO)
-
- (51) G01N 33/50
(11) EP3343221
(21) EP16306833.1
(47) 30.08.2023
(22) 28.12.2016
(54) ACTIVATORS OF TONEBP FOR USE
FOR HYDRATING SKIN
(73) Chanel Parfums Beauté
(72) LEJEUNE, François
GENDRONNEAU, Gaëlle
BOUSSOU-CADIO, Emmanuelle
BERLIN, Irina
-
- (51) G01N 33/569
G01N 33/543
(11) EP3268739
(21) EP16762620.9
(47) 30.08.2023
(87) US2016022066
15.09.2016
(22) 11.03.2016
(54) PLASMONIC NANOPARTICLE
IMMUNOASSAY METHOD
(73) The General Hospital Corporation
(72) EVAN, Conor L.
KRAULEDAT, Petra B.
HOFFMAN, Robert A.
HANSEN, W. Peter
CRAMER, Daniel W.
(31) 201562131382 P
(32) 11.03.2015
(33) United States of America
-
- (51) G01N 33/574
G01N 33/68
(11) EP3775906
(21) EP19712231.0
(47) 30.08.2023
(87) EP2019057688
03.10.2019
(22) 27.03.2019
(54) METABOLITE-BASED BREAST
CANCER DETECTION AND
DIAGNOSIS
(73) Burwinkel, Barbara
(72) YUAN, Baowen
BURWINKEL, Barbara
(31) 18164999
(32) 29.03.2018
(33) European Patent Office (EPO)
-
- (51) G01N 33/68
C12Q 1/68
C07D 207/06

(11) EP3155436	2009032162	B01L 3/00
(21) EP15730112.8	2008169915	G01N 15/10
(47) 30.08.2023	(32) 07.03.2008	(11) EP3427040
(87) EP2015063224	07.03.2008	(21) EP16910697.8
17.12.2015	07.03.2008	(47) 30.08.2023
(22) 12.06.2015	07.03.2008	(87) US2016044092
(54) ISOBARIC MASS LABELS	07.03.2008	01.02.2018
(73) Electrophoretics Limited	16.02.2009	(22) 26.07.2016
(72) WÖLLMER, Nikolai	30.06.2008	(54) MICROFLUIDIC APPARATUSES
KIENLE, Stefan	(33) Japan	(73) Hewlett-Packard Development Company, L.P.
THOMPSON, Andrew Hugin	Japan	(72) GIRI, Manish
KUHN, Karsten	Japan	NIELSEN, Jeffrey A.
(31) 201410523	Japan	SMITH, Matthew David
(32) 12.06.2014	Japan	DUDENHOEFER, Christie
(33) United Kingdom	Japan	YU, Joshua M.
(51) G01N 33/86	Japan	DOMINGUE, Chantelle
G01N 33/564	(51) G01N 35/02	ELY, Hilary
C12Q 1/56	B03C 1/28	WARD, Kenneth
(11) EP3449261	B03C 1/01	
(21) EP17723549.6	G01N 35/00	(51) G01N 35/10
(47) 30.08.2023	G01N 1/40	G01N 15/14
(87) US2017028286	(11) EP3757577	(11) EP3343233
02.11.2017	(21) EP19757584.8	(21) EP17207997.2
(22) 19.04.2017	(47) 30.08.2023	(47) 30.08.2023
(54) METHOD AND KIT FOR IDENTIFYING LUPUS ANTICOAGULANT (LA) ASSOCIATED WITH ANTIPHOSPHOLIPID SYNDROME	(87) JP2019002714	(22) 18.12.2017
(73) Instrumentation Laboratory Company	29.08.2019	(54) SPECIMEN MEASUREMENT APPARATUS AND SPECIMEN ASPIRATION METHOD
(72) BOTTENUS, Ralph, E.	(22) 28.01.2019	(73) SYSMEX CORPORATION
CAO, Zhenghua	(54) AUTOMATED ANALYSIS DEVICE	(72) Hayashi, Tomoya
(31) 201662327028 P	(73) Hitachi High-Tech Corporation	Mizuhashi, Toru
(32) 25.04.2016	(72) HSU, Ruochi	Tobimatsu, Hiroaki
(33) United States of America	MATSUOKA, Shinya	(31) 2016256559
(51) G01N 35/00	INABA, Tooru	(32) 28.12.2016
B65G 47/24	EBIHARA Daisuke	(33) Japan
B65G 47/244	YOKOKAWA Takeshi	(51) G01N 37/00
B25J 15/00	(31) 2018028207	C12M 1/00
G01N 35/04	(32) 20.02.2018	C12M 1/26
(11) EP3388839	(33) Japan	C12N 15/10
(21) EP17165672.1	(51) G01N 35/04	C12Q 1/6806
(47) 30.08.2023	(11) EP3702788	(11) EP3916397
(22) 10.04.2017	(21) EP20159769.7	(21) EP20745625.2
(54) CENTERING UNIT FOR DIAGNOSTICS LABORATORY TRANSPORTING COMPARTMENT	(47) 30.08.2023	(47) 30.08.2023
(73) F. Hoffmann-La Roche AG	(22) 27.02.2020	(87) JP2020001461
(72) WENZLER, Fabian	(54) SAMPLE ANALYZER AND SAMPLE ANALYSIS METHOD	30.07.2020
ARNOLD, Daniel	(73) SYSMEX CORPORATION	(22) 17.01.2020
(51) G01N 35/00	(72) Kuroono, Hiroshi	(54) METHOD FOR ISOLATING NUCLEIC ACID, NUCLEIC ACID ISOLATION KIT, AND INSPECTION CHIP
G01N 35/02	Moriura, Kazuma	(73) Sekisui Medical Co., Ltd.
G01N 35/04	(31) 2019036661	Sekisui Chemical Co., Ltd.
(11) EP3623817	(32) 28.02.2019	(72) INUI, Nobuhiko
(21) EP19208261.8	(33) Japan	NAKAMURA, Tsutomu
(47) 30.08.2023	(51) G01N 35/04	UCHIDA, Katsura
(22) 06.03.2009	B01L 3/00	SASAKI, Tomoya
(54) ANALYZER	B01L 9/06	YAMAGUCHI, Sou
(73) SYSMEX CORPORATION	B65G 54/02	KOUNO, Takamasa
(72) SHIBATA, Masaharu	(11) EP3540443	(31) 2019183676
NAGAI, Takaaki	(21) EP18162202.8	2019067480
UENO, Kunio	(47) 30.08.2023	2019028014
HAMADA, Yuuichi	(22) 16.03.2018	2019011186
FUKUMA, Daigo	(54) LABORATORY SYSTEM, LABORATORY SAMPLE DISTRIBUTION SYSTEM AND LABORATORY AUTOMATION SYSTEM	(32) 04.10.2019
(31) 2008057972	(73) F. Hoffmann-La Roche AG	29.03.2019
2008057661	(72) KOPP, Martin	20.02.2019
2008058007	SCHMITT, Norbert	25.01.2019
2008058302	GUTMANN, Oliver	
2008057382	(51) G01N 35/10	(33) Japan
	B01L 3/02	Japan
	B41J 2/14	Japan

Japan	G01R 31/52	(73) TOSHIBA MITSUBISHI-ELECTRIC
(51) G01R 1/067	G01R 15/18	INDUSTRIAL SYSTEMS
G01R 31/54	G01R 19/00	CORPORATION
(11) EP3477308	(11) EP4024056	(72) YOSHIMITSU, Tetsuo
(21) EP18209903.6	(21) EP20875103.2	TSUDA, Toshihiro
(47) 30.08.2023	(47) 30.08.2023	MURA, Kotaro
(22) 10.10.2013	(87) CN2020119337	(51) G01R 31/12
(54) AUTOMATIC PROBE GROUND	15.04.2021	G01R 31/40
CONNECTION CHECKING	(22) 30.09.2020	(11) EP3816641
TECHNIQUES	(54) AC/DC LEAKAGE DETECTION	(21) EP19216130.5
(73) Tektronix, Inc.	METHOD	(47) 30.08.2023
(72) Knierim, Daniel	(73) Qingdao Topscomm Communication Co.,	(22) 13.12.2019
Hagerup, William	Ltd	(54) ELECTRICAL DEVICE PARTIAL
Hickman, Barton	(72) WANG, Jianhua	DISCHARGE MONITORING
Pollock, Ira	LIU, Zhen	(73) Hamilton Sundstrand Corporation
(31) 201213649303	(31) 201910954739	(72) CHAI, Huazhen
(32) 11.10.2012	(32) 09.10.2019	MUTEBA, Jonas Mukamba
(33) United States of America	(33) China	(31) 201916668970
(51) G01R 11/24	(51) G01R 23/163	(32) 30.10.2019
G01R 22/06	G01R 29/08	(33) United States of America
(11) EP3779474	(11) EP3825703	(51) G01R 31/12
(21) EP20187853.5	(21) EP19210386.9	H02S 50/10
(47) 30.08.2023	(47) 30.08.2023	(11) EP4090981
(22) 27.07.2020	(22) 20.11.2019	(21) EP21700902.6
(54) MEASURING ELECTRICAL ENERGY	(54) METHOD AND SYSTEM FOR	(47) 30.08.2023
CONSUMPTION	DETECTING AND/OR CLASSIFYING A	(87) EP2021050831
(73) Analog Devices, Inc.	WANTED SIGNAL	22.07.2021
(72) MINCIUNESCU, Petre	(73) Rohde & Schwarz GmbH & Co. KG	(22) 15.01.2021
(31) 201916541948	(72) Buhl, Ulrike	(54) METHOD AND CIRCUIT
(32) 15.08.2019	Bierdel, Lotte	ARRANGEMENT FOR DETECTING
(33) United States of America	Guezelarslan, Paris	AN ARC, AND PHOTOVOLTAIC
(51) G01R 19/165	(51) G01R 29/08	(PV) INVERTER HAVING A
H03K 17/22	(11) EP3822646	CORRESPONDING CIRCUIT
(11) EP3449265	(21) EP19209663.4	ARRANGEMENT
(21) EP17724604.8	(47) 30.08.2023	(73) SMA Solar Technology AG
(47) 30.08.2023	(22) 18.11.2019	(72) PAPE, Sybille
(87) GB2017051184	(54) RF-HOOD FOR ANTENNA	KRATOCHVIL, Marcel
02.11.2017	MEASUREMENTS AT LOW	SCHMITT, Rainer
(22) 27.04.2017	FREQUENCIES	(31) 102020100838
(54) VOLTAGE REFERENCE CIRCUIT,	(73) Airbus Defence and Space GmbH	(32) 15.01.2020
VOLTAGE DETECTOR AND VOLTAGE	(72) Mössinger, Alexander	(33) Germany
DETECTOR SYSTEM	(51) G01R 31/08	(51) G01R 31/26
(73) The University of Bristol	H02J 3/36	G01K 15/00
(72) PROYNOV, Plamen	G01R 31/11	G01K 7/01
ZHANG, Chunhong	(11) EP3767314	G01K 7/42
YANG, Guang	(21) EP19187156.5	G01R 31/40
STARK, Bernard	(47) 30.08.2023	G01R 31/28
ADAMI, Salah	(22) 18.07.2019	(11) EP3839528
(31) 201607304	(54) FAULT LOCATION IN AN HVDC	(21) EP19306719.6
(32) 27.04.2016	SYSTEM	(47) 30.08.2023
(33) United Kingdom	(73) Hitachi Energy Switzerland AG	(22) 20.12.2019
(51) G01R 19/25	(72) Bjorklund, Hans	(54) METHOD FOR ESTIMATING
(11) EP3112884	Burek, Arkadiusz	PARAMETERS OF A JUNCTION
(21) EP15174648.4	(51) G01R 31/12	OF A POWER SEMI-CONDUCTOR
(47) 30.08.2023	G01N 27/20	AND MONITORING SYSTEM FOR
(22) 30.06.2015	H01B 3/30	IMPLEMENTING SAID METHOD
(54) PARAMETERIZABLE MERGING	H01B 17/56	(73) Mitsubishi Electric Corporation
UNIT FOR SENSOR-BASED	G01R 31/20	(72) VOYER, Nicolas
MEASUREMENT, AND METHOD TO	(11) EP3396395	MOLLOV, Stefan
OPERATE SUCH UNIT	(21) EP15911251.5	DEGRENNÉ, Nicolas
(73) Brno University Of Technology	(47) 30.08.2023	(51) G01R 31/382
ABB s.r.o.	(87) JP2015006343	G01R 31/367
(72) Klusacek, Stanislav	29.06.2017	G01R 31/392
Drapela, Jiri	(22) 21.12.2015	(11) EP3591413
Havranek, Zdenek	(54) ELECTRICAL TREE TEST METHOD,	(21) EP18305866.8
Sevcik, Bretislav	ELECTRODE STRUCTURE, AND	(47) 30.08.2023
(51) G01R 19/25	ELECTRODE SETTING ASSEMBLY	(22) 03.07.2018

(54) METHOD FOR EVALUATING AN ELECTRIC BATTERY STATE OF HEALTH	(54) EMERGENCY RADIO BEACON REMOTE ACTIVATION SYSTEM	06.12.2017
(73) Electricité de France	(73) Harvey, Doriette Fransien	(33) United States of America United States of America
(72) VAN DEN BERG, Jan Jasper NOLAN, Julian Charles BEARD, Timothy Giles LUCIDARME, Thierry	(72) Harvey, Frederick	(51) G01S 7/02
(51) G01R 33/09	(31) 2017904169	G01R 23/175
G01D 5/14	(32) 16.10.2017	G01S 7/292
G01R 33/00	(33) Australia	H04B 1/00
G01R 33/07	(51) G01S 5/02	(11) EP3486678
(11) EP3721244	(11) EP3308190	(21) EP17202426.7
(21) EP18807613.7	(21) EP15727970.4	(47) 30.08.2023
(47) 30.08.2023	(47) 30.08.2023	(22) 17.11.2017
(87) EP2018082067	(87) EP2015062777	(54) MULTI-SIGNAL INSTANTANEOUS FREQUENCY MEASUREMENT SYSTEM
13.06.2019	15.12.2016	(73) Rohde & Schwarz GmbH & Co. KG
(22) 21.11.2018	(22) 09.06.2015	(72) Espana Fresno, Andres
(54) MAGNETIC FIELD SENSOR	(54) DETERMINING OF MODEL PARAMETERS FOR POSITIONING PURPOSES	(51) G01S 7/03
(73) Sensitec GmbH	(73) HERE Global B.V.	G01S 13/76
(72) GEBHARDT, Carola	(72) TALVITIE, Jukka	G01F 23/284
(31) 102017128889	IVANOV, Pavel	G01S 13/88
(32) 05.12.2017	SYRJÄRINNE, Jari	(11) EP3077842
(33) Germany	WIROLA, Lauri	(21) EP14867249.6
(51) G01R 33/50	LOHAN, Elena-Simona	(47) 30.08.2023
G01R 33/56	KHAN, Muhammad Irshan	(87) US2014064776
G01R 33/44	(51) G01S 5/02	11.06.2015
G01R 33/58	G01S 13/86	(22) 10.11.2014
(11) EP3844516	G01S 13/937	(54) RECEIVER WITH PROGRAMMABLE GAIN FOR UWB RADAR
(21) EP19783141.5	(11) EP3657198	(73) Honeywell International Inc.
(47) 30.08.2023	(21) EP19210025.3	(72) SAI, Bin
(87) NL2019050551	(47) 30.08.2023	(31) 201314099071
05.03.2020	(22) 19.11.2019	(32) 06.12.2013
(22) 28.08.2019	(54) PROXIMITY SENSING SYSTEM AND METHOD FOR A MARINE VESSEL WITH AUTOMATED PROXIMITY SENSOR LOCATION ESTIMATION	(33) United States of America
(54) MAGNETIC RESONANCE IMAGING BASED ON TRANSIENT RESPONSE SIGNALS	(73) Brunswick Corporation	(51) G01S 7/292
(73) Erasmus University Rotterdam Medical Center	(72) Malouf, Travis C.	G01S 13/72
(72) KOTEK, Gyula	Derginer, Matthew E.	G01S 13/42
HERNÁNDEZ TAMAMES, Juan Antonio	Ward, Aaron J.	G01S 13/50
(31) 18191501	(31) 201916674889	(11) EP3657200
(32) 29.08.2018	201862770499 P	(21) EP19210990.8
(33) European Patent Office (EPO)	(32) 05.11.2019	(47) 30.08.2023
(51) G01R 35/02	21.11.2018	(22) 22.11.2019
G01R 15/18	(33) United States of America	(54) DETECTION METHOD BY LONG INTEGRATION AND CORRESPONDING RADAR SYSTEM
(11) EP2687862	United States of America	(73) Thales
(21) EP13175047.3	(51) G01S 5/02	(72) CORRETJA, Vincent
(47) 30.08.2023	H04W 4/029	MONTIGNY, Richard
(22) 04.07.2013	G08B 13/24	KEMKEMIAN, Stéphane
(54) Built-in test injection for current sensing circuit	G01S 13/00	BRETON, Pierre-Albert
(73) Hamilton Sundstrand Corporation	G01S 13/76	(31) 1871763
(72) Klapatch, Robert D.	G01S 13/88	(32) 23.11.2018
Villano, William E.	H04W 84/18	(33) France
(31) 201213553162	(11) EP3721257	(51) G01S 7/35
(32) 19.07.2012	(21) EP18887134.7	G01S 7/41
(33) United States of America	(47) 30.08.2023	G01S 13/46
(51) G01S 1/68	(87) CA2018051106	G01S 13/58
G01S 5/00	13.06.2019	G01S 13/34
G08B 5/00	(22) 10.09.2018	(11) EP3767333
(11) EP3698159	(54) MOTION DETECTION IN MESH NETWORKS	(21) EP20181911.7
(21) EP18867339.6	(73) Cognitive Systems Corp.	(47) 30.08.2023
(47) 30.08.2023	(72) KRAVETS, Oleksiy	(22) 24.06.2020
(87) AU2018051119	MANKU, Tajinder	(54) METHOD AND SYSTEM FOR HEIGHT ESTIMATION IN ULTRA-SHORT-RANGE RADAR
25.04.2019	(31) 201815968290	(73) NXP B.V.
(22) 15.10.2018	201762595270 P	(72) Jansen, Feike Guus
	(32) 01.05.2018	Laghezza, Francesco

(31) 201916512988	(47) 30.08.2023	G01S 13/931
(32) 16.07.2019	(87) SG2020050281	G01S 7/02
(33) United States of America	19.11.2020	(11) EP3767331
(51) G01S 7/48	(22) 14.05.2020	(21) EP19806939.5
G05D 1/02	(54) OPTICAL REMOTE SENSING	(47) 30.08.2023
G01S 13/931	(73) Nanyang Technological University	(87) CN2019085538
G01S 13/86	(72) WANG, Danwei	28.11.2019
(11) EP3757601	MIHANKHAH, Ehsan	(22) 05.05.2019
(21) EP20182586.6	(31) 10201904334Y	(54) INFORMATION MEASUREMENT
(47) 30.08.2023	(32) 14.05.2019	METHOD AND INFORMATION
(22) 26.06.2020	(33) Singapore	MEASUREMENT DEVICE
(54) METHOD AND SYSTEM FOR MAPPING	(51) G01S 7/481	(73) HUAWEI TECHNOLOGIES CO., LTD.
A PHYSICAL ENVIRONMENT BY	G02B 27/48	(72) ZHAI, Botao
MEANS OF AN OCCUPANCY GRID	(11) EP4047386	ZHANG, Zhiwei
(73) Aptiv Technologies Limited	(21) EP21200042.6	XU, Shaofeng
(72) Sasin, Dominik	(47) 30.08.2023	(31) 201810519401
Markiewicz, Pawel	(22) 30.09.2021	(32) 25.05.2018
Porebski, Jakub	(54) DEPTH DETECTION APPARATUS AND	(33) China
(31) 1907103	ELECTRONIC DEVICE	(51) G01S 13/76
(32) 28.06.2019	(73) HUI DING INTERNATIONAL PTE. LTD.	(11) EP3271742
(33) France	(72) GE, Cong	(21) EP16706733.9
(51) G01S 7/481	TSAI, Fei Hsin	(47) 30.08.2023
G01C 3/06	CHANG, Shao Yu	(87) US2016018187
G01S 17/89	(31) 202110197871	22.09.2016
H01L 27/146	(32) 22.02.2021	(22) 17.02.2016
H01L 31/02	(33) China	(54) LOCATION AND RANGE
G01S 17/08	(51) G01S 13/34	DETERMINATION USING BROADCAST
G01S 17/42	G01S 13/42	MESSAGES
G01S 17/931	G01S 13/931	(73) Qualcomm Incorporated
(11) EP3654055	(11) EP3916427	(72) NIESEN, Urs
(21) EP18831517.0	(21) EP21173611.1	JOSE, Jubin
(47) 30.08.2023	(47) 30.08.2023	NALLAMPATTI EKAMBARAM,
(87) JP2018017737	(22) 12.05.2021	Venkatesan
17.01.2019	(54) RADAR APPARATUS AND METHOD	WU, Xinzhou
(22) 08.05.2018	(73) NXP B.V.	(31) 201514848151
(54) DISTANCE MEASUREMENT DEVICE	(72) Amani, Navid	201562133843 P
AND MOVING BODY APPARATUS	Jansen, Feike Guus	(32) 08.09.2015
(73) Sony Semiconductor Solutions	Filippi, Alessio	16.03.2015
Corporation	(31) 202016888139	(33) United States of America
(72) ABE Hideshi	(32) 29.05.2020	United States of America
(31) 2017135186	(33) United States of America	(51) G01S 13/86
(32) 11.07.2017	(51) G01S 13/44	G01S 13/90
(33) Japan	G01S 13/34	G01S 13/88
(51) G01S 7/481	G01S 13/46	G01S 15/89
G01S 7/4865	G01S 7/35	G01S 13/89
G01S 7/497	G01S 13/931	(11) EP4014068
G01S 17/10	G01S 13/87	(21) EP21724804.6
G01S 17/894	(11) EP3752859	(47) 30.08.2023
G01S 17/42	(21) EP18826554.0	(87) JP2021015519
(11) EP4012441	(47) 30.08.2023	31.03.2022
(21) EP20213336.9	(87) EP2018084922	(22) 08.04.2021
(47) 30.08.2023	22.08.2019	(54) SYSTEM AND METHOD FOR
(22) 11.12.2020	(22) 14.12.2018	TRACKING A DEFORMATION
(54) DEVICE FOR LASER MEASURING AN	(54) ANGLE ESTIMATION AND AMBIGUITY	(73) Mitsubishi Electric Corporation
ENVIRONMENT	RESOLUTION OF RADAR SENSORS	(72) AERON, Shuchin
(73) RIEGL Laser Measurement Systems	FOR MOTOR VEHICLES WITH A	MA, Yanting
GmbH	LARGE ANTENNA ARRAY	MANSOUR, Hassan
(72) RIEGER, Peter	(73) Robert Bosch GmbH	BOUFONOS, Petros
REICHERT, Rainer	(72) SCHOOR, Michael	(31) 202017034139
ULLRICH, Andreas	(31) 102018202290	(32) 28.09.2020
(51) G01S 7/481	(32) 15.02.2018	(33) United States of America
G01S 17/10	(33) Germany	(51) G01S 13/87
G01S 17/42	(51) G01S 13/53	G01S 13/933
G01S 17/88	G01S 13/93	(11) EP3620819
G01S 17/89	G01S 13/34	(21) EP19186908.0
G01S 7/48	G01S 13/42	(47) 30.08.2023
(11) EP3969930	G01S 13/58	(22) 18.07.2019
(21) EP20805786.9	G01S 13/87	

<p>(54) COORDINATED DETECTION OF OBJECTS IN AN AIRSPACE (73) Airbus Defence and Space GmbH (72) Krach, Dr. Bernhard Katsilieris, Dr. Fotios (31) 102018121821 (32) 07.09.2018 (33) Germany</p> <hr/> <p>(51) G01S 13/95 G01S 7/04 (11) EP3751311 (21) EP20178135.8 (47) 30.08.2023 (22) 03.06.2020 (54) THREE-DIMENSIONAL WEATHER DISPLAY SYSTEMS AND METHODS THAT PROVIDE REPLAY OPTIONS (73) Honeywell International Inc. (72) DAVIS, Jonathan SONGA, Anil Kumar VELAPPAN, Kalaiarasu (31) 201916439892 (32) 13.06.2019 (33) United States of America</p> <hr/> <p>(51) G01S 17/10 (11) EP3848726 (21) EP18932498.1 (47) 30.08.2023 (87) CN2018104675 12.03.2020 (22) 07.09.2018 (54) LASER DISTANCE MEASUREMENT MODULE, APPARATUS, AND METHOD, AND MOBILE PLATFORM (73) SZ DJI Technology Co., Ltd. (72) LIU, Xiang HONG, Xiaoping</p> <hr/> <p>(51) G01S 17/10 G01S 17/50 G01S 17/58 G01S 7/486 G01S 7/481 G01J 1/44 (11) EP3538927 (21) EP17884675.4 (47) 30.08.2023 (87) US2017067659 28.06.2018 (22) 20.12.2017 (54) HYBRID DIRECT DETECTION & COHERENT LIGHT DETECTION AND RANGING SYSTEM (73) Waymo LLC (72) DROZ, Pierre-Yves (31) 201615390454 (32) 23.12.2016 (33) United States of America</p> <hr/> <p>(51) G01S 17/46 G01S 17/88 G01S 7/481 (11) EP3783389 (21) EP19212650.6 (47) 30.08.2023 (22) 29.11.2019 (54) DISTANCE SENSOR MODULE, DISPLAY DEVICE, ELECTRONIC DEVICE AND DISTANCE DETECTION METHOD</p>	<p>(73) Beijing Xiaomi Mobile Software Co., Ltd. (72) CHEN, Zhaoxi XIE, Fei WANG, Yanteng (31) 201910764104 (32) 19.08.2019 (33) China</p> <hr/> <p>(51) G01S 17/931 G01S 7/4861 (11) EP3862781 (21) EP21152122.4 (47) 30.08.2023 (22) 18.01.2021 (54) LOW-COST READOUT MODULE FOR A LIDAR SYSTEM (73) Aptiv Technologies Limited (72) Hao, Chenghui Fu, Geng (31) 202016784062 (32) 06.02.2020 (33) United States of America</p> <hr/> <p>(51) G01S 19/21 G01S 5/00 (11) EP2682785 (21) EP12183749.6 (47) 30.08.2023 (22) 10.09.2012 (54) Concept for data authentication and secured localization based on a satellite navigation signal (73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. (72) Rohmer, Günter Stahl, Manuel Rügamer, Alexander (31) 201261668205 P (32) 05.07.2012 (33) United States of America</p> <hr/> <p>(51) G01T 1/164 G01R 29/027 G01R 19/04 (11) EP3796048 (21) EP19855793.6 (47) 30.08.2023 (87) CN2019086239 05.03.2020 (22) 09.05.2019 (54) METHOD AND DEVICE FOR SAMPLING PULSE SIGNAL, AND COMPUTER PROGRAM MEDIUM (73) Raycan Technology Co., Ltd. (Suzhou) (72) MEI, Junhua DAI, Pingping SU, Yuming ZHU, Kezhang WANG, Hao XIE, Qingguo (31) 201810982519 (32) 27.08.2018 (33) China</p> <hr/> <p>(51) G01T 1/185 (11) EP3729142 (21) EP18833116.9 (47) 30.08.2023 (87) IB2018060322 27.06.2019 (22) 19.12.2018 (54) A RADIATION DETECTOR</p>	<p>(73) Murphil S.r.l. (72) SABBA, Nicola MORETTI, Elena (31) 201700146433 (32) 19.12.2017 (33) Italy</p> <hr/> <p>(51) G01T 1/20 (11) EP3239742 (21) EP17000690.2 (47) 30.08.2023 (22) 21.04.2017 (54) DETECTOR ASSEMBLY FOR USE IN CT IMAGING SYSTEMS (73) Smiths Detection Inc. (72) Basu, Samit Kumar Bures, Brian Lee (31) 201615137763 (32) 25.04.2016 (33) United States of America</p> <hr/> <p>(51) G01T 3/00 G01T 3/06 (11) EP4004606 (21) EP20757641.4 (47) 30.08.2023 (87) FR2020051358 04.02.2021 (22) 24.07.2020 (54) SYSTEM FOR THE ANALYSIS OF RADIOACTIVE WASTE DRUMS AND ASSOCIATED ANALYSIS METHOD (73) Commissariat à l'Energie Atomique et aux Energies Alternatives (72) FRANGVILLE, Camille SARI, Adrien DUFOUR, Nicolas (31) 1908613 (32) 29.07.2019 (33) France</p> <hr/> <p>(51) G01V 1/30 G01V 1/34 (11) EP3830609 (21) EP19779556.0 (47) 30.08.2023 (87) IB2019056591 06.02.2020 (22) 02.08.2019 (54) SYSTEM AND METHOD FOR SEISMIC AMPLITUDE ANALYSIS (73) Chevron U.S.A. Inc. (72) CARDONA, Reynaldo RAY, Anandaroop BARTEL, David ROY, Prasenjit TESFAYE, Jacob (31) 201862713612 P (32) 02.08.2018 (33) United States of America</p> <hr/> <p>(51) G01V 1/30 G01V 99/00 (11) EP3158368 (21) EP15708665.3 (47) 30.08.2023 (87) US2015017667 30.12.2015 (22) 26.02.2015 (54) INSTANTANEOUS ISOCHRON ATTRIBUTE-BASED GEOBODY</p>
--	---	---

IDENTIFICATION FOR RESERVOIR MODELING	(47) 30.08.2023	(87) EP2020050736
(73) Chevron U.S.A. Inc.	(87) US2017066095	23.07.2020
(72) RAMOS, Luz Angela Lozano	19.07.2018	(22) 14.01.2020
MORA, Francisco Correa	(22) 13.12.2017	(54) OPTICAL SYSTEM AND LIGHTING DEVICE
GOGGIN, Lisa Renee'	(54) FOREIGN OBJECT DETECTION USING HEAT SENSITIVE MATERIAL AND INDUCTIVE SENSING	(73) Signify Holding B.V.
(31) 201414311987	(73) WiTricity Corporation	(72) VAN DER LUBBE, Marcellus, Jacobus, Johannes
(32) 23.06.2014	(72) BITTNER, Markus	BOONEKAMP, Erik, Paul
(33) United States of America	(72) WIDMER, Hans Peter	(31) 19151772
(51) G01V 1/30	SIEBER, Lukas	(32) 15.01.2019
G01V 99/00	(31) 201715620548	(33) European Patent Office (EPO)
(11) EP3832354	201762457462 P	(51) G02B 3/04
(21) EP20208067.7	201762444714 P	G02B 3/08
(47) 30.08.2023	(32) 12.06.2017	G02B 27/00
(22) 17.11.2020	10.02.2017	F21V 5/04
(54) METHOD FOR MODELLING A SEDIMENTARY BASIN, USING A HEX-DOMINANT MESH REPRESENTATION	10.01.2017	G02B 3/10
(73) IFP Energies nouvelles	(33) United States of America	G02C 7/06
TotalEnergies OneTech	United States of America	G02B 27/01
(72) COLOMBO, Daniele	(51) G01V 5/04	(11) EP3722666
(31) 1913783	G01T 1/202	(21) EP18886633.9
(32) 05.12.2019	(11) EP3140673	(47) 30.08.2023
(33) France	(21) EP15789956.8	(87) CN2018119808
(51) G01V 1/36	(47) 30.08.2023	13.06.2019
G01V 1/38	(87) US2015028323	(22) 07.12.2018
(11) EP2959323	12.11.2015	(54) OPTICAL LENS, GLASSES AND DISPLAY DEVICE
(21) EP13708038.8	(22) 29.04.2015	(73) BOE Technology Group Co., Ltd.
(47) 30.08.2023	(54) GAMMA DETECTOR PROTECTION FOR DOWNHOLE OPERATIONS	Beijing BOE Optoelectronics Technology Co., Ltd.
(87) US2013027398	(73) Tolteq Group, LLC	(72) LIU, Yali
28.08.2014	(72) DEERE, R. Paul	ZHANG, Hao
(22) 22.02.2013	CHANDOS, David	WANG, Chenru
(54) METHOD AND APPARATUS FOR MULTI-COMPONENT DATUMING	THOMAS, Jacob	DONG, Ruijun
(73) TGS-NOPEC Geophysical Company	(31) 201461988197 P	CHEN, Lili
(72) BLOOR, Robert Ian	(32) 03.05.2014	ZHANG, Xuebing
(51) G01V 1/38	(33) United States of America	(31) 201711284760
B63G 8/00	(51) G01V 5/08	(32) 07.12.2017
G01V 1/16	G01V 13/00	(33) China
B63G 8/22	E21B 47/00	(51) G02B 5/30
G01V 1/24	G01V 5/10	C08F 118/08
B63B 22/18	(11) EP2433161	C08J 5/18
B63B 22/20	(21) EP10778427.4	G02B 1/04
B63G 8/16	(47) 30.08.2023	(11) EP3779534
B63G 8/24	(87) US2010035672	(21) EP19776391.5
B63B 35/00	25.11.2010	(47) 30.08.2023
(11) EP3797319	(22) 20.05.2010	(87) JP2019013865
(21) EP19808135.8	(54) DOWNHOLE SENSOR TOOL FOR NUCLEAR MEASUREMENTS	03.10.2019
(47) 30.08.2023	(73) Halliburton Energy Services Inc.	(22) 28.03.2019
(87) AU2019050508	(72) ORTIZ, Ricardo	(54) POLY(VINYL ALCOHOL) FILM AND PRODUCTION METHOD FOR POLARIZING FILM
28.11.2019	DEWAYNE Finke, Michael	(73) Sekisui Chemical Co., Ltd.
(22) 23.05.2019	V. SHERRIL, Kristopher	(72) KUSAKA, Yasunari
(54) AN AUTONOMOUS DATA ACQUISITION SYSTEM	(31) 180081 P	NISHIMURA, Yohei
(73) Blue Ocean Seismic Services Limited	(32) 20.05.2009	NAKAJIMA, Nami
(72) HOLLINGS, Ben	(33) United States of America	(31) 2018070355
MANCINI, Fabio	(51) G02B 3/00	(32) 30.03.2018
(31) 2018901806	G02B 19/00	(33) Japan
(32) 23.05.2018	F21Y 105/12	(51) G02B 5/30
(33) Australia	F21Y 113/17	C08F 118/08
(51) G01V 3/10	F21Y 115/10	C08J 5/18
B60L 53/126	F21V 5/00	G02B 1/04
B60L 53/60	F21V 7/00	(11) EP3779535
G01V 9/00	F21K 9/233	(21) EP19776918.5
G01V 11/00	F21Y 113/13	(47) 30.08.2023
H02J 50/40	(11) EP3911976	(87) JP2019013879
(11) EP3568718	(21) EP20701264.2	03.10.2019
(21) EP17822979.5	(47) 30.08.2023	

(22) 28.03.2019	(22) 19.05.2021	(11) EP3521882
(54) POLY(VINYL ALCOHOL) FILM AND PRODUCTION METHOD FOR POLARIZING FILM	(54) ADIABATIC WAVEGUIDE COUPLERS WITH ULTRA-LOW BACK-REFLECTION	(21) EP18209103.3
(73) Sekisui Chemical Co., Ltd.	(73) Honeywell International Inc.	(47) 30.08.2023
(72) NISHIMURA, Yohei	(72) KRUEGER, Neil A.	(22) 17.12.2013
KUSAKA, Yasunari	PUCKETT, Matthew Wade	(54) LINE CARD AND OPTICAL NETWORK DEVICE
NAKAJIMA, Nami	(31) 202016895295	(73) Huawei Technologies Co., Ltd.
(31) 2018070362	(32) 08.06.2020	(72) Zhou, Xiaoping
(32) 30.03.2018	(33) United States of America	Xu, Zhiguang
(33) Japan	(51) G02B 6/122	Lin, Huafeng
(51) G02B 5/30	G02B 6/35	Liu, Dekun
G02B 1/10	(11) EP3405823	(31) 201210547960
G02B 1/04	(21) EP16892946.1	(32) 17.12.2012
C09D 7/63	(47) 30.08.2023	(33) China
C09D 7/61	(87) CA2016050514	(51) G02B 6/44
C09D 7/40	14.09.2017	(11) EP3655806
G02B 1/14	(22) 05.05.2016	(21) EP18735332.1
(11) EP3734335	(54) WAVEGUIDE CROSSING HAVING RIB WAVEGUIDES	(47) 30.08.2023
(21) EP19826950.8	(73) Huawei Technologies Canada Co., Ltd.	(87) EP2018068447
(47) 30.08.2023	The Governing Council of the University of Toronto	24.01.2019
(87) KR2019007955	(72) DUMAIS, Patrick	(22) 06.07.2018
02.01.2020	SACHER, Wesley David	(54) MODULAR SYSTEM FOR SECURE AND CONTROLLED ARRANGEMENT OF OPTICAL FIBRES AND COMPONENTS OF AN OPTICAL SYSTEM
(22) 01.07.2019	(31) 201615062091	(73) Universität Bern
(54) POLARIZING PLATE, LIQUID CRYSTAL PANEL, AND DISPLAY DEVICE	(32) 05.03.2016	(72) RYSER, Manuel Alain
(73) LG CHEM, LTD.	(33) United States of America	JENK, Adrian
(72) SHIM, Jaehoon	(51) G02B 6/35	BACHER, Christoph
LEE, Soo Kyoung	G02F 1/31	RAISIN, Philippe Richard
MOON, Joo Jong	(11) EP3827295	LUDER SCHAIBLE, Andres
BYUN, Jinseok	(21) EP19761917.4	(31) 17181971
SEO, Jung Hyun	(47) 30.08.2023	(32) 18.07.2017
(31) 20190078374	(87) FR2019051830	(33) European Patent Office (EPO)
20180167778	30.01.2020	(51) G02B 6/44
20180075899	(22) 24.07.2019	(11) EP3832365
(32) 28.06.2019	(54) DEVICE FOR PROCESSING LIGHT RADIATION, COMPRISING A MULTI-PLANE LIGHT CONVERSION DEVICE	(21) EP19306580.2
21.12.2018	(73) Cailabs	(47) 30.08.2023
29.06.2018	(72) LABROILLE, Guillaume	(22) 05.12.2019
(33) Korea (Republic)	PINEL, Olivier	(54) METHOD FOR THE CONTINUOUS PRODUCTION OF OPTICAL FIBRE CONDUCTOR SENSORS MOUNTED IN A PERFORATED METAL HOLLOW PROFILE
Korea (Republic)	JACQUARD, Clément	(73) Nexans
Korea (Republic)	(31) 1901955	(72) LANGE, Nico
(51) G02B 6/00	1856890	PETERSEN, Olaf
G02B 6/24	(32) 26.02.2019	DINKEL, Steven
G02B 6/36	25.07.2018	EGERER, Ralf
G02B 6/38	(33) France	(51) G02B 6/44
A61B 5/00	France	G02B 6/245
(11) EP3574352	(51) G02B 6/38	B29D 11/00
(21) EP18744914.5	G02B 6/42	C03C 25/106
(47) 30.08.2023	(11) EP3845940	C03C 25/26
(87) US2018015735	(21) EP20837919.8	(11) EP3696584
02.08.2018	(47) 30.08.2023	(21) EP20156435.8
(22) 29.01.2018	(87) CN2020099462	(47) 30.08.2023
(54) SYSTEMS AND METHODS FOR PROVIDING AN OPTICAL ROTARY JOINT	14.05.2021	(22) 10.02.2020
(73) The General Hospital Corporation	(22) 30.06.2020	(54) METHOD OF PRODUCING OPTICAL FIBER WITH COATING HAVING GAPS
(72) PIAO, Zhonglie	(54) FERRULE, OPTICAL COMMUNICATION ELEMENT AND PREPARATION METHOD	(73) OFS Fitel, LLC (a Delaware Limited Liability Company)
TEARNEY, Guillermo J.	(73) Huawei Technologies Co., Ltd.	(72) LEICHTER, Eric J.
(31) 201762451511 P	(72) GUO, Dan	(31) 201916275421
(32) 27.01.2017	WANG, Baoqi	(32) 14.02.2019
(33) United States of America	ZHAO, Junying	(33) United States of America
(51) G02B 6/122	(31) 201911086437	(51) G02B 6/44
G02B 6/12	(32) 08.11.2019	
G02B 6/136	(33) China	
G02B 6/125	(51) G02B 6/42	
(11) EP3923047	H04B 10/40	
(21) EP21174849.6		
(47) 30.08.2023		

G02B 6/48	F28D 15/02	(73) Associação Fraunhofer Portugal
H02G 7/05	G06F 1/20	(72) MACIEIRA SOARES TORRES DA
(11) EP3214473	(11) EP3392690	SILVA, Paulo André
(21) EP16000504.7	(21) EP17196418.2	CHRISTIAN ELIAS, Dirk
(47) 30.08.2023	(47) 30.08.2023	NETO FARIA, José Rui
(22) 02.03.2016	(22) 13.10.2017	CAEIRO MARGALHO GUERRA
(54) SUPPORT STRUCTURE FOR AN	(54) SYSTEM FOR DISCHARGING HEAT	ROSADO, Luis Filipe
OPTICAL FIBER CABLE	OUT OF HEAD-MOUNTED DISPLAY	WISEU OLIVEIRA, João Carlos
(73) Kato, Imre	BASED ON HYBRID FAN AND HEAT	ALVES CORREIA DA COSTA, José
ING3 Beteiligungs GmbH	PIPE	Manuel
(72) Kató, Imre	(73) Facebook Technologies, LLC	(31) 2019115614
(51) G02B 6/44	(72) MILLER, Robin Michael	(32) 28.06.2019
H01B 11/22	ALLIN, Boyd Drew	(33) Portugal
(11) EP3830621	(31) 201715491522	(51) G02B 21/24
(21) EP19748505.5	PCT/US2017/030630	G02B 21/26
(47) 30.08.2023	(32) 19.04.2017	G02B 21/36
(87) EP2019070264	02.05.2017	(11) EP3387477
30.01.2020	(33) United States of America	(21) EP16815977.0
(22) 26.07.2019	World Intellectual Property Office (WIPO)	(47) 30.08.2023
(54) OPTICAL-ELECTRICAL CONDUCTOR	(51) G02B 9/60	(87) JP2016086318
ASSEMBLY COMPRISING AN OPTICAL	G02B 9/62	15.06.2017
WAVEGUIDE AND AN ELECTRICALLY	G02B 9/64	(22) 07.12.2016
CONDUCTING LAYER	G02B 13/00	(54) MICROSCOPE SYSTEM AND METHOD
(73) SCHOTT AG	(11) EP3465313	OF CONTROLLING THE SAME
(72) HENN, Christian	(21) EP18821980.2	(73) Canon Kabushiki Kaisha
KEIPER, Oliver	(47) 30.08.2023	(72) SAKAI, Akihiro
SCHULTHEIS, Bernd	(87) IB2018055450	SAKAMOTO, Michiie
(31) 102018118225	31.01.2019	HASHIGUCHI, Akinori
(32) 27.07.2018	(22) 22.07.2018	ANDO, Hirotake
(33) Germany	(54) COMPACT FOLDED LENSES WITH	SAKATA, Tsuguhide
(51) G02B 6/44	LARGE APERTURES	MASUDA, Shinobu
H04J 14/02	(73) Corephotonics Ltd.	KATO, Kazuhiko
H04Q 11/00	(72) RUDNICK, Roy	(31) 2015241643
G02B 6/38	SHABTAY, Gal	(32) 10.12.2015
(11) EP3223052	BACHAR, Gil	(33) Japan
(21) EP16201020.1	GOLDENBERG, Ephraim Robert	(51) G02B 23/00
(47) 30.08.2023	DROR, Michael	G02B 17/06
(22) 08.11.2011	(31) 201762535926 P	G02B 26/08
(54) FIBER RECOGNITION METHOD,	(32) 23.07.2017	G01S 3/789
OPTICAL LINE TERMINAL, AND	(33) United States of America	G02B 27/64
RECOGNITION SYSTEM	(51) G02B 13/00	(11) EP3814825
(73) Huawei Technologies Co., Ltd.	(11) EP2987019	(21) EP19749824.9
(72) LI, Shu	(21) EP14832584.8	(47) 30.08.2023
YANG, Sulin	(47) 30.08.2023	(87) NL2019050390
YIN, Jinrong	(87) US2014048484	02.01.2020
(51) G02B 7/00	05.02.2015	(22) 26.06.2019
G03B 21/16	(22) 28.07.2014	(54) AFOCAL IN-FIELD POINTING
G02B 27/01	(54) MECHANICAL ZOOM IMAGING	TELESCOPE SYSTEM
(11) EP3567412	ASSEMBLY	(73) Nederlandse Organisatie voor toegepast-
(21) EP19173195.9	(73) Bio-Rad Laboratories, Inc.	natuurwetenschappelijk onderzoek TNO
(47) 30.08.2023	(72) THRUSH, Evan	(72) VISSER, Huibert
(22) 08.05.2019	PEREZ, Evelio	VAN BRUG, Hedser
(54) VEHICLE DISPLAY DEVICE	MCDONALD, Kevin	(31) 18180206
(73) Yazaki Corporation	SWIHART, Steve	(32) 27.06.2018
(72) YAGI, Kenji	(31) 201361859646 P	(33) European Patent Office (EPO)
MUKOJIMA, Hidetoshi	(32) 29.07.2013	(51) G02B 23/06
MURATA, Naohisa	(33) United States of America	B64G 3/00
MIYAKE, Yuta	(51) G02B 21/00	G02B 17/00
(31) 2019039854	G02B 21/26	(11) EP2593366
2018199465	G02B 21/36	(21) EP11735618.8
2018091932	(11) EP3757648	(47) 30.08.2023
(32) 05.03.2019	(21) EP20154147.1	(87) EP2011061569
23.10.2018	(47) 30.08.2023	19.01.2012
11.05.2018	(22) 28.01.2020	(22) 08.07.2011
(33) Japan	(54) OPTICAL SYSTEM ATTACHABLE TO	(54) OPTICAL WATCH SYSTEM FOR A
Japan	A MOBILE DEVICE FOR SCANNING	SPACE WATCH SYSTEM FOR NEAR
Japan	BIOLOGICAL SAMPLE SLIDES AND	SPACE MONITORING
(51) G02B 7/02	OPERATING METHOD THEREOF	(73) ArianeGroup SAS

(72) LEVEQUE, Louis CAILLAU, Damien LE BERRE, François MARTIN, Bernard	B81B 3/00 (11) EP3839602 (21) EP20212233.9 (47) 30.08.2023	(31) 2012107213 (32) 09.05.2012 (33) Japan
(31) 1055660 (32) 12.07.2010 (33) France	(22) 07.12.2020 (54) MICROELECTROMECHANICAL MIRROR DEVICE WITH PIEZOELECTRIC ACTUATION, HAVING AN IMPROVED STRUCTURE	(51) G02B 27/01 G02B 1/10 (11) EP3834033 (21) EP19846128.7 (47) 30.08.2023 (87) US2019017907 13.02.2020 (22) 13.02.2019 (54) TRANSFERABLE THIN-FILM OPTICAL DEVICES (73) Facebook Technologies, LLC. (72) LU, Lu WANG, Junren MCELDOWNEY, Scott
(51) G02B 23/08 G03B 17/17 H04M 1/02 G02B 27/01 G03B 35/08 G02B 27/10 G03B 17/56 G02B 15/10 G02B 27/14 G02B 17/02	(73) STMicroelectronics S.r.l. (72) BONI, Nicolò MERLI, Massimiliano CARMINATI, Roberto (31) 201900024469 (32) 18.12.2019 (33) Italy	(47) 30.08.2023 (87) US2019017907 13.02.2020 (22) 13.02.2019 (54) TRANSFERABLE THIN-FILM OPTICAL DEVICES (73) Facebook Technologies, LLC. (72) LU, Lu WANG, Junren MCELDOWNEY, Scott
(11) EP3797327 (21) EP18745843.5 (47) 30.08.2023 (87) EP2018068810 16.01.2020 (22) 11.07.2018 (54) A DETACHABLE OPTICAL STRUCTURE FOR DISPLACING THE OPTICAL AXIS OF A CAMERA DEVICE	(51) G02B 26/08 B81B 3/00 B81C 3/00 G02B 26/10 (11) EP3163352 (21) EP15814142.4 (47) 30.08.2023 (87) JP2015066752 07.01.2016 (22) 10.06.2015 (54) MIRROR DRIVE DEVICE AND METHOD FOR PRODUCING SAME	(31) 201916274211 201862716129 P (32) 12.02.2019 08.08.2018 (33) United States of America United States of America
(73) HUAWEI TECHNOLOGIES CO., LTD. (72) EROMAKI, Marko	(73) Hamamatsu Photonics K.K. (72) MORINAGA, Yuki IWASHINA, Shinya TAKIMOTO, Sadaharu KIMOTO, Masakuni (31) 2014133698 (32) 30.06.2014 (33) Japan	(51) G02B 27/01 G02B 27/00 G01C 21/36 B60R 1/00 G06F 3/01 (11) EP3658976 (21) EP18745895.5 (47) 30.08.2023 (87) EP2018069913 31.01.2019 (22) 23.07.2018 (54) METHOD FOR PROVIDING A DISPLAY IN A MOTOR VEHICLE, AND MOTOR VEHICLE
(51) G02B 26/00 (11) EP3374818 (21) EP16872222.1 (47) 30.08.2023 (87) CN2016101591 15.06.2017 (22) 09.10.2016 (54) MODULAR PHOTONIC SWITCH ARCHITECTURE	(73) Huawei Technologies Co., Ltd. (72) MEHRVAR, Hamid (31) 201615202182 201562266328 P (32) 05.07.2016 11.12.2015 (33) United States of America United States of America	(51) G02B 27/01 G02B 27/00 G02B 27/10 (11) EP3973350 (21) EP20731680.3 (47) 30.08.2023 (87) US2020033527 26.11.2020 (22) 19.05.2020 (54) DEVICES WITH MONOCHROMATIC LIQUID CRYSTAL ON SILICON DISPLAYS (73) Facebook Technologies, LLC. (72) GOLLIER, Jacques (31) 202015931778 201962850510 P (32) 14.05.2020 20.05.2019 (33) United States of America United States of America
(73) HUAWEI TECHNOLOGIES CO., LTD. (72) EROMAKI, Marko	(73) Hamamatsu Photonics K.K. (72) MORINAGA, Yuki IWASHINA, Shinya TAKIMOTO, Sadaharu KIMOTO, Masakuni (31) 2014133698 (32) 30.06.2014 (33) Japan	(51) G02B 26/10 G02B 26/12 G02B 27/01 (11) EP3590000 (21) EP18762171.9 (47) 30.08.2023 (87) US2018019801 15.11.2018 (22) 27.02.2018 (54) MEMS SCANNING DISPLAY DEVICE
(51) G02B 26/00 B81B 3/00 G01B 9/02 G01J 3/45 G02B 26/08	(73) Microsoft Technology Licensing, LLC (72) MARGOLIS, Jeffrey N. MILLER, Joshua Owen TARDIF, John Allen (31) 201815870838 201715624477 201762467086 P (32) 12.01.2018 15.06.2017 03.03.2017 (33) United States of America United States of America United States of America	(51) G02B 27/01 G02B 27/00 G02B 27/10 (11) EP3973350 (21) EP20731680.3 (47) 30.08.2023 (87) US2020033527 26.11.2020 (22) 19.05.2020 (54) DEVICES WITH MONOCHROMATIC LIQUID CRYSTAL ON SILICON DISPLAYS (73) Facebook Technologies, LLC. (72) GOLLIER, Jacques (31) 202015931778 201962850510 P (32) 14.05.2020 20.05.2019 (33) United States of America United States of America
(11) EP3650911 (21) EP18827806.3 (47) 30.08.2023 (87) JP2018025637 10.01.2019 (22) 06.07.2018 (54) OPTICAL DEVICE	(73) Hamamatsu Photonics K.K. (72) SUGIMOTO, Tatsuya KOTANI, Kyosuke SUZUKI, Tomofumi (31) 2017235025 2017133093 (32) 07.12.2017 06.07.2017 (33) Japan Japan	(51) G02B 27/01 G02B 27/02 G06T 7/20 H04N 13/10 H04N 13/334
(51) G02B 26/08	(73) Sony Group Corporation (72) MUKAWA, Hiroshi	

G06F 3/0346	GRAFF, Allen Timothy	OGURA, Motonari
(11) EP3714318	LEE, Vincent James	(31) 2017161815
(21) EP19741514.4	(31) 201816050682	(32) 25.08.2017
(47) 30.08.2023	(32) 31.07.2018	(33) Japan
(87) US2019013971	(33) United States of America	(51) G02F 1/13357
25.07.2019	(51) G02C 7/04	F21S 2/00
(22) 17.01.2019	(11) EP2876488	G02B 6/00
(54) POSITION TRACKING SYSTEM FOR	(21) EP14194391.0	F21V 8/00
HEAD-MOUNTED DISPLAYS THAT	(47) 30.08.2023	(11) EP3893047
INCLUDES SENSOR INTEGRATED	(22) 21.11.2014	(21) EP19893805.2
CIRCUITS	(54) CONTACT LENSES WITH IMPROVED	(47) 30.08.2023
(73) Valve Corporation	OXYGEN TRANSMISSION	(87) JP2019041368
(72) HUDMAN, Joshua, Mark	(73) Johnson & Johnson Vision Care, Inc.	11.06.2020
(31) 201862618928 P	(72) Yuan, Fang	(22) 21.10.2019
(32) 18.01.2018	Brennan, Noel A.	(54) OPTICAL LAMINATE
(33) United States of America	Jubin, Philippe F.	(73) Nitto Denko Corporation
(51) G02B 27/01	Gerligand, Pierre-Yves	(72) MORISHIMA Ryota
G02B 30/20	Damodharan, Radhakrishnan	HATTORI Daisuke
(11) EP3792681	(31) 201314087625	(31) 2018229420
(21) EP20194816.3	(32) 22.11.2013	(32) 06.12.2018
(47) 30.08.2023	(33) United States of America	(33) Japan
(22) 07.09.2020	(51) G02C 13/00	(51) G02F 1/13357
(54) MULTI-IMAGE DISPLAY APPARATUS	A61B 3/11	G02F 1/133
USING HOLOGRAPHIC PROJECTION	(11) EP4143628	H04M 1/02
(73) Samsung Electronics Co., Ltd.	(21) EP21723298.2	G02B 6/00
(72) Shin, Bongsu	(47) 30.08.2023	(11) EP3819898
Sung, Geeyoung	(87) EP2021062313	(21) EP18928163.7
Seo, Wontaek	25.11.2021	(47) 30.08.2023
Lee, Hongseok	(22) 10.05.2021	(87) CN2018097709
Lee, Changkun	(54) COMPUTER-IMPLEMENTED	06.02.2020
(31) 20190111556	METHOD FOR DETERMINING	(22) 28.07.2018
(32) 09.09.2019	CENTRE PARAMETERS FOR MOBILE	(54) DISPLAY SCREEN AND TERMINAL
(33) Korea (Republic)	TERMINALS, MOBILE TERMINAL AND	(73) HUAWEI TECHNOLOGIES CO., LTD.
(51) G02C 5/22	COMPUTER PROGRAM	(72) XUE, Kangle
(11) EP3885819	(73) Carl Zeiss Vision International GmbH	GAO, Jiuliang
(21) EP21186378.2	(72) GAMPERLING, Michael	YAN, Bin
(47) 30.08.2023	GROMOTKA, Jeremias	YIN, Bangshi
(22) 19.07.2021	(31) 20176093	DING, Jun
(54) SPECTACLE FRAME AND TEMPLE	(32) 22.05.2020	(51) G02F 1/1343
CONNECTING MECHANISM AND	(33) European Patent Office (EPO)	G02F 1/1337
EYEGLASSES	(51) G02F 1/1333	(11) EP3764156
(73) Guangdong Jingtai Technology Co., Ltd.	(11) EP3528040	(21) EP20183930.5
(72) Chen, Xinchuan	(21) EP19157069.6	(47) 30.08.2023
Chen, Xindong	(47) 30.08.2023	(22) 03.07.2020
(31) 202110633644	(22) 14.02.2019	(54) LIQUID CRYSTAL DISPLAY DEVICE
(32) 07.06.2021	(54) DISPLAY DEVICE INCLUDING A	(73) LG Display Co., Ltd.
(33) China	CUSHION LAYER HAVING MEMBERS	(72) HA, Kyung-Su
(51) G02C 5/22	WITH DIFFERENT MODULI	KIM, Won-Taeck
G02C 11/06	(73) Samsung Display Co., Ltd.	(31) 20190084398
G02C 11/00	(72) Kim, Se Bong	(32) 12.07.2019
H04R 1/02	(31) 20180018513	(33) Korea (Republic)
H04R 1/10	(32) 14.02.2018	(51) G02F 1/1347
H04R 5/02	(33) Korea (Republic)	G02F 1/13
H04R 5/033	(51) G02F 1/1333	(11) EP3649507
(11) EP3830634	G02F 1/13	(21) EP17893505.2
(21) EP19752836.7	(11) EP3674784	(47) 30.08.2023
(47) 30.08.2023	(21) EP18848291.3	(87) CN2017092070
(87) US2019044413	(47) 30.08.2023	10.01.2019
06.02.2020	(87) JP2018006348	(22) 06.07.2017
(22) 31.07.2019	28.02.2019	(54) PEEP-PROOF APPARATUS FOR
(54) AUDIO EYEGLASSES WITH CABLE-	(22) 22.02.2018	SWITCHING A VIEWING ANGLE
THROUGH HINGE AND RELATED	(54) DISPLAY MANUFACTURING DEVICE	OF DISPLAY PANEL, DISPLAY
FLEXIBLE PRINTED CIRCUIT	AND DISPLAY MANUFACTURING	APPARATUS, METHOD OF
(73) Bose Corporation	METHOD	OPERATING DISPLAY APPARATUS
(72) ALICEA, Edgardo	(73) Panasonic Intellectual Property	(73) Beijing BOE Display Technology Co., Ltd.
SCHAAL, Nathan David	Management Co., Ltd.	BOE Technology Group Co., Ltd.
MEGANCK, Ryan Richard	(72) MORITA, Hisato	(72) YANG, Ruizhi
BOSCH, Cedric	KOMODA, Daisuke	WANG, Ruiyong

LV, Zhenhua YOU, Yang	(72) MORIGUCHI, Yoshikiyo MINAMIDE, Hiroaki	(21) EP20740656.2 (47) 30.08.2023
(51) G02F 1/155	(31) 2017155165	(87) EP2020070701 25.02.2021
G02F 1/15	(32) 10.08.2017	(22) 22.07.2020
G02F 1/153	(33) Japan	(54) METHOD FOR CONTROLLING A LITHOGRAPHIC APPARATUS
(11) EP3438734	(51) G03B 17/56	(73) ASML Netherlands B.V.
(21) EP17775291.2	F16M 11/20	(72) YAGUBIZADE, Hadi
(47) 30.08.2023	G12B 9/04	PARK, Jeonghyun
(87) JP2017013038	F16P 7/00	SLOTBOOM, Daan, Maurits
05.10.2017	G01P 15/00	CUI, Yingchao
(22) 29.03.2017	F16M 11/28	KIM, Min-Seok
(54) ELECTROCHROMIC DIMMING	F16M 11/32	COTTAAR, Jeroen
MEMBER AND ELECTROCHROMIC	(11) EP3582002	(31) 20151440
DIMMING ELEMENT	(21) EP19180040.8	19193151
(73) Nitto Denko Corporation	(47) 30.08.2023	(32) 13.01.2020
(72) FUJINO, Nozomi	(22) 13.06.2019	22.08.2019
NASHIKI, Tomotake	(54) FALL PROTECTION DEVICE AND	(33) European Patent Office (EPO)
YONEZAWA, Hideyuki	METHOD	European Patent Office (EPO)
WATANABE, Kenta	(73) CAMPENON BERNARD CENTRE EST	(51) G03F 7/20
(31) 2017063655	Helite	B01J 19/00
2016074488	(72) QUEDDIS, Hicham	B29C 64/135
(32) 28.03.2017	BAVEREL, Camille	B29C 64/129
01.04.2016	FRANCE, Sylvain	G01N 33/50
(33) Japan	THEVENOT, Gérard	B33Y 10/00
Japan	PETIT JEAN, Cédric	B33Y 80/00
(51) G02F 1/167	CAUZA, Chiril	B33Y 30/00
G09G 3/34	QUARREY, Alexandre	(11) EP3482260
(11) EP3377939	SEJOURNANT, Estelle	(21) EP17825081.7
(21) EP16867187.3	WEBER, Antoine	(47) 30.08.2023
(47) 30.08.2023	(31) 1855192	(87) US2017041419
(87) US2016062672	(32) 13.06.2018	11.01.2018
26.05.2017	(33) France	(22) 10.07.2017
(22) 18.11.2016	(51) G03B 21/20	(54) APPARATUS FOR PATTERNING HYDROGELS INTO MULTI-WELL PLATES
(54) ELECTRO-OPTIC DISPLAYS	G03B 33/08	(73) Cypre, Inc.
(73) E Ink Corporation	(11) EP3598230	(72) BUCKLEY, Padraig
(72) AMUNDSON, Karl Raymond	(21) EP17901192.9	HRIBAR, Kolin C.
SZYMBORSKI, Zdzislaw Jan	(47) 30.08.2023	(31) 201662411438 P
(31) 201562256931 P	(87) CN2017081311	201662360178 P
(32) 18.11.2015	20.09.2018	(32) 21.10.2016
(33) United States of America	(22) 20.04.2017	08.07.2016
(51) G02F 1/35	(54) LIGHT SOURCE DEVICE AND	(33) United States of America United States of America
G02F 1/39	PROJECTION SYSTEM	(51) G03F 7/42
H01S 3/00	(73) APPOTRONICS CORPORATION	(11) EP3997521
(11) EP3800503	LIMITED	(21) EP20740561.4
(21) EP19306254.4	(72) HU, Fei	(47) 30.08.2023
(47) 30.08.2023	DU, Peng	(87) EP2020069326
(22) 01.10.2019	GUO, Zuqiang	14.01.2021
(54) COMPRESSION-FREE AND SINGLE- BEAM GENERATION OF A CARRIER- ENVELOPE PHASE-STABLE OPTICAL PULSE	LI, Yi	(22) 09.07.2020
(73) Fastlite	MI, Lin	(54) PHOTORESIST REMOVER COMPOSITIONS
(72) FORGET, Nicolas	(31) 201710150667	(73) Merck Patent GmbH
(51) G02F 1/39	(32) 14.03.2017	(72) ARENT, Robert
H01S 3/00	(33) China	WU, Hengpeng
H01S 3/10	(51) G03F 7/20	(31) 201962872950 P
G02F 1/35	(11) EP3360156	(32) 11.07.2019
(11) EP3667407	(21) EP16790890.4	(33) United States of America
(21) EP18843606.7	(47) 30.08.2023	(51) G03G 9/08
(47) 30.08.2023	(87) EP2016073750	G03G 9/087
(87) JP2018028453	13.04.2017	(11) EP3582014
14.02.2019	(22) 05.10.2016	(21) EP19179608.5
(22) 30.07.2018	(54) HUMIDITY CONTROL IN	(47) 30.08.2023
(54) TERAHERTZ WAVE GENERATION METHOD AND TERAHERTZ WAVE GENERATION DEVICE	SEMICONDUCTOR SYSTEMS	(22) 12.06.2019
(73) Topcon Corporation	(73) Brooks Automation (Germany) GmbH	
Riken	(72) REBSTOCK, Lutz	
	(31) 201562236990 P	
	(32) 05.10.2015	
	(33) United States of America	
	(51) G03F 7/20	
	(11) EP4018263	

(54) TONER AND TONER MANUFACTURING METHOD	(72) Nakahara, Hisashi Tanaka, Noriaki	(11) EP3714336
(73) CANON KABUSHIKI KAISHA	Matsubara, Hideyuki	(21) EP18812307.9
(72) MATSUI, Takashi	Yonekubo, Hideaki	(47) 30.08.2023
SAEKI, Tatsuya	Fujiwara, Yuji	(87) IB2018059181
WATANABE, Shuntaro	Kato, Akira	31.05.2019
AKIYAMA, Hiroki	Shimura, Yasuhiro	(22) 21.11.2018
KAGAWA, Hiroki	(31) 2014198446	(54) SUPPORT OF A MOBILE HOLDING A DISPLAY DISC
(31) 2019074943	2013237913	(73) Patek Philippe SA Genève
2018113067	2013237909	(72) PALERMO, Salvatore
(32) 10.04.2019	(32) 29.09.2014	FERNANDEZ SAMPEDRO, José
13.06.2018	18.11.2013	TANNER, Samuel
(33) Japan	18.11.2013	(31) 17202775
Japan	(33) Japan	(32) 21.11.2017
(51) G03G 9/093	Japan	(33) European Patent Office (EPO)
G03G 9/087	Japan	(51) G04B 19/04
(11) EP3582020	(51) G03H 1/08	G04B 31/08
(21) EP19179603.6	(11) EP3814850	(11) EP4066067
(47) 30.08.2023	(21) EP19732543.4	(21) EP20799758.6
(22) 12.06.2019	(47) 30.08.2023	(47) 30.08.2023
(54) TONER	(87) EP2019063890	(87) EP2020081192
(73) CANON KABUSHIKI KAISHA	02.01.2020	03.06.2021
(72) TAGAWA, Reo	(22) 28.05.2019	(22) 05.11.2020
SHIMANO, Tsutomu	(54) METHOD FOR GENERATING A DIGITAL HOLOGRAM, ASSOCIATED DEVICE, HOLOGRAPHIC DISPLAY SYSTEM AND COMPUTER PROGRAM	(54) LATERAL LUBRICATION OF COAXIAL PIPES-WHEELS
KAMIKURA, Kenta	(73) Fondation B-COM	(73) ETA SA Manufacture Horlogère Suisse
AOKI, Kenji	(72) GILLES, Antonin	(72) BALMER, M. Raphaël
MATSUI, Takashi	GIOIA, Patrick	(31) 19211207
SUZUKI, Masao	(31) 1855901	(32) 25.11.2019
(31) 2019075019	(32) 28.06.2018	(33) European Patent Office (EPO)
2018113141	(33) France	(51) G04B 31/02
(32) 10.04.2019	(51) G04B 5/18	G04B 31/06
13.06.2018	G04B 5/20	G04B 31/004
(33) Japan	G04B 11/00	(11) EP3770697
Japan	(11) EP3158401	(21) EP19188535.9
(51) G03G 15/00	(21) EP15728905.9	(47) 30.08.2023
G03G 15/08	(47) 30.08.2023	(22) 26.07.2019
(11) EP3767396	(87) EP2015063649	(54) METHOD FOR MANUFACTURING A BEVELLED STONE, IN PARTICULAR FOR A CLOCK MOVEMENT
(21) EP20185694.5	23.12.2015	(73) Comadur S.A.
(47) 30.08.2023	(22) 17.06.2015	(72) RETROUVEY, Sébastien
(22) 14.07.2020	(54) CLOCK TRANSMISSION DEVICE	MIDOL, Sébastien
(54) IMAGE FORMING APPARATUS	(73) Rolex S.A.	BESUTTI, Bruno
(73) KYOCERA Document Solutions Inc.	(72) BERTRAND, Jean-Louis	(51) G05B 11/42
(72) TANIGUCHI, Ryo	GRASSER, Félix	B60W 10/20
IKEUCHI, Atsuya	GRAEMIGER, Pierre-Alain	B60W 30/18
NAGAMOTO, Takeru	BILLET, Pascal	G08G 1/16
(31) 2019132963	(31) 14173119	B60W 50/00
(32) 18.07.2019	(32) 19.06.2014	(11) EP3798746
(33) Japan	(33) European Patent Office (EPO)	(21) EP19822877.7
(51) G03G 15/00	(51) G04B 17/04	(47) 30.08.2023
G03G 21/16	G04B 18/04	(87) CN2019092238
(11) EP3098661	(11) EP4016194	26.12.2019
(21) EP16171393.8	(21) EP21208930.4	(22) 21.06.2019
(47) 30.08.2023	(47) 30.08.2023	(54) VEHICLE LANE CHANGE CONTROL METHOD AND DEVICE
(22) 25.05.2016	(22) 18.11.2021	(73) Great Wall Motor Company Limited
(54) IMAGE FORMING APPARATUS AND VOLTAGE SUPPLY METHOD	(54) TIMEPIECE RESONATOR MECHANISM WITH FLEXIBLE GUIDE PROVIDED WITH A MEANS FOR ADJUSTING THE RIGIDITY	(72) GE, Jianyong
(73) Kyocera Document Solutions Inc.	(73) Omega SA	WANG, Tianpei
(72) MATSUNO, Akinori	(72) KAHROBAIYAN, Mohammad Hussein	GAO, Jian
(31) 2015107007	(31) 20215523	HE, Lin
(32) 27.05.2015	(32) 18.12.2020	LU, Ning
(33) Japan	(33) European Patent Office (EPO)	(31) 201810652866
(51) G03G 15/20	(51) G04B 19/02	(32) 22.06.2018
(11) EP3998511	G04B 19/20	(33) China
(21) EP21209210.0		(51) G05B 13/02
(47) 30.08.2023		G05B 13/04
(22) 17.11.2014		
(54) IMAGE HEATING APPARATUS		
(73) CANON KABUSHIKI KAISHA		

(11) EP3705953	(22) 17.12.2019	(33) Germany
(21) EP19161069.0	(54) DEVICE TO BE MOUNTED ON A	Germany
(47) 30.08.2023	COVERING INSTALLATION	(51) G05B 19/042
(22) 06.03.2019	(73) Teleco Automation S.R.L.	(11) EP3273314
(54) CONTROL OF A PHYSICAL SYSTEM	(72) COLLOVINI, Roberto	(21) EP16180149.3
BASED ON INFERRED STATE	BORSOI, Luigi	(47) 30.08.2023
(73) Robert Bosch GmbH	(31) 201800020503	(22) 19.07.2016
(72) Welling, Max	(32) 20.12.2018	(54) PROGRAMMABLE LOGIC
Garcia Satorras, Victor	(33) Italy	CONTROLLER WITH MANAGEMENT
Fischer, Volker	(51) G05B 15/02	SYSTEM
Akata, Zeynep	F24D 19/10	(73) ABB Schweiz AG
(51) G05B 13/02	H05B 47/11	(72) Sehestedt, Stephan
H05K 7/20	H05B 47/115	Hauck-Stattelmann, Stefan
(11) EP3679773	H05B 47/165	Koziolek, Heiko
(21) EP18853088.5	H02J 3/14	Harding, Jeffrey
(47) 30.08.2023	(11) EP3655838	(51) G05B 19/042
(87) US2018049734	(21) EP18835810.5	(11) EP4016206
14.03.2019	(47) 30.08.2023	(21) EP20214932.4
(22) 06.09.2018	(87) US2018042622	(47) 30.08.2023
(54) COOLING UNIT ENERGY	24.01.2019	(22) 17.12.2020
OPTIMIZATION VIA SMART SUPPLY	(22) 18.07.2018	(54) SENSOR ARRANGEMENT, CONTROL
AIR TEMPERATURE SETPOINT	(54) RULE-BASED LOAD SHEDDING	DEVICE, AUTOMATION SYSTEM
CONTROL	ALGORITHM FOR BUILDING ENERGY	AND METHOD FOR TRANSMITTING
(73) Vertiv Corporation	MANAGEMENT	SIGNALS ACCORDING TO TWO
(72) BRUNSTETTER, Craig A.	(73) ABB Schweiz AG	COMMUNICATION STANDARDS
(31) 201762554785 P	(72) CARR, Joseph, A.	(73) Baumer Electric AG
(32) 06.09.2017	BRISSETTE, Alexander	(72) Brändle, Daniel
(33) United States of America	(31) 201715653478	Zepf, Stephan
(51) G05B 13/04	(32) 18.07.2017	(51) G05B 19/042
G05B 19/418	(33) United States of America	(11) EP3961318
G05B 19/042	(51) G05B 17/02	(21) EP21189482.9
(11) EP4062240	G06N 3/04	(47) 30.08.2023
(21) EP20824083.8	G08G 1/16	(22) 03.08.2021
(47) 30.08.2023	B62D 15/02	(54) METHOD FOR CONFIGURING A
(87) EP2020082551	G06N 3/08	MODULAR SAFETY SWITCHING
27.05.2021	G06V 10/82	DEVICE
(22) 18.11.2020	G06V 20/56	(73) Pilz GmbH & Co. KG
(54) REMOTE CONTROL OF A PLANT FOR	G06V 10/764	(72) Rotzinger, Florian
PRODUCING AND / OR TREATING A	(11) EP3845981	Bauknecht, Jochen
METAL ROLLED PRODUCT	(21) EP20207084.3	(31) 102020122874
(73) Primetals Technologies Germany GmbH	(47) 30.08.2023	(32) 01.09.2020
(72) WINTER, Günther	(22) 12.11.2020	(33) Germany
ZEIHER, Hans-Juergen	(54) METHODS AND PROCESSORS FOR	(51) G05B 19/042
(31) 19210379	CONTROLLING STEERING OF SELF-	G05B 23/02
(32) 20.11.2019	DRIVING CAR	(11) EP3876049
(33) European Patent Office (EPO)	(73) YANDEX SELF DRIVING GROUP LLC	(21) EP21159748.9
(51) G05B 15/02	(72) VALCHOK, Andrei Yurievich	(47) 30.08.2023
(11) EP3532899	(31) 2019145038	(22) 26.02.2021
(21) EP17866182.3	(32) 30.12.2019	(54) DIAGNOSING FAULTS IN A RIVETING
(47) 30.08.2023	(33) Russian Federation	MACHINE
(87) US2017058526	(51) G05B 19/00	(73) Atlas Copco IAS UK Limited
03.05.2018	G06T 19/00	(72) ELLIOT, Peter John
(22) 26.10.2017	(11) EP3821305	(31) 202003015
(54) ENERGY CURABLE FOAM INHIBITION	(21) EP19739861.3	(32) 03.03.2020
INK	(47) 30.08.2023	(33) United Kingdom
(73) Electronics for Imaging, Inc.	(87) AT2019060221	(51) G05B 19/4093
(72) SLOAN, Donald A.	16.01.2020	(11) EP3821307
EDWARDS, Paul Andrew	(22) 03.07.2019	(21) EP19736669.3
(31) 201715400024	(54) ASSEMBLY COMPRISING A CNC	(47) 30.08.2023
201662413279 P	MACHINING SYSTEM AND AN	(87) EP2019067869
(32) 06.01.2017	AUGMENTED REALITY DISPLAY	16.01.2020
26.10.2016	DEVICE	(22) 03.07.2019
(33) United States of America	(73) Felder KG	(54) MILLING METHOD
United States of America	(72) FELDER, Johann	(73) Exeron GmbH
(51) G05B 15/02	(31) 102019105605	(72) MAYER, Joachim
(11) EP3671377	102018211478	(31) 102018116553
(21) EP19216958.9	(32) 06.03.2019	(32) 09.07.2018
(47) 30.08.2023	11.07.2018	

(33) Germany	(87) EP2018000082	(21) EP21206670.8
(51) G05B 19/4097	18.10.2018	(47) 30.08.2023
G05B 19/4093	(22) 28.02.2018	(22) 05.11.2021
G05B 19/042	(54) METHOD FOR MONITORING THE	(54) AUTONOMOUS MOBILE ROBOT,
B24B 9/14	CONDITION OF SUBSYSTEMS WITHIN	TRANSPORTER, AUTONOMOUS
B24B 13/06	A RENEWABLE GENERATION PLANT	MOBILE ROBOT CONTROL METHOD,
B24B 13/00	OR MICROGRID	AND TRANSPORTER CONTROL
G02C 7/10	(73) ABB Schweiz AG	METHOD
G02C 7/12	Hitachi Energy Switzerland AG	(73) Toshiba Infrastructure Systems &
G02C 7/02	(72) EISSA, Mohamed	Solutions Corporation
(11) EP3483681	ORKISZ, Michal	KABUSHIKI KAISHA TOSHIBA
(21) EP17306548.3	LAZARCZYK, Michal	(72) OGAWA, Hideki
(47) 30.08.2023	APELDOORN, Oscar	KISHI, Nobuyuki
(22) 08.11.2017	YU, RongRong	ITO, Yusuke
(54) METHOD AND SYSTEM FOR	OTTEWILL, James	TOKURA, Seiji
PRODUCING OPHTHALMIC LENSES	(31) 17460021	SONOURA, Takafumi
(73) Essilor International	(32) 10.04.2017	YUI, Hideto
(72) HONES, Peter	(33) European Patent Office (EPO)	MAKI, Yasunori
PIRAUBE, Sébastien	(51) G05B 23/02	YAMAMOTO, Daisuke
KALUZA, Mark	H04L 43/50	MORI, Akihiro
TAYLOR, Bruce	H04L 43/062	(31) 2020186088
ADOLFO, Fred	H04L 43/12	(32) 06.11.2020
GELB, Brad	G05B 19/042	(33) Japan
(51) G05B 19/4099	H04L 41/0631	(51) G05D 1/02
G05B 19/401	(11) EP3905595	(11) EP4180895
B29C 64/153	(21) EP18944895.4	(21) EP22185921.8
B29C 64/393	(47) 30.08.2023	(47) 30.08.2023
B33Y 10/00	(87) CN2018123911	(22) 20.07.2022
B22F 3/105	02.07.2020	(54) AUTONOMOUS MOBILE ROBOTS FOR
G05B 19/418	(22) 26.12.2018	COVERAGE PATH PLANNING
B33Y 50/02	(54) INDUSTRIAL CONTROL SYSTEM	(73) Rapyuta Robotics Co., Ltd.
(11) EP3488305	MONITORING METHOD, DEVICE	Taisei Corporation
(21) EP17743270.5	AND SYSTEM, AND COMPUTER-	(72) MATSUZAKI, Shigekazu
(47) 30.08.2023	READABLE MEDIUM	KASHIMOTO, Takafumi
(87) EP2017067362	(73) Siemens Aktiengesellschaft	GAUD, Ayush Kumar
01.02.2018	(72) TANG, Wen	NAKATANI, Koji
(22) 11.07.2017	(51) G05D 1/00	(31) 202217583250
(54) METHOD AND DEVICE FOR	(11) EP3655834	202163278169 P
DETERMINING COMPONENT QUALITY	(21) EP18755324.3	(32) 25.01.2022
(73) EOS GmbH Electro Optical Systems	(47) 30.08.2023	11.11.2021
(72) KAKKO, Katri	(87) JP2018025654	(33) United States of America
DOMRÖSE, Robert Achim	24.01.2019	United States of America
SYVÄNEN, Tatu	(22) 06.07.2018	(51) G05D 23/19
MINET, Kevin	(54) VEHICLE CONTROL DEVICE AND	F24D 10/00
YLANDER, Pilvi	VEHICLE CONTROL METHOD	(11) EP3488313
WOLF, Dominik	(73) Sony Semiconductor Solutions	(21) EP17748684.2
(31) 102016213609	Corporation	(47) 30.08.2023
(32) 25.07.2016	(72) OBA, Eiji	(87) EP2017068406
(33) Germany	(31) 2017141552	25.01.2018
(51) G05B 23/02	(32) 21.07.2017	(22) 20.07.2017
(11) EP3839684	(33) Japan	(54) REDUCTION OF THE RETURN
(21) EP20216051.1	(51) G05D 1/00	TEMPERATURE IN DISTRICT
(47) 30.08.2023	H04W 4/44	HEATING AND INCREASING OF THE
(22) 21.12.2020	(11) EP3992743	RETURN TEMPERATURE IN DISTRICT
(54) METHOD AND SYSTEM FOR	(21) EP20205431.8	COOLING
DIAGNOSING AN ENGINE OR AN	(47) 30.08.2023	(73) VITO NV
AIRCRAFT	(22) 03.11.2020	(72) SALENBIEN, Robbe
(73) Pratt & Whitney Canada Corp.	(54) VEHICLE, APPARATUS FOR A	DESMEDT, Johan
(72) SOUKHOSTAVETS, Egor	VEHICLE, COMPUTER PROGRAM,	TOL, Hakan Ibrahim
D'ANJOU, Daniel	AND METHOD FOR PROCESSING	(31) 16180385
(31) 201916723529	INFORMATION FOR COMMUNICATION	(32) 20.07.2016
(32) 20.12.2019	IN A TELE-OPERATED DRIVING	(33) European Patent Office (EPO)
(33) United States of America	SESSION	(51) G05F 1/567
(51) G05B 23/02	(73) Volkswagen Aktiengesellschaft	(11) EP3584667
H02J 13/00	(72) Jornod, Guillaume	(21) EP17896753.5
(11) EP3610341	Pfadler, Andreas	(47) 30.08.2023
(21) EP18711816.1	(51) G05D 1/02	(87) CN2017106875
(47) 30.08.2023	(11) EP3995925	23.08.2018

(22) 19.10.2017	(22) 14.02.2019	(54) SERVER RACK FUEL CELL
(54) LOW TEMPERATURE DRIFT REFERENCE VOLTAGE CIRCUIT	(54) ELECTRONIC DEVICE ACQUIRING USER INPUT WHEN IN SUBMERGED STATE BY USING PRESSURE SENSOR, AND METHOD FOR CONTROLLING ELECTRONIC DEVICE	(73) Microsoft Technology Licensing, LLC
(73) Gree Electric Appliances, Inc. of Zhuhai	(73) Samsung Electronics Co., Ltd.	(72) JAMES, Sean M.
(72) ZHANG, Liang	(72) LEE, Dongyup	HARRIS, Shaun L.
LI, Jianxun	PARK, Junghoon	MCKNIGHT, Gregory Joseph
FENG, Yuming	KANG, Seunggoo	(31) 201213720966
FAN, Shirong	LIM, Hoyeong	(32) 19.12.2012
PENG, Xinchao	SON, Dongil	(33) United States of America
XIE, Yuhua	KIM, Hyunseok	<hr/>
ZHOU, Jia	YI, Yongseung	(51) G06F 1/26
XU, Yijun	(31) 20180018147	G06F 1/30
YANG, Wenjie	(32) 14.02.2018	G06F 1/32
(31) 201710083188	(33) Korea (Republic)	G06F 1/3234
(32) 16.02.2017	(51) G06F 1/16	(11) EP3237993
(33) China	H01Q 1/22	(21) EP15873883.1
<hr/>	(11) EP3756234	(47) 30.08.2023
(51) G05F 1/575	(21) EP18926912.9	(87) US2015055138
G05F 1/46	(47) 30.08.2023	30.06.2016
G05F 3/22	(87) US2018042781	(22) 12.10.2015
G05F 3/30	23.01.2020	(54) SYSTEMS AND METHODS FOR CORE DROOP MITIGATION BASED ON LICENSE STATE
G05F 3/26	(22) 19.07.2018	(73) Intel Corporation
(11) EP3929694	(54) ELECTRONIC DEVICES HAVING ANTENNA ASSEMBLIES	(72) HAIDER, Nazar S.
(21) EP20305681.7	(73) Hewlett-Packard Development Company, L.P.	CHU, Allen W.
(47) 30.08.2023	(72) CHIU, Lien-Chia	MULLA, Dean
(22) 22.06.2020	CHEN, Hao Ming	(31) 201414581781
(54) A VOLTAGE REGULATOR	SO, Yu Chen	(32) 23.12.2014
(73) NXP USA, Inc.	CHEN, Ju-Hung	(33) United States of America
(72) Tico, Olivier	<hr/>	<hr/>
Mallard, Thomas	(51) G06F 1/16	(51) G06F 1/26
<hr/>	(72) CHIU, Lien-Chia	H04M 1/725
(51) G06F 1/16	CHEN, Hao Ming	H02J 50/90
(11) EP3433708	SO, Yu Chen	H02J 50/10
(21) EP16910771.1	CHEN, Ju-Hung	H02J 7/34
(47) 30.08.2023	<hr/>	H02J 7/00
(87) US2016044880	(51) G06F 1/16	G06F 3/0488
01.02.2018	H04M 1/02	G06F 3/0482
(22) 29.07.2016	G09F 9/30	G06F 1/3231
(54) ROTATABLE KEYBOARD	(11) EP3869297	G06F 1/3212
(73) Hewlett-Packard Development Company, L.P.	(21) EP20199921.6	H04M 1/72448
(72) LALINDE, Paul Roberto	(47) 30.08.2023	(11) EP3677990
<hr/>	(22) 02.10.2020	(21) EP20150558.3
(51) G06F 1/16	(54) MOBILE TERMINAL	(47) 30.08.2023
F16M 11/18	(73) LG Electronics Inc.	(22) 07.01.2020
F16M 11/10	(72) SONG, Insu	(54) ELECTRONIC DEVICE FOR PROVIDING USER INTERFACE FOR TRANSMITTING OR RECEIVING POWER WIRELESSLY AND METHOD THEREFOR
F16M 13/00	KIM, Jaewook	(73) Samsung Electronics Co., Ltd.
H04M 1/04	KIM, Minsoo	(72) KANG, Hyejin
H04M 1/02	(31) PCT/KR2020/002484	CHO, Jinhoon
(11) EP3973367	(32) 20.02.2020	OH, Kyunghui
(21) EP19885026.5	(33) World Intellectual Property Office (WIPO)	(31) 20190001555
(47) 30.08.2023	(51) G06F 1/20	(32) 07.01.2019
(87) US2019040649	H05K 7/20	(33) Korea (Republic)
22.05.2020	(11) EP3510849	<hr/>
(22) 03.07.2019	(21) EP17894894.9	(51) G06F 1/3206
(54) ENHANCING A VIRTUAL COMMUNICATION WITH A MOBILE COMMUNICATION DEVICE	(47) 30.08.2023	(11) EP3796128
(73) Huawei Technologies Co. Ltd.	(87) US2017016556	(21) EP19306163.7
(72) KIM, MyungJin	09.08.2018	(47) 30.08.2023
AI, Jiang	(22) 03.02.2017	(22) 23.09.2019
<hr/>	(54) THERMAL CONTROL WITH VAPOR AND ISOLATION CHAMBERS	(54) POWER MODE TRANSITION MANAGEMENT FOR POWER SUPPLY
(51) G06F 1/16	(73) Hewlett-Packard Development Company, L.P.	(73) NXP USA, Inc.
G06F 3/041	(72) BLATT, David Isaac	(72) HUREAU, Loic
G06F 3/0482	PESCETTO, Michael James	MCKENNA, Daniel
G06F 3/04886	PETERSON, Alan D.	MEUNIER, Jean-Philippe
G06F 3/044	<hr/>	<hr/>
(11) EP3722931	(51) G06F 1/26	(51) G06F 1/3206
(21) EP19754681.5	(11) EP3885879	G06F 1/3215
(47) 30.08.2023	(21) EP21174595.5	
(87) KR2019001813	(47) 30.08.2023	
22.08.2019	(22) 19.12.2013	

G06F 1/3228	(72) ROBINSON, Ian N.	MASSEY, Laura
G06F 1/3287	BALLAGAS, Rafael A.	SALTER, Thomas
G06F 1/3293	(51) G06F 3/01	(31) 201514697109
G06N 3/063	(11) EP3690612	201462029351 P
G06N 3/044	(21) EP20154840.1	(32) 27.04.2015
(11) EP3552076	(47) 30.08.2023	25.07.2014
(21) EP18815917.2	(22) 31.01.2020	(33) United States of America
(47) 30.08.2023	(54) VEHICLE INTERIOR PANEL WITH	United States of America
(87) US2018062329	SHAPE-CHANGING SURFACE	(51) G06F 3/01
31.05.2019	(73) Faurecia Interior Systems, Inc.	G06T 19/00
(22) 21.11.2018	(72) NOURI, Adnen	G09G 5/00
(54) LOW-POWER AMBIENT COMPUTING	SALANDRE, Maxime	G02B 27/01
SYSTEM WITH MACHINE LEARNING	MARIOTTE, Eloise	(11) EP3639261
(73) Google LLC	(31) 201916263381	(21) EP18794296.6
(72) MADAR, Ill, Lawrence	(32) 31.01.2019	(47) 30.08.2023
GULATI, Manu	(33) United States of America	(87) US2018031245
(31) 201762589547 P	(51) G06F 3/01	08.11.2018
(32) 21.11.2017	A63F 13/24	(22) 04.05.2018
(33) United States of America	A63F 13/285	(54) CONTEXTUAL APPLICATIONS IN A
(51) G06F 1/324	(11) EP3742260	MIXED REALITY ENVIRONMENT
G06N 3/063	(21) EP19740896.6	(73) Unity IPR APS
G06F 1/3296	(47) 30.08.2023	(72) PALMARO, Gregory Lionel Xavier Jean
G06F 9/48	(87) JP2019001498	DROUIN, Sylvio Herve
G06F 11/10	25.07.2019	ROSILLO, Dioselin Alejandra Gonzalez
G06F 11/16	(22) 18.01.2019	(31) 201762561017 P
G06F 11/18	(54) OPERATION INPUT DEVICE	201762502349 P
G06F 11/30	(73) Sony Interactive Entertainment Inc.	(32) 20.09.2017
G06N 3/045	(72) KAWASHIMA, Kenji	05.05.2017
G06V 10/82	FUKIKOSHI, Ryo	(33) United States of America
G06V 10/94	MORITA, Masaho	United States of America
G06N 3/08	(31) 2018007635	(51) G06F 3/02
G06F 18/2413	(32) 19.01.2018	H03K 17/96
(11) EP3660629	(33) Japan	H04R 1/02
(21) EP19218378.8	(51) G06F 3/01	H04R 1/26
(47) 30.08.2023	G06F 3/0346	H05K 1/02
(22) 05.07.2018	(11) EP3570740	G06F 3/0354
(54) DATA PROCESSING APPARATUS AND	(21) EP18741177.2	G06F 3/044
METHOD	(47) 30.08.2023	G06F 3/041
(73) Shanghai Cambricon Information	(87) US2018014736	H04R 1/30
Technology Co., Ltd	26.07.2018	H05K 1/14
(72) CHEN, Tianshi	(22) 22.01.2018	(11) EP3397033
HU, Shuai	(54) APPARATUS AND METHOD FOR	(21) EP18178244.2
ZHOU, Xuda	USING IMAGINED DIRECTION TO	(47) 30.08.2023
(31) 201710910124	PERFORM AT LEAST ONE ACTION	(22) 11.08.2017
201710793531	(73) NAQI LOGIX INC.	(54) ILLUMINATED USER INTERFACE
201710677922	(72) SEGAL, David, Lee	ARCHITECTURE
201710578784	(31) 201762449158 P	(73) Apple Inc.
201710541899	(32) 23.01.2017	(72) QI, Jun
(32) 29.09.2017	(33) United States of America	BRINSFIELD, Jason W.
06.09.2017	(51) G06F 3/01	DELLA ROSA, Jason C.
09.08.2017	G06F 3/0482	COUSINS, Benjamin A.
14.07.2017	G06F 3/04817	MENDEZ, Javier
05.07.2017	G02B 27/00	HUWE, Ethan L.
(33) China	G02B 27/01	STANLEY, Craig M.
China	G06T 19/00	PORTER, Simon K.
China	G06F 9/451	MCINTOSH, Sean T.
China	(11) EP3172643	STRINGER, Christopher J.
China	(21) EP15745719.3	SHEERIN, John H.
(51) G06F 3/01	(47) 30.08.2023	WANG, Erik L.
(11) EP3891584	(87) US2015041868	PARKER, Samuel G.
(21) EP19911898.5	28.01.2016	SUN, Yupin
(47) 30.08.2023	(22) 24.07.2015	LIU, Rong
(87) US2019014625	(54) GAZE-BASED OBJECT PLACEMENT	TRAINER, Glenn K.
30.07.2020	WITHIN A VIRTUAL REALITY	WU, Meiting
(22) 22.01.2019	ENVIRONMENT	ANDERSON, Molly J.
(54) MIXED REALITY PRESENTATION	(73) Microsoft Technology Licensing, LLC	(31) 201715613079
(73) Hewlett-Packard Development Company,	(72) SUGDEN, Benjamin	201715613054
L.P.	BURNS, Aaron Mackay	201715613073

201715613066	(87) EP2020070100	G09G 3/3225
201715613063	28.01.2021	G09G 3/3233
201715613060	(22) 16.07.2020	G09G 3/3266
201762507007 P	(54) METHOD FOR CONTROLLING	H10K 50/844
201662399288 P	A GRAPHIC INTERFACE FOR	H10K 59/40
201662399293 P	DISPLAYING THE LAUNCHING	H10K 77/10
201662399262 P	OF A PROJECTILE IN A VIRTUAL	H10K 102/00
201662399229 P	ENVIRONMENT	(11) EP3637235
201662399165 P	(73) Advanced Magnetic Interaction, AMI	(21) EP19212761.1
(32) 02.06.2017	(72) MANCHOUL, Ons	(47) 30.08.2023
02.06.2017	DUPRÉ LA TOUR, Jean-Marie	(22) 24.07.2017
02.06.2017	THOMAS, Simon	(54) DISPLAY DEVICE
02.06.2017	CHESNEY, Romain	(73) Samsung Display Co., Ltd.
02.06.2017	BONNEAU, Sophie	(72) Ku, Keunlim
02.06.2017	TRAVEAUX, Jean-Pierre	Lee, Jaehyun
16.05.2017	HAUTSON, Tristan	Jung, Changyong
23.09.2016	(31) 1908213	Jun, Sanghyun
23.09.2016	(32) 19.07.2019	(31) 20160097497
23.09.2016	(33) France	(32) 29.07.2016
23.09.2016	(51) G06F 3/038	(33) Korea (Republic)
23.09.2016	G06F 3/00	(51) G06F 3/042
(33) United States of America	G06F 3/0354	(11) EP3571573
United States of America	G06F 3/0346	(21) EP18701534.2
United States of America	G06F 9/44	(47) 30.08.2023
United States of America	(11) EP3814878	(87) GB2018050119
United States of America	(21) EP19840908.8	26.07.2018
United States of America	(47) 30.08.2023	(22) 17.01.2018
United States of America	(87) KR2019009172	(54) OPTICAL INPUT DEVICES
United States of America	30.01.2020	(73) UNIPHY LIMITED
United States of America	(22) 24.07.2019	(72) LOMAS, David
United States of America	(54) METHOD OF CONTROLLING	(31) 201700809
United States of America	OPERATION MODE USING	(32) 17.01.2017
United States of America	ELECTRONIC PEN AND ELECTRONIC	(33) United Kingdom
United States of America	DEVICE FOR SAME	(51) G06F 3/044
(51) G06F 3/0346	(73) Samsung Electronics Co., Ltd.	G06F 3/041
G06F 3/01	(72) LIM, Yeunwook	(11) EP2998840
(11) EP3572916	KANG, Jikwang	(21) EP15184162.4
(21) EP18207788.3	SHIN, Sangmin	(47) 30.08.2023
(47) 30.08.2023	YOON, Yeojeong	(22) 08.09.2015
(22) 22.11.2018	(31) 20180087963	(54) CAPACITIVE TOUCH SENSOR DEVICE
(54) APPARATUS, SYSTEM, AND METHOD	(32) 27.07.2018	AND CONTROLLER
FOR ACCELERATING POSITIONAL	(33) Korea (Republic)	(73) Kabushiki Kaisha Tokai Rika Denki
TRACKING OF HEAD-MOUNTED	(51) G06F 3/041	Seisakusho
DISPLAYS	G06F 3/044	(72) FUJIOKA, Yasuhiro
(73) Meta Platforms, Inc.	(11) EP3940515	MAEDA, Masaya
(72) MEITAV, Ohad	(21) EP21195532.3	YASUE, Yoshifumi
FRUCHTER, Vlad	(47) 30.08.2023	(31) 2015006645
VAKRAT, David	(22) 29.12.2016	2014209473
(31) 201815985733	(54) TOUCH SENSING METHOD, TOUCH	2014191502
PCT/US2018/036975	SENSING CIRCUIT, AND TOUCH	(32) 16.01.2015
(32) 22.05.2018	DISPLAY DEVICE	10.10.2014
11.06.2018	(73) LG Display Co., Ltd.	19.09.2014
(33) United States of America	(72) KIM, KiYong	(33) Japan
World Intellectual Property Office (WIPO)	PARK, JaeKyu	Japan
(51) G06F 3/0354	HWANG, MinWoo	Japan
G06F 3/0338	SHIN, MyungHo	(51) G06F 3/0481
G06F 3/0362	BYUN, SungUk	G06F 3/0488
G06F 3/0481	KWON, Youngho	H04M 1/725
G01R 33/00	CHOI, YongWoo	(11) EP3674867
G01V 3/08	JANG, Kyungjin	(21) EP18867253.9
A63H 27/14	(31) 20160179269	(47) 30.08.2023
A63H 33/18	20160046226	(87) CN2018109478
F41B 3/03	(32) 26.12.2016	18.04.2019
A63F 13/21	15.04.2016	(22) 09.10.2018
A63F 13/573	(33) Korea (Republic)	(54) HUMAN-COMPUTER INTERACTION
F41B 3/02	Korea (Republic)	METHOD AND ELECTRONIC DEVICE
(11) EP3999942	(51) G06F 3/041	(73) Huawei Technologies Co., Ltd.
(21) EP20740010.2	G06F 3/044	(72) ZHOU, Shanru
(47) 30.08.2023		

YANG, Zhiyan	G06F 3/0482	(73) Huawei Technologies Co., Ltd.
CHEN, Wenjie	A63F 13/537	(72) YU, Qun
QIAN, Kai	H04M 1/72427	WANG, Yuangang
HUANG, Liwei	G06F 3/04883	XU, Jun
NI, Jing	(11) EP3842905	(31) PCT/CN2016/074059
WU, Xin	(21) EP19852486.0	(32) 18.02.2016
ZHOU, Xuan	(47) 30.08.2023	(33) World Intellectual Property Office (WIPO)
(31) 201710971543	(87) CN2019096728	(51) G06F 3/12
201710931737	27.02.2020	H04N 1/00
(32) 18.10.2017	(22) 19.07.2019	(11) EP3407178
09.10.2017	(54) ICON DISPLAY METHOD AND	(21) EP18173122.5
(33) China	APPARATUS, TERMINAL AND	(47) 30.08.2023
China	STORAGE MEDIUM	(22) 18.05.2018
(51) G06F 3/0484	(73) GUANGDONG OPPO MOBILE	(54) MOBILE TERMINAL THAT
G06T 19/00	TELECOMMUNICATIONS CORP., LTD.	PERFORMS NEAR FIELD WIRELESS
A63F 13/525	(72) SONG, Fang	COMMUNICATION, CONTROL
G06F 3/0488	(31) 201810961446	METHOD FOR THE MOBILE
(11) EP3482285	(32) 22.08.2018	TERMINAL, AND STORAGE MEDIUM
(21) EP17859423.0	(33) China	(73) CANON KABUSHIKI KAISHA
(47) 30.08.2023	(51) G06F 3/04886	(72) KURIHARA, Shukei
(87) US2017052071	G06F 9/451	(31) 2017101803
19.04.2018	G06F 3/0486	(32) 23.05.2017
(22) 18.09.2017	G06F 3/0488	(33) Japan
(54) SHAKE EVENT DETECTION SYSTEM	G06F 3/0482	(51) G06F 3/12
(73) Google LLC	G06F 3/023	H04N 1/00
(72) FANG, Jingyi	G06F 9/445	H04L 67/1021
(31) 201615290021	G06F 1/16	H04L 67/51
(32) 11.10.2016	(11) EP3475813	(11) EP4170478
(33) United States of America	(21) EP17780596.7	(21) EP22213656.6
(51) G06F 3/0488	(47) 30.08.2023	(47) 30.08.2023
G06F 3/0354	(87) US2017053007	(22) 12.03.2019
G06F 3/0482	29.03.2018	(54) METHOD AND DEVICE FOR
G06F 3/0485	(22) 22.09.2017	CONTROLLING IMAGE-FORMING
G06F 3/04883	(54) DYNAMIC FUNCTION ROW	DEVICES, AND ELECTRONIC
(11) EP3441865	CUSTOMIZATION	TERMINAL USING THE METHOD
(21) EP17799680.8	(73) Apple Inc.	(73) Zhuhai Pantum Electronics Co., Ltd.
(47) 30.08.2023	(72) KELLY, Taylor A.	(72) LI, Jiade
(87) KR2017005184	TEGTMEYER, John R.	(31) 201810325658
23.11.2017	DREESSEN, Chritopher A.	(32) 12.04.2018
(22) 18.05.2017	(31) 201715711848	(33) China
(54) ELECTRONIC DEVICE FOR STORING	201662398984 P	(51) G06F 3/14
USER DATA, AND METHOD	(32) 21.09.2017	H04B 1/40
THEREFOR	23.09.2016	G09G 5/14
(73) Samsung Electronics Co., Ltd.	(33) United States of America	G06F 3/0481
(72) KIM, Hee-Woon	United States of America	G06F 3/0486
JIN, Hyung-Joo	(51) G06F 3/06	G06F 3/0488
KIM, Kyung-Hwa	(11) EP3292462	G06F 3/04886
(31) 20160060852	(21) EP16852422.1	(11) EP3779666
(32) 18.05.2016	(47) 30.08.2023	(21) EP20198408.5
(33) Korea (Republic)	(87) US2016054001	(47) 30.08.2023
(51) G06F 3/04883	06.04.2017	(22) 25.03.2010
G06F 3/038	(22) 27.09.2016	(54) METHOD OF DIVIDING SCREEN
G06F 3/01	(54) DATA RETENTION MANAGEMENT FOR	AREAS AND MOBILE TERMINAL
(11) EP2818978	DATA STORAGE DEVICE	EMPLOYING THE SAME
(21) EP14306018.4	(73) Western Digital Technologies, Inc.	(73) Samsung Electronics Co., Ltd.
(47) 30.08.2023	(72) HORN, Robert L.	(72) YANG, Hui Chul
(22) 27.06.2014	(31) 201514870562	YOO, Sung Sik
(54) SYSTEM AND METHOD FOR	(32) 30.09.2015	KANG, Young Ae
GESTURE DISAMBIGUATION	(33) United States of America	LEE, Myeong Lo
(73) ORANGE	(51) G06F 3/06	YOOK, Hyung Min
(72) Henriot, Boris	G06F 12/0868	MIN, Yong Ki
Gay, Julian	(11) EP3404527	LEE, Kang Won
Payan, Guillaume	(21) EP17752694.4	(31) 20090128711
(31) 201361840677 P	(47) 30.08.2023	163259 P
(32) 28.06.2013	(87) CN2017073920	(32) 22.12.2009
(33) United States of America	24.08.2017	25.03.2009
(51) G06F 3/04886	(22) 17.02.2017	(33) Korea (Republic)
G06F 3/04817	(54) DATA UPDATING TECHNIQUE	United States of America

(51) G06F 7/58 H03K 3/84	(72) DICKIE, Garth, Allen	(22) 21.06.2021
(11) EP3926462	(31) 201815993284	(54) SOFTWARE UPDATE DEVICE, SOFTWARE UPDATE METHOD, NON- TRANSITORY STORAGE MEDIUM, AND VEHICLE
(21) EP21753954.3	(32) 30.05.2018	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
(47) 30.08.2023	(33) United States of America	(72) FUKUYO, Satoru
(87) RU2021050010	(51) G06F 8/60	ISHIKAWA, Tomoyasu
19.08.2021	G06F 8/70	SATO, Yusuke
(22) 18.01.2021	H04L 67/12	(31) 2020114951
(54) TRUE RANDOM NUMBER GENERATOR	H04L 67/10	(32) 02.07.2020
(73) Phystech Technologies True Random AG	(11) EP3643049	(33) Japan
(72) GONCHAROV, Sergey Vladimirovich	(21) EP18746657.8	(51) G06F 8/65
(31) 2020123866	(47) 30.08.2023	G06F 9/445
(32) 17.07.2020	(87) EP2018069779	G06F 21/57
(33) Russian Federation	31.01.2019	G06F 21/60
(51) G06F 7/72	(22) 20.07.2018	G06F 21/62
(11) EP4042271	(54) EDGE DEVICES AND ASSOCIATED NETWORKS UTILISING MICROSERVICES	(11) EP3903184
(21) EP20772340.4	(73) Siemens Aktiengesellschaft	(21) EP19828797.1
(47) 30.08.2023	(72) LI, Fei	(47) 30.08.2023
(87) EP2020076550	GELBKE, Lars	(87) EP2019087108
15.04.2021	(31) 17183744	02.07.2020
(22) 23.09.2020	(32) 28.07.2017	(22) 27.12.2019
(54) METHOD FOR PERFORMING MUTUALIZED CALCULATIONS OF MULTIPLE CRYPTOGRAPHIC OPERATIONS	(33) European Patent Office (EPO)	(54) METHOD AND SYSTEM FOR COMPUTER-ASSISTED MAINTENANCE
(73) Thales Dis France SAS	(51) G06F 8/61	(73) Viaccess
(72) TEGLIA, Yannick	A63F 13/77	(72) PELAGE, Pérez
(31) 19306328	A63F 13/533	(31) 1874304
(32) 10.10.2019	A63F 13/95	(32) 28.12.2018
(33) European Patent Office (EPO)	(11) EP3663909	(33) France
(51) G06F 8/34	(21) EP18841794.3	(51) G06F 8/656
G06F 9/451	(47) 30.08.2023	(11) EP4049131
G05B 23/02	(87) JP2018027684	(21) EP20803709.3
G05B 19/00	07.02.2019	(47) 30.08.2023
G05B 23/00	(22) 24.07.2018	(87) US2020055868
G06F 8/38	(54) INFORMATION PROCESSING DEVICE AND FILE COPY METHOD	29.04.2021
G05B 19/042	(73) Sony Interactive Entertainment Inc.	(22) 16.10.2020
G05B 19/418	(72) BAMBA Syunsuke	(54) MODIFYING PROGRAM MODULES IN RUNNING APPLICATIONS
G06F 8/20	(31) 2017148127	(73) Microsoft Technology Licensing, LLC
(11) EP3798817	(32) 31.07.2017	(72) BARAC, Dragos
(21) EP20166637.7	(33) Japan	FAGHIHI REZAEI, Pedram
(47) 30.08.2023	(51) G06F 8/65	JAIN, Abhinav
(22) 30.03.2020	G01R 31/36	GOODWIN, Robert Lovejoy
(54) USER INTERFACE LOGICAL AND EXECUTION VIEW NAVIGATION AND SHIFTING	G06F 17/15	WALEC, Krystian Krzysztof
(73) Rockwell Automation Technologies, Inc.	G06F 17/18	(31) 201916662001
(72) CARRARA, Anthony	(11) EP3575960	(32) 23.10.2019
ERICSSON, Matthew R.	(21) EP17894576.2	(33) United States of America
COMO, Christopher W.	(47) 30.08.2023	(51) G06F 9/30
STUMP, Andrew R.	(87) CN2017095194	G06F 7/48
SRINIVASAN, Eashwer	02.08.2018	G06F 8/41
BILLI-DURAN, Sharon M.	(22) 31.07.2017	(11) EP3924812
(31) 201916585887	(54) SYSTEM UPGRADE ASSESSMENT METHOD BASED ON SYSTEM PARAMETER CORRELATION COEFFICIENTS	(21) EP20702272.4
(32) 27.09.2019	(73) Nio Co., Ltd.	(47) 30.08.2023
(33) United States of America	(72) DU, Tony	(87) EP2020051864
(51) G06F 8/41	WU, Yicheng	20.08.2020
G06F 16/901	JIN, Chongkui	(22) 27.01.2020
(11) EP3803570	(31) 201710062826	(54) NEGATIVE ZERO CONTROL IN INSTRUCTION EXECUTION
(21) EP19730617.8	(32) 25.01.2017	(73) International Business Machines Corporation
(47) 30.08.2023	(33) China	(72) MUELLER, Silvia
(87) US2019033573	(51) G06F 8/65	COPELAND, Reid
05.12.2019	G06F 8/656	GUO, Xin
(22) 22.05.2019	G06F 8/61	LEBER, Petra
(54) SYSTEMS AND METHODS FOR DATAFLOW GRAPH OPTIMIZATION	G06F 11/20	LICHTENAU, Cedric
(73) Ab Initio Technology LLC	(11) EP3933572	BRADBURY, Jonathan
	(21) EP21180512.2	
	(47) 30.08.2023	

(31) 201916277446	RUDNICKI, Rafal	H04M 15/00
(32) 15.02.2019	(31) 202016885003	H04W 4/24
(33) United States of America	(32) 27.05.2020	(11) EP3931691
(51) G06F 9/30	(33) United States of America	(21) EP20721284.6
G06F 9/38	(51) G06F 9/445	(47) 30.08.2023
(11) EP3935491	G06F 3/0482	(87) FR2020000050
(21) EP19809910.3	G06F 3/0485	10.09.2020
(47) 30.08.2023	G06F 3/0486	(22) 02.03.2020
(87) GB2019053330	G06F 9/451	(54) METHOD FOR DETECTING THE
17.09.2020	(11) EP3175357	COMPLETION OF A TELEPHONE CALL
(22) 26.11.2019	(21) EP15750522.3	INITIATED FROM A WEB BROWSER
(54) INSTRUCTION ORDERING	(47) 30.08.2023	OF A MOBILE COMMUNICATION
(73) The Regents of the University of	(87) US2015042341	DEVICE
Michigan	04.02.2016	(73) GNI Media
ARM Limited	(22) 28.07.2015	(72) CHEVALLIER, Nicolas
(72) GOGTE, Vaibhav	(54) APPLICATION LAUNCHER SIZING	(31) 1902142
NARAYANASAMY, Satish	(73) Microsoft Technology Licensing, LLC	(32) 01.03.2019
WANG, Wei	(72) KNAPP, Jaclyn C.	(33) France
DIESTELHORST, Stephan	VRANJES, Miron	(51) G06F 9/455
CHEN, Peter M	MACHALANI, Henri-Charles	(11) EP3985504
WENISCH, Thomas Friedrich	AKERS, Matthew N.	(21) EP20834696.5
(31) 201916296507	SINGAL, Poorva	(47) 30.08.2023
(32) 08.03.2019	ARNOLD, Jeff G.	(87) CN2020094202
(33) United States of America	SAREEN, Chaitanya Dev	07.01.2021
(51) G06F 9/30	DOAN, Christopher	(22) 03.06.2020
G06F 9/38	DUNCAN, Richard Jennings	(54) VIRTUAL MACHINE MIGRATION
G06F 13/16	UPHOFF, Brian E.	(73) Huawei Technologies Co., Ltd.
(11) EP3394761	RAWAT, Anshul	(72) HUANG, Zhichao
(21) EP15911124.4	TEDESCO, Megan L.	YANG, Hongyang
(47) 30.08.2023	(31) 201414448716	GONG, Lei
(87) CN2015098655	(32) 31.07.2014	LIU, Jinsong
29.06.2017	(33) United States of America	(31) 201910581208
(22) 24.12.2015	(51) G06F 9/445	(32) 29.06.2019
(54) CONFLICT MASK GENERATION	G06F 8/65	(33) China
(73) Intel Corporation	(11) EP3764224	(51) G06F 9/46
(72) OULD-AHMED-VALL, Elmoustapha	(21) EP18911374.9	(11) EP3198426
JIN, Jun	(47) 30.08.2023	(21) EP15779102.1
(51) G06F 9/38	(87) CN2018080712	(47) 30.08.2023
(11) EP3989063	03.10.2019	(87) US2015052471
(21) EP21195779.0	(22) 27.03.2018	31.03.2016
(47) 30.08.2023	(54) RESOURCE PERMISSION	(22) 25.09.2015
(22) 09.09.2021	PROCESSING METHOD AND	(54) SYSTEM AND METHOD FOR
(54) HIGH CONFIDENCE MULTIPLE	APPARATUS, AND STORAGE MEDIUM	TRANSACTION RECOVERY IN A
BRANCH OFFSET PREDICTOR	AND CHIP	MULTITENANT APPLICATION SERVER
(73) INTEL Corporation	(73) HUAWEI TECHNOLOGIES CO., LTD.	ENVIRONMENT
(72) SABBA, Ariel	(72) CHEN, Li	(73) Oracle International Corporation
GAUR, Jayesh	YIN, Youzhan	(72) KATO, Hiromu
XEKALAKIS, Polychronis	XIAO, Fuzhou	DESAI, Arjav
MARR, Deborah	(51) G06F 9/451	PARKINSON, Paul
BANDISHTE, Sumeet	(11) EP3639137	(31) 201462055858 P
SUBRAMONEY, Sreenivas	(21) EP17777719.0	(32) 26.09.2014
(31) 202041046222	(47) 30.08.2023	(33) United States of America
202017130661	(87) US2017051995	(51) G06F 9/50
(32) 23.10.2020	20.12.2018	(11) EP3652645
22.12.2020	(22) 18.09.2017	(21) EP18752890.6
(33) India	(54) SYSTEMS AND METHODS FOR	(47) 30.08.2023
United States of America	ADAPTIVE USER INTERFACES	(87) US2018040867
(51) G06F 9/38	(73) General Electric Company	17.01.2019
G06F 9/30	(72) ALIOTTI, Antoine	(22) 05.07.2018
G06F 8/41	ADAM, Chloe	(54) GRAPHICAL RENDERING USING
(11) EP3916544	ALMECIJA, Thomas	MULTIPLE GRAPHICS PROCESSORS
(21) EP20208434.9	(31) 201715624854	(73) Citrix Systems, Inc.
(47) 30.08.2023	(32) 16.06.2017	(72) SURESH, Ashwin
(22) 18.11.2020	(33) United States of America	(31) 201715647626
(54) ORDERING OF SHADER CODE	(51) G06F 9/451	(32) 12.07.2017
EXECUTION	H04M 1/00	(33) United States of America
(73) INTEL Corporation	H04W 4/00	(51) G06F 9/50
(72) SZYMANSKI, Przemyslaw	H04M 3/00	(11) EP3884384

(21) EP19797944.6	(72) KONO Toshiaki	ECKELMANN-WENDT, Uwe
(47) 30.08.2023	(31) 2018099289	(31) 102016215345
(87) US2019056436	(32) 24.05.2018	(32) 17.08.2016
28.05.2020	(33) Japan	(33) Germany
(22) 16.10.2019	(51) G06F 11/07	(51) G06F 11/34
(54) COMPUTER SYSTEM AND METHODS	G06F 11/34	G06F 11/07
PROVIDING VIRTUAL COMPUTING	(11) EP3690652	(11) EP4070198
SESSION CONNECTIONS AND RE-	(21) EP17928529.1	(21) EP20824108.3
DIRECTS BASED UPON ORDERED	(47) 30.08.2023	(47) 30.08.2023
LIST OF VIRTUAL DELIVERY AGENTS	(87) CN2017106174	(87) EP2020083478
(73) Citrix Systems, Inc.	18.04.2019	10.06.2021
(72) SINGLETON, IV, Leo C.	(22) 13.10.2017	(22) 26.11.2020
MOMCHILOV, Georgy	(54) FAULT PROCESSING METHOD FOR	(54) DETECTING ANOMALOUS
(31) 201816194823	TERMINAL DEVICE AND TERMINAL	LATENT COMMUNICATIONS IN AN
(32) 19.11.2018	DEVICE	INTEGRATED CIRCUIT CHIP
(33) United States of America	(73) Huawei Technologies Co., Ltd.	(73) Siemens Industry Software Inc.
(51) G06F 11/00	(72) LI, Yu	(72) HLOND, Marcin
G06F 12/0875	ZHANG, Liang	PANESAR, Gajinder
G06F 21/72	ZHAO, Chenxiao	(31) 201917654
G06F 12/084	HUANG, Huijin	(32) 03.12.2019
G06F 12/0842	(51) G06F 11/10	(33) United Kingdom
G06F 12/14	H04L 1/1867	(51) G06F 11/34
G06F 9/30	H04L 1/1829	G06F 11/36
G06F 21/12	(11) EP3896881	(11) EP4148581
G06F 21/14	(21) EP19895451.3	(21) EP21196087.7
(11) EP3387530	(47) 30.08.2023	(47) 30.08.2023
(21) EP16890105.6	(87) CN2019112553	(22) 10.09.2021
(47) 30.08.2023	18.06.2020	(54) VERIFICATION OF UPDATED
(87) US2016065156	(22) 22.10.2019	ANALYTICAL PROCEDURES IN
17.08.2017	(54) HARQ DATA STORAGE MANAGEMENT	MONITORING SYSTEMS
(22) 06.12.2016	METHOD AND DEVICE AND HARQ	(73) Axis AB
(54) SECURE COMPUTING	DATA BUFFER	(72) Kesikangas, Axel
(73) Cooke, Laurence H.	(73) Sanechips Technology Co., Ltd.	Efstathiou, Georgios
(72) Cooke, Laurence H.	(72) ZENG, Xianjun	(51) G06F 11/36
(31) 201514960932	JIANG, Yan	(11) EP3958130
(32) 07.12.2015	LIU, Xing	(21) EP21187778.2
(33) United States of America	(31) 201811504209	(47) 30.08.2023
(51) G06F 11/07	(32) 10.12.2018	(22) 26.07.2021
(11) EP3958124	(33) China	(54) INTELLIGENT SOFTWARE TESTING
(21) EP21185814.7	(51) G06F 11/14	(73) Accenture Global Solutions Limited
(47) 30.08.2023	G06F 16/16	(72) YENGALDAS, Lalitha
(22) 15.07.2021	(11) EP3627326	RANJAN JENA, Chinmaya
(54) FLIGHT MANAGEMENT SYSTEM	(21) EP17913254.3	RANGANATHAN NOCHILUR, Sunder
AND METHOD FOR REPORTING AN	(47) 30.08.2023	(31) 202016999509
INTERMITTED ERROR	(87) CN2017100854	(32) 21.08.2020
(73) GE Aviation Systems LLC	20.12.2018	(33) United States of America
(72) BROWN, Troy	(22) 07.09.2017	(51) G06F 11/36
BRACE, Terrell	(54) FILE PROCESSING METHOD AND	G06F 11/32
SANCHEZ DEL VALLE, Francisco	MOBILE TERMINAL	(11) EP3796178
LEDESMA OROZCO, Franco	(73) Huawei Technologies Co., Ltd.	(21) EP20202503.7
(31) 202016943619	(72) ZHOU, Chengfu	(47) 30.08.2023
(32) 30.07.2020	LI, Tangsuo	(22) 30.04.2019
(33) United States of America	WANG, Xinjian	(54) IMMERSIVE WEB-BASED SIMULATOR
(51) G06F 11/07	CHEN, Shaojun	FOR DIGITAL ASSISTANT-BASED
G05B 23/02	(31) 201710459557	APPLICATIONS
G06F 11/22	(32) 16.06.2017	(73) Google LLC
G01M 17/08	(33) China	(72) ZHANG, Xiongqi
G01R 31/00	(51) G06F 11/16	WEI, Xiao
G06N 5/02	(11) EP3475824	(31) 201862668237 P
(11) EP3805927	(21) EP17746438.5	(32) 07.05.2018
(21) EP19806532.8	(47) 30.08.2023	(33) United States of America
(47) 30.08.2023	(87) EP2017068635	(51) G06F 11/36
(87) JP2019018603	22.02.2018	G06F 11/34
28.11.2019	(22) 24.07.2017	G06F 11/30
(22) 09.05.2019	(54) METHOD AND APPARATUS FOR	(11) EP3797358
(54) MAINTENANCE OPERATION	REDUNDANT DATA PROCESSING	(21) EP19728788.1
ASSISTANCE SYSTEM	(73) Siemens Mobility GmbH	(47) 30.08.2023
(73) Hitachi, Ltd.	(72) GERKEN, Stefan	

<p>(87) US2019030794 28.11.2019 (22) 06.05.2019 (54) CLOUD PLATFORM EXPERIMENTATION SYSTEM (73) Microsoft Technology Licensing, LLC (72) HUGHES, Ritchie Nicholas CHINTALAPATI, Sekhar Poornananda TORRE, Charles Joseph DING, Cheng SHMOUELY, Meir (31) 201815985524 (32) 21.05.2018 (33) United States of America</p> <hr/> <p>(51) G06F 12/02 G06F 12/06 (11) EP4120087 (21) EP22172245.7 (47) 30.08.2023 (22) 09.05.2022 (54) SYSTEMS, METHODS, AND DEVICES FOR UTILIZATION AWARE MEMORY ALLOCATION (73) Samsung Electronics Co., Ltd. (72) ZHANG, Tong PARK, Heekwon KI, Yang Seok (31) 202117507775 202163221468 P (32) 21.10.2021 13.07.2021 (33) United States of America United States of America</p> <hr/> <p>(51) G06F 12/0811 G06F 12/0888 G06F 13/16 G06F 13/42 G06F 13/40 H04L 49/10 H04L 45/745 H04L 47/2425 (11) EP3704589 (21) EP18797044.7 (47) 30.08.2023 (87) GB2018053087 09.05.2019 (22) 24.10.2018 (54) I/O DRIVEN DATA ROUTING AND CACHE ALLOCATION (73) ARM Limited (72) RICO CARRO, Alejandro SHAMIS, Pavel DIESTELHORST, Stephan (31) 201815881937 201715801995 (32) 29.01.2018 02.11.2017 (33) United States of America United States of America</p> <hr/> <p>(51) G06F 12/0842 G06F 12/0895 G06F 12/1009 (11) EP3907621 (21) EP20210187.9 (47) 30.08.2023 (22) 27.11.2020</p>	<p>(54) CACHE MEMORY WITH LIMITS SPECIFIED ACCORDING TO A CLASS OF SERVICE (73) Intel Corporation (72) SHAH, Ankur ANANTARAMAN, Aravindh PATTABHIRAMAN, K. COORAY, Niranjan (31) 202041019208 202016911931 (32) 06.05.2020 25.06.2020 (33) India United States of America</p> <hr/> <p>(51) G06F 12/0862 G06F 12/06 G06F 12/02 G06F 12/0804 G06F 12/0811 G06F 12/0866 G06F 12/0875 G06F 12/0893 G06F 12/0895 G06F 12/12 G06F 12/128 G06F 9/38 G06F 9/30 G06F 7/58 G06F 9/50 G06F 15/173 G06F 16/2453 G06F 16/245 G06F 16/27 (11) EP3938894 (21) EP20718902.8 (47) 30.08.2023 (87) US2020022836 24.09.2020 (22) 14.03.2020 (54) MULTI-TILE MEMORY MANAGEMENT FOR DETECTING CROSS TILE ACCESS, PROVIDING MULTI- TILE INFERENCE SCALING, AND PROVIDING OPTIMAL PAGE MIGRATION (73) INTEL Corporation (72) KOKER, Altug PANNEER, Selvakumar MACPHERSON, Mike MAIYURAN, Subramaniam MISTRY, Nilay SHAH, Ankur STRIRAMASSARMA, Lakshminarayanan SURTI, Prasoorkumar APPU, Abhishek ANDREI, Valentin GALOPPO VON BORRIES, Nicolas GEORGE, Varghese ANANTARAMAN, Aravindh TANGRI, Saurabh OULD-AHMED-VALL, Elmoustapha RANGANATHAN, Vasanth ASHBAUGH, Ben RAY, Joydeep (31) 201962819361 P 201962819337 P 201962819435 P (32) 15.03.2019</p>	<p>15.03.2019 15.03.2019 (33) United States of America United States of America United States of America</p> <hr/> <p>(51) G06F 13/12 G06F 13/40 G06F 13/364 G06F 13/42 G06F 1/26 G06F 1/3225 G06F 1/3234 G06F 3/06 H04L 12/46 (11) EP3916570 (21) EP21178943.3 (47) 30.08.2023 (22) 10.12.2019 (54) ALTERNATE PHYSICAL LAYER POWER MODE (73) INTEL Corporation (72) Das Sharma, Debendra Dolve Geldbard, Noam Wu, Zuoguo Jen, Michelle C. Harriman, David J. (31) 201916457930 201862783550 P (32) 29.06.2019 21.12.2018 (33) United States of America United States of America</p> <hr/> <p>(51) G06F 13/16 G06F 11/10 G11C 29/24 G11C 29/00 G11C 29/44 G11C 29/42 G06F 12/16 G11C 29/02 G11C 29/52 (11) EP3783489 (21) EP20164889.6 (47) 30.08.2023 (22) 23.03.2020 (54) MEMORY CONTROLLER WITH HIGH DATA RELIABILITY, A MEMORY SYSTEM HAVING THE SAME, AND AN OPERATION METHOD OF THE MEMORY CONTROLLER (73) Samsung Electronics Co., Ltd. (72) LEE, Seungwon CHO, Youngjin LEE, Jeongho (31) 20190103985 (32) 23.08.2019 (33) Korea (Republic)</p> <hr/> <p>(51) G06F 13/16 G11C 5/06 G11C 7/02 G11C 7/04 G11C 7/10 H01L 27/06 (11) EP3901778 (21) EP20216297.0 (47) 30.08.2023 (22) 22.12.2020</p>
--	--	--

(54) STACKED MEMORY DEVICE WITH END TO END DATA BUS INVERSION	G06F 16/23	(11) EP3688726
(73) INTEL Corporation	(11) EP3079084	(21) EP18762651.0
(72) LANKA, Narasimha	(21) EP16164719.3	(47) 30.08.2023
SESHAN, LakshmiPriya	(47) 30.08.2023	(87) US2018044290
BAINS, Kuljit	(22) 11.04.2016	04.04.2019
(31) 202016854280	(54) SYSTEMS AND METHODS	(22) 30.07.2018
(32) 21.04.2020	FOR CACHING OF MANAGED	(54) COOPERATIVE AUGMENTED REALITY
(33) United States of America	CONTENT IN A DISTRIBUTED	MAP INTERFACE
<hr/>	ENVIRONMENT USING A MULTI-	(73) Apple Inc.
(51) G06F 13/36	TIERED ARCHITECTURE	(72) LINDBERG, Adrian P.
G06F 13/42	(73) OPEN TEXT SA ULC	HASAN, Syed Mohsin
H04N 23/50	(72) Pauthner, Franz	FILLHARDT, Nathan L.
H04N 23/57	Ionescu, Nicolae	(31) 201815867351
H04N 23/60	Varga, Peter	201762566184 P
(11) EP3637716	Wong, Yue Kuk	(32) 10.01.2018
(21) EP18813638.6	Trufasiu, Dan-Horia	29.09.2017
(47) 30.08.2023	Zhou, Tao	(33) United States of America
(87) JP2018020116	(31) 201662296329 P	United States of America
13.12.2018	201562146030 P	<hr/>
(22) 25.05.2018	(32) 17.02.2016	(51) G06F 16/41
(54) RECEPTION DEVICE, TRANSMISSION	10.04.2015	(11) EP3830716
DEVICE, CONTROL METHOD,	(33) United States of America	(21) EP19759088.8
PROGRAM, AND TRANSMISSION AND	United States of America	(47) 30.08.2023
RECEPTION SYSTEM	<hr/>	(87) US2019044551
(73) Sony Semiconductor Solutions	(51) G06F 16/20	06.02.2020
Corporation	G06F 16/2455	(22) 31.07.2019
(72) MIZUNO Masatoshi	(11) EP3660694	(54) STORAGE EDGE CONTROLLER
(31) 2017114382	(21) EP18209244.5	WITH A METADATA COMPUTATIONAL
(32) 09.06.2017	(47) 30.08.2023	ENGINE
(33) Japan	(22) 29.11.2018	(73) Marvell World Trade Ltd.
<hr/>	(54) A METHOD OF STRUCTURING AND	(72) OBERG, Mats
(51) G06F 13/38	QUERYING A DATABASE	JIANG, Leo
(11) EP3706007	(73) Zizo Software Limited	THERENE, Christophe
(21) EP17930303.7	(72) Longshaw, Thomas Benjamin	SHRIVASTAVA, Manish
(47) 30.08.2023	<hr/>	MIZRAHI, Noam
(87) CN20171108755	(51) G06F 16/22	KUDRYAVTSEV, Konstantin
09.05.2019	G06F 16/2458	VARNICA, Nedeljko
(22) 31.10.2017	(11) EP3620931	(31) 201916264473
(54) ELECTRONIC DEVICE HAVING USB	(21) EP19189015.1	201916264248
TYPE-C INTERFACE, CONTROL	(47) 30.08.2023	201916262971
METHOD, AND READABLE STORAGE	(22) 30.07.2019	201916262975
MEDIUM	(54) SEARCHING FOR DATA USING	201916263387
(73) Huawei Technologies Co., Ltd.	SUPERSET TREE DATA STRUCTURES	201862726847 P
(72) CONG, Le	(73) SAP SE	201862726852 P
LI, Junjie	(72) SECKMEYER, Stefan Johannes	201862716269 P
DAI, Xuan	RUPP, Martin	201862714563 P
ZHAO, Hongjun	(31) 201816124163	201862712823 P
<hr/>	(32) 06.09.2018	(32) 31.01.2019
(51) G06F 13/42	(33) United States of America	31.01.2019
(11) EP3905055	<hr/>	31.01.2019
(21) EP21163416.7	(51) G06F 16/2453	31.01.2019
(47) 30.08.2023	G06F 16/2452	31.01.2019
(22) 18.03.2021	(11) EP3559833	31.01.2019
(54) LINK STARTUP METHOD OF	(21) EP18742094.8	04.09.2018
STORAGE DEVICE, AND STORAGE	(47) 30.08.2023	04.09.2018
DEVICE, HOST AND SYSTEM	(87) CN2018072911	08.08.2018
IMPLEMENTING SAME	26.07.2018	03.08.2018
(73) Samsung Electronics Co., Ltd.	(22) 16.01.2018	31.07.2018
(72) SHIN, Myungsub	(54) BEST-EFFORTS DATABASE	(33) United States of America
SEO, Sungho	FUNCTIONS	United States of America
NAM, Dongwoo	(73) Huawei Technologies Co., Ltd.	United States of America
NOH, Kwanwoo	(72) DONG, Yu	United States of America
(31) 20200137077	ZHOU, Qingqing	United States of America
20200051055	(31) 201715408130	United States of America
(32) 21.10.2020	(32) 17.01.2017	United States of America
27.04.2020	(33) United States of America	United States of America
(33) Korea (Republic)	<hr/>	United States of America
Korea (Republic)	(51) G06F 16/29	United States of America
<hr/>	H04W 4/02	United States of America
(51) G06F 16/172	H04L 67/131	<hr/>
G06F 16/2458	G06T 15/00	(51) G06F 16/901
	G06T 19/00	(11) EP3961431

(21) EP21181635.0	(22) 19.07.2018	(51) G06F 21/30
(47) 30.08.2023	(54) ACCELERATED MATHEMATICAL ENGINE	H04B 5/00
(22) 25.06.2021	(73) Tesla, Inc.	H04L 9/32
(54) METHOD AND APPARATUS FOR GROUPING TRANSACTIONS THAT NEED TO BE SERIALY EXECUTED BASED ON A SEQUENCE OF TRANSACTIONS IN ONE BLOCK OF A BLOCKCHAIN	(72) HURD, Kevin Altair TALPES, Emil BANNON, Peter Joseph	H04L 9/40 H04W 12/06 H04W 4/80 G06Q 30/018
(73) Alipay (Hangzhou) Information Technology Co., Ltd.	(31) 201715710433 201762536399 P	(11) EP3432179 (21) EP18181466.6
(72) LIU, Xiaojian	(32) 20.09.2017 24.07.2017	(47) 30.08.2023 (22) 03.07.2018
(31) 202010889817	(33) United States of America United States of America	(54) SECURITY TAG AND ELECTRONIC SYSTEM USABLE WITH MOLDED CASE CIRCUIT BREAKERS
(32) 28.08.2020	(51) G06F 17/18 C12Q 1/6813	(73) Eaton Intelligent Power Limited
(33) China	(11) EP2180418	(72) THOMPSON, Timothy F.
(51) G06F 16/955	(21) EP09012959.4	HOSKO, Daniel A.
(11) EP3876116	(47) 30.08.2023	GAO, Zhi
(21) EP20824069.7	(22) 14.10.2009	SHVACH, Randy P.
(47) 30.08.2023	(54) Determination of melting temperatures by equation-less methods	MILLER, Theodore J.
(87) CN2020101969 15.07.2021	(73) F.Hoffmann-La Roche AG	(31) 201715652540
(22) 14.07.2020	(72) Kurnik, Ronald T.	(32) 18.07.2017
(54) METHOD AND APPARATUS FOR RUNNING MINI PROGRAM, ELECTRONIC DEVICE, AND STORAGE MEDIUM	(31) 253676 (32) 17.10.2008 (33) United States of America	(33) United States of America
(73) Baidu Online Network Technology (Beijing) Co., Ltd	(51) G06F 17/18 C12Q 1/686	(51) G06F 21/31 G06F 3/01
(72) LEI, Zhixing	(11) EP2107470	(11) EP3822830
WANG, Shuo	(21) EP08016729.9	(21) EP19834148.9
LIU, Qian	(47) 30.08.2023	(47) 30.08.2023
ZHOU, Dan	(22) 24.09.2008	(87) CN2019094475 16.01.2020
(31) 202010023053	(54) PCR elbow determination using quadratic test for curvature analysis of a double sigmoid	(22) 03.07.2019
(32) 09.01.2020	(73) F.Hoffmann-La Roche AG	(54) FEATURE PROCESSING METHOD AND DEVICE FOR MOTION TRAJECTORY, AND COMPUTER STORAGE MEDIUM
(33) China	(72) Kurnik, Roland T. Aditya, Sane	(73) China Unionpay Co., Ltd
(51) G06F 17/00 G05B 17/02 G05B 19/418	(31) 861188 (32) 25.09.2007 (33) United States of America	(72) JIANG, Danni HE, Dongjie
(11) EP3811241	(51) G06F 21/10	(31) 201810756730
(21) EP18927702.3	(11) EP3029589	(32) 11.07.2018
(47) 30.08.2023	(21) EP13890698.7	(33) China
(87) CN2018097256 30.01.2020	(47) 30.08.2023	(51) G06F 21/32 H04L 9/32
(22) 26.07.2018	(87) CN2013080695 05.02.2015	(11) EP1844567
(54) PRODUCT PERFORMANCE PREDICTION MODELING METHOD AND APPARATUS, COMPUTER DEVICE, COMPUTER-READABLE STORAGE MEDIUM, AND PRODUCT PERFORMANCE PREDICTION METHOD AND PREDICTION SYSTEM	(22) 02.08.2013	(21) EP06748170.5 (47) 30.08.2023 (87) US2006002271 31.08.2006
(73) Siemens Aktiengesellschaft	(54) DEVICE FOR PERMITTING PROGRAM, PROGRAM TRANSACTION DEVICE AND METHOD FOR PERMITTING PROGRAM THEREOF	(22) 23.01.2006 (54) PASSCODES
(72) PENG, Zhiyong	(73) Bothnic Information Co. Ltd.	(73) Biogy, Inc.
CHEN, Hu	(72) LIN, Kuan-Ju	(72) FISKE, Michael
WANG, Jing	(51) G06F 21/10	(31) 281120 140810 131652
(51) G06F 17/10 G06F 17/15 G06F 17/16 G06N 3/04 G06N 3/06 G06N 3/08 G06N 5/02 G06N 5/04	(11) EP3772697 (21) EP20187257.9 (47) 30.08.2023 (22) 22.07.2020	106930 106183 104357 104343 102407 100803 646463 P
(11) EP3659051	(54) CRYPTOGRAPHICALLY SECURE DYNAMIC THIRD PARTY RESOURCES	(32) 17.11.2005
(21) EP18839417.5	(73) Visa International Service Association	31.05.2005
(47) 30.08.2023	(72) PROKOP, Bartlomiej DONALDSON, James	17.05.2005
(87) US2018042959 31.01.2019	(31) 201916532467 (32) 05.08.2019 (33) United States of America	14.04.2005 13.04.2005 12.04.2005

11.04.2005	H04W 12/06	(54) DEVICE UPGRADE METHOD AND RELATED DEVICE
07.04.2005	H04W 12/30	(73) Huawei Technologies Co., Ltd.
06.04.2005	H04L 9/08	(72) YANG, Yanjiang
24.01.2005	H04L 9/32	WEI, Zhuo
(33) United States of America	(11) EP3295356	YASMIN, Rehana
United States of America	(21) EP16725314.5	LIU, Xutao
United States of America	(47) 30.08.2023	<hr/>
United States of America	(87) US2016031962	(51) G06F 21/51
United States of America	17.11.2016	G06N 3/04
United States of America	(22) 12.05.2016	G06T 7/00
United States of America	(54) DELEGATED AUTHENTICATION THROUGH PERIPHERAL DEVICE LINKED TO AUTHENTICATION SERVER	G06F 11/30
United States of America		G06F 21/56
United States of America		G06V 30/40
United States of America		G06N 3/045
<hr/>	(73) Citrix Systems, Inc.	(11) EP3652647
(51) G06F 21/32	(72) PAVLOU, Chris	(21) EP19800620.7
H04L 9/32	WADE, Christopher	(47) 30.08.2023
H04L 67/141	MOMCHILOV, Georgy	(87) US2019031177
H04W 12/06	NORDSTROM, Ola	14.11.2019
H04L 9/40	(31) 201615150558	(22) 07.05.2019
G06Q 20/32	201562160144 P	(54) SYSTEM AND METHOD FOR DETECTING A MALICIOUS FILE USING IMAGE ANALYSIS PRIOR TO EXECUTION OF THE FILE
G06Q 20/38	(32) 10.05.2016	(73) Endgame Systems, Inc.
G06Q 20/40	12.05.2015	(2) ANDERSON, Hyrum
(11) EP3682356	(33) United States of America	FINLAYSON, William
(21) EP18856210.2	United States of America	(31) 201815976539
(47) 30.08.2023	<hr/>	(32) 10.05.2018
(87) US2018044139	(51) G06F 21/44	(33) United States of America
21.03.2019	(11) EP3937040	<hr/>
(22) 27.07.2018	(21) EP21184627.4	(51) G06F 21/54
(54) EFFICIENT HANDS FREE INTERACTION USING BIOMETRICS	(47) 30.08.2023	G06F 21/75
(73) Visa International Service Association	(22) 08.07.2021	(11) EP4089559
(72) WAGNER, Kim	(54) SYSTEMS AND METHODS FOR SECURING LOGIN ACCESS	(21) EP22168533.2
ARORA, Sunpreet Singh	(73) Capital One Services, LLC	(47) 30.08.2023
SHEETS, John F.	(72) Goodsitt, Jeremy Edward	(22) 14.04.2022
(31) 201762562740 P	Pham, Vincent	(54) MICROPROCESSOR PROVIDED WITH AN ARITHMETIC LOGIC UNIT AND A SECURITY HARDWARE MODULE
201762559406 P	Walters, Austin	(73) Commissariat à l'énergie atomique et aux énergies alternatives
(32) 25.09.2017	Rafferty, Galen	(72) SAVRY, Olivier
15.09.2017	Farivar, Reza	LEPLUS, Gaetan
(33) United States of America	Truong, Anh	(31) 2104898
United States of America	Watson, Mark	(32) 10.05.2021
<hr/>	(31) 202016926567	(33) France
(51) G06F 21/32	(32) 10.07.2020	<hr/>
H04L 9/40	(33) United States of America	(51) G06F 21/55
G06V 40/10	<hr/>	G06F 21/53
(11) EP3933626	(51) G06F 21/44	H04L 9/40
(21) EP21305915.7	G06F 21/85	(11) EP3694170
(47) 30.08.2023	(11) EP3046043	(21) EP18877968.0
(22) 01.07.2021	(21) EP14853688.1	(47) 30.08.2023
(54) ASSESSMENT OF THE BIAS OF A BIOMETRIC IDENTIFICATION FUNCTION	(47) 30.08.2023	(87) CN2018110296
(73) Idemia Identity & Security France	(87) CN2014088833	23.05.2019
(72) KAZDAGHLI, Laurent	23.04.2015	(22) 15.10.2018
(31) 2006953	(22) 17.10.2014	(54) METHOD AND DEVICE FOR WITHSTANDING DENIAL-OF-SERVICE ATTACK
(32) 01.07.2020	(54) METHOD AND DEVICE FOR CONTROLLING DEBUG PORT OF TERMINAL DEVICE	(73) Huawei Technologies Co., Ltd.
(33) France	(73) Huawei Technologies Co., Ltd.	(72) YAO, Yingliang
<hr/>	(72) SHEN, Jinhua	XIE, Miao
(51) G06F 21/34	(31) 201310489021	(31) 201711124979
(11) EP4024242	(32) 17.10.2013	(32) 14.11.2017
(21) EP20217596.4	(33) China	(33) China
(47) 30.08.2023	<hr/>	<hr/>
(22) 29.12.2020	(51) G06F 21/51	(51) G06F 21/55
(54) READER DEVICE AND METHOD OF CONFIGURING THE SAME	G06F 21/44	G06F 21/73
(73) HID Global GmbH	G06F 21/57	G06F 21/88
(72) WELLER, Gunther	(11) EP3926500	G06F 21/86
<hr/>	(21) EP19924974.9	
(51) G06F 21/34	(47) 30.08.2023	
G06F 21/83	(87) CN2019083069	
G06F 21/41	22.10.2020	
H04L 9/40	(22) 17.04.2019	

G08B 13/08	COPLEN, Joel	(54) ARRANGEMENT FOR
G08B 13/18	SUN, Yu	TRANSFORMING PACKETS IN IP
G08B 13/189	(31) 201862756021 P	COMMUNICATION NETWORK
(11) EP3545459	201862756015 P	(73) Insta Advance Oy
(21) EP17894845.1	201862756001 P	(72) Männistö, Tatu
(47) 30.08.2023	201862670487 P	Ruohonen, Joonas
(87) US2017016021	(32) 05.11.2018	(51) G06F 21/62
09.08.2018	05.11.2018	H04L 9/00
(22) 01.02.2017	05.11.2018	(11) EP3985540
(54) INTRUSION DETECTIONS WITH	11.05.2018	(21) EP21202400.4
AMBIENT LIGHT SENSORS AND	(33) United States of America	(47) 30.08.2023
SUPER INPUT/OUTPUT CIRCUITS	United States of America	(22) 13.10.2021
(73) Hewlett-Packard Development Company,	United States of America	(54) METHOD AND APPARATUS FOR
L.P.	United States of America	GENERATING SYNTHETIC DATA
(72) SAROOR, Shaheen	(51) G06F 21/57	(73) Samsung SDS Co., Ltd.
NGUYEN, Nam H.	G06F 21/79	(72) Han, Kyoo Hyung
NGUY, Ted T.	G06F 12/14	Yoon, Hyo Jin
(51) G06F 21/57	(11) EP3757838	Cho, Ji Hoon
G06F 9/4401	(21) EP20164179.2	Kim, Young Hyun
(11) EP3646224	(47) 30.08.2023	Kim, Min Jung
(21) EP18732597.2	(22) 19.03.2020	(31) 20210082692
(47) 30.08.2023	(54) WARM BOOT ATTACK MITIGATIONS	20200132247
(87) US2018035238	FOR NON-VOLATILE MEMORY	(32) 24.06.2021
03.01.2019	MODULES	13.10.2020
(22) 31.05.2018	(73) Intel Corporation	(33) Korea (Republic)
(54) SECURE KEY STORAGE FOR MULTI-	(72) ALTMAN, Asher	Korea (Republic)
CORE PROCESSOR	DATTA, Shamanna	(51) G06F 21/62
(73) Microsoft Technology Licensing, LLC	TRIKALINO, Anna	H04L 9/40
(72) DOMKE, Felix Stefan	GROOMS, John	G06F 3/06
(31) 201715632383	LAKE, Daniel	(11) EP3161719
(32) 25.06.2017	(31) 201916457928	(21) EP15814481.6
(33) United States of America	(32) 29.06.2019	(47) 30.08.2023
(51) G06F 21/57	(33) United States of America	(87) US2015038433
G06F 21/72	(51) G06F 21/60	07.01.2016
(11) EP3161716	G06F 21/62	(22) 30.06.2015
(21) EP15812809.0	G06F 3/06	(54) SYSTEMS AND METHODS FOR
(47) 30.08.2023	H04L 9/40	JURISDICTION INDEPENDENT DATA
(87) US2015037600	(11) EP3657376	STORAGE IN A MULTI-VENDOR
30.12.2015	(21) EP18834523.5	CLOUD ENVIRONMENT
(22) 25.06.2015	(47) 30.08.2023	(73) Lewis, Paul
(54) MANAGEMENT OF AUTHENTICATED	(87) CN2018096072	(72) Lewis, Paul
VARIABLES	24.01.2019	(31) 201414251612
(73) Intel Corporation	(22) 18.07.2018	(32) 30.06.2014
(72) MUDUSURU, Giri P.	(54) HYBRID-CLOUD DATA STORAGE	(33) United States of America
ROSENBAUM, Lee G.	METHOD AND APPARATUS, RELATED	(51) G06F 21/64
ADAMS, Nicholas J.	DEVICE, AND CLOUD SYSTEM	(11) EP3961460
ZIMMER, Vincent J.	(73) Tencent Technology (Shenzhen)	(21) EP21182353.9
ROTHMAN, Michael A.	Company Limited	(47) 30.08.2023
(31) 201414317909	(72) WEI, Ailing	(22) 29.06.2021
(32) 27.06.2014	WANG, Lihu	(54) METHODS, BLOCKCHAIN NODES AND
(33) United States of America	GONG, Youlan	STORAGE MEDIA FOR DEPLOYING
(51) G06F 21/57	QU, Yupeng	SMART CONTRACT
G06F 21/76	SUN, Bin	(73) Alipay (Hangzhou) Information
G06F 11/36	CAI, Shu	Technology Co., Ltd.
(11) EP3791306	LI, Jie	(72) LIU, Qi
(21) EP19799989.9	WU, Xianbin	(31) 202010899200
(47) 30.08.2023	WANG, Jian	(32) 31.08.2020
(87) US2019031883	(31) 201710591062	(33) China
14.11.2019	(32) 19.07.2017	(51) G06F 21/64
(22) 10.05.2019	(33) China	G06F 11/10
(54) ASSET MANAGEMENT SYSTEMS AND	(51) G06F 21/60	G06F 21/51
METHODS FOR PROGRAMMABLE	H04L 9/40	G06F 9/455
LOGIC DEVICES	(11) EP4030722	(11) EP3588359
(73) Lattice Semiconductor Corporation	(21) EP21151512.7	(21) EP19180688.4
(72) HAN, Wei	(47) 30.08.2023	(47) 30.08.2023
HEGADE, Sreepada	(22) 14.01.2021	(22) 17.06.2019
CHANDRA, Srirama (Shyam)		(54) METHOD FOR DETERMINING THE
ZHANG, Fulong		INTEGRITY OF AN APPLICATION

CODE, CORRESPONDING DEVICE AND COMPUTER PROGRAM PRODUCT	(87) US2019069028 23.07.2020	CRISP, Michael (31) 201819591
(73) Banks and Acquirers International Holding	(22) 31.12.2019	(32) 30.11.2018
(72) ROLIN, Christian BERNELAS, Maxime	(54) GENERATING A SYNCHRONOUS DIGITAL CIRCUIT FROM A SOURCE CODE CONSTRUCT DEFINING A FUNCTION CALL	(33) United Kingdom
(31) 1856056	(73) Microsoft Technology Licensing, LLC	(51) G06K 7/10
(32) 29.06.2018	(72) CAULFIELD, Adrian, Michael	(11) EP3467699
(33) France	PELTON, Blake, D.	(21) EP18198548.2
(51) G06F 30/17 B29C 64/386 B33Y 50/00 G05B 19/4093 G06F 111/06 G06F 119/18	(31) 201916247181 (32) 14.01.2019 (33) United States of America	(47) 30.08.2023 (22) 04.10.2018 (54) SYSTEM OF RFID READER UNITS TRANSMITTING SYNCHRONIZED MODULATION USING ASYNCHRONOUS CARRIER WAVES
(11) EP3511846	(51) G06F 111/08	(73) Nedap N.V.
(21) EP18212126.9	G06F 119/04	(72) van Lakwijk, Reinbrand GerhardJaakob Frans Ottokar Johanan
(47) 30.08.2023	G06F 119/08	Essink, Berend Hendrik
(22) 12.12.2018	G06F 30/20	van Megen, Maarten Jacobus Johannes Compaijen, Paul Jasper
(54) SYSTEM AND METHOD FOR CONSTRUCTING PROCESS PLANS FOR HYBRID MANUFACTURING WITH THE AID OF A DIGITAL COMPUTER	G06F 30/367	(31) 2019672
(73) Palo Alto Research Center Incorporated	(11) EP3380961	(32) 05.10.2017
(72) NELATURI, Saigopal DE KLEER, Johan BEHANDISH, Morad	(21) EP16794824.9 (47) 30.08.2023 (87) US2016058825 01.06.2017	(33) Netherlands
(31) 201715858677	(22) 26.10.2016	(51) G06K 7/10
(32) 29.12.2017	(54) METHOD AND SYSTEM FOR DETERMINING CIRCUIT FAILURE RATE	(11) EP3679512
(33) United States of America	(73) Oracle International Corporation	(21) EP18759746.3
(51) G06F 30/20	(72) SARASWAT, Govind AU, Wai, Chung William STANLEY, Douglas TRIVEDI, Anuj	(47) 30.08.2023 (87) IB2018055699 14.03.2019
(11) EP3113052	(31) 201514951181	(22) 31.07.2018
(21) EP16172872.0	(32) 24.11.2015	(54) ELECTRONIC READER
(47) 30.08.2023	(33) United States of America	(73) Sato Holdings Kabushiki Kaisha
(22) 03.06.2016	(51) G06K 7/00 G06K 7/10	(72) GREEN, Daron
(54) VORTEX IDENTIFICATION METHOD	(11) EP3567513	(31) 2017903617
(73) Rolls-Royce plc	(21) EP19160714.2	(32) 07.09.2017
(72) Lee, Kee Khoon Ke, Yiping Wong, Jian Cheng Goh, Chi Keong	(47) 30.08.2023 (22) 05.03.2019 (54) OPTICAL INFORMATION READING APPARATUS AND OPTICAL INFORMATION READING METHOD	(33) Australia
(31) 201511342	(73) OPTOELECTRONICS CO., LTD.	(51) G06K 7/10
(32) 29.06.2015	(72) ITAMOTO, Shuhei HIRONO, Mitsuaki	(11) EP3836002
(33) United Kingdom	(31) 2018092388 (32) 11.05.2018 (33) Japan	(21) EP21150322.2
(51) G06F 30/23 B33Y 50/00 B29C 64/40	(51) G06K 7/00 G06K 7/10 H04B 5/00 H04B 7/0408 H04K 3/00	(47) 30.08.2023 (22) 23.02.2015 (54) INDICIA READER FOR SIZE-LIMITED APPLICATIONS
(11) EP3821316	(11) EP3887998	(73) Hand Held Products, Inc.
(21) EP19749483.4	(21) EP19816432.9	(72) BREMER, Edward C. KEARNEY, Sean Philip PATEL, Mehul FENG, Chen XIAN, Tao
(47) 30.08.2023	(47) 30.08.2023	(31) 201414200405
(87) US2019040628 16.01.2020	(87) GB2019053387 04.06.2020	(32) 07.03.2014
(22) 03.07.2019	(22) 29.11.2019	(33) United States of America
(54) SYSTEMS AND METHODS FOR REDUCING RIGID BODY MOTION IN SIMULATED MODELS	(54) SYSTEMS AND METHODS FOR READING RFID TAGS	(51) G06K 19/067 G06K 7/08
(73) Materialise NV	(73) Pervasid Limited	(11) EP3876153
(72) SOVANI, Yogesh	(72) WHITE, Ian NEUHAUS, Martin PENTY, Richard Vincent SITHAMPARANATHAN, Sabesan	(21) EP19878052.0
(31) 201862696237 P		(47) 30.08.2023
(32) 10.07.2018		(87) JP2019042609 07.05.2020
(33) United States of America		(22) 30.10.2019
(51) G06F 30/327 G06F 30/337 G06F 30/34		(54) DETECTING SYSTEM, AND READER
(11) EP3912074		(73) KONICA MINOLTA, INC.
(21) EP19848854.6		(72) ISHIWATA, Takumi TAKAHASHI, Nobuaki HIRAOKA, Saburo
(47) 30.08.2023		(31) 2018207687

(51) G06K 19/077	MIXTER, John E.	(33) United States of America
(11) EP3968230	(31) 201715711457	(51) G06N 10/00
(21) EP21194317.0	(32) 21.09.2017	G06N 99/00
(47) 30.08.2023	(33) United States of America	H03H 17/02
(22) 01.09.2021	(51) G06N 3/065	G06N 7/00
(54) SMART IC SUBSTRATE, SMART IC	G06N 3/044	G06N 10/20
MODULE, AND IC CARD INCLUDING	(11) EP3963512	G06N 10/60
THE SAME	(21) EP19817090.4	G06N 7/01
(73) LG Innotek Co., Ltd.	(47) 30.08.2023	(11) EP3827381
(72) KIM, Seung Joon	(87) US2019061900	(21) EP19841040.9
CHO, Yong Hyun	05.11.2020	(47) 30.08.2023
LIM, Jun Young	(22) 17.11.2019	(87) AU2019050651
(31) 20200114507	(54) DECODING SYSTEM AND PHYSICAL	30.01.2020
(32) 08.09.2020	LAYOUT FOR ANALOG NEURAL	(22) 24.06.2019
(33) Korea (Republic)	MEMORY IN DEEP LEARNING	(54) MULTI-QUBIT CONTROL
(51) G06N 3/045	ARTIFICIAL NEURAL NETWORK	(73) Q-Ctrl Pty Ltd
G06N 3/08	(73) Silicon Storage Technology, Inc.	(72) BALL, Harrison
G06F 11/36	(72) PHAM, Hien	BIERCUK, Michael
G06F 11/32	TRAN, Han	HUSH, Michael Robert
G06F 11/07	NGUYEN, Kha	(31) 2018247327
(11) EP4078374	HONG, Stanley	2018902650
(21) EP19824310.7	TRINH, Stephen	(32) 12.10.2018
(47) 30.08.2023	VU, Thuan	23.07.2018
(87) EP2019085962	LY, Anh	(33) Australia
24.06.2021	TRAN, Hieu Van	Australia
(22) 18.12.2019	(31) 201916503355	(51) G06N 10/00
(54) A COMPUTER SOFTWARE	201962840318 P	H03K 19/195
MODULE ARRANGEMENT, A	(32) 03.07.2019	(11) EP3822871
CIRCUITRY ARRANGEMENT, AN	29.04.2019	(21) EP20210489.9
ARRANGEMENT AND A METHOD FOR	(33) United States of America	(47) 30.08.2023
IMPROVED SOFTWARE EXECUTION	United States of America	(22) 29.07.2016
MONITORING	(51) G06N 3/08	(54) QUANTUM INFORMATION
(73) Telefonaktiebolaget LM Ericsson (publ)	C12M 1/36	PROCESSING SYSTEM
(72) TEMPLING, Magnus	(11) EP4039791	(73) Oxford University Innovation Limited
MILLNERT, Victor	(21) EP21217070.8	(72) LEEK, Peter
ÅBERG, Patrik	(47) 30.08.2023	(31) 201513774
(51) G06N 3/0455	(22) 22.12.2021	(32) 04.08.2015
G06N 3/0895	(54) DEVICE FOR CONTROLLING A	(33) United Kingdom
G06N 3/088	PROCESS AND CORRESPONDING	(51) G06N 10/80
G06V 10/764	CONTROL METHOD	G06F 9/30
G06V 10/82	(73) Biothera Institut GmbH	G06N 10/40
G06N 20/10	(72) Mertelsmann, Roland	G06F 9/38
(11) EP3477553	Raith, Dennis	(11) EP4095766
(21) EP17198775.3	Bödecker, Joschka	(21) EP21835925.5
(47) 30.08.2023	Bermeitinger, Jonas	(47) 30.08.2023
(22) 27.10.2017	(31) 102021100531	(87) CN2021117616
(54) METHOD FOR DETECTING AN	(32) 13.01.2021	20.10.2022
ANOMALOUS IMAGE AMONG A FIRST	(33) Germany	(22) 10.09.2021
DATASET OF IMAGES USING AN	(51) G06N 3/092	(54) QUANTUM CONTROL SYSTEM,
ADVERSARIAL AUTOENCODER	G06N 7/00	QUANTUM CONTROL PROCESSOR,
(73) Robert Bosch GmbH	(11) EP3924884	AND EXECUTION METHOD FOR
(72) Beggel, Laura	(21) EP20838656.5	QUANTUM INSTRUCTION SET
Pfeiffer, Michael	(47) 30.08.2023	(73) Tencent Technology (Shenzhen)
(51) G06N 3/063	(87) JP2020046194	Company Limited
G06N 3/08	17.06.2021	(72) ZHANG, Mengyu
G06F 12/1081	(22) 04.12.2020	ZHANG, Shengyu
(11) EP3685319	(54) SYSTEM AND METHOD FOR	ZHENG, Yicong
(21) EP18783218.3	ROBUST OPTIMIZATION FOR	XIE, Lei
(47) 30.08.2023	TRAJECTORY-CENTRIC MODEL-	(31) 202110393763
(87) US2018051486	BASED REINFORCEMENT LEARNING	(32) 13.04.2021
28.03.2019	(73) Mitsubishi Electric Corporation	(33) China
(22) 18.09.2018	(72) KOLARIC, Patrik	(51) G06Q 10/00
(54) DIRECT ACCESS, HARDWARE	RAGHUNATHAN, Arvind	(11) EP3513359
ACCELERATION IN NEURAL	ROMERES, Diego	(21) EP17777133.4
NETWORK	BENOSMAN, Mouhacine	(47) 30.08.2023
(73) Raytheon Company	JHA, Devesh	(87) US2017051732
(72) GOULDING, John R.	(31) 201916712329	22.03.2018
MUCHA, David R.	(32) 12.12.2019	(22) 15.09.2017

(54) SYSTEM AND METHOD FOR AUTONOMOUS SERVICE OPERATION VALIDATION	(11) EP3629268 (21) EP19199442.5 (47) 30.08.2023	(32) 23.05.2017 (33) United States of America
(73) General Electric Company	(22) 25.09.2019	(51) G06Q 30/00 H04L 9/32
(72) BALOCH, Ghulam, Ali	(54) INVENTORY TRACKING TAGS, SYSTEM AND METHOD FOR PROLONGING BATTERY LIFE	(11) EP3809353 (21) EP20202652.2 (47) 30.08.2023
(31) 201615268205	(73) Maliki Innovations Limited	(22) 19.10.2020
(32) 16.09.2016	(72) AYOUB, Sameh	(54) SYSTEMS AND METHODS FOR PROVIDING PROVENANCE AND ANTI-COUNTERFEITING OF A PART USING BLOCKCHAIN TECHNOLOGY
(33) United States of America	(31) 201816143606 (32) 27.09.2018 (33) United States of America	(73) Honeywell International Inc. (72) RAO, Sujaya KAR, Satyanarayan BUTTERS, Lisa Estipona
(51) G06Q 10/00 G06Q 50/00	(31) 201816143606 (32) 27.09.2018 (33) United States of America	(31) 202017071428 201962923435 P
(11) EP2335195 (21) EP09783613.4 (47) 30.08.2023	(51) G06Q 20/20 G07G 1/00	(32) 15.10.2020 18.10.2019
(87) EP2009062712 08.04.2010	(11) EP3746967 (21) EP19710026.6 (47) 30.08.2023	(33) United States of America United States of America
(22) 30.09.2009	(87) FR2019050213 08.08.2019	(51) G06Q 40/02 G07D 9/00 G06Q 20/10 G06Q 20/18 G06Q 20/20 G06Q 20/32 G06Q 20/40 G07D 11/60 G07F 19/00
(54) ELECTRONIC BUSINESS POSTAL SYSTEM	(22) 30.01.2019	(11) EP3480773 (21) EP17820323.8 (47) 30.08.2023
(73) Escher Group (IRL) Limited	(54) METHODS AND SYSTEMS OF PURCHASING ASSISTANCE AT A PHYSICAL POINT OF SALE	(87) JP2017024122 04.01.2018
(72) HIGGINS, Fionnuala FLEMING David James CHURCH, Liam	(73) Mo-ka (72) AFRAITE-SEUGNET, Mehdi (31) 1850812 (32) 31.01.2018 (33) France	(22) 30.06.2017
(31) 569465 101200 P	(33) United States of America	(54) CASH PROCESSING SYSTEM, CASH PROCESSING METHOD, PORTABLE TERMINAL AND CASH PROCESSING MACHINE
(32) 29.09.2009 30.09.2008	(51) G06Q 20/38 (11) EP3446275 (21) EP17720560.6 (47) 30.08.2023	(73) Glory Ltd. (72) NAGAI, Yuki WAKABAYASHI, Nobumichi OKA, Naoki
(33) United States of America United States of America	(87) GB2017051069 26.10.2017	(31) 2016130500 (32) 30.06.2016 (33) Japan
(51) G06Q 10/04 B28C 7/04	(22) 18.04.2017	(51) G06Q 50/34 A63F 13/65 A63F 13/828 H04N 21/234 A63F 13/52 H04N 21/81 G07F 17/32
(11) EP3924906 (21) EP20709991.2 (47) 30.08.2023	(54) SYSTEM AND METHOD FOR MANAGING TRANSACTIONS IN DYNAMIC DIGITAL DOCUMENTS	(11) EP3574466 (21) EP18746741.0 (47) 30.08.2023
(87) US2020017616 20.08.2020	(73) R3, Ltd. (72) BROWN, Richard Gendal HEARN, Michael Christopher CARLYLE, James William George	(87) IB2018000643 10.10.2019
(22) 11.02.2020	(31) 201615243902 201615243473 201615243402 201662323952 P	(22) 31.05.2018
(54) SYSTEMS AND METHODS FOR FORMULATING OR EVALUATING A CONSTRUCTION COMPOSITION	(32) 22.08.2016 22.08.2016 18.04.2016	(54) VIRTUAL GAMING SYSTEM BASED ON PREVIOUS SKILLS-BASED EVENTS
(73) Construction Research & Technology GmbH	(33) United States of America United States of America United States of America United States of America	(73) Highlight Games Limited (72) WOOD, Angus GREEN, Timothy, Patrick Jonathan WHITTLE, Stewart, James LATTER, Chris
(72) DACZKO, Joseph HENSON, David C. KAYELLO, Hamed BURY, Jeffrey SCHLAGBAUM, Tony SEILER, Paul Horst	(51) G06Q 30/00 G06Q 20/06 (11) EP3631736 (21) EP18805383.9 (47) 30.08.2023	
(31) 201962803855 P	(87) US2018033938 29.11.2018	
(32) 11.02.2019	(22) 22.05.2018	
(33) United States of America	(54) DISTRIBUTED LEDGER FOR PHYSICAL MATERIAL	
(51) G06Q 10/08 (11) EP3528188 (21) EP19157679.2 (47) 30.08.2023	(73) Materialytics, LLC (72) MCMANUS, Catherine E. DOWE, James W., III	
(22) 18.02.2019	(31) 201762510078 P	
(54) DEVICE FOR HOLDING A PLURALITY OF CONTAINERS, SYSTEM FOR STORING SECURITY DOCUMENTS AND METHOD FOR DISPENSING SECURITY DOCUMENTS		
(73) Bundesdruckerei GmbH		
(72) König, Marcus Richter, Herbert		
(31) 102018103647 (32) 19.02.2018 (33) Germany		
(51) G06Q 10/0833 H04W 4/029		

(31) 201815946592	(33) United States of America	27.10.2016
(32) 05.04.2018	(51) G06T 5/00	(22) 19.04.2016
(33) United States of America	G06V 10/30	(54) MODEL-BASED SEGMENTATION OF
(51) G06T 1/00	G06V 10/34	AN ANATOMICAL STRUCTURE
(11) EP3756130	G06V 10/82	(73) Koninklijke Philips N.V.
(21) EP19709286.9	G06V 40/16	(72) NOLAN, Julian Charles
(47) 30.08.2023	(11) EP3813010	LAWRENSON, Matthew John
(87) US2019018844	(21) EP20166227.7	WEESE, Juergen
29.08.2019	(47) 30.08.2023	(31) 15164754
(22) 20.02.2019	(22) 27.03.2020	(32) 23.04.2015
(54) IMAGE HIDDEN INFORMATION	(54) FACIAL IMAGE ENHANCEMENT	(33) European Patent Office (EPO)
DETECTOR	METHOD, DEVICE AND ELECTRONIC	(51) G06T 7/13
(73) McAfee, LLC	DEVICE	G06T 7/181
(72) MATHEWS, Sherin M.	(73) Beijing Xiaomi Intelligent Technology Co.,	G06V 20/56
LANCIONI, German	Ltd.	(11) EP3620964
(31) 201815902842	(72) ZHANG, Liang	(21) EP19187440.3
(32) 22.02.2018	(31) 201911019722	(47) 30.08.2023
(33) United States of America	(32) 24.10.2019	(22) 19.07.2019
(51) G06T 1/20	(33) China	(54) LANE LINE PROCESSING METHOD
G06F 8/41	(51) G06T 7/00	AND DEVICE
G06F 9/30	A61B 5/1172	(73) Apollo Intelligent Driving Technology
G06F 9/38	A61B 5/00	(Beijing) Co., Ltd.
(11) EP3743806	(11) EP3534329	(72) XIA, Tian
(21) EP19710205.6	(21) EP17865753.2	MA, Yu
(47) 30.08.2023	(47) 30.08.2023	XIE, Shufu
(87) US2019019020	(87) JP2017038594	ZHAI, Yuqiang
06.09.2019	03.05.2018	(31) 201811025492
(22) 21.02.2019	(22) 25.10.2017	(32) 04.09.2018
(54) LARGE LOOKUP TABLES FOR AN	(54) STRIPE PATTERN IMAGE	(33) China
IMAGE PROCESSOR	EXAMINATION SUPPORT	(51) G06T 7/55
(73) Google LLC	DEVICE, STRIPE PATTERN IMAGE	G06T 7/73
(72) DE WEESE, Dustin Michael	EXAMINATION SUPPORT METHOD,	G06T 7/246
MEIXNER, Albert	AND PROGRAM	(11) EP3786890
(31) 201862636055 P	(73) NEC Corporation	(21) EP19793739.4
(32) 27.02.2018	(72) HARA, Masanori	(47) 30.08.2023
(33) United States of America	(31) 2016209502	(87) CN2019079347
(51) G06T 5/00	(32) 26.10.2016	31.10.2019
G06T 11/00	(33) Japan	(22) 22.03.2019
G06T 7/11	(51) G06T 7/00	(54) METHOD AND APPARATUS FOR
G06T 7/174	G06T 7/20	DETERMINING POSE OF IMAGE
(11) EP3210187	A61B 5/0205	CAPTURE DEVICE, AND STORAGE
(21) EP15788486.7	A61B 5/11	MEDIUM THEREFOR
(47) 30.08.2023	A61B 5/00	(73) Tencent Technology (Shenzhen)
(87) IB2015058063	G08B 21/04	Company Limited
28.04.2016	G06V 20/52	(72) BAO, Linchao
(22) 20.10.2015	A61B 5/024	LIN, Xiangkai
(54) CLASSIFIED TRUNCATION	A61B 5/08	QIAO, Liang
COMPENSATION	(11) EP3678094	ZHU, Fengming
(73) Koninklijke Philips N.V.	(21) EP19220091.3	LING, Yonggen
(72) DWIVEDI, Shekhar	(47) 30.08.2023	(31) 201810393076
(31) 201462065903 P	(22) 30.12.2019	(32) 27.04.2018
(32) 20.10.2014	(54) METHOD AND APPARATUS FOR	(33) China
(33) United States of America	MONITORING OF A HUMAN OR	(51) G06T 7/62
(51) G06T 5/00	ANIMAL SUBJECT	G06T 7/73
G06T 15/20	(73) Oxehealth Limited	H04N 13/00
(11) EP3703003	(72) JONES, Simon Mark Chave	(11) EP3651457
(21) EP20159487.6	HUTCHINSON, Nicholas Dunkley	(21) EP18788993.6
(47) 30.08.2023	(31) 201900033	(47) 30.08.2023
(22) 26.02.2020	(32) 02.01.2019	(87) CN2018074980
(54) HOLE FILLING FOR DEPTH IMAGE	(33) United Kingdom	10.01.2019
BASED RENDERING	(51) G06T 7/12	(22) 01.02.2018
(73) Dolby Laboratories Licensing Corporation	G06T 7/149	(54) PUPILLARY DISTANCE
(72) NINAN, Ajit	G06V 10/75	MEASUREMENT METHOD,
LAKSHMAN, Haricharan	G06V 10/778	WEARABLE EYE EQUIPMENT AND
JIA, Wenhui	(11) EP3286728	STORAGE MEDIUM
(31) 201962811956 P	(21) EP16718301.1	(73) Beijing BOE Optoelectronics Technology
(32) 28.02.2019	(47) 30.08.2023	Co., Ltd.
	(87) EP2016058595	BOE Technology Group Co., Ltd.

(72) YAN, Guixin MA, Zhanshan TIAN, Wenhong ZHANG, Hao WANG, Yakun GUO, Ziqiang SUN, Jiankang CHU, Minglei CHEN, Lili	G06T 15/06 G06T 15/30 (11) EP3410403 (21) EP18170874.4 (47) 30.08.2023 (22) 04.05.2018 (54) IN-CONTEXT PHOTOREALISTIC 3D VISUALIZATION FOR SURGICAL DECISION SUPPORT	RIEHL, Philipp KRENZER, Daniel (31) 102017119983 (32) 31.08.2017 (33) Germany
(31) 201710551489 (32) 07.07.2017 (33) China	(73) Siemens Healthcare GmbH (72) Yu, Daphne Petkov, Kaloian Engel, Klaus Soenius, Ruth J. Assmann, Stefan	(51) G06V 10/147 G06V 10/20 G06V 40/19 H04N 23/611 B60W 50/14 B60K 35/00 B60W 40/08 G08G 1/04 G06T 7/20 G08G 1/16 G06V 20/59 A61B 3/113
(51) G06T 7/80 (11) EP4133452 (21) EP22740307.8 (47) 30.08.2023 (87) EP2022067162 15.12.2022	(31) 201715610804 (32) 01.06.2017 (33) United States of America	(11) EP3438948 (21) EP17795766.9 (47) 30.08.2023 (87) JP2017003315 16.11.2017 (22) 31.01.2017
(22) 23.06.2022 (54) METHOD FOR CALIBRATING A VEHICLE CABIN CAMERA (73) FotoNation Limited (72) STEC, Piotr BIGIOI, Petronel	(51) G06T 19/00 (11) EP3876206 (21) EP21151661.2 (47) 30.08.2023 (22) 14.01.2021 (54) FLOORPLAN GENERATION BASED ON ROOM SCANNING	(21) EP17795766.9 (47) 30.08.2023 (87) JP2017003315 16.11.2017 (22) 31.01.2017 (54) IMAGE PROCESSING APPARATUS, IMAGE PROCESSING METHOD, AND MOBILE BODY
(31) 202117398965 (32) 10.08.2021 (33) United States of America	(73) Apple Inc. (72) ZHAO, Guangyu YANG, Yang DEGHAN, Afshin LIAO, Yikang TANG, Feng KANG, Kai	(73) Sony Group Corporation (72) OBA, Eiji (31) 2016095674 (32) 11.05.2016 (33) Japan
(51) G06T 7/90 G06T 5/50 G06T 5/00 (11) EP3168809 (21) EP16198561.9 (47) 30.08.2023 (22) 31.07.2013 (54) IMAGE PROCESSING FOR HDR IMAGES (73) Dolby Laboratories Licensing Corporation	(31) 202117146582 202062962485 P (32) 12.01.2021 17.01.2020 (33) United States of America United States of America	(31) 2016095674 (32) 11.05.2016 (33) Japan
(72) TONG, Huiming SHAH, Ankur JIA, Wenhui TEN, Arkadi NINAN, Ajit WANG, Gaven YANG, Qiaoli	(33) United States of America (51) G06T 19/00 G06T 7/13 G06F 3/01 (11) EP3752986 (21) EP18921047.9 (47) 30.08.2023 (87) US2018035585 05.12.2019 (22) 01.06.2018 (54) BOUNDARY MAPS FOR VIRTUAL REALITY SYSTEMS	(31) 2016095674 (32) 11.05.2016 (33) Japan
(31) 201261681061 P (32) 08.08.2012 (33) United States of America	(73) Hewlett-Packard Development Company, L.P. (72) NUBER, Nathan Barr	(51) G06V 10/24 G06V 20/52 A63G 31/00 (11) EP3146472 (21) EP15730317.3 (47) 30.08.2023 (87) US2015032001 26.11.2015 (22) 21.05.2015 (54) OPTICAL TRACKING SYSTEM FOR AUTOMATION OF AMUSEMENT PARK ELEMENTS
(51) G06T 9/00 H04N 19/46 H04N 19/126 H04N 19/90 H04N 19/154 (11) EP2943936 (21) EP13871258.3 (47) 30.08.2023 (87) CN2013077404 17.07.2014 (22) 18.06.2013 (54) METHOD AND APPARATUS FOR VERTEX ERROR CORRECTION (73) InterDigital VC Holdings, Inc. (72) TIAN, Jiang JIANG, Wenfei CAI, Kangying	(33) United States of America (51) G06T 19/00 G06T 7/13 G06F 3/01 (11) EP3752986 (21) EP18921047.9 (47) 30.08.2023 (87) US2018035585 05.12.2019 (22) 01.06.2018 (54) BOUNDARY MAPS FOR VIRTUAL REALITY SYSTEMS	(73) Universal City Studios LLC (72) OKESON, Bradley D. BLUM, Steven C. CORTELYOU, Robert J. STENZLER, Paula SCHWARTZ, Justin M. OLIVER, Christopher MCQUILLIAN, Brian B.
(31) PCT/CN2013/070310 (32) 10.01.2013 (33) World Intellectual Property Office (WIPO)	(73) Jenetric GmbH (72) REINHOLD, Jörg RICHTER, Undine HILLMANN, Jürgen MORGENEIER, Dirk	(31) 201514717989 201462001551 P (32) 20.05.2015 21.05.2014 (33) United States of America United States of America
(51) G06T 15/08		(51) G06V 10/46 G06V 40/10 (11) EP3090382 (21) EP14828371.6 (47) 30.08.2023 (87) SE2014051562 09.07.2015 (22) 22.12.2014 (54) REAL-TIME 3D GESTURE RECOGNITION AND TRACKING SYSTEM FOR MOBILE DEVICES

(73) ManoMotion AB	G06V 40/20	(47) 30.08.2023
(72) Abedan Kondori, Farid Li, Haibo	(11) EP3051463	(22) 24.12.2018
Yousefi, Shahrouz	(21) EP16152409.5	(54) METHOD AND APPARATUS FOR DETERMINING LANE LINE ON ROAD
(31) 201461923687 P	(47) 30.08.2023	(73) Apollo Intelligent Driving Technology (Beijing) Co., Ltd.
(32) 05.01.2014	(22) 22.01.2016	(72) ZHOU, Wang
(33) United States of America	(54) IMAGE PROCESSING METHOD AND ELECTRONIC DEVICE FOR SUPPORTING THE SAME	MA, Changjie
(51) G06V 10/82	(73) Samsung Electronics Co., Ltd.	DUAN, Xiong
G06V 10/764	(72) MIN, Kyung Sub	LANG, Xianpeng
G06V 10/44	MIN, Jung Ki	JIN, Yonggang
G06N 3/084	JEONG, Seong Ook	ZHAN, Yifei
G06N 3/045	KIM, Sang Mi	YAN, Miao
G06V 20/56	GU, Heum Mo	(31) 201711475639
G06T 7/11	HAN, Seung Wok	(32) 29.12.2017
(11) EP3686774	KIM, Tae Kyung	(33) China
(21) EP19206180.2	KIM, Geun Woo	(51) G06V 20/56
(47) 30.08.2023	CHO, Ik Hwan	G06T 7/277
(22) 30.10.2019	(31) 20150012655	(11) EP3084681
(54) LEARNING METHOD AND LEARNING DEVICE FOR IMPROVING SEGMENTATION PERFORMANCE IN ROAD OBSTACLE DETECTION REQUIRED TO SATISFY LEVEL 4 AND LEVEL 5 OF AUTONOMOUS VEHICLES USING LAPLACIAN PYRAMID NETWORK AND TESTING METHOD AND TESTING DEVICE USING THE SAME	(32) 27.01.2015	(21) EP15712632.7
	(33) Korea (Republic)	(47) 30.08.2023
	(51) G06V 20/52	(87) EP2015056717
	G05D 1/02	08.10.2015
	(11) EP4012531	(22) 27.03.2015
	(21) EP21172210.3	(54) METHOD FOR LANE RECOGNITION
	(47) 30.08.2023	(73) Aptiv Technologies Limited
	(22) 05.05.2021	(72) SZUMILAS, Lech
	(54) AUTONOMOUS SYSTEM FOR 3D MAPPING OF A DATACENTER	MÜLLER, Dennis
(73) Stradvision, Inc.	(73) Google LLC	MEUTER, Mirko
(72) KIM, Hak-Kyoung	(72) REICHENBACH, Joseph	ZHAO, Kun
JEONG, Kyungjoong	BRADLEY, Seth Jordan	NUNN, Christian
KIM, Insu	RAVI, Nivedita	(31) 14163567
SUNG, Myungchul	COOMES, Christopher James	(32) 04.04.2014
KIM, Yongjoong	(31) 202017120949	(33) European Patent Office (EPO)
RYU, Wooju	(32) 14.12.2020	(51) G06V 20/56
JANG, Taewoong	(33) United States of America	G06V 20/58
CHO, Hojin	(51) G06V 20/56	(11) EP3293668
YEO, Donghun	(11) EP3167406	(21) EP16188484.6
BOO, SukHoon	(21) EP15736460.5	(47) 30.08.2023
NAM, Woonhyun	(47) 30.08.2023	(22) 13.09.2016
KIM, Kye-Hyeon	(87) EP2015065639	(54) A VISION SYSTEM AND METHOD FOR A MOTOR VEHICLE
JE, Hongmo	14.01.2016	(73) Arriver Software AB
(31) 201916257713	(22) 08.07.2015	(72) Medley, Fredrik
(32) 25.01.2019	(54) ESTIMATION OF THE METEOROLOGICAL VISIBILITY DISTANCE	(51) G06V 20/56
(33) United States of America	(73) Valeo Schalter und Sensoren GmbH	G06V 20/58
(51) G06V 20/30	(72) ROBERT, Caroline	G08G 1/16
G06V 20/40	AHIAD, Samia	H04N 7/18
G06V 40/16	(31) 1401537	H04N 23/63
G06V 10/762	(32) 09.07.2014	H04N 23/90
G06F 18/23211	(33) France	(11) EP3059720
(11) EP3948659	(51) G06V 20/56	(21) EP14854497.6
(21) EP20739832.2	(11) EP3570063	(47) 30.08.2023
(47) 30.08.2023	(21) EP18172050.9	(87) JP2014068934
(87) US2020039706	(47) 30.08.2023	23.04.2015
30.12.2021	(22) 14.05.2018	(22) 16.07.2014
(22) 25.06.2020	(54) METHOD FOR QUICK ESTIMATION OF A PERSPECTIVE CONCEALMENT IN A SIMULATION OF AN IMAGING SENSOR	(54) VEHICLE-DEPARTURE ASSISTANCE DEVICE
(54) AUTOMATIC GENERATION OF PEOPLE GROUPS AND IMAGE-BASED CREATIONS	(73) dSPACE GmbH	(73) Clarion Co., Ltd.
(73) Google LLC	(72) Liem, Kusnadi	(72) KATO, Kenji
(72) BOHL, Kristi	Peperhowe, Michael	IRIE, Kota
ZHU, Jeremy	(51) G06V 20/56	FUKUDA, Daisuke
LIM, Dominick	(11) EP3506158	TAGAWA, Shinya
LIM, Dominick	(21) EP18215856.8	(31) 2013217301
CHANG, Jason		(32) 18.10.2013
LEE, Taehee		(33) Japan
VALMIKINATHAN, Vidya		(51) G06V 20/58
(51) G06V 20/40		G06T 7/90
G06F 16/583		

G06T 7/254	(51) G06V 40/13	ZHOU, Haitao
(11) EP3872702	G06V 40/60	ZHOU, Yibao
(21) EP21183715.8	G06F 3/0354	TANG, Cheng
(47) 30.08.2023	G06F 3/041	(31) 201710597769
(22) 05.07.2021	G06F 21/32	(32) 20.07.2017
(54) LIGHT COLOR IDENTIFYING METHOD	G06F 1/16	(33) China
AND APPARATUS OF SIGNAL LIGHT,	H04W 52/02	(51) G07C 9/00
AND ROADSIDE DEVICE	(11) EP3956755	E05B 47/00
(73) Apollo Intelligent Connectivity (Beijing)	(21) EP20850159.3	H04B 5/00
Technology Co., Ltd.	(47) 30.08.2023	(11) EP3008265
(72) LIU, Bo	(87) KR2020009505	(21) EP14810291.6
(31) 202011397761	11.02.2021	(47) 30.08.2023
(32) 03.12.2020	(22) 20.07.2020	(87) FI2014050449
(33) China	(54) ELECTRONIC DEVICE INCLUDING	18.12.2014
(51) G06V 20/58	DISPLAY AND SENSOR	(22) 04.06.2014
G06V 20/56	(73) Samsung Electronics Co., Ltd.	(54) DOOR LOCK AND ARRANGEMENT
(11) EP3872697	(72) CHOI, Hyunsuk	FOR TRANSFERRING POWER AND
(21) EP21159758.8	KIM, Yongwoon	INFORMATION TO DOOR LOCK
(47) 30.08.2023	(31) 20190096075	(73) Rollock OY
(22) 26.02.2021	(32) 07.08.2019	(72) KANKKUNEN, Hannu
(54) IMAGE PROCESSOR AND IMAGE	(33) Korea (Republic)	TOIVONEN, Timo
PROCESSING METHOD	(51) G06V 40/18	(31) 20135636
(73) Faurecia Clarion Electronics Co., Ltd.	(11) EP3440592	(32) 11.06.2013
(72) KONDO, Shunsuke	(21) EP17778464.2	(33) Finland
KANEKO, Takayuki	(47) 30.08.2023	(51) G07C 9/00
KUBOTA, Mamoru	(87) AU2017050272	G06Q 10/08
(31) 2020031993	12.10.2017	G06Q 10/0836
(32) 27.02.2020	(22) 30.03.2017	(11) EP3859689
(33) Japan	(54) METHOD AND SYSTEM OF	(21) EP21152337.8
(51) G06V 20/58	DISTINGUISHING BETWEEN A	(47) 30.08.2023
G06V 40/10	GLANCE EVENT AND AN EYE	(22) 06.12.2017
(11) EP3416134	CLOSURE EVENT	(54) PROVIDING ACCESS TO A LOCK FOR
(21) EP17750011.3	(73) Seeing Machines Limited	A SERVICE PROVIDER
(47) 30.08.2023	(72) GRUBB, Grant	(73) ASSA ABLOY AB
(87) JP2017000703	NOBLE, John	(72) SINGH, Sonu
17.08.2017	(31) 2016901290	STRÖMBERG, Stefan
(22) 12.01.2017	(32) 07.04.2016	PERNYER, Kenneth
(54) SURROUNDING ENVIRONMENT	(33) Australia	(31) 16202447
RECOGNITION DEVICE FOR MOVING	(51) G06V 40/18	(32) 06.12.2016
BODY	G06T 7/12	(33) European Patent Office (EPO)
(73) Hitachi Astemo, Ltd.	G06T 7/155	(51) G07C 9/00
(72) NAGASAKI Takeshi	G06T 7/187	H04W 4/02
SHIMA Takeshi	G06V 10/44	H04W 12/06
TAKEMURA Masayuki	H04N 1/62	H04W 12/08
(31) 2016025311	(11) EP3073415	(11) EP3304503
(32) 12.02.2016	(21) EP15190714.4	(21) EP16732693.3
(33) Japan	(47) 30.08.2023	(47) 30.08.2023
(51) G06V 40/10	(22) 21.10.2015	(87) FR2016051358
G06V 10/34	(54) IMAGE PROCESSING APPARATUS	15.12.2016
G06V 20/52	AND IMAGE PROCESSING METHOD	(22) 07.06.2016
G06V 20/64	(73) OMRON CORPORATION	(54) SECURE ACCESS CONTROL
G06V 40/20	(72) Ohta, Takashi	METHOD WITH READER AND MOBILE
G06V 20/40	(31) 2015064378	TERMINAL, IN PARTICULAR SUCH AS
(11) EP3522071	(32) 26.03.2015	A TELEPHONE TERMINAL
(21) EP18855108.9	(33) Japan	(73) Systemes Et Technologies Identification
(47) 30.08.2023	(51) G06V 40/40	(72) DUPART, Vincent
(87) CN2018110135	G06V 40/16	SILVE, Jérôme
13.06.2019	G06V 10/10	POITRAT, Sylvain
(22) 12.10.2018	(11) EP3432212	(31) 1555216
(54) BONE POSTURE DETERMINING	(21) EP18184351.7	(32) 08.06.2015
METHOD AND APPARATUS	(47) 30.08.2023	(33) France
(73) Huawei Technologies Co. Ltd.	(22) 19.07.2018	(51) G07D 9/00
(72) WU, Yixin	(54) ELECTRONIC DEVICE AND METHOD	G07D 11/50
NIE, Qiang	FOR RECOGNIZING REAL FACE AND	(11) EP3660795
LIU, Yunhui	STORAGE MEDIUM	(21) EP18838379.8
(31) 201711297623	(73) GUANGDONG OPPO MOBILE	(47) 30.08.2023
(32) 08.12.2017	TELECOMMUNICATIONS CORP., LTD.	(87) JP2018026589
(33) China	(72) ZHANG, Xueyong	31.01.2019

(22) 13.07.2018	(32) 13.10.2020	NAGEL, Thomas O.
(54) PAPER SHEET PROCESSING DEVICE, PAPER SHEET PROCESSING SYSTEM, PAPER SHEET PROCESSING METHOD, AND PAPER SHEET PROCESSING PROGRAM	(33) Germany	(31) 201916295063 201862646116 P
(73) Glory Ltd.	(51) G08B 13/08	(32) 07.03.2019
(72) MATSUOKA, Yoshinobu	G08B 19/00	21.03.2018
ITO, Osamu	B60R 25/30	(33) United States of America
(31) 2017146768	G08B 17/10	United States of America
(32) 28.07.2017	G08B 21/18	(51) G08B 21/22
(33) Japan	G08B 25/08	G08B 21/24
(51) G07F 13/10	G08B 25/10	(11) EP3895143
B65G 59/10	(11) EP3907712	(21) EP19813163.3
(11) EP3937142	(21) EP21020249.5	(47) 30.08.2023
(21) EP21184901.3	(47) 30.08.2023	(87) IB2019060313
(47) 30.08.2023	(22) 06.05.2021	18.06.2020
(22) 09.07.2021	(54) A DEVICE AND A METHOD FOR COMPLEX SURVEILLANCE OF MOBILE HOUSING OBJECTS	(22) 29.11.2019
(54) CUP DISPENSER FOR A BEVERAGE VENDING MACHINE	(73) Larissa Holding BV	(54) A SAFETY SYSTEM TO PREVENT THE ABANDONMENT OF A CHILD IN A MOTOR VEHICLE
(73) EVOCA S.p.A.	Miare B.V.	(73) Filo Srl
(72) DITRANI, Marco	(72) Provázek, Michal	(72) ROSELLI, Vincenzo
(31) 202000016861	(31) 20203751	SADOLFO, Giorgio
(32) 10.07.2020	(32) 06.05.2020	GRANERO, Gianluca
(33) Italy	(33) Czech Republic	GUGLIELMO, Davide
(51) G07F 17/32	(51) G08B 13/14	(31) 201900002631
G07F 17/42	G07F 19/00	201800011010
(11) EP3506221	G08B 21/16	(32) 25.02.2019
(21) EP18211844.8	G08B 25/10	12.12.2018
(47) 30.08.2023	G07D 11/00	(33) Italy
(22) 12.12.2018	(11) EP3189504	Italy
(54) SMART BIN LOTTERY TICKET DISPENSER WITH MODULAR PRINTER BIN	(21) EP15813558.2	(51) G08B 25/00
(73) Scientific Games, LLC	(47) 30.08.2023	G08G 1/09
(72) Kennedy, James C.	(87) GB2015054077	H04M 11/04
(31) 201715843109	21.07.2016	G08B 25/01
(32) 15.12.2017	(22) 18.12.2015	G08G 1/00
(33) United States of America	(54) REMOVABLE SECURITY DEVICE	(11) EP3836106
(51) G07F 17/32	(73) Spinnaker International Limited	(21) EP18929256.8
G07F 17/42	(72) WESTINGTON, Tony	(47) 30.08.2023
(11) EP3506222	TRIPP, Nick	(87) JP2018029537
(21) EP18211846.3	(31) 201500657	13.02.2020
(47) 30.08.2023	(32) 15.01.2015	(22) 07.08.2018
(22) 12.12.2018	(33) United Kingdom	(54) SERVER DEVICE, VEHICLE, AND METHOD
(54) SMART BIN LOTTERY TICKET DISPENSER WITH INTEGRATED CONTROLLER	(51) G08B 13/24	(73) HONDA MOTOR CO., LTD.
(73) Scientific Games, LLC	E05B 73/00	(72) MUTA, Hiroki
(72) Kennedy, James C.	(11) EP3724863	KOGA, Hibiki
(31) 201715843085	(21) EP18847167.6	TAKEGOSHI, Katsuya
(32) 15.12.2017	(47) 30.08.2023	HATANO, Teruki
(33) United States of America	(87) US2018065762	NISHIMIYA, Satoshi
(51) G08B 13/08	20.06.2019	WATANABE, Yoshimi
E06B 9/26	(22) 14.12.2018	(51) G08C 17/00
E06B 9/32	(54) HARD TAG APPLICATOR	(11) EP3847632
(11) EP3985629	(73) Sensormatic Electronics, LLC	(21) EP19790271.1
(21) EP21202096.0	(72) CLAEYS, Patrick	(47) 30.08.2023
(47) 30.08.2023	ELLERS, Edward, P.	(87) IB2019057591
(22) 12.10.2021	MILLER, Channing, E.	12.03.2020
(54) SHADING DEVICE WITH ALARM DEVICE	(31) 201762599062 P	(22) 09.09.2019
(73) WAREMA Renkhoff SE	(32) 15.12.2017	(54) SYSTEM AND METHOD FOR SMART REMOTE SCENE CREATION
(72) KRAFT, Karlheinz	(33) United States of America	(73) 7Hugs Labs
BUDDE, Jörg	(51) G08B 13/24	(72) TCHEDIKIAN, Simon
MISTLER, Stefan	G08B 13/14	TOUILLAUD, Mickael
KLÜPFEL, Lukas	G08B 13/189	(31) 201862728738 P
(31) 102020126852	(11) EP3543980	201862728736 P
	(21) EP19163455.9	(32) 07.09.2018
	(47) 30.08.2023	07.09.2018
	(22) 18.03.2019	(33) United States of America
	(54) ANTI-THEFT DEVICE WITH REMOTE ALARM FEATURE	United States of America
	(73) Fasteners for Retail, Inc.	(51) G08C 17/00
	(72) EWING, Brent	
	MAN, Chan Chor	

(11) EP3847633	(54) METHOD AND SYSTEM FOR	HOFSTETTER, Gregory K.
(21) EP19790272.9	ENHANCING TRAFFIC ESTIMATION	BRESLIN, Tracy
(47) 30.08.2023	USING TOP VIEW SENSOR DATA	KENNEDAY, Sean
(87) IB2019057592	(73) Honda Research Institute Europe GmbH	WACHLI, Serene
12.03.2020	(72) Einecke, Nils	BLACK, Katie
(22) 09.09.2019	Flade, Benedict	(31) 201562254477 P
(54) REAL-TIME SCENE CREATION	(31) 202017084652	201562236756 P
DURING USE OF A CONTROL DEVICE	(32) 30.10.2020	(32) 12.11.2015
(73) 7Hugs Labs	(33) United States of America	02.10.2015
(72) TOUILLAUD, Mickael	(51) G08G 1/0967	(33) United States of America
TCHEDIKIAN, Simon	G08G 1/0968	United States of America
(31) 201862728738 P	G08G 1/16	(51) G09F 9/33
201862728736 P	(11) EP4133470	G09F 9/35
(32) 07.09.2018	(21) EP21728530.3	G09F 19/22
07.09.2018	(47) 30.08.2023	G09F 27/00
(33) United States of America	(87) EP2021063811	G01N 21/00
United States of America	16.12.2021	G01N 21/958
(51) G08G 1/01	(22) 25.05.2021	G01N 21/95
G08G 1/056	(54) METHOD FOR CONTROLLING A FLOW	(11) EP3910616
G08G 1/16	OF TRAFFIC ON A ROUNDABOUT	(21) EP21167819.8
G08G 1/0967	(73) Audi AG	(47) 30.08.2023
(11) EP3724867	(72) RAINER, Julia	(22) 12.04.2021
(21) EP18826539.1	(31) 102020115431	(54) DISPLAY APPARATUS
(47) 30.08.2023	(32) 10.06.2020	(73) LG Electronics Inc.
(87) EP2018084507	(33) Germany	(72) LEE, Jaebeom
20.06.2019	(51) G09B 9/08	KIM, Taewook
(22) 12.12.2018	G09B 9/16	KIM, Sangkwon
(54) METHOD AND SYSTEM FOR	A61M 16/00	(31) 20200058437
WARNING ROAD USERS OF A	A61M 16/20	(32) 15.05.2020
VEHICLE THAT IS DRIVING IN THE	A61M 16/16	(33) Korea (Republic)
WRONG DIRECTION, COMPRISING	A61M 16/22	(51) G09G 3/3208
TRANSMITTER DATA CONTROL	A63B 23/18	G09G 3/34
(73) Robert Bosch GmbH	A62B 7/14	(11) EP3200181
(72) GEISLER, Simon	A61M 16/10	(21) EP17153820.0
BRAUN, Volker	A61M 16/12	(47) 30.08.2023
(31) 102017222791	A61M 16/06	(22) 30.01.2017
(32) 14.12.2017	(11) EP3454929	(54) DYNAMIC NET POWER CONTROL
(33) Germany	(21) EP17796576.1	FOR OLED AND LOCAL DIMMING LCD
(51) G08G 1/01	(47) 30.08.2023	DISPLAYS
G08G 1/097	(87) US2017030634	(73) Samsung Display Co., Ltd.
G08G 1/0967	16.11.2017	(72) HOFFMAN, David M.
(11) EP3871207	(22) 02.05.2017	(31) 201615239743
(21) EP19876312.0	(54) HYPOXIA TRAINING DEVICE	201662288794 P
(47) 30.08.2023	(73) Lynntech, Inc.	(32) 17.08.2016
(87) US2019057484	(72) VARUGHESE, Jibi	29.01.2016
30.04.2020	COCKING, Seth	(33) United States of America
(22) 22.10.2019	TEURMAN, Cory	United States of America
(54) TRAFFIC SIGNAL STATE PREDICTION	SALINAS, Carlos	(51) G09G 3/3208
CORRECTION AND REAL-TIME	REEH, Jonathan	G11C 19/28
PROBE DATA VALIDATION	WAJE, Mahesh	G09G 3/3266
(73) Traffic Technology Services, Inc.	ZBRANEK, John	(11) EP3825994
(72) HATCHER, Kyle Zachary	KESMEZ, Mehmet	(21) EP19835218.9
MARINEAU, Alex Thomas	HITCHENS, Geoffrey Duncan	(47) 30.08.2023
MA, Jingtao	NETHERLAND, James	(87) CN2019095108
BAUER, Thomas	BALASUBRAMANIAN, Ashwin	23.01.2020
(31) 201962891152 P	(31) 201662336426 P	(22) 08.07.2019
201862749605 P	(32) 13.05.2016	(54) SHIFT REGISTER UNIT, DRIVING
(32) 23.08.2019	(33) United States of America	METHOD THEREFOR, GATE DRIVING
23.10.2018	(51) G09B 23/28	CIRCUIT AND DISPLAY DEVICE
(33) United States of America	(11) EP3357054	(73) BOE Technology Group Co., Ltd.
United States of America	(21) EP16787597.0	Hefei Xinsheng Optoelectronics
(51) G08G 1/04	(47) 30.08.2023	Technology Co., Ltd
G06V 20/54	(87) US2016055148	(72) LI, Yongqian
(11) EP3992940	06.04.2017	FENG, Xuehuan
(21) EP21205133.8	(22) 03.10.2016	(31) 201810792877
(47) 30.08.2023	(54) HYSTERECTOMY MODEL	(32) 18.07.2018
(22) 28.10.2021	(73) Applied Medical Resources Corporation	(33) China
	(72) FELSINGER, Natasha	(51) G09G 3/3233

(11) EP3493189	YAO, Qi	(32) 19.09.2019
(21) EP18182401.2	ZHANG, Bin	(33) Korea (Republic)
(47) 30.08.2023	KONG, Xiangchun	(51) G10H 1/055
(22) 09.07.2018	(31) 201410818586	G10H 1/34
(54) ELECTROLUMINESCENT DISPLAY DEVICE	(32) 24.12.2014	H03K 17/97
(73) LG Display Co., Ltd.	(33) China	(11) EP3826001
(72) Jeong, Haeyoon	(51) G09G 3/36	(21) EP20207263.3
Kim, Donghyun	(11) EP2833351	(47) 30.08.2023
Yoo, JuhnSuk	(21) EP14179248.1	(22) 12.11.2020
Chung, Hoonju	(47) 30.08.2023	(54) KEYBOARD MUSICAL INSTRUMENT PLAYING APPARATUS
Kim, JungChul	(22) 31.07.2014	(73) Yamaha Corporation
(31) 20170163688	(54) Organic light emitting display	(72) OKUYAMA, Fukutaro
20170163682	(73) LG Display Co., Ltd.	TANOUE, Michiko
(32) 30.11.2017	(72) Kang, Changheon	(31) 2019209632
30.11.2017	Lee, Jungmin	(32) 20.11.2019
(33) Korea (Republic)	(31) 20130091060	(33) Japan
Korea (Republic)	(32) 31.07.2013	(51) G10H 3/14
(51) G09G 3/3233	(33) Korea (Republic)	(11) EP3968319
(11) EP3822960	(51) G09G 3/36	(21) EP21195904.4
(21) EP20204503.5	G11C 19/28	(47) 30.08.2023
(47) 30.08.2023	(11) EP3748624	(22) 10.09.2021
(22) 28.10.2020	(21) EP18859963.3	(54) EQUIPMENT FOR THE GENERATION OF ELECTRONIC SOUND FROM STRIKES MADE ON A PERCUSSION PAD
(54) DISPLAY DEVICE AND METHOD OF DRIVING THE SAME	(47) 30.08.2023	(73) Cottarel, Sylvain
(73) Samsung Display Co., Ltd.	(87) CN2018104827	(72) Cottarel, Sylvain
(72) LEE, Wook	01.08.2019	(31) 2009200
KIM, Hye Ji	(22) 10.09.2018	(32) 11.09.2020
YANG, Su Min	(54) GATE DRIVING UNIT, DRIVING METHOD, GATE DRIVING CIRCUIT AND DISPLAY MODULE	(33) France
PYUN, Ki Hyun	(73) Hefei BOE Optoelectronics Technology Co., Ltd.	(51) G10K 9/12
(31) 20190145728	BOE Technology Group Co., Ltd.	G08B 17/00
(32) 14.11.2019	(72) WANG, Zhangmeng	G08B 23/00
(33) Korea (Republic)	SHAO, Xianjie	G08B 3/10
(51) G09G 3/3233	CHEN, Yimin	G08B 17/107
H04N 25/77	(31) 201810083879	(11) EP3518231
(11) EP3646013	(32) 29.01.2018	(21) EP17853127.3
(21) EP17890838.0	(33) China	(47) 30.08.2023
(47) 30.08.2023	(51) G09G 5/12	(87) JP2017034105
(87) CN2017116567	G06F 3/041	29.03.2018
03.01.2019	(11) EP3605521	(22) 21.09.2017
(22) 15.12.2017	(21) EP19188557.3	(54) SOUND-EMITTING DEVICE, NOTIFICATION DEVICE, AND SENSOR
(54) PHOTO-DETECTION PIXEL CIRCUIT, DETECTOR PANEL, AND PHOTOELECTRIC DETECTION APPARATUS	(47) 30.08.2023	(73) Panasonic Intellectual Property Management Co., Ltd.
(73) BOE Technology Group Co., Ltd.	(22) 26.07.2019	(72) TAKAHASHI, Tatsuya
(72) MA, Zhanjie	(54) DETECTION METHOD OF ACTIVE STYLUS	FUKUDA, Masashi
(31) 201710523973	(73) Wacom Co., Ltd.	TAKI, Hidenori
(32) 30.06.2017	(72) Hisano, Haruhiko	(31) 2016184499
(33) China	Hara, Hideyuki	(32) 21.09.2016
(51) G09G 3/34	(31) 2018187806	(33) Japan
G02B 26/02	201862712790 P	(51) G10K 11/178
G09G 3/32	(32) 02.10.2018	(11) EP3326171
(11) EP3239969	31.07.2018	(21) EP16753589.7
(21) EP15795097.3	(33) Japan	(47) 30.08.2023
(47) 30.08.2023	United States of America	(87) EP2016067590
(87) CN2015076559	(51) G09G 5/18	02.02.2017
30.06.2016	(11) EP3796298	(22) 22.07.2016
(22) 14.04.2015	(21) EP20195611.7	(54) ACTIVE NOISE-CONTROL DEVICE
(54) PIXEL STRUCTURE, MANUFACTURING METHOD THEREOF, PIXEL DISPLAY METHOD AND ARRAY SUBSTRATE	(47) 30.08.2023	(73) Orosound
(73) BOE Technology Group Co., Ltd.	(22) 10.09.2020	(72) GUIU, Pierre
(72) CAO, Zhanfeng	(54) CLOCK DATA RECOVERY CIRCUIT AND DISPLAY DEVICE INCLUDING THE SAME	BENHAIM, Eric
GAO, Jincheng	(73) Samsung Display Co., Ltd.	(31) 1557050
HE, Xiaolong	(72) PARK, Min Young	(32) 24.07.2015
LI, Zhengliang	PYUN, Ki Hyun	(33) France
	SHIM, Jong Min	(51) G10K 11/178
	(31) 20190115129	

(11) EP3718102	(32) 19.09.2018	(11) EP3025335
(21) EP18814536.1	(33) Korea (Republic)	(21) EP14747862.2
(47) 30.08.2023	(51) G10L 15/22	(47) 30.08.2023
(87) EP2018082980	G06F 3/01	(87) EP2014065427
06.06.2019	G06N 3/08	29.01.2015
(22) 29.11.2018	G10L 15/183	(22) 17.07.2014
(54) ACTIVE NOISE CONTROL METHOD	(11) EP3791387	(54) APPARATUS AND METHOD FOR
AND SYSTEM	(21) EP19799947.7	ENHANCED SPATIAL AUDIO OBJECT
(73) Faurecia Creo AB	(47) 30.08.2023	CODING
(72) PIGNIER, Nicolas	(87) US2019031114	(73) Fraunhofer-Gesellschaft zur Förderung
RISBERG, Robert	14.11.2019	der angewandten Forschung e.V.
MATTEI, Christophe	(22) 07.05.2019	(72) RIDDERBUSCH, Falko
(31) 1751476	(54) SYSTEMS AND METHODS FOR	TERENTIV, Leon
(32) 30.11.2017	IMPROVED SPEECH RECOGNITION	FUCHS, Harald
(33) Sweden	USING NEUROMUSCULAR	HELLMUTH, Oliver
(51) G10K 11/18	INFORMATION	PAULUS, Jouni
A61B 8/00	(73) Facebook Technologies, LLC.	MURTAZA, Adrian
G01S 15/00	(72) WETMORE, Daniel	HERRE, Jürgen
H02J 50/15	SEELY, Jeffrey, Scott	DISCH, Sascha
H02J 50/80	KAIFOSH, Patrick	(31) 13189290
H02J 50/90	BERENZWEIG, Adam	13177378
H04B 11/00	DU, Alan, Huan	13177371
A61B 5/00	(31) 201815974430	13177357
H02J 50/40	201815974384	(32) 18.10.2013
(11) EP4097715	201815974454	22.07.2013
(21) EP21732667.7	(32) 08.05.2018	22.07.2013
(47) 30.08.2023	08.05.2018	22.07.2013
(87) US2021033053	08.05.2018	(33) European Patent Office (EPO)
02.12.2021	(33) United States of America	European Patent Office (EPO)
(22) 19.05.2021	United States of America	European Patent Office (EPO)
(54) MITIGATING MECHANICAL WAVE	United States of America	European Patent Office (EPO)
SIGNAL ABSORPTION ACCROSS	(51) G10L 15/22	(51) G10L 19/02
MULTIPLE ENERGY-HARVESTING	G10L 15/26	G10L 21/038
DEVICES	(11) EP3767622	G10L 19/22
(73) CBN Nano Technologies Inc.	(21) EP20195508.5	G10L 19/26
(72) HOGG, Tad	(47) 30.08.2023	G10L 19/16
(31) 202063032023 P	(22) 16.04.2018	G10L 19/08
(32) 29.05.2020	(54) AUTOMATICALLY DETERMINING	(11) EP3301674
(33) United States of America	LANGUAGE FOR SPEECH	(21) EP17186095.0
(51) G10K 11/34	RECOGNITION OF SPOKEN	(47) 30.08.2023
G01S 7/52	UTTERANCE RECEIVED VIA AN	(22) 09.09.2014
A61B 8/08	AUTOMATED ASSISTANT INTERFACE	(54) ADAPTIVE BANDWIDTH EXTENSION
G01S 15/89	(73) Google LLC	AND APPARATUS FOR THE SAME
(11) EP3352166	(72) MORENO, Ignacio Lopez	(73) Huawei Technologies Co., Ltd.
(21) EP17152207.1	CASADO, Diego Melendo	(72) GAO, Yang
(47) 30.08.2023	CHAO, Pu-sen	(31) 201414478839
(22) 19.01.2017	(51) G10L 19/008	201361875690 P
(54) SYSTEMS AND METHODS	G10L 19/005	(32) 05.09.2014
FOR DISTORTION FREE MULTI	H04S 3/00	10.09.2013
BEAM ULTRASOUND RECEIVE	(11) EP3602547	(33) United States of America
BEAMFORMING	(21) EP18707201.2	United States of America
(73) Esaote S.p.A.	(47) 30.08.2023	(51) G10L 19/022
(72) PELLEGGRETTI, Paolo	(87) US2018017654	G10L 19/04
MULDER, Theodorus Franciscus	27.09.2018	G10L 19/02
(51) G10L 15/06	(22) 09.02.2018	G10L 19/18
G10L 15/32	(54) TARGET SAMPLE GENERATION	(11) EP3503098
(11) EP3627498	(73) Qualcomm Incorporated	(21) EP19157006.8
(21) EP19198083.8	(72) ATTI, Venkatraman	(47) 30.08.2023
(47) 30.08.2023	CHEBIYYAM, Venkata Subrahmanyam	(22) 14.02.2012
(22) 18.09.2019	Chandra Sekhar	(54) APPARATUS AND METHOD
(54) METHOD AND SYSTEM, FOR	(31) 201815892130	DECODING AN AUDIO SIGNAL USING
GENERATING SPEECH RECOGNITION	201762474010 P	AN ALIGNED LOOK-AHEAD PORTION
TRAINING DATA	(32) 08.02.2018	(73) Fraunhofer-Gesellschaft zur Förderung
(73) 42 Maru Inc.	20.03.2017	der angewandten Forschung e.V.
(72) KWON, You Kyung	(33) United States of America	(72) Bäckström, Tom
KIM, Hyun Ok	United States of America	Ravelli, Emmanuel
KIM, Dong Hwan	(51) G10L 19/008	Geiger, Ralf
(31) 20180112489	H04S 3/00	Fuchs, Guillaume

Schnell, Markus	G10L 25/87	(54) PRINTED WIRING BOARD AND
Grill, Bernhard	(11) EP3764361	INFORMATION PROCESSING
Helmrich, Christian	(21) EP19811458.9	APPARATUS
Ruoppila, Vesa	(47) 30.08.2023	(73) Hitachi, Ltd.
(31) 201161442632 P	(87) CN2019088591	(72) OSHIMA, Yohei
(32) 14.02.2011	05.12.2019	UEMATSU, Yutaka
(33) United States of America	(22) 27.05.2019	HAMAMOTO, Goroh
(51) G10L 19/26	(54) METHOD AND APPARATUS FOR	HYAKUDOMI, Maya
G10L 21/0316	ALIGNING VOICES	(31) 2020125150
G10L 21/02	(73) Huawei Technologies Co., Ltd.	(32) 22.07.2020
G10L 19/028	(72) YE, Qiang	(33) Japan
G10L 21/038	QIN, Zhen	(51) G11C 11/56
(11) EP3712890	TIAN, Guangjian	G11C 16/04
(21) EP19190663.5	(31) 201810519857	G11C 16/10
(47) 30.08.2023	(32) 28.05.2018	G11C 16/26
(22) 19.01.2015	(33) China	G11C 16/34
(54) METHOD FOR PROCESSING SPEECH/	(51) G11B 7/08	(11) EP3703056
AUDIO SIGNAL AND APPARATUS	C08L 75/04	(21) EP20154192.7
(73) Huawei Technologies Co., Ltd.	C08L 51/08	(47) 30.08.2023
(72) LIU, Zexin	C08L 83/12	(22) 28.01.2020
MIAO, Lei	G11B 7/24	(54) PROGRAM SUSPEND-RESUME
(31) 201410242233	(11) EP3588499	TECHNIQUES IN NON-VOLATILE
(32) 03.06.2014	(21) EP18885464.0	STORAGE
(33) China	(47) 30.08.2023	(73) Intel Corporation
(51) G10L 21/003	(87) KR2018015467	(72) D'ALESSANDRO, Andrea
G06F 40/42	13.06.2019	DONATI, Giacomo
G06N 3/045	(22) 07.12.2018	MOSCHIANO, Violante
G06N 3/047	(54) PHOTOPOLYMER COMPOSITION	(31) 201916287863
G06N 3/088	(73) LG Chem, Ltd.	(32) 27.02.2019
G06N 3/04	(72) CHANG, Yeongrae	(33) United States of America
G10L 25/30	LEE, Hyunsup	(51) G11C 16/08
(11) EP3855340	JANG, Seokhoon	G11C 16/10
(21) EP20217111.2	KIM, Heon	G11C 16/16
(47) 30.08.2023	KWON, Se Hyun	G11C 16/24
(22) 23.12.2020	(31) 20180156152	G11C 16/26
(54) CROSS-LINGUAL VOICE	20170168049	G11C 16/04
CONVERSION SYSTEM AND METHOD	(32) 06.12.2018	H01L 29/423
(73) TMRW Foundation IP SARL	08.12.2017	H01L 29/788
(72) Yerli, Cevat	(33) Korea (Republic)	H10B 41/30
(31) 201962955227 P	Korea (Republic)	(11) EP4046158
(32) 30.12.2019	(51) G11B 20/00	(21) EP20718030.8
(33) United States of America	H04N 5/913	(47) 30.08.2023
(51) G10L 21/0388	(11) EP3671746	(87) US2020022450
G10L 25/30	(21) EP20157680.8	22.04.2021
G10L 19/005	(47) 30.08.2023	(22) 12.03.2020
(11) EP3701527	(22) 29.05.2015	(54) FOUR GATE, SPLIT-GATE FLASH
(21) EP18716314.2	(54) PLAYBACK METHOD AND PLAYBACK	MEMORY ARRAY WITH BYTE ERASE
(47) 30.08.2023	APPARATUS	OPERATION
(87) EP2018059593	(73) Panasonic Intellectual Property	(73) Silicon Storage Technology Inc.
02.05.2019	Management Co., Ltd.	(72) DO, Nhan
(22) 13.04.2018	(72) YAMAMOTO, Masaya	LIANG, Hsuan
(54) APPARATUS, METHOD OR	MURASE, Kaoru	YANG, Jeng-Wei
COMPUTER PROGRAM FOR	KOZUKA, Masayuki	TRAN, Hieu Van
GENERATING A BANDWIDTH-	(31) 2015100511	CHANG, Lihsin
ENHANCED AUDIO SIGNAL USING A	201462014850 P	WU, Man Tang
NEURAL NETWORK PROCESSOR	(32) 15.05.2015	(31) 202016784183
(73) Fraunhofer-Gesellschaft zur Förderung	20.06.2014	201962914799 P
der angewandten Forschung e.V.	(33) Japan	(32) 06.02.2020
(72) EDLER, Bernd	United States of America	14.10.2019
UHLE, Christian	(51) G11C 5/04	(33) United States of America
SCHMIDT, Konstantin	G11C 5/06	United States of America
(31) 17198997	H05K 1/18	(51) G11C 19/28
(32) 27.10.2017	G06F 13/16	G09G 3/3266
(33) European Patent Office (EPO)	G06F 13/40	(11) EP3576082
(51) G10L 25/60	(11) EP3944244	(21) EP17835573.1
H04M 3/22	(21) EP21182731.6	(47) 30.08.2023
H04M 3/28	(47) 30.08.2023	(87) CN2017095289
G10L 25/06	(22) 30.06.2021	02.08.2018

- (22) 31.07.2017
(54) SHIFT REGISTER AND DRIVING METHOD THEREFOR, GATE DRIVING CIRCUIT AND DISPLAY DEVICE
(73) BOE Technology Group Co., Ltd.
(72) HAO, Xueguang
(31) 201710059304
(32) 24.01.2017
(33) China
-
- (51) G16B 5/00
G16B 20/00
G16B 25/00
G16H 20/10
G16H 50/20
G16H 50/50
C12Q 1/6886
(11) EP3729439
(21) EP18788678.3
(47) 30.08.2023
(87) EP2018076513
27.06.2019
(22) 28.09.2018
(54) ASSESSMENT OF MAPK-AP 1 CELLULAR SIGNALING PATHWAY ACTIVITY USING MATHEMATICAL MODELLING OF TARGET GENE EXPRESSION
(73) InnoSIGN B.V.
(72) VAN DE STOLPE, Anja
HOLTZER, Laurentius, Henricus, Franciscus, Maria
(31) 17209053
(32) 20.12.2017
(33) European Patent Office (EPO)
-
- (51) G16B 20/00
G16B 30/00
G16B 40/00
C12Q 1/6869
G16B 40/10
G16B 20/20
(11) EP3653731
(21) EP19216343.4
(47) 30.08.2023
(22) 27.12.2016
(54) METHOD FOR PERFORMING GENOTYPING ANALYSIS
(73) Limagrain Europe
(72) GUILLOUD, Sandra
DUMAS, Anne-Valérie
CHAUVET, Stéphanie
MARTINANT, Jean-Pierre
COLLANGE, Guillaume
-
- (51) G16C 20/50
G16C 20/40
(11) EP3703062
(21) EP20151364.5
(47) 30.08.2023
(22) 13.01.2020
(54) COMPOUND SEARCH METHOD, COMPOUND SEARCH DEVICE, AND COMPOUND SEARCH PROGRAM
(73) FUJITSU LIMITED
(72) MITSUI, Takashi
(31) 2019033973
(32) 27.02.2019
(33) Japan
-
- (51) G16C 20/70
(11) EP3398100
- (21) EP16829252.2
(47) 30.08.2023
(87) EP2016082880
06.07.2017
(22) 29.12.2016
(54) DETECTING AN ANALYTE IN A FLASH AND GLOW REACTION
(73) F. Hoffmann-La Roche AG
(72) REY, Diego Ariel
REINIG, Nick
HAYTER, Paul
SHARMA, Manoj
(31) 201562273845 P
(32) 31.12.2015
(33) United States of America
-
- (51) G16H 20/10
G01N 33/52
(11) EP4000073
(21) EP20740330.4
(47) 30.08.2023
(87) EP2020070372
28.01.2021
(22) 17.07.2020
(54) METHOD FOR EVALUATING ANTIBIOTIC SUSCEPTIBILITY
(73) Vrije Universiteit Brussel
Universiteit Antwerpen
(72) MEULEBROEK, Wendy
VAES, Kristof
GOOSSENS, Herman
MOONS, Pieter
DE BOECK, Muriel
THIENPONT, Hugo
BAELUS, Christiaan
OTTEVAERE, Heidi
(31) 19187294
(32) 19.07.2019
(33) European Patent Office (EPO)
-
- (51) G16H 20/70
A61B 5/16
(11) EP3701537
(21) EP18796862.3
(47) 30.08.2023
(87) EP2018079000
02.05.2019
(22) 23.10.2018
(54) COMPUTING SYSTEM AND METHOD FOR TREATING OF MOOD-RELATED DISORDERS
(73) Neuraltrain GmbH
(72) CHAKRABARTY, Arnab
MÜSCHENICH, Markus
LAUTNER, Christian
(31) 100492
(32) 23.10.2017
(33) Luxembourg
-
- (51) G16H 40/40
G16H 20/17
G06F 8/65
G16H 70/40
(11) EP2769357
(21) EP12840952.1
(47) 30.08.2023
(87) US2012061055
25.04.2013
(22) 19.10.2012
(54) MEDICAL DEVICE UPDATE SYSTEM
(73) ICU Medical, Inc.
- (72) WARD, Patrick A.
SHULTS, James R.
VACCARO, Thomas J.
ARRIZZA, John
(31) 201161549826 P
(32) 21.10.2011
(33) United States of America
-
- (51) G21C 9/00
G21C 15/18
(11) EP3945531
(21) EP21187543.0
(47) 30.08.2023
(22) 23.07.2021
(54) REACTOR AND SAFETY METHOD FOR REACTOR IN THE EVENT OF CORE MELTDOWN
(73) Commissariat à l'Energie Atomique et aux Energies Alternatives
(72) AVAKIAN, Gilles
MORIN, Franck
(31) 2008045
(32) 29.07.2020
(33) France
-
- (51) G21F 5/08
G21F 9/34
G21F 9/36
B09B 1/00
G21F 5/12
(11) EP3928331
(21) EP20759988.7
(47) 30.08.2023
(87) US2020019218
27.08.2020
(22) 21.02.2020
(54) HAZARDOUS MATERIAL REPOSITORY SYSTEMS AND METHODS
(73) Deep Isolation, Inc.
(72) MULLER, Richard A.
(31) 201962833097 P
201962808545 P
201962808588 P
(32) 12.04.2019
21.02.2019
21.02.2019
(33) United States of America
United States of America
United States of America
-
- (51) H01B 1/08
H01B 1/06
H01B 1/10
H01M 10/0525
H01M 10/052
H01M 4/62
H01M 4/13
H01M 10/0562
(11) EP3940815
(21) EP19919900.1
(47) 30.08.2023
(87) JP2019048475
24.09.2020
(22) 11.12.2019
(54) SOLID ELECTROLYTE MATERIAL AND BATTERY USING SAME
(73) Panasonic Intellectual Property Management Co., Ltd.
(72) SAKAI, Akihiro
ASANO, Tetsuya
MIYAZAKI, Akinobu

KUBO, Takashi	(73) Robert Bosch GmbH	(72) Schmid, Patrick
(31) 2019048886	(72) BORTIS, Dominik	Rumsch, Andreas
(32) 15.03.2019	SCHAEFER, Jannik Robin	Imfeld, Joe
(33) Japan	KOLAR, Johann W.	(31) 14190420
(51) H01B 13/02	(31) 102018204366	(32) 27.10.2014
H01B 13/012	(32) 22.03.2018	(33) European Patent Office (EPO)
H01R 43/28	(33) Germany	(51) H01G 4/18
(11) EP3511954	(51) H01F 21/06	H01G 4/224
(21) EP18151465.4	H01F 27/40	H05K 1/16
(47) 30.08.2023	H01F 29/10	H05K 3/46
(22) 12.01.2018	H02H 9/02	(11) EP3602585
(54) METHOD AND DEVICE FOR	(11) EP3503131	(21) EP18717427.1
PROCESSING A PLURALITY OF	(21) EP17208444.4	(47) 30.08.2023
ELECTRICITY LINES	(47) 30.08.2023	(87) IB2018051889
(73) KOMAX HOLDING AG	(22) 19.12.2017	27.09.2018
(72) STAUBLI, Dominik	(54) INDUCTOR AND METHOD	(22) 21.03.2018
BUCHER, Markus	FOR VARYING THE MAGNETIC	(54) CAPACITOR FOR RESONANT
SUTER, Beat	PERMEABILITY OF AN INDUCTOR	CIRCUITS IN POWER APPLICATIONS
(51) H01F 7/02	(73) Vestel Elektronik Sanayi ve Ticaret A.S.	(73) Politecnico Di Torino
G01R 33/3873	(72) KARATAS, Mustafa	(72) CIRIMELE, Vincenzo
G01R 33/383	BİLGİN, Mert Serdar	GUGLIELMI, Paolo
(11) EP3652554	(51) H01F 27/02	FRESCHI, Fabio
(21) EP18831754.9	H01F 37/00	(31) 201700032290
(47) 30.08.2023	H02H 9/08	(32) 23.03.2017
(87) IL2018050740	H02J 3/18	(33) Italy
17.01.2019	H02M 1/00	(51) H01G 9/048
(22) 08.07.2018	(11) EP3764376	H01G 11/86
(54) A SYSTEM FOR GENERATING A	(21) EP19185742.4	H01G 11/54
MAGNETIC FIELD	(47) 30.08.2023	H01G 11/26
(73) Aspect Imaging Ltd.	(22) 11.07.2019	H01L 27/13
(72) RAPOPORT, Uri	(54) COMPENSATION DEVICE FOR	H01G 11/30
GOLDFARB, Yair	POWER SUPPLY NETWORKS	H01G 11/28
COHEN, Yoram	(73) Siemens Energy Global GmbH & Co. KG	H01G 9/042
(31) 201715645568	(72) KULKARNI, Shashank	H01L 27/12
(32) 10.07.2017	LABINSKY, Robert	(11) EP2820661
(33) United States of America	AMBEKAR, Sarvesh	(21) EP13755359.0
(51) H01F 7/12	(51) H01F 27/245	(47) 30.08.2023
H01H 3/28	(11) EP3769324	(87) FI2013050226
H01H 50/46	(21) EP18916458.5	06.09.2013
H01H 50/42	(47) 30.08.2023	(22) 28.02.2013
H01H 50/16	(87) CN2018084068	(54) INTEGRABLE ELECTROCHEMICAL
(11) EP3821451	31.10.2019	CAPACITOR
(21) EP19736744.4	(22) 23.04.2018	(73) Teknologian tutkimuskeskus VTT Oy
(47) 30.08.2023	(54) TRANSFORMER CORES AND	(72) AHOPELTO, Jouni
(87) EP2019068624	ASSEMBLY METHODS THEREOF FOR	(31) 20125219
16.01.2020	HIGH EFFICIENCY AND HIGH ANTI-	(32) 28.02.2012
(22) 10.07.2019	CORROSION PERFORMANCE	(33) Finland
(54) MEDIUM VOLTAGE CIRCUIT BREAKER	(73) Hainan Jinpan Smart Technology Co.,	(51) H01G 11/24
WITH VACUUM INTERRUPTERS	Ltd.	H01G 11/38
AND A DRIVE AND METHOD FOR	Siemens Energy Global GmbH & Co. KG	H01G 11/42
OPERATING THE SAME	(72) WANG, Zhongbo	H01G 11/50
(73) ABB Schweiz AG	LI, Hui	H01M 4/134
(72) BELLUT, Markus	CHEN, Wei	H01M 4/1393
REUBER, Christian	NAVARRO, Martin Alsina	H01M 4/1395
GENTSCH, Dietmar	MORENO, Andre Luiz	H01M 4/36
MASMEIER, Philipp	(51) H01F 27/40	H01M 4/38
(31) 18183548	G01R 31/62	H01M 4/62
(32) 13.07.2018	(11) EP3447778	H01M 4/02
(33) European Patent Office (EPO)	(21) EP18020402.6	(11) EP3644334
(51) H01F 17/00	(47) 30.08.2023	(21) EP19201632.7
(11) EP3769323	(22) 05.10.2015	(47) 30.08.2023
(21) EP19708835.4	(54) METHOD, SYSTEM AND ASSEMBLY	(22) 07.10.2019
(47) 30.08.2023	FOR DETERMINING A REDUCTION OF	(54) POROUS SILICON-CONTAINING
(87) EP2019055145	REMAINING SERVICE LIFETIME OF	COMPOSITE, CARBON COMPOSITE
26.09.2019	AN ELECTRICAL DEVICE BASED ON A	USING THE SAME, AND ELECTRODE,
(22) 01.03.2019	TEMPERATURE DEPENDENT AGING	LITHIUM BATTERY AND ELECTRONIC
(54) INDUCTIVE COMPONENT AND HIGH-	FACTOR	DEVICE EACH INCLUDING THE SAME
FREQUENCY FILTER DEVICE	(73) Landis+Gyr AG	(73) Samsung SDI Co., Ltd.

Samsung Electronics Co., Ltd.	H01H 33/16	PROTECTION OF PROPERTY AND PERSONS
(72) KIM, Mijong	(11) EP3827454	(73) DEHN SE
MAH, Sangkook	(21) EP19769078.7	(72) EHRHARDT, Arnd
LEE, Jumyeung	(47) 30.08.2023	BÜHLER, Klaus
SON, Inhyuk	(87) EP2019073502	(31) 102018100076
CHOI, Junghyun	19.03.2020	(32) 03.01.2018
HAN, Sungsoo	(22) 04.09.2019	(33) Germany
LIM, Minwoo	(54) HIGH VOLTAGE DEVICE AND METHOD FOR THE ADJUSTMENT OF THE CHARACTERISTICS OF THE HIGH VOLTAGE DEVICE	(51) H01H 50/60
(31) 20180128321	(73) Siemens Aktiengesellschaft	H01H 3/30
(32) 25.10.2018	(72) GROTH, Rudolf	(11) EP4000085
(33) Korea (Republic)	CERNAT, Radu-Marian	(21) EP20739627.6
(51) H01G 11/38	LECHELER, Stefan	(47) 30.08.2023
(11) EP2983186	WIESINGER, Claudia	(87) EP2020069368
(21) EP13863700.4	HARTIG, Prosper	21.01.2021
(47) 30.08.2023	DOHNKE, Oliver	(22) 09.07.2020
(87) KR2013010914	TEICHMANN, Jörg	(54) RELAY
09.10.2014	CHYLA, Thomas	(73) Eaton Intelligent Power Limited
(22) 28.11.2013	GIERE, Stefan	(72) HEMMER, Aloysius
(54) ELECTRODE COMPOSITION FOR SUPERCAPACITOR, CURED PRODUCT OF SAID COMPOSITION, ELECTRODE COMPRISING SAID CURED PRODUCT, CAPACITOR COMPRISING SAID ELECTRODE, AND MANUFACTURING METHOD FOR SAID SUPERCAPACITOR	(31) 102018215610	KATZENSTEINER, Matthias
(73) Korea Institute Of Machinery & Materials	(32) 13.09.2018	(31) 201910159
(72) JO, Jeong Dai	(33) Germany	(32) 16.07.2019
JANG, Yunseok	(51) H01H 13/83	(33) United Kingdom
KIM, Kwang-Young	G01R 31/327	(51) H01H 71/04
(31) 20130035016	G06F 3/02	G01R 31/327
(32) 01.04.2013	H01H 13/7065	(11) EP3753037
(33) Korea (Republic)	(11) EP3770937	(21) EP18906566.7
(51) H01H 1/06	(21) EP18915960.1	(47) 30.08.2023
H01H 1/26	(47) 30.08.2023	(87) CN2018076620
H01H 31/02	(87) CN2018085181	22.08.2019
H01H 31/36	31.10.2019	(22) 13.02.2018
(11) EP3830852	(22) 28.04.2018	(54) WIRELESS SENSING SYSTEM AND METHOD FOR SWITCHGEAR
(21) EP19769072.0	(54) KEYBOARD AND ELECTRONIC DEVICE	(73) ABB Schweiz AG
(47) 30.08.2023	(73) HUAWEI TECHNOLOGIES CO., LTD.	(72) MENG, Delun
(87) EP2019073390	(72) HUANG, Weiyong	CHEN, Jiansheng
02.04.2020	BAI, Lei	LI, Chun
(22) 03.09.2019	JIANG, Yaming	ZHANG, Yibo
(54) CONTACT ARRANGEMENT FOR AN ISOLATING SWITCH AND METHOD FOR MAKING ELECTRICAL CONTACT WITH THE CONTACT ARRANGEMENT	(51) H01H 33/662	TAO, Zhiqiang
(73) Siemens Energy Global GmbH & Co. KG	H01H 33/664	ZHUANG, Zhijian
(72) SCHRÄDER, Dirk	H01H 33/666	(51) H01H 71/04
ROHMANN, Mariusz	(11) EP3811391	H01H 71/08
(31) 102018216723	(21) EP19752937.3	(11) EP3706154
(32) 28.09.2018	(47) 30.08.2023	(21) EP18875259.6
(33) Germany	(87) EP2019069872	(47) 30.08.2023
(51) H01H 9/00	06.02.2020	(87) CN2018114395
H01H 3/30	(22) 24.07.2019	16.05.2019
H01H 3/42	(54) CLOSING CONTACT SYSTEM	(22) 07.11.2018
(11) EP3761333	(73) Siemens Energy Global GmbH & Co. KG	(54) LOW-VOLTAGE POWER DISTRIBUTION DEVICE AND METHOD FOR CONTROLLING LOW-VOLTAGE POWER DISTRIBUTION DEVICE TRIPPING
(21) EP19183692.3	(72) KOLETZKO, Martin	(73) Schneider Electric Industries SAS
(47) 30.08.2023	SCHACHERER, Christian	(72) LIU, Quanhe
(22) 01.07.2019	(31) 102018212953	MA, Feng
(54) DRIVE ARRANGEMENT FOR A TAP CHANGER	(32) 02.08.2018	TIAN, Simon
(73) Hitachi Energy Switzerland AG	(33) Germany	BERNARD, Jean-Baptiste
(72) JOHANSSON, Martin	(51) H01H 37/76	SHUANG, Bing
(51) H01H 11/00	H01H 39/00	ZHOU, Lei
G01R 31/12	H01H 79/00	(31) 201711086939
H01H 33/12	(11) EP3735703	(32) 07.11.2017
H01H 33/00	(21) EP18812155.2	(33) China
	(47) 30.08.2023	(51) H01H 71/08
	(87) EP2018083269	H01H 71/02
	11.07.2019	H01H 73/08
	(22) 03.12.2018	H01H 73/12
	(54) SHORT-CIRCUITING DEVICE FOR USE IN LOW-VOLTAGE AND MEDIUM-VOLTAGE SYSTEMS FOR THE	(11) EP3910659

(21) EP20906800.6	(22) 12.06.2020	(51) H01J 49/00
(47) 30.08.2023	(54) ELECTRONIC INSTALLATION DEVICE	H01J 49/10
(87) CN2020139461	(73) Schneider Electric Industries SAS	(11) EP3683823
01.07.2021	(72) KNEIFEL, Christian	(21) EP20152014.5
(22) 25.12.2020	CANET, Thomas	(47) 30.08.2023
(54) CIRCUIT BREAKER AND POWER	HAO, Linda	(22) 15.01.2020
DISTRIBUTION SYSTEM	ZHANG, May	(54) MASS SPECTRUM PROCESSING
(73) Huawei Digital Power Technologies Co.,	(31) 102019116789	APPARATUS AND METHOD
Ltd.	(32) 21.06.2019	(73) JEOL Ltd.
(72) RAN, Xiaoke	(33) Germany	(72) KUBO, Ayumi
LONG, Haibo	(51) H01H 85/10	UBUKATA, Masaaki
YANG, Zezhou	H01H 85/12	(31) 2019006807
GUO, Wei	H01H 85/18	(32) 18.01.2019
LIANG, Zehua	H01H 69/02	(33) Japan
YANG, Yanxing	H01H 85/15	(51) H01L 21/02
(31) 201911358029	(11) EP3472848	(11) EP3446329
(32) 25.12.2019	(21) EP17722319.5	(21) EP17717389.5
(33) China	(47) 30.08.2023	(47) 30.08.2023
(51) H01H 71/12	(87) US2017029774	(87) EP2017058674
F16B 21/02	28.12.2017	26.10.2017
H01H 79/00	(22) 27.04.2017	(22) 11.04.2017
H02H 7/18	(54) HIGH VOLTAGE POWER FUSE	(54) SILICON WAFER FOR AN
B64G 1/22	INCLUDING FATIGUE RESISTANT	ELECTRONIC COMPONENT AND
H01H 1/36	FUSE ELEMENT	METHOD FOR THE PRODUCTION
H01H 1/56	(73) Eaton Intelligent Power Limited	THEREOF
H01H 3/30	(72) KANAPADY, Ramdev	(73) Nexwafe GmbH
H01H 9/10	DOUGLASS, Robert Stephen	(72) REBER, Stefan
(11) EP3559973	(31) 201615186674	SCHILLINGER, Kai
(21) EP17882281.3	(32) 20.06.2016	SIEBKE, Frank
(47) 30.08.2023	(33) United States of America	(31) 102016107557
(87) FR2017050288	(51) H01J 37/20	(32) 22.04.2016
28.06.2018	H01J 37/28	(33) Germany
(22) 08.02.2017	(11) EP3973559	(51) H01L 21/02
(54) SELF-SUPPORTED	(21) EP20726136.3	H01L 29/423
ACTIVATION DEVICE FOR AN	(47) 30.08.2023	H10B 41/43
ELECTROMECHANICAL SWITCH	(87) EP2020063953	H10B 41/30
(73) SAFT	26.11.2020	H01L 29/66
(72) MORILLON, Benoît	(22) 19.05.2020	(11) EP3913656
PASQUIER, Eric	(54) DIFFRACTOMETER FOR CHARGED-	(21) EP21178701.5
(31) 1663257	PARTICLE CRYSTALLOGRAPHY	(47) 30.08.2023
(32) 22.12.2016	(73) ELDICO Scientific AG	(22) 22.04.2017
(33) France	(72) STEINFELD, Gunther	(54) METHOD OF MAKING SPLIT GATE
(51) H01H 71/24	HOVESTREYDT, Eric	NON-VOLATILE FLASH MEMORY CELL
H01H 3/46	SANTISO-QUINONES, Gustavo	(73) Silicon Storage Technology Inc.
H01H 33/666	(31) 19175432	(72) WANG, Chunming
H01H 71/50	(32) 20.05.2019	LIU, Xian
(11) EP3830857	(33) European Patent Office (EPO)	LIU, Andy
(21) EP19769070.4	(51) H01J 37/32	DIAO, Melvin
(47) 30.08.2023	H05H 1/28	XING, Leo
(87) EP2019073387	(11) EP3729486	DO, Nhan
02.04.2020	(21) EP18829350.0	(31) 201610330742
(22) 03.09.2019	(47) 30.08.2023	(32) 18.05.2016
(54) QUICK RELEASE LATCH, RELEASE	(87) EP2018085820	(33) China
MECHANISM AND QUICK EARTHING	27.06.2019	(51) H01L 21/20
DEVICE, HIGH-SPEED SWITCH OR	(22) 19.12.2018	H01L 21/04
SHORT CIRCUITER	(54) SYSTEM FOR ELECTRICALLY	(11) EP4057323
(73) Siemens Aktiengesellschaft	DECOUPLED, HOMOGENEOUS	(21) EP22161366.4
(72) EINSCHENK, Jürgen	TEMPERATURE CONTROL OF	(47) 30.08.2023
STRACKE, Peter	AN ELECTRODE BY MEANS OF	(22) 10.03.2022
(31) 102018216210	HEAT CONDUCTION TUBES, AND	(54) METHOD FOR THINNING A SILICON
(32) 24.09.2018	PROCESSING FACILITY COMPRISING	CARBIDE SUBSTRATE
(33) Germany	SUCH A SYSTEM	(73) Huawei Digital Power Technologies Co.,
(51) H01H 71/40	(73) Meyer Burger (Germany) GmbH	Ltd.
(11) EP3970176	(72) BÖHM, Christian	(72) HAN, Xiaobiao
(21) EP20732882.4	RASCHKE, Sebastian	HUANG, Boning
(47) 30.08.2023	(31) 102017223592	WANG, Yiyu
(87) EP2020066404	(32) 21.12.2017	WAN, Yuxi
24.12.2020	(33) Germany	(31) 202110260645

(32) 10.03.2021	(47) 30.08.2023	(51) H01L 21/762
(33) China	(87) CN2016103732	H01L 21/02
(51) H01L 21/3205	03.05.2018	(11) EP3352207
H01L 21/336	(22) 28.10.2016	(21) EP16845712.5
H01L 21/28	(54) DEVICE PROVIDED WITH CRACK	(47) 30.08.2023
H01L 29/08	DETECTION CIRCUIT, AND	(87) CN2016098943
H01L 21/285	DETECTION SYSTEM	23.03.2017
H01L 29/417	(73) Huawei Technologies Co. Ltd.	(22) 14.09.2016
H01L 29/45	(72) FANG, Jianping	(54) METHOD FOR SEPARATING
(11) EP3314635	YE, Runqing	SEMICONDUCTOR SUBSTRATE BODY
(21) EP15897299.2	SI, Hui	FROM FUNCTIONAL LAYER THEREON
(47) 30.08.2023	LIU, Taixiang	(73) Hu, Bing
(87) US2015038191	WANG, Yunfei	(72) HU, Bing
05.01.2017	LONG, Haohui	PEI, Xiaojiang
(22) 27.06.2015	HONG, Weiqiang	LIU, Sujuan
(54) METHOD TO FORM OHMIC	(51) H01L 21/67	MA, Liang
CONTACTS TO SEMICONDUCTORS	H01L 21/677	(31) 201510599390
USING QUANTIZED METALS	(11) EP3652777	(32) 18.09.2015
(73) INTEL Corporation	(21) EP18831077.5	(33) China
(72) CLENDENNING, Scott B.	(47) 30.08.2023	(51) H01L 21/78
LE, Van H.	(87) US2018041327	H01L 21/56
RIOS, Rafael	17.01.2019	H01L 23/31
KAVALIEROS, Jack T.	(22) 09.07.2018	H01L 23/485
DEWEY, Gilbert	(54) TRANSPORT APPARATUS AND	(11) EP3444838
CHU-KUNG, Benjamin	ADAPTER PENDANT	(21) EP18184165.1
(51) H01L 21/335	(73) Brooks Automation US, LLC	(47) 30.08.2023
H01L 21/44	(72) ATWOOD, Dana, L.	(22) 18.07.2018
(11) EP2988335	MOURA, Jairo, T.	(54) SEMICONDUCTOR PACKAGE
(21) EP13844527.5	(31) 201816029320	INCLUDING A SEMICONDUCTOR DIE
(47) 30.08.2023	201762531218 P	WHOSE FACES ARE ALL COVERED
(87) CN2013078701	(32) 06.07.2018	WITH MOLDING MATERIAL AND
25.09.2014	11.07.2017	RELATED METHODS
(22) 02.07.2013	(33) United States of America	(73) Semiconductor Components Industries,
(54) METHOD FOR MANUFACTURING A	United States of America	LLC
THIN FILM TRANSISTOR	(51) H01L 21/673	(72) KUROSE, Eiji
(73) BOE Technology Group Co., Ltd.	(11) EP3916765	(31) 201715679661
(72) WANG, Gang	(21) EP21176281.0	(32) 17.08.2017
XUE, Jianshe	(47) 30.08.2023	(33) United States of America
LIU, Xiang	(22) 27.05.2021	(51) H01L 23/36
(31) 201310092496	(54) DEVICE FOR HOLDING WAFERS,	H01L 23/482
(32) 21.03.2013	ESPECIALLY SILICON WAFERS	H01L 23/367
(33) China	(73) Commissariat à l'énergie atomique et aux	H01L 23/12
(51) H01L 21/48	énergies alternatives	(11) EP3855486
H01L 23/473	(72) BOUTRY, Delphine	(21) EP18940342.1
(11) EP3997730	LARDIN, Thierry	(47) 30.08.2023
(21) EP20739312.5	AUTILLO, Delphine	(87) JP2018041998
(47) 30.08.2023	ENYEDI, Virginie	22.05.2020
(87) EP2020069049	(31) 2005671	(22) 13.11.2018
14.01.2021	(32) 29.05.2020	(54) HIGH-FREQUENCY AMPLIFIER
(22) 07.07.2020	(33) France	AND HIGH-FREQUENCY AMPLIFIER
(54) METHOD FOR PRODUCING A	(51) H01L 21/68	MODULE
COOLING ELEMENT, AND COOLING	(11) EP3082155	(73) Mitsubishi Electric Corporation
ELEMENT PRODUCED USING SUCH A	(21) EP16164777.1	(72) KUWATA, Eigo
METHOD	(47) 30.08.2023	SHINJO, Shintaro
(73) Rogers Germany GmbH	(22) 11.04.2016	KAMIOKA, Jun
Trumpf Photonics, Inc.	(54) SUBSTRATE PROCESSING	YAMAGUCHI, Yutaro
(72) GOTTDIENER, Mark	APPARATUS AND SUBSTRATE	(51) H01L 23/36
WIESEND, Johannes	PROCESSING METHOD	H05K 7/20
VETHAKE, Thilo	(73) EBARA CORPORATION	H01L 23/373
SCHWEIGER, Heiko	(72) KASHIWAGI, Makoto	(11) EP4020543
MACHER, Michael	ISHII, Yu	(21) EP20869225.1
(31) 102019118835	DU, Fong-Jie	(47) 30.08.2023
(32) 11.07.2019	(31) 2016034548	(87) JP2020035909
(33) Germany	2015082882	01.04.2021
(51) H01L 21/66	(32) 25.02.2016	(22) 24.09.2020
G01R 31/08	14.04.2015	(54) HEAT DISSIPATION SHEET, HEAT
(11) EP3413065	(33) Japan	DISSIPATION SHEET LAYERED BODY,
(21) EP16920069.8	Japan	STRUCTURE, AND METHOD FOR

DISSIPATING HEAT FROM HEAT-GENERATING ELEMENT	(31) 20190115574	(21) EP18739167.7
(73) Denka Company Limited	(32) 19.09.2019	(47) 30.08.2023
(72) WADA, Kosuke	(33) Korea (Republic)	(87) US2018013455
KANEKO, Masahide	(51) H01L 25/075	19.07.2018
NONOGAKI, Ryoza	H01L 33/50	(22) 12.01.2018
(31) 2019173941	F21S 2/00	(54) THYRISTOR AND THERMAL SWITCH DEVICE AND ASSEMBLY TECHNIQUES THEREFOR
(32) 25.09.2019	F21W 131/405	(73) Littelfuse, Inc.
(33) Japan	F21Y 115/10	(72) YOSHIMOTO, Koichiro
(51) H01L 23/473	H05B 45/20	(31) 201715406065
(11) EP3772096	(11) EP4024454	(32) 13.01.2017
(21) EP19189229.8	(21) EP21214379.6	(33) United States of America
(47) 30.08.2023	(47) 30.08.2023	(51) H01L 27/12
(22) 30.07.2019	(22) 28.10.2015	(11) EP4004981
(54) COOLER BODY	(54) WHITE LIGHT SOURCE SYSTEM	(21) EP19933209.9
(73) BRUSA Elektronik AG	(73) Seoul Semiconductor Co., Ltd.	(47) 30.08.2023
(72) Wendelspiess, Ueli	(72) KOBAYASHI, Kumpei	(87) CN2019098622
(51) H01L 25/07	YAGI, Noriaki	04.02.2021
H01L 23/495	YAMAKAWA, Masahiko	(22) 31.07.2019
(11) EP3499569	(31) 2014219532	(54) ARRAY SUBSTRATE, DISPLAY APPARATUS, AND METHOD OF FABRICATING ARRAY SUBSTRATE
(21) EP18212957.7	(32) 28.10.2014	(73) BOE Technology Group Co., Ltd.
(47) 30.08.2023	(33) Japan	(72) CHEN, Liang
(22) 17.12.2018	(51) H01L 25/075	XUAN, Minghua
(54) THIN PROFILE POWER SEMICONDUCTOR DEVICE PACKAGE HAVING FACE-TO-FACE MOUNTED DICE AND NO INTERNAL BONDWIRES	H01L 33/58	LIU, Dongni
(73) Littelfuse, Inc.	(11) EP3531451	(51) H01L 27/144
(72) ZOMMER, Nathan	(21) EP19159052.0	(11) EP3836214
(31) 201715845155	(47) 30.08.2023	(21) EP20211413.8
(32) 18.12.2017	(22) 25.02.2019	(47) 30.08.2023
(33) United States of America	(54) RGB-LED PACKAGING MODULES AND DISPLAY SCREEN FORMED THEREOF	(22) 03.12.2020
(51) H01L 25/075	(73) Shandong Jierunhong Optoelectronics Co., Ltd.	(54) LIGHT SENSOR
G01R 31/26	(72) Kong, Yiping	(73) STMICROELECTRONICS SA
H01L 33/00	Sun, Changhui	STMICROELECTRONICS Crolles 2 SAS
G09G 3/00	Li, Shaoli	(72) MONFRAY, Stéphane
G09G 3/3233	(31) 201820271395 U	LE NEEL, Olivier
H01L 33/62	201820271614 U	(31) 1914079
(11) EP3772752	201820275846 U	(32) 10.12.2019
(21) EP20187510.1	(32) 26.02.2018	(33) France
(47) 30.08.2023	26.02.2018	(51) H01L 27/146
(22) 23.07.2020	26.02.2018	(11) EP3425900
(54) DISPLAY APPARATUS AND MANUFACTURING METHOD THEREOF	(33) China	(21) EP17759638.4
(73) Samsung Electronics Co., Ltd.	China	(47) 30.08.2023
(72) SHIN, Sangmin	(51) H01L 25/11	(87) JP2017005202
KIM, Jinho	H01L 25/18	08.09.2017
JUNG, Youngki	H01L 23/538	(22) 14.02.2017
KANG, Jihoon	H01L 23/36	(54) SOLID-STATE IMAGING ELEMENT
(31) 20190097309	H01L 23/373	(73) Sony Group Corporation
(32) 09.08.2019	H02M 7/00	(72) MARUYAMA, Shunsuke
(33) Korea (Republic)	H05K 1/02	(31) 2016036770
(51) H01L 25/075	H05K 7/20	(32) 29.02.2016
H01L 33/00	H01L 23/485	(33) Japan
H01L 23/00	(11) EP3107120	(51) H01L 27/146
H01L 21/683	(21) EP16171741.8	(11) EP3598498
(11) EP3796382	(47) 30.08.2023	(21) EP18183652.9
(21) EP20170805.4	(22) 27.05.2016	(47) 30.08.2023
(47) 30.08.2023	(54) POWER SEMICONDUCTOR MODULE	(22) 16.07.2018
(22) 22.04.2020	(73) Delta Electronics Int'l (Singapore) Pte Ltd	(54) A PIXEL ARCHITECTURE AND AN IMAGE SENSOR
(54) DEVICE FOR SELF-ASSEMBLING SEMICONDUCTOR LIGHT-EMITTING DIODES	(72) Chen, Da-Jung	(73) IMEC vzw
(73) LG Electronics Inc.	Lai, Yiu-Wai	(72) SUSS, Andreas
(72) CHOI, Bongwoon	(31) 10201504271Y	ROSMEULEN, Maarten
JUNG, Imdeok	(32) 29.05.2015	(51) H01L 27/146
RHO, Junghun	(33) Singapore	(11) EP3662511
YANG, Inbum	(51) H01L 25/18	(21) EP18743543.3
	H01L 23/495	(47) 30.08.2023
	H02H 9/02	
	H01L 29/747	
	(11) EP3568874	

(87) EP2018070555 07.02.2019	(47) 30.08.2023	H01L 31/18
(22) 30.07.2018	(87) US2017012567 10.08.2017	(11) EP3783668
(54) IMPROVED INFRARED DETECTOR	(22) 06.01.2017	(21) EP19822415.6
(73) THALES Commissariat à l'Énergie Atomique et aux Énergies Alternatives	(54) VERTICALLY STACKED NANOWIRE FIELD EFFECT TRANSISTORS	(47) 30.08.2023
(72) DELGA, Alexandre REVERCHON, Jean-Luc	(73) Qualcomm Incorporated	(87) CN2019092374 26.12.2019
(31) 1700825	(72) BADAROGLU, Mustafa NOWAK, Matthew Michael	(22) 21.06.2019
(32) 03.08.2017	SONG, Stanley Seungchul	(54) CRYSTALLINE SILICON SOLAR CELL AND PREPARATION METHOD
(33) France	YANG, Da	THEREFOR, AND PHOTOVOLTAIC ASSEMBLY
(51) H01L 27/146	ZHU, John Jianhong	(73) Jingao Solar Co., Ltd.
(11) EP3640988	XU, Jeffrey Junhao	(72) JIANG, Xiulin
(21) EP19203195.3	YEAP, Choh Fei	XUE, Wenjuan
(47) 30.08.2023	BAO, Junjing	CHEN, Xiaoye
(22) 15.10.2019	MACHKAOUTSAN, Vladimir	YIN, Haipeng
(54) PHOTOELECTRIC CONVERSION APPARATUS AND EQUIPMENT INCLUDING THE SAME	(31) 201615097142 201662289819 P	(31) 201811223037 201810649228 201810649226
(73) CANON KABUSHIKI KAISHA	(32) 12.04.2016	(32) 19.10.2018
(72) YOMORI, Mitsuhiro KAWANO, Akihiro	01.02.2016	22.06.2018
SUZUKI, Sho	(33) United States of America United States of America	22.06.2018
OGAWA, Toshiyuki	(51) H01L 29/66	(33) China
SUZUKI, Yukinobu	H03K 17/687	China
OKABE, Takehito	H01L 29/78	China
TANGE, Tsutomu	H01L 29/423	(51) H01L 31/036
(31) 2019126403	H01L 21/336	H01L 31/056
2019036672	H01L 29/16	H01L 31/077
2019025790	(11) EP2932531	H01L 31/08
2018196075	(21) EP13798512.3	H01L 31/09
(32) 05.07.2019	(47) 30.08.2023	H01L 31/10
28.02.2019	(87) US2013070522	H01L 31/101
15.02.2019	19.06.2014	H01L 31/102
17.10.2018	(22) 18.11.2013	H01L 31/103
(33) Japan	(54) INSULATED GATE FIELD-EFFECT TRANSISTOR DEVICE AND METHOD OF MAKING THE SAME	(11) EP3864707
Japan	(73) General Electric Company	(21) EP19873326.3
Japan	(72) MATOCHA, Kevin, Sean	(47) 30.08.2023
Japan	BOLOTNIKOV, Alexander, Viktorovich	(87) US2019056685 23.04.2020
(51) H01L 27/15	RAO, Ramakrishna	(22) 17.10.2019
H01L 33/08	LOSEE, Peter, Almern	(54) PIN PHOTODETECTOR
H01L 33/10	ARTHUR, Stephen, Daley	(73) Attollo Engineering, LLC
H01L 33/38	(31) 201213712188	(72) GESKE, Jonathan
H01L 33/46	(32) 12.12.2012	MACDOUGAL, Michael
(11) EP3648164	(33) United States of America	HOOD, Andrew
(21) EP17915818.3	(51) H01L 29/872	(31) 201816166016
(47) 30.08.2023	H01L 29/06	(32) 19.10.2018
(87) KR2017007084	H01L 29/16	(33) United States of America
03.01.2019	(11) EP3240043	(51) H01L 31/101
(22) 04.07.2017	(21) EP17176898.9	H01L 31/18
(54) DISPLAY DEVICE USING SEMICONDUCTOR LIGHT EMITTING ELEMENT	(47) 30.08.2023	(11) EP4078690
(73) LG Electronics Inc.	(22) 07.09.2012	(21) EP20833811.1
(72) CHANG, Younghak	(54) SCHOTTKY DIODE	(47) 30.08.2023
(31) 20170083703	(73) Wolfsped, Inc.	(87) EP2020086687 24.06.2021
(32) 30.06.2017	(72) AGARWAL, Anant Kumar	(22) 17.12.2020
(33) Korea (Republic)	HENNING, Jason Patrick	(54) RADIATION DETECTOR AND CORRESPONDING MANUFACTURING METHOD
(51) H01L 29/06	RYU, Sei-Hyung	(73) THALES Commissariat à l'Énergie Atomique et aux Énergies Alternatives
H01L 21/8234	PALMOUR, John Williams	(72) EVIRGEN, Axel
H01L 21/8238	ALLEN, Scott	REVERCHON, Jean-Luc
H01L 29/423	ZHANG, Qingchun	GARCIA, Michel
H01L 27/088	(31) 201113229749	PARILLAUD, Olivier
H01L 27/06	(32) 11.09.2011	GERARD, Bruno
H01L 21/822	(33) United States of America	(31) 1915024
(11) EP3411905	(51) H01L 31/0216	
(21) EP17701394.3	H01L 31/0224	
	H01L 31/0745	
	H01L 31/068	

(32) 20.12.2019	(22) 26.01.2007	(11) EP3553836
(33) France	(54) Light emitting diode having vertical topology	(21) EP17878835.2
(51) H01L 31/107	(73) LG Electronics Inc.	(47) 30.08.2023
H01L 31/02	LG Innotek Co., Ltd.	(87) JP2017040815
H01L 31/0352	(72) Jang, Jun Ho	14.06.2018
(11) EP3723143	Kim, Sun Jung	(22) 13.11.2017
(21) EP19168451.3	Lee, Jeong Soo	(54) OPTICAL SEMICONDUCTOR DEVICE
(47) 30.08.2023	Cho, Hyun Kyong	(73) Nikkiso Co., Ltd.
(22) 10.04.2019	Choi, Jae Wan	(72) ICHINOKURA Hiroyasu
(54) PHOTODIODE WITH SENSITIVITY CONTROL USING A FURTHER DEPLETION REGION	Bae, Duk Kyu	NIIZEKI Shoichi
(73) STMicroelectronics (Research & Development) Limited	Park, Jong Kook	(31) 2016237607
(72) MOORE, John Kevin	(31) 20060093574	(32) 07.12.2016
(51) H01L 31/11	20060093465	(33) Japan
H01L 31/0296	20060057033	(51) H01M 4/04
H01L 31/101	(32) 26.09.2006	H01M 4/139
H01L 31/103	26.09.2006	H01M 4/36
H01L 31/18	23.06.2006	H01M 4/62
H01L 27/144	(33) Korea (Republic)	H01M 10/0525
(11) EP3738153	Korea (Republic)	H01M 4/02
(21) EP19700064.9	Korea (Republic)	(11) EP3335260
(47) 30.08.2023	(51) H01L 33/02	(21) EP17831258.3
(87) EP2019050158	H01L 33/16	(47) 30.08.2023
11.07.2019	H01L 33/00	(87) KR2017007331
(22) 04.01.2019	H01L 25/075	25.01.2018
(54) A DUAL BAND PHOTODIODE ELEMENT AND METHOD OF MAKING THE SAME	H01L 33/20	(22) 07.07.2017
(73) Leonardo UK Ltd	(11) EP3819941	(54) METHOD OF PREPARING ELECTRODE FOR LITHIUM SECONDARY BATTERY AND ELECTRODE FOR LITHIUM SECONDARY BATTERY PREPARED THEREBY
(72) BAINS, Sudesh	(21) EP18925222.4	(73) LG Energy Solution, Ltd.
HIPWOOD, Les	(47) 30.08.2023	(72) LEE, Sol Nip
(31) 201800275	(87) KR2018007833	CHOI, Young Geun
(32) 08.01.2018	09.01.2020	OH, Song Taek
(33) United Kingdom	(22) 11.07.2018	(31) 20160090525
(51) H01L 33/00	(54) DISPLAY APPARATUS USING SEMICONDUCTOR LIGHT-EMITTING DEVICE	(32) 18.07.2016
H01L 33/16	(73) LG Electronics, Inc.	(33) Korea (Republic)
H01L 27/15	(72) JUNG, Yeonhong	(51) H01M 4/04
H01L 33/12	CHANG, Younghak	H01M 4/36
H01L 25/16	KIM, Jungsub	H01M 4/485
(11) EP4020604	KIM, Myoungsoo	H01M 4/505
(21) EP21216425.5	(31) 20180077924	H01M 4/62
(47) 30.08.2023	(32) 04.07.2018	H01M 10/0525
(22) 21.12.2021	(33) Korea (Republic)	H01M 4/02
(54) METHOD FOR MANUFACTURING AN OPTOELECTRONIC DEVICE COMPRISING GROUP III NITRIDE-BASED MICRO LIGHT-EMITTING DIODES	(51) H01L 33/58	H01M 4/525
(73) Commissariat à l'Energie Atomique et aux Energies Alternatives	H01L 23/28	(11) EP3537521
Centre national de la recherche scientifique	F21Y 115/10	(21) EP17873724.3
(72) FEUILLET, Guy	H01L 33/50	(47) 30.08.2023
ZUNIGA PEREZ, Jesus	H01L 33/54	(87) CN2017093010
TEMPLIER, François	H01L 33/60	31.05.2018
VENNEGUES, Philippe	F21V 3/00	(22) 14.07.2017
(31) 2013978	F21V 3/08	(54) LITHIUM COBALT OXIDE POSITIVE ELECTRODE MATERIAL AND PREPARATION METHOD THEREFOR AND LITHIUM ION SECONDARY BATTERY
(32) 22.12.2020	H01L 33/46	(73) Huawei Technologies Co., Ltd.
(33) France	(11) EP3905316	(72) LI, Yangxing
(51) H01L 33/00	(21) EP20888083.1	LEI, Dan
H01L 33/20	(47) 30.08.2023	(31) 201710482648
H01L 33/22	(87) JP2020014440	201611064959
H01L 33/40	20.05.2021	(32) 22.06.2017
(11) EP2458653	(22) 30.03.2020	28.11.2016
(21) EP12156524.6	(54) LIGHT-EMITTING DEVICE	(33) China
(47) 30.08.2023	(73) Nuvoton Technology Corporation Japan	China
	(72) HAYASHI, Shigeo	(51) H01M 4/04
	OBARA, Masami	H01M 10/04
	(31) 2019206153	
	(32) 14.11.2019	
	(33) Japan	
	(51) H01L 33/62	
	H01L 23/02	
	H01L 33/48	

H01M 4/02	BATTERY AND NONAQUEOUS	H01M 10/0525
B21D 5/01	ELECTROLYTE BATTERY	(11) EP3540827
B21D 11/10	(73) Kabushiki Kaisha Toshiba	(21) EP18192667.6
B21D 11/20	(72) WATANABE, Yuki	(47) 30.08.2023
B21D 53/00	KANO, Tetsuro	(22) 05.09.2018
H01M 10/0585	YAMAMOTO, Dai	(54) ELECTRODE, SECONDARY BATTERY,
(11) EP3490048	(31) 2017214994	BATTERY PACK, AND VEHICLE
(21) EP18836156.2	(32) 07.11.2017	(73) Kabushiki Kaisha Toshiba
(47) 30.08.2023	(33) Japan	(72) Takami, Norio
(87) KR2018008040	(51) H01M 4/13	Harada, Yasuhiro
24.01.2019	H01M 4/62	Sasakawa, Tetsuya
(22) 16.07.2018	H01M 50/417	(31) 2018162796
(54) ELECTRODE ASSEMBLY	H01M 50/42	2018047152
PREPARATION METHOD	H01M 50/44	(32) 31.08.2018
(73) LG Energy Solution, Ltd.	H01M 50/449	14.03.2018
(72) JEONG, Ji Won	H01M 50/46	(33) Japan
SHIN, Byung Heon	H01M 10/052	Japan
KIM, Hyun Tae	(11) EP3605652	(51) H01M 4/36
(31) 20180078967	(21) EP18774231.7	H01M 4/38
20170091032	(47) 30.08.2023	H01M 10/05
(32) 06.07.2018	(87) JP2018011161	H01M 4/134
18.07.2017	04.10.2018	H01M 4/62
(33) Korea (Republic)	(22) 20.03.2018	C01F 17/265
Korea (Republic)	(54) COMPOSITION FOR NON-AQUEOUS	C01F 17/36
(51) H01M 4/13	SECONDARY BATTERY FUNCTIONAL	H01M 4/1395
H01M 4/38	LAYER, FUNCTIONAL LAYER FOR	(11) EP3555940
H01M 4/62	NON-AQUEOUS SECONDARY	(21) EP17880278.1
H01M 10/052	BATTERY, AND NON-AQUEOUS	(47) 30.08.2023
H01M 10/0565	SECONDARY BATTERY	(87) US2017066800
H01M 10/0568	(73) Zeon Corporation	21.06.2018
H01M 4/136	(72) SUGIMOTO Takumi	(22) 15.12.2017
H01M 4/40	ARAI Kenji	(54) COMPOSITE ELECTRODE
H01M 4/58	KANEDA Takuya	MATERIALS FOR FLUORIDE-ION
(11) EP3714499	(31) 2017072476	ELECTROCHEMICAL CELLS
(21) EP18827174.6	(32) 31.03.2017	(73) California Institute of Technology
(47) 30.08.2023	(33) Japan	Honda Motor Co., Ltd.
(87) FR2018052897	(51) H01M 4/13	(72) DAROLLES, Isabelle M.
23.05.2019	H01M 10/42	JONES, Simon C.
(22) 19.11.2018	H01M 4/62	OMICHI, Kaoru
(54) USE OF LITHIUM NITRATE AS SINGLE	H01M 4/58	BROOKS, Christopher
LITHIUM SALT IN A GELIFIED LITHIUM	H01M 4/525	TAN, Hongjin
BATTERY	H01M 4/505	XU, Qingmin
(73) Blue Solutions	H01M 10/052	MCKENNEY, Ryan
(72) LECUYER, Margaud	H01M 4/131	CHOU, Nam Hawn
DESCHAMPS, Marc	H01M 4/136	(31) 201762453295 P
(31) 1760904	H01M 4/36	201662434611 P
(32) 20.11.2017	H01M 10/0525	(32) 01.02.2017
(33) France	(11) EP3547405	15.12.2016
(51) H01M 4/13	(21) EP18838621.3	(33) United States of America
H01M 4/62	(47) 30.08.2023	United States of America
H01M 4/139	(87) KR2018008043	(51) H01M 4/485
H01M 4/485	31.01.2019	H01M 4/505
H01M 4/505	(22) 16.07.2018	H01M 4/66
H01M 4/525	(54) SECONDARY BATTERY CATHODE	H01M 10/36
H01M 10/0525	AND LITHIUM SECONDARY BATTERY	(11) EP3432391
H01M 10/052	COMPRISING SAME	(21) EP18180126.7
H01M 4/131	(73) LG Energy Solution, Ltd.	(47) 30.08.2023
H01M 4/1391	(72) KIM, Kyung Min	(22) 27.06.2018
H01M 4/02	CHOI, Jung Seok	(54) AQUEOUS LITHIUM ION SECONDARY
(11) EP3709397	OH, Song Taek	BATTERY
(21) EP18876028.4	LEE, Kyung Min	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
(47) 30.08.2023	(31) 20170096436	(72) NAKAYAMA, Hideki
(87) JP2018041197	(32) 28.07.2017	SUYAMA, Hiroshi
16.05.2019	(33) Korea (Republic)	(31) 2017139353
(22) 06.11.2018	(51) H01M 4/131	(32) 18.07.2017
(54) POSITIVE ELECTRODE FOR	H01M 4/50	(33) Japan
NONAQUEOUS ELECTROLYTE	H01M 4/52	(51) H01M 4/525
	H01M 4/62	C01G 53/00

H01M 4/505	LEE, Yeonju	G06Q 10/00
H01M 4/131	LEE, Jehoon	H01M 8/04664
H01M 10/0525	CHAE, Jonghyun	H01M 8/04992
(11) EP3678235	(31) 20170126604	(11) EP3633777
(21) EP18878879.8	(32) 28.09.2017	(21) EP18808945.2
(47) 30.08.2023	(33) Korea (Republic)	(47) 30.08.2023
(87) JP2018042817	(51) H01M 8/0228	(87) JP2018020755
23.05.2019	H01M 8/0254	06.12.2018
(22) 20.11.2018	H01M 8/0297	(22) 30.05.2018
(54) POSITIVE-ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, POSITIVE ELECTRODE FOR LITHIUM SECONDARY BATTERY, AND LITHIUM SECONDARY BATTERY	(22) 04.03.2019	(54) EQUIPMENT MANAGEMENT METHOD AND EQUIPMENT MANAGEMENT DEVICE
(73) Sumitomo Chemical Company, Limited	(11) EP3540839	(73) Kyocera Corporation
Tanaka Chemical Corporation	(21) EP19160471.9	(72) AIKAWA, Shinji
(72) KAGEURA Jun-ichi	(47) 30.08.2023	(31) 2017106299
KOBAYASHI Ryota	(54) SEPARATOR ASSEMBLY FOR FUEL CELL AND METHOD FOR MANUFACTURING SEPARATOR ASSEMBLY FOR FUEL CELL	(32) 30.05.2017
(31) 2017222627	(73) Toyota Shatai Kabushiki Kaisha	(33) Japan
(32) 20.11.2017	(72) HASHIBA, Michi	(51) H01M 8/04014
(33) Japan	MOROZUMI, Eiichiro	C25B 1/04
(51) H01M 4/525	SUZUKI, Takayuki	H01M 8/04119
H01M 4/505	(31) 2018045720	H01M 8/0656
H01M 10/0525	(32) 13.03.2018	H01M 16/00
H01M 4/131	(33) Japan	(11) EP3686979
(11) EP2973802	(51) H01M 8/0254	(21) EP20152771.0
(21) EP14779272.5	H01M 8/0258	(47) 30.08.2023
(47) 30.08.2023	H01M 8/1018	(2) 21.01.2020
(87) US2014023810	H01M 8/0256	(54) FUEL CELL ARRANGEMENT WITH A FLUIDIZED TUBE, FUEL CELL SYSTEM AND VEHICLE COMPRISING A FUEL CELL ARRANGEMENT
09.10.2014	H01M 8/2457	(73) Airbus Operations GmbH
(22) 11.03.2014	H01M 8/023	(72) Barnaby, Law
(54) HIGH VOLTAGE, HIGH VOLUMETRIC ENERGY DENSITY LI-ION BATTERY USING ADVANCED CATHODE MATERIALS	(11) EP3490045	(31) 102019101884
(73) Apple Inc.	(21) EP17834715.9	(32) 25.01.2019
(72) DAI, Hongli	(47) 30.08.2023	(33) Germany
WU, Huiming	(87) KR2017007937	(51) H01M 8/04082
JOHNSON, Christopher S.	01.02.2018	H01M 8/0432
(31) 201361777510 P	(22) 24.07.2017	H01M 8/24
(32) 12.03.2013	(54) SEPARATION PLATE, AND FUEL CELL STACK COMPRISING SAME	H01M 8/18
(33) United States of America	(73) LG Chem, Ltd.	(11) EP4189761
(51) H01M 4/62	(72) KANG, Kyung Mun	(21) EP21718077.7
H01M 10/0565	HAN, Sueng Hoon	(47) 30.08.2023
H01M 4/13	YANG, Jae Choon	(87) EP2021058989
H01M 10/052	JUNG, Hye Mi	10.02.2022
C08G 61/12	(31) 20160093977	(22) 07.04.2021
C08L 65/00	(32) 25.07.2016	(54) REDOX FLOW BATTERY WITH A MEASURING DEVICE
H01M 4/131	(33) Korea (Republic)	(73) Voith Patent GmbH
H01M 10/0525	(51) H01M 8/0273	(72) KRÜGER, Klaus
(11) EP3664199	H01M 8/242	LÜTH, Thomas
(21) EP18861536.3	H01M 8/1004	(31) 102020120428
(47) 30.08.2023	H01M 8/1018	(32) 03.08.2020
(87) KR2018007895	(11) EP3799175	(33) Germany
04.04.2019	(21) EP20194669.6	(51) H01M 8/04111
(22) 12.07.2018	(47) 30.08.2023	H01M 8/0438
(54) LITHIUM SECONDARY BATTERY POLYMER MATERIAL AND MANUFACTURING METHOD THEREFOR	(22) 04.09.2020	H01M 8/04537
(73) LG Energy Solution, Ltd.	(54) FUEL-CELL UNIT CELL	H01M 8/04746
Seoul National University R&DB Foundation	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	H01M 8/04828
(72) KIM, Lucia	(72) NONOYAMA, Nobuaki	(11) EP3771008
LEE, Jong-Chan	(31) 2019179653	(21) EP20185112.8
KIM, Daeil	(32) 30.09.2019	(47) 30.08.2023
JEONG, Daun	(33) Japan	(22) 10.07.2020
KIM, Na Kyung	(51) H01M 8/04	(54) FUEL CELL SYSTEM
	H01M 8/00	(73) Kabushiki Kaisha Toyota Jidoshokki
	H02J 3/38	(72) OKAZAKI, Kazuki
	H02J 13/00	SUZUKI, Junya
	H01M 8/10	MORI, Hidefumi
	H01M 8/12	(31) 2019136160

(32) 24.07.2019	(22) 28.01.2020	(21) EP16853532.6
(33) Japan	(54) ANODE LAYER AND ALL SOLID STATE BATTERY	(47) 30.08.2023
(51) H01M 8/18	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	(87) JP2016079300
(11) EP4165708	(72) TOMITA, Masataka	(22) 03.10.2016
(21) EP21730814.7	MIZUTANI, Satoshi	(54) SODIUM-SULFUR BATTERY
(47) 30.08.2023	HASEGAWA, Hajime	(73) Yugenkaisha Chuseigiken
(87) EP2021064331	NISHIMURA, Hideaki	(72) OHKAWA, Hiroshi
16.12.2021	HAMA, Shigenori	(31) 2015198381
(22) 28.05.2021	(31) 2019018660	(32) 06.10.2015
(54) REDOX-FLOW BATTERY AND OPERATING METHOD	(32) 05.02.2019	(33) Japan
(73) Voith Patent GmbH	(33) Japan	(51) H01M 10/42
(72) KRÜGER, Klaus	(51) H01M 10/0525	H01M 10/48
LÜTH, Thomas	H01M 10/0585	G01R 31/364
(31) 102020115385	H01M 10/48	G01R 31/36
(32) 10.06.2020	H01M 10/42	G01R 31/392
(33) Germany	H01M 50/55	G01R 31/3835
(51) H01M 8/18	H01M 50/553	G01R 31/367
H01M 8/2465	H01M 50/562	G01R 31/3828
H01M 8/0254	H01M 10/0566	G01R 31/3842
H01M 8/026	H01M 50/103	G01R 31/389
H01M 8/04276	(11) EP2833431	G01R 31/396
(11) EP3580802	(21) EP13768708.3	(11) EP3678256
(21) EP18706223.7	(47) 30.08.2023	(21) EP19796548.6
(47) 30.08.2023	(87) JP2013058327	(47) 30.08.2023
(87) EP2018053357	03.10.2013	(87) KR2019003523
16.08.2018	(22) 22.03.2013	07.11.2019
(22) 09.02.2018	(54) TEST BATTERY CASE AND TEST BATTERY	(22) 26.03.2019
(54) FLOW-BY ELECTRODE UNIT AND USE THEREOF, REDOX FLOW BATTERY SYSTEM AND USE THEREOF, METHOD OF MANUFACTURING A FLOW-BY ELECTRODE UNIT, METHOD OF OPERATING A REDOX FLOW BATTERY SYSTEM	(73) Eliiy Power Co., Ltd.	(54) APPARATUS AND METHOD FOR TESTING SECONDARY BATTERY
(73) CMBlu Energy AG	(72) HARA, Tomitaro	(73) LG Energy Solution, Ltd.
(72) KERKER, Steffen	SAWANISHI, Keisuke	(72) YOON, Dong-Sik
GEIGLE, Peter	(31) 2012081199	LEE, Jin-Kyu
STRAUB, Wolfgang	(32) 30.03.2012	(31) 20180050119
KRAWCZYK, Nastaran	(33) Japan	(32) 30.04.2018
(31) PCT/EP2017/000187	(51) H01M 10/0565	(33) Korea (Republic)
(32) 10.02.2017	H01M 10/056	(51) H01M 10/42
(33) World Intellectual Property Office (WIPO)	H01M 4/13	H02J 7/00
(51) H01M 10/04	H01M 4/62	H01M 10/44
H01M 50/209	H01M 10/052	B25B 21/00
H01M 50/211	C08L 71/12	H02J 9/00
(11) EP3945618	H01M 10/0525	B25F 5/00
(21) EP21188678.3	H01M 10/0567	H01M 50/202
(47) 30.08.2023	H01M 10/0569	H01M 50/247
(22) 30.07.2021	(11) EP3627608	(11) EP3659202
(54) CONTENTION DEVICE AND METHOD FOR A PRISMATIC ELECTROCHEMICAL ACCUMULATOR MODULE	(21) EP18828572.0	(21) EP18753064.7
(73) Commissariat à l'énergie atomique et aux énergies alternatives	(47) 30.08.2023	(47) 30.08.2023
(72) MARTIN, Pascal	(87) KR2018007529	(87) EP2018069857
DE PAOLI, Lionel	10.01.2019	31.01.2019
(31) 2008215	(22) 03.07.2018	(22) 23.07.2018
(32) 31.07.2020	(54) POLYMER ELECTROLYTE FOR SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY COMPRISING THE SAME	(54) BYPASS SWITCH ON AN ACCUMULATOR
(33) France	(73) LG Energy Solution, Ltd.	(73) Hilti Aktiengesellschaft
(51) H01M 10/052	(72) HAN, Joong Jin	(72) CANDUSSIO, Michael
H01M 10/0562	JANG, Yong Jin	HAUSER, Klaus
H01M 4/485	KIM, Young Jea	FORSTNER, Markus
H01M 4/02	LEE, Chul Haeng	KOSCHECK, David
(11) EP3694034	PARK, Sol Ji	MAYER, Stefan
(21) EP20154000.2	AHN, Kyoung Ho	(31) 17183450
(47) 30.08.2023	(31) 20170086056	(32) 27.07.2017
	(32) 06.07.2017	(33) European Patent Office (EPO)
	(33) Korea (Republic)	(51) H01M 10/48
	(51) H01M 10/39	G01R 31/74
	H01M 4/38	G01R 31/327
	H01M 4/02	G01R 31/36
	(11) EP3361549	G01N 21/00
		G01N 21/59
		(11) EP3336956

<p>(21) EP16203925.9 (47) 30.08.2023 (22) 14.12.2016 (54) METHOD FOR MONITORING A DISCHARGE DEVICE OF A BATTERY (73) GS Yuasa International Ltd. Robert Bosch GmbH (72) Klinsmann, Markus Deromelaere, Gaetan Liebenow, Cornelius</p> <hr/> <p>(51) H01M 10/54 H01M 4/13 H01M 4/62 B02C 23/14 B07B 13/04 B07B 1/28 B02C 13/24 B02C 13/284 (11) EP3940872 (21) EP20851987.6 (47) 30.08.2023 (87) KR2020009260 18.02.2021 (22) 14.07.2020 (54) METHOD FOR RECYCLING ELECTRODE SCRAPS, AND METHOD FOR MANUFACTURING ELECTRODE BY USING SAME (73) LG Energy Solution, Ltd. (72) LIM, Jun-Muk SONG, Hee-Seok JANG, Seong-Keun CHOY, Sang-Hoon BAEK, Joo-Yul KIM, Woo-Ha (31) 20190098995 (32) 13.08.2019 (33) Korea (Republic)</p> <hr/> <p>(51) H01M 10/625 H01M 50/209 H01M 10/647 H01M 10/6557 H01M 50/249 H01M 50/503 H01M 10/613 (11) EP3346517 (21) EP17150260.2 (47) 30.08.2023 (22) 04.01.2017 (54) BATTERY SYSTEM (73) Samsung SDI Co., Ltd (72) AMREICH, Werner HOCHGATTERER, Nikolaus STOJANOVIC, Oliver WÜNSCHE, Ralph KRIEGER, Horst</p> <hr/> <p>(51) H01M 10/653 H01M 10/6562 H01M 10/643 H01M 10/613 H01M 10/6551 H01M 10/655 (11) EP3686986 (21) EP19859454.1 (47) 30.08.2023 (87) KR2019008157 19.03.2020 (22) 03.07.2019</p>	<p>(54) BATTERY MODULE AND BATTERY PACK INCLUDING THE SAME (73) LG Energy Solution, Ltd. (72) LEE, Suk-Hoon LEE, Tae-Gyu CHOI, Bum (31) 20180109209 (32) 12.09.2018 (33) Korea (Republic)</p> <hr/> <p>(51) H01M 10/653 H01M 50/207 H01M 50/20 (11) EP3792992 (21) EP19885255.0 (47) 30.08.2023 (87) KR2019014012 22.05.2020 (22) 23.10.2019 (54) BATTERY MODULE COMPRISING MODULE HOUSING (73) LG Energy Solution, Ltd. (72) LEE, Seung-Yoon CHOI, Yong-Seok KIM, Yong-Il (31) 20180138449 (32) 12.11.2018 (33) Korea (Republic)</p> <hr/> <p>(51) H01M 50/183 H01M 50/184 H01M 50/191 (11) EP3772121 (21) EP19203124.3 (47) 30.08.2023 (22) 14.10.2019 (54) ELECTRICITY SUPPLY SYSTEM AND PACKAGE STRUCTURE THEREOF (73) Prologium Holding Inc. Prologium Technology Co., Ltd. (72) YANG, Szu-Nan (31) 201916530513 (32) 02.08.2019 (33) United States of America</p> <hr/> <p>(51) H01M 50/204 H01M 50/209 (11) EP3852187 (21) EP20873377.4 (47) 30.08.2023 (87) CN2020125816 27.05.2021 (22) 02.11.2020 (54) BATTERY PACK AND VEHICLE (73) Contemporary Amperex Technology Co., Limited (72) HUANG, Haihua ZHU, Tingting (31) 201911133282 (32) 19.11.2019 (33) China</p> <hr/> <p>(51) H01M 50/207 H01M 50/249 H01M 50/35 H01M 50/358 H01M 10/6555 H01M 10/6556 (11) EP4047730 (21) EP21157611.1 (47) 30.08.2023 (22) 17.02.2021</p>	<p>(54) BATTERY SYSTEM AND VEHICLE INCLUDING THE BATTERY SYSTEM (73) Samsung SDI Co., Ltd. (72) Erhart, Michael Krabberger, Gernot Reinprecht, Wolfgang</p> <hr/> <p>(51) H01M 50/209 H01M 50/264 H01M 50/242 (11) EP3614453 (21) EP18855368.9 (47) 30.08.2023 (87) KR2018008090 21.03.2019 (22) 17.07.2018 (54) BATTERY MODULE AND BATTERY PACK INCLUDING SAME (73) LG Energy Solution, Ltd. (72) KIM, Dong-Yeon KONG, Jin-Hak CHOI, Yong-Seok CHOI, Jee-Soon (31) 20170119764 (32) 18.09.2017 (33) Korea (Republic)</p> <hr/> <p>(51) H01M 50/211 H01M 50/244 H01M 50/247 H01M 50/298 (11) EP3900069 (21) EP19828442.4 (47) 30.08.2023 (87) US2019064560 25.06.2020 (22) 04.12.2019 (54) ELECTRICAL BATTERY DE-BONDING (73) Microsoft Technology Licensing, LLC (72) YODER, Gregory S. BOWERS, Scott Douglas OWEN, Craig D. (31) 201816222729 (32) 17.12.2018 (33) United States of America</p> <hr/> <p>(51) H01M 50/211 H01M 50/264 H01M 50/271 F16B 5/02 H01M 50/105 (11) EP3522255 (21) EP18835416.1 (47) 30.08.2023 (87) KR2018007897 24.01.2019 (22) 12.07.2018 (54) BATTERY MODULE, BATTERY PACK AND VEHICLE INCLUDING THE SAME (73) LG Energy Solution, Ltd. (72) JIN, Hee-Jun JU, Eun-Ah SEO, Sung-Won LEE, Yoon-Koo MUN, Jeong-O (31) 20170091025 (32) 18.07.2017 (33) Korea (Republic)</p> <hr/> <p>(51) H01M 50/211 H01M 50/293 H01M 10/617</p>
--	---	---

H01M 10/6554	H01M 50/449	(51) H01P 1/203
H01M 10/647	H01M 10/24	H01P 11/00
(11) EP3686987	B32B 5/24	G06N 10/00
(21) EP19831022.9	(11) EP3306706	(11) EP3861588
(47) 30.08.2023	(21) EP16803307.4	(21) EP19773415.5
(87) KR2019008118	(47) 30.08.2023	(47) 30.08.2023
09.01.2020	(87) JP2016065911	(87) EP2019075302
(22) 03.07.2019	08.12.2016	09.04.2020
(54) BATTERY MODULE	(22) 30.05.2016	(22) 20.09.2019
(73) LG Energy Solution, Ltd.	(54) ANION CONDUCTING MEMBRANE	(54) REDUCED KAPITZA RESISTANCE
(72) AHN, Moon Youl	(73) Nippon Shokubai Co., Ltd.	MICROWAVE FILTER FOR
(31) 20180077325	(72) HARADA, Hiroko	CRYOGENIC ENVIRONMENTS
(32) 03.07.2018	AKUTAGAWA, Hironobu	(73) International Business Machines
(33) Korea (Republic)	OGAWA, Satoshi	Corporation
(51) H01M 50/216	TAKAZAWA, Yasuyuki	(72) GUMANN, Patryk
H01M 50/247	KIKUCHI, Keisuke	OLIVADESE, Salvatore Bernardo
(11) EP3540810	TOKUSHIMA, Hiroki	(31) 201816149837
(21) EP19160851.2	(31) 2015213143	(32) 02.10.2018
(47) 30.08.2023	2015147117	(33) United States of America
(22) 05.03.2019	2015113333	(51) H01P 1/205
(54) BATTERY COMPARTMENT COVER OF	(32) 29.10.2015	H01P 1/212
EQUIPMENT FOR UNDERWATER USE	24.07.2015	H01P 1/213
WITH CLOSURE DEVICE PROVIDED	03.06.2015	(11) EP3883050
WITH EXTERNAL FASTENINGS	(33) Japan	(21) EP18944687.5
(73) Cressi-Sub S.p.A.	Japan	(47) 30.08.2023
(72) PEDEMONTE, Stefano	Japan	(87) CN2018124006
(31) 201800003473	(51) H01P 1/17	02.07.2020
(32) 13.03.2018	H01P 5/103	(22) 26.12.2018
(33) Italy	H01Q 13/02	(54) DIELECTRIC FILTER, DUPLEXER, AND
(51) H01M 50/414	G01R 29/08	COMMUNICATION DEVICE
H01M 50/417	(11) EP3691034	(73) Huawei Technologies Co., Ltd.
H01M 50/426	(21) EP18881756.3	(72) LIANG, Dan
H01M 50/431	(47) 30.08.2023	ZHANG, Xiaofeng
H01M 50/434	(87) JP2018026712	CUI, Zheng
H01M 50/437	31.05.2019	(51) H01P 1/208
H01M 50/446	(22) 17.07.2018	H01P 1/30
H01M 50/451	(54) ANTENNA DEVICE, ANTENNA	H01P 11/00
H01M 50/457	SYSTEM, AND INSTRUMENTATION	(11) EP3893325
H01M 50/489	SYSTEM	(21) EP18944865.7
H01M 10/0525	(73) Morita Tech Co., Ltd.	(47) 30.08.2023
H01M 10/42	(72) OGURA Satoshi	(87) CN2018124755
H01M 10/0587	MORITA Osamu	02.07.2020
(11) EP3712983	SAEKI Akinori	(22) 28.12.2018
(21) EP19186637.5	(31) 2018091195	(54) TM MODE FILTER AND
(47) 30.08.2023	2017225644	MANUFACTURING METHOD
(22) 16.07.2019	(32) 10.05.2018	THEREFOR
(54) SEPARATOR AND	24.11.2017	(73) Huawei Technologies Co., Ltd.
ELECTROCHEMICAL DEVICE	(33) Japan	(72) YUAN, Bengui
(73) NingDe Ampere Technology Limited	Japan	LI, Jinyan
(72) ZHOU, Xinhui	(51) H01P 1/202	ZHOU, Puke
ZHANG, Xiaofeng	H01P 1/20	(51) H01P 1/22
(31) 201910205297	H01R 24/42	H01P 3/00
(32) 18.03.2019	H01R 24/54	H01P 3/08
(33) China	H04B 5/00	(11) EP3830893
(51) H01M 50/446	(11) EP3218976	(21) EP19749282.0
B32B 7/02	(21) EP15786886.0	(47) 30.08.2023
C08K 3/00	(47) 30.08.2023	(87) EP2019070121
C08L 101/00	(87) EP2015074000	30.01.2020
H01B 1/06	19.05.2016	(22) 25.07.2019
H01B 1/08	(22) 16.10.2015	(54) CRYOGENIC DEVICE WITH
H01B 1/10	(54) HIGH FREQUENCY CONNECTION	MULTIPLE TRANSMISSION LINES
H01B 1/12	ADAPTER WITH A DIELECTRIC	HAVING INTEGRATED MICROWAVE
H01M 4/13	COUPLING SLEEVE	ATTENUATOR
H01M 10/0565	(73) Phoenix Contact GmbH & Co. KG	(73) International Business Machines
H01M 10/28	(72) LILGE, Martin	Corporation
H01M 4/24	(31) 102014116724	(72) OLIVADESE, Salvatore, Bernardo
H01M 50/42	(32) 14.11.2014	SANDBERG, Martin
H01M 50/44	(33) Germany	ROZEN, James, Robert

GUMANN, Patryk	(47) 30.08.2023	(22) 30.09.2017
(31) 201816047516	(87) CN2017117245	(54) PERPENDICULAR END FIRE
(32) 27.07.2018	28.06.2018	ANTENNAS
(33) United States of America	(22) 19.12.2017	(73) Intel Corporation
(51) H01P 9/02	(54) ANTENNA, LIGHTING SYSTEM AND	(72) DALMIA, Sidharth
G02B 6/125	COMMUNICATION SYSTEM	THAI, Trang
G02B 6/24	(73) Huawei Technologies Co., Ltd.	SOVER, Raanan
G02B 6/134	(72) WANG, Sunjie	PERRY, Richard S.
(11) EP3414790	WANG, Jinsong	ASAF, Omer
(21) EP17788616.5	WANG, Qiang	HAGN, Josef
(47) 30.08.2023	YANG, Dong	JENSEN, Jonathan C.
(87) CN2017079758	YI, Xiongshu	(51) H01Q 1/27
02.11.2017	(31) 201611209335	A61J 3/00
(22) 07.04.2017	(32) 23.12.2016	H01Q 1/38
(54) SPIRAL OPTICAL WAVEGUIDE	(33) China	H01Q 9/04
TERMINATION	(51) H01Q 1/22	H01Q 9/42
(73) Huawei Technologies Co., Ltd.	H01Q 13/10	H01Q 21/28
(72) DUMAIS, Patrick	F21V 23/00	H01Q 21/30
(31) 201615142434	F21V 23/04	H01Q 5/371
(32) 29.04.2016	H05B 45/00	(11) EP3692596
(33) United States of America	H05B 47/19	(21) EP18799578.2
(51) H01Q 1/08	(11) EP3852192	(47) 30.08.2023
H01Q 1/12	(21) EP21152104.2	(87) FR2018052444
H01Q 3/00	(47) 30.08.2023	11.04.2019
H01Q 3/02	(22) 18.01.2021	(22) 04.10.2018
H01Q 3/06	(54) LIGHTING APPARATUS	(54) LOW PROFILE MULTI-BAND RADIO
H01Q 3/08	(73) Leedarson Lighting Co., Ltd.	ANTENNA
H01Q 3/34	(72) WU, Zhixian	(73) Bodycap
H01Q 21/06	GUO, Shuifa	Université de Rennes 1
(11) EP3811462	YOU, Yuankai	Centre National de la Recherche
(21) EP19727469.9	ZOU, Renhua	Scientifique (CNRS)
(47) 30.08.2023	ZHAO, Fanglei	(72) NIKOLAYEV, Denys
(87) GB2019051418	(31) 202020092650 U	ZHADOBOV, Maxim
26.12.2019	(32) 16.01.2020	SAULEAU, Ronan
(22) 23.05.2019	(33) China	(31) 1759268
(54) MOVEABLE ANTENNA APPARATUS	(51) H01Q 1/24	(32) 04.10.2017
(73) Airspan IP Holdco LLC	H01Q 1/52	(33) France
(72) LOGOTHETIS, Andrew	H01Q 21/28	(51) H01Q 1/36
BROKENSHIRE, David Charles	H04B 7/02	H01Q 1/24
PERSAUD, Marlon Peter	G06F 1/16	H01Q 9/26
(31) 201810220	H01Q 3/24	H01Q 21/26
(32) 21.06.2018	(11) EP3662585	(11) EP3968458
(33) United Kingdom	(21) EP18863635.1	(21) EP19928598.2
(51) H01Q 1/12	(47) 30.08.2023	(47) 30.08.2023
H01Q 21/30	(87) CN2018108566	(87) CN2019117111
H01Q 13/10	04.04.2019	19.11.2020
H05B 3/84	(22) 29.09.2018	(22) 11.11.2019
(11) EP3741000	(54) ANTENNA PLACEMENT	(54) RADIATING STRUCTURE AND ARRAY
(21) EP19763213.6	ARRANGEMENTS ON DEVICE WITH	ANTENNA
(47) 30.08.2023	EXTENDABLE DISPLAY	(73) Comba Telecom Technology
(87) US2019020659	(73) Huawei Technologies Co., Ltd.	(Guangzhou) Limited
12.09.2019	(72) SHI, Ping	(72) SONG, Jianping
(22) 05.03.2019	HUANG, Wei	LI, Mingchao
(54) WINDOW ASSEMBLY WITH HEATING	(31) 201715720964	LV, Pengfei
AND ANTENNA FUNCTIONS	(32) 29.09.2017	(31) 201910407059
(73) Pittsburgh Glass Works, LLC	(33) United States of America	(32) 16.05.2019
(72) DAI, David	(51) H01Q 1/24	(33) China
(31) 201862638504 P	H01Q 5/385	(51) H01Q 1/48
(32) 05.03.2018	H01Q 9/04	H01Q 1/50
(33) United States of America	H01Q 9/28	H01Q 3/36
(51) H01Q 1/22	H01Q 1/38	H01Q 3/44
H01Q 1/24	H01Q 11/10	H01Q 9/04
H01Q 1/40	H01Q 21/06	H01Q 9/14
H01Q 1/44	(11) EP3688840	H01Q 21/06
F21V 33/00	(21) EP17927410.5	H01Q 21/24
H01Q 1/38	(47) 30.08.2023	H01Q 21/00
(11) EP3550666	(87) US2017054662	(11) EP3656020
(21) EP17882297.9	04.04.2019	(21) EP18836169.5

(47) 30.08.2023	H01Q 15/24	H01Q 21/29
(87) US2018016872 24.01.2019	(11) EP3823097	H01Q 21/00
(22) 05.02.2018	(21) EP20207777.2	H01Q 5/50
(54) VARIABLE DIELECTRIC CONSTANT ANTENNA HAVING SPLIT GROUND ELECTRODE	(47) 30.08.2023	(11) EP3930099
(73) Wafer LLC	(22) 16.11.2020	(21) EP21174574.0
(72) HAZIZA, Dedi David	(54) LOW COST, LOW LOSS MATERIAL FOR MICROWAVE OR ANTENNA PRINTED CIRCUIT BOARD	(47) 30.08.2023
(31) 201715654643	(73) Hughes Network Systems, LLC	(22) 19.09.2016
(32) 19.07.2017	(72) Johnson, Harry	(54) TWO-DIMENSIONAL ANTENNA AND NETWORK DEVICE
(33) United States of America	Hou, Peter	(73) Huawei Technologies Co., Ltd.
(51) H01Q 3/44	Corrigan, John	(72) XU, Tingwei
H01Q 21/06	Yue, Taiwei	LUO, Lijun
H01Q 9/04	Lu, Bingqian	GONG, Zhi
H01P 5/12	Clough, Brian	ZHANG, Lianhong
H01P 11/00	(31) 201916685986	(51) H01R 4/20
G02F 1/13	(32) 15.11.2019	H01R 43/048
H01Q 21/24	(33) United States of America	(11) EP3687000
H01Q 1/50	(51) H01Q 9/32	(21) EP20151904.8
H01Q 1/48	H01Q 1/36	(47) 30.08.2023
H01Q 3/36	H01F 21/00	(22) 15.01.2020
(11) EP3507856	H01F 5/00	(54) ELECTRIC WIRE WITH TERMINAL AND METHOD FOR MANUFACTURING THE SAME
(21) EP17847175.1	H01F 21/02	(73) Proterial, Ltd.
(47) 30.08.2023	(11) EP4066315	(72) ENDO, Yuju
(87) US2017045186	(21) EP20811337.3	SATO, Tetsuro
08.03.2018	(47) 30.08.2023	INOUE, Ryo
(22) 02.08.2017	(87) EP2020083448	(31) 2019012444
(54) SOFTWARE CONTROLLED ANTENNA	03.06.2021	(32) 28.01.2019
(73) SDEROTECH, INC.	(22) 26.11.2020	(33) Japan
Wafer LLC	(54) RADIATING ELEMENT AND ASSOCIATED ANTENNA AND MANUFACTURING METHOD	(51) H01R 4/2433
(72) HAZIZA, Dedi David	(73) SORBONNE UNIVERSITE	H01R 4/242
(31) 201715654643	Centre national de la recherche scientifique	H01R 13/41
201715421388	THALES	H01R 11/05
201662431393 P	Ecole Supérieure de Physique et de Chimie Industrielles de la Ville de Paris	(11) EP3996208
201662382506 P	(72) ZIAEI, Afshin	(21) EP21195798.0
201662382489 P	XAVIER, Stéphane	(47) 30.08.2023
(32) 19.07.2017	CHAZELAS, Jean	(22) 09.09.2021
31.01.2017	TRIPON-CANSELIET, Charlotte	(54) CONNECTOR
07.12.2016	(31) 1913566	(73) Japan Aviation Electronics Industry, Limited
01.09.2016	(32) 29.11.2019	(72) TANAKA, Masashi
01.09.2016	(33) France	(31) 2020186430
(33) United States of America	(51) H01Q 17/00	(32) 09.11.2020
United States of America	H01Q 15/00	(33) Japan
United States of America	(11) EP3813195	(51) H01R 4/48
United States of America	(21) EP18927606.6	H01R 9/24
United States of America	(47) 30.08.2023	(11) EP3667827
(51) H01Q 7/06	(87) CN2018125125	(21) EP19215199.1
G06K 19/077	30.01.2020	(47) 30.08.2023
(11) EP3371853	(22) 29.12.2018	(22) 11.12.2019
(21) EP16794252.3	(54) ELECTROMAGNETIC WAVE- ABSORBING METAMATERIAL	(54) WIRING TERMINAL
(47) 30.08.2023	(73) Kuang-chi Cutting Edge Technology Ltd.	(73) Zhu, Pinyou
(87) EP2016076617	(72) LI, Su Cheng	(72) Zhu, Pinyou
11.05.2017	CHEN, Kangqiang	(31) 201811508098
(22) 03.11.2016	ZHAO, Zhiya	(32) 11.12.2018
(54) METHOD FOR MANUFACTURING A RADIOFREQUENCY ANTENNA ON A MOUNTING AND ANTENNA THUS OBTAINED	LIU, Ruopeng	(33) China
(73) Thales Dis France SAS	(31) 201821204494 U	(51) H01R 9/24
(72) MERIDIANO, Jean-Luc	201810843911	H01R 9/26
MENDEZ, Lucile	(32) 27.07.2018	H01R 13/703
BUYUKKALENDER, Arek	27.07.2018	(11) EP3874563
SEBAN, Frédéric	(33) China	(21) EP19794159.4
(31) 15306758	China	(47) 30.08.2023
(32) 05.11.2015	(51) H01Q 21/30	(87) EP2019079576
(33) European Patent Office (EPO)	H01Q 21/06	07.05.2020
(51) H01Q 9/04		(22) 30.10.2019
		(54) ELECTRICAL TERMINAL BLOCK
		(73) Phoenix Contact GmbH & Co. KG

(72) JANZEN, Wjatscheslaw	SUCH AS A SWITCHING CONTACT OR	(47) 30.08.2023
(31) 201805755	A PLUG CONTACT	(87) JP2019035503
(32) 30.10.2018	(73) TE Connectivity Germany GmbH	19.03.2020
(33) Belgium	(72) Schmidt, Helge	(22) 10.09.2019
(51) H01R 9/26	Leidner, Michael	(54) HERMETIC TERMINAL
H05K 7/14	Sachs, Sönke	(73) Kyocera Corporation
(11) EP3876355	(31) 102011006899	(72) IWAMOTO,Koichi
(21) EP21160104.2	(32) 06.04.2011	OOMURA,Haruka
(47) 30.08.2023	(33) Germany	(31) 2018169868
(22) 02.03.2021	(51) H01R 13/05	(32) 11.09.2018
(54) CONNECTION DEVICE AND	H01R 24/58	(33) Japan
ELECTROMECHANICAL ASSEMBLY	H01R 13/26	(51) H01R 13/523
(73) Phoenix Contact GmbH & Co. KG	H01R 103/00	G02B 6/38
(72) REIBKE, Heinz	H01R 27/00	H01R 13/453
ANDRESEN, Jens	(11) EP4010949	H01R 13/52
(31) 102020106085	(21) EP20758115.8	(11) EP3704765
(32) 06.03.2020	(47) 30.08.2023	(21) EP18807489.2
(33) Germany	(87) EP2020025351	(47) 30.08.2023
(51) H01R 12/55	11.02.2021	(87) US2018058301
H01R 13/504	(22) 31.07.2020	09.05.2019
H01R 12/72	(54) ELECTRICAL PLUG CONNECTOR	(22) 30.10.2018
H01R 24/60	(73) Neutrik AG	(54) SEALED CONNECTOR WITH
(11) EP3483985	(72) DOBLER, Oliver	TRIGGERED MATING AND METHOD
(21) EP17833259.9	(31) 507012019	OF USING SAME
(47) 30.08.2023	(32) 07.08.2019	(73) Ormond Energy Innovations Inc.
(87) CN2017081266	(33) Austria	(72) RAMASUBRAMANIAN, Srikanth
01.02.2018	(51) H01R 13/22	(31) 201762578610 P
(22) 20.04.2017	H01M 50/505	(32) 30.10.2017
(54) POWER ADAPTER, MOBILE	(11) EP3699980	(33) United States of America
TERMINAL, POWER INTERFACE	(21) EP20155889.7	(51) H01R 13/527
AND MANUFACTURING METHOD	(47) 30.08.2023	H01R 13/52
THEREFOR	(22) 06.02.2020	H01R 12/71
(73) GUANGDONG OPPO MOBILE	(54) BATTERY PACK	H01R 13/506
TELECOMMUNICATIONS CORP., LTD.	(73) Samsung SDI Co., Ltd.	(11) EP3719936
(72) LI, Feifei	(72) KANG, Ilroh	(21) EP20166608.8
(31) 201620806349 U	MOON, Deayon	(47) 30.08.2023
201610603134	(31) 20190020489	(22) 30.03.2020
(32) 27.07.2016	(32) 21.02.2019	(54) CONNECTOR DEVICE
27.07.2016	(33) Korea (Republic)	(73) TE Connectivity Italia Distribution S.r.l.
(33) China	(51) H01R 13/24	TE Connectivity Italia S.r.l.
China	H01R 24/38	(72) GRAZIANO, Daniela
(51) H01R 12/79	H01R 13/52	LUPO, Federico
H01R 13/03	H01R 35/04	VIRDIA, Federico
H01R 12/77	H01R 13/627	ROBONE, Riccardo Francesco
H01R 13/24	(11) EP3369145	LAMACCHIA, Alessandro
H01R 13/41	(21) EP16798557.1	(31) 201900004893
(11) EP3819992	(47) 30.08.2023	(32) 02.04.2019
(21) EP20199621.2	(87) IB2016056139	(33) Italy
(47) 30.08.2023	04.05.2017	(51) H01R 13/53
(22) 01.10.2020	(22) 13.10.2016	G01R 15/14
(54) CONNECTOR	(54) MULTIPOLAR CONNECTOR	(11) EP3203245
(73) Yamaichi Electronics Deutschland GmbH	(73) Conextivity Group SA	(21) EP14802473.0
(72) NGAN, David	(72) BUCHILLY, Jean-Marie	(47) 30.08.2023
(31) 102019007798	CONVERT, Nicolas	(87) ES2014070746
(32) 11.11.2019	STORIONE, Savino	07.04.2016
(33) Germany	(31) PCT/IB2016/052275	(22) 01.10.2014
(51) H01R 13/03	PCT/IB2015/058257	(54) INSULATED HIGH-VOLTAGE ADAPTER
H01R 43/16	(32) 21.04.2016	(73) ORMAZABAL PROTECTION &
H01H 11/04	27.10.2015	AUTOMATION, S.L.U.
C23C 24/10	(33) World Intellectual Property Office (WIPO)	(72) SÁNCHEZ RUIZ, Juan, Antonio
(11) EP3091617	World Intellectual Property Office (WIPO)	LOPEZ CANO, Luis
(21) EP16173167.4	(51) H01R 13/405	ALBERDI CELAYA, Alazne
(47) 30.08.2023	H01R 13/53	(51) H01R 13/629
(22) 02.04.2012	H01R 13/74	(11) EP3886266
(54) METHOD FOR MANUFACTURING AT	H01R 13/03	(21) EP20166374.7
LEAST ONE FUNCTIONAL AREA ON	H01R 13/504	(47) 30.08.2023
AN ELECTRIC CONTACT ELEMENT	(11) EP3852199	(22) 27.03.2020
	(21) EP19861121.2	

- (54) ELECTRICAL CONNECTOR WITH A MATE ASSIST SYSTEM
(73) Aptiv Technologies Limited
(72) FABRE, Jean
MENEZ, Frédéric
-
- (51) H01R 13/631
H01R 13/645
H01R 13/17
H01R 13/629
H01R 101/00
(11) EP3878060
(21) EP19802056.2
(47) 30.08.2023
(87) DE2019100934
14.05.2020
(22) 30.10.2019
(54) HIGH-CURRENT ELECTRICAL CONNECTOR AND ELECTRICAL CONNECTOR SYSTEM
(73) HARTING Electric GmbH & Co. KG
(72) KLIEVER, Wilhelm
(31) 102018127720
(32) 07.11.2018
(33) Germany
-
- (51) H01R 13/64
H01R 13/639
H01R 13/641
H01R 13/627
(11) EP3703196
(21) EP18871256.6
(47) 30.08.2023
(87) JP2018038615
02.05.2019
(22) 17.10.2018
(54) CONNECTOR AND CONNECTOR ASSEMBLY
(73) Tyco Electronics Japan G.K.
(72) TAKEUCHI Hiroshi
YOSHINO Hiromichi
(31) 2017204290
(32) 23.10.2017
(33) Japan
-
- (51) H01R 39/38
H01R 43/00
H01R 43/14
H01R 39/41
(11) EP3895259
(21) EP19812703.7
(47) 30.08.2023
(87) EP2019081423
18.06.2020
(22) 15.11.2019
(54) BRUSH MODULE AND ASSEMBLY METHOD
(73) Schunk Carbon Technology GmbH
(72) KAIN, Ludwig
(31) 102018132050
(32) 13.12.2018
(33) Germany
-
- (51) H01R 43/28
H01R 43/052
H01R 43/055
(11) EP3827484
(21) EP19739309.3
(47) 30.08.2023
(87) EP2019069262
30.01.2020
(22) 17.07.2019
- (54) CABLE PROCESSING MACHINE DEVICE AND METHOD FOR REMOVING CABLES FROM A REMOVAL TROUGH OF A CABLE PROCESSING MACHINE
(73) komax Holding AG
(72) CONTE, Alois
(31) 18185259
(32) 24.07.2018
(33) European Patent Office (EPO)
-
- (51) H01S 3/00
H02J 50/30
H04B 10/00
H04B 10/80
H04B 10/11
(11) EP3635825
(21) EP18803029.0
(47) 30.08.2023
(87) IL2018050532
22.11.2018
(22) 15.05.2018
(54) FLEXIBLE MANAGEMENT SYSTEM FOR OPTICAL WIRELESS POWER SUPPLY
(73) Wi-Charge Ltd.
(72) SLEPOY, Alexander
NAHMIAS, Omer
GOLAN, Lior
LEVIN, Zohar
SAGI, Ran
BIDERMAN, Yoav
ALPERT, Ortal
ROSH, Yan
MOR, Ori
CONFORTI, Eyal
(31) 201762506275 P
(32) 15.05.2017
(33) United States of America
-
- (51) H01S 3/08022
H01S 3/08031
H01S 3/08
H01S 3/081
H01S 5/02325
H01S 5/14
H01S 3/106
(11) EP3152807
(21) EP15726274.2
(47) 30.08.2023
(87) GB2015051581
10.12.2015
(22) 01.06.2015
(54) LASER DEVICE
(73) Renishaw Plc.
(72) JARJOUR, Anas
COPNER, Nigel Joseph
HUANG, Jungang
HOLLOWAY, Alan James
CHANEY, Raymond John
(31) 201410003
(32) 05.06.2014
(33) United Kingdom
-
- (51) H01S 5/02
H01S 5/06
H01S 5/065
H01S 5/10
H01S 5/12
H01S 5/20
H01S 5/22
(11) EP4055671
(21) EP20800160.2
(47) 30.08.2023
(87) EP2020081104
14.05.2021
(22) 05.11.2020
(54) TRENCH-COMPRISING MODE-LOCKED LASER AND ASSOCIATED OPTICAL COMPONENT
(73) Centre national de la recherche scientifique
THALES
(72) BRETENAKER, Fabien
DE ROSSI, Alfredo
COMBRIE, Sylvain
(31) 1912503
(32) 07.11.2019
(33) France
-
- (51) H01S 5/02325
H01S 5/022
H01S 5/024
H01S 5/062
H01S 5/42
H04B 10/40
G02B 6/42
(11) EP3503316
(21) EP18214277.8
(47) 30.08.2023
(22) 19.12.2018
(54) AN INTEGRATED OPTICAL TRANSCEIVER
(73) Finisar Corporation
(72) KAIKKONEN, Andrei
CHACINSKI, Marek
NIDELIUS, David
JOHANSSON, Åsa
JONES, Theron
CHITICA, Nicolae
LUNDQVIST, Lennart
STEIJER, Odd
KÄLLÉN, Elisabeth
HAUENSCHILD, Jürgen
(31) 201762608094 P
(32) 20.12.2017
(33) United States of America
-
- (51) H01S 5/0687
H01S 5/0683
H01S 5/14
H01S 5/02326
H01S 5/06
H01S 3/139
(11) EP3333988
(21) EP16901903.1
(47) 30.08.2023
(87) KR2016013519
03.05.2018
(22) 23.11.2016
(54) WAVELENGTH LOCKING STRUCTURE OF TUNABLE LASER AND WAVELENGTH LOCKING METHOD OF TUNABLE LASER
(73) Chem Optics Inc.
(72) NOH, Young Ouk
KWON, Yoon Koo
LEE, Woo Jin
SEO, Jun Kyu
(31) 20160142895
(32) 31.10.2016

(33) Korea (Republic)	(32) 24.09.2014	Bickel, Jon A.
(51) H01T 2/02	(33) Japan	(31) 201816233241
H01T 4/10	(51) H02B 13/02	201862770741 P
H01T 15/00	H02B 1/044	201862770737 P
(11) EP3465848	H01H 33/53	201862770732 P
(21) EP17725236.8	(11) EP3836322	201862770730 P
(47) 30.08.2023	(21) EP19215334.4	201862694791 P
(87) EP2017062324	(47) 30.08.2023	(32) 27.12.2018
07.12.2017	(22) 11.12.2019	21.11.2018
(22) 23.05.2017	(54) A CIRCUIT BREAKER POLE FOR LOW VOLTAGE OR MEDIUM VOLTAGE OPERATION	21.11.2018
(54) OVER-VOLTAGE PROTECTION SYSTEM FOR A SINGLE OR MULTI-PHASE CURRENT SUPPLY GRID	(73) ABB Schweiz AG	21.11.2018
(73) DEHN SE	(72) KOZEL, Tomas	06.07.2018
(72) STRANGFELD, Uwe	GORLT, Kai	(33) United States of America
(31) 102016006668	GENTSCH, Dietmar	United States of America
(32) 31.05.2016	CERNOHOUS, Josef	United States of America
(33) Germany	JAVORA, Radek	United States of America
(51) H02B 1/28	(51) H02B 13/035	United States of America
H02B 1/38	H02B 5/06	(51) H02H 3/093
(11) EP3949044	(11) EP3811475	H02H 3/08
(21) EP20709798.1	(21) EP19746037.1	H02H 3/04
(47) 30.08.2023	(47) 30.08.2023	H02H 3/00
(87) US2020014951	(87) EP2019069325	H02H 1/06
01.10.2020	20.02.2020	H02H 1/04
(22) 24.01.2020	(22) 18.07.2019	G06F 1/24
(54) MULTIDIRECTIONAL COMPRESSION LOCKING MECHANISM FOR AN ELECTRICAL ENCLOSURE	(54) MULTIPHASE SWITCHGEAR	(11) EP3591779
(73) Raytheon Company	(73) Siemens Energy Global GmbH & Co. KG	(21) EP17898692.3
(72) NGUYEN, Ly, Dinh	(72) KLEINSCHMIDT, Andreas	(47) 30.08.2023
(31) 201916364629	HALM, Christian	(87) JP2017007623
(32) 26.03.2019	BEUTEL, Stefan	07.09.2018
(33) United States of America	(31) 102018213934	(22) 28.02.2017
(51) H02B 1/32	(32) 17.08.2018	(54) ELECTRONIC CIRCUIT BREAKER
H02B 1/42	(33) Germany	(73) Mitsubishi Electric Corporation
H02B 1/06	(51) H02G 1/12	(72) CHIKAI Masataka
H02G 3/08	(11) EP3824521	TAKIGAWA Yusuke
(11) EP3358687	(21) EP19737738.5	NOMURA Toshimitsu
(21) EP17305117.8	(47) 30.08.2023	HARADA Kouki
(47) 30.08.2023	(87) EP2019068385	(51) H02H 5/04
(22) 01.02.2017	23.01.2020	G01R 31/64
(54) PARTITIONING DEVICE FOR A DISTRIBUTION CABINET AND DISTRIBUTION CABINET COMPRISING SUCH A PARTITIONING DEVICE	(22) 09.07.2019	H02J 3/01
(73) Hager Electro GmbH & Co. KG	(54) DEVICE AND METHOD FOR PROCESSING AN END OF AN ELECTRICAL CABLE	H02J 3/38
(72) KARMANN, Uwe	(73) Metzner Maschinenbau GmbH	(11) EP4047776
GROS, Bernhard	(72) BAUMGAERTNER, Andreas	(21) EP22157912.1
GERSTNER-RIEWER, Florian	GLOGGER, Karl	(47) 30.08.2023
ALTMEIER, Philippe	(31) 102018117132	(22) 22.02.2022
DISSEL, Klaus	(32) 16.07.2018	(54) FAULT DETECTION APPARATUS AND METHOD, AND GRID-TIED PHOTOVOLTAIC POWER GENERATION SYSTEM
(51) H02B 1/56	(33) Germany	(73) Huawei Digital Power Technologies Co., Ltd.
H02B 13/025	(51) H02H 3/00	(72) TANG, Yunyu
H02B 11/24	H02H 1/00	SHI, Lei
(11) EP3200295	H02H 3/20	GAO, Yongbing
(21) EP15843515.6	H02H 7/26	(31) 202110199883
(47) 30.08.2023	H02J 3/24	(32) 22.02.2021
(87) JP2015075041	H02J 13/00	(33) China
31.03.2016	H02J 3/00	(51) H02H 7/00
(22) 03.09.2015	G01R 19/25	F02D 41/00
(54) SWITCHGEAR	G01R 21/133	(11) EP3533123
(73) Mitsubishi Electric Corporation	(11) EP3852212	(21) EP17795158.9
(72) KOZURU Susumu	(21) EP21162108.1	(47) 30.08.2023
NAGAYASU Nobukazu	(47) 30.08.2023	(87) US2017058290
YAMAJI Toru	(22) 04.07.2019	03.05.2018
SASAKI Takahiro	(54) SUPPLEMENTAL TECHNIQUES FOR CHARACTERIZING POWER QUALITY EVENTS IN AN ELECTRICAL SYSTEM	(22) 25.10.2017
(31) 2014193328	(73) Schneider Electric USA Inc.	
	(72) Wall, Theresa K.	

(54) SHORT-CIRCUIT DETECTION FOR HALF-BRIDGE PEAK-AND-HOLD PRE-DRIVER	H02M 1/00 (11) EP3952046 (21) EP19925217.2 (47) 30.08.2023	H02H 3/04 H02H 9/00 (11) EP3613124 (21) EP18719511.0 (47) 30.08.2023
(73) Vitesco Technologies USA, LLC	(87) CN2019126854 22.10.2020	(87) EP2018059912 25.10.2018
(72) HERNANDEZ-DISTANCIA, Mauricio BAIK, Chung Heum TAVARES, Eugene PATIL, Ajay H. KISSLINGER DA SILVA, Daniel	(22) 20.12.2019 (54) PHOTOVOLTAIC INVERTER AND CORRESPONDING SWITCH FREQUENCY CONTROL METHOD	(22) 18.04.2018 (54) UNINTERRUPTIBLE POWER SUPPLY
(31) 20161533329 (32) 25.10.2016 (33) United States of America	(73) Huawei Digital Power Technologies Co., Ltd.	(73) Phoenix Contact GmbH & Co KG (72) MARSCHKE, Irene KNOOP, Daniel
(51) H02J 3/18 H02J 3/38 H02J 3/50	(72) YU, Xinyu XIN, Kai	(31) 102017108516 (32) 21.04.2017 (33) Germany
(11) EP3619786 (21) EP18795222.1 (47) 30.08.2023	(31) 201910316131 (32) 17.04.2019 (33) China	(51) H02J 9/06 H05B 47/00
(87) US2018030667 08.11.2018 (22) 02.05.2018	(51) H02J 3/38 H02S 40/30 (11) EP3576245 (21) EP18764315.0 (47) 30.08.2023	(11) EP4062518 (21) EP20807766.9 (47) 30.08.2023 (87) EP2020082824 27.05.2021
(54) SYSTEM AND METHOD FOR REACTIVE POWER CONTROL OF A WIND FARM	(87) CN2018077274 13.09.2018	(22) 20.11.2020 (54) BRANCH CIRCUIT EMERGENCY LIGHTING TRANSFER SWITCH UTILIZING RELAY CONTROLS AND SAFETY RELAY FOR LOAD POWER CONTROL
(73) General Electric Company (72) GANIREDDY, Govardhan SHUKLA, Saurabh KLODOWSKI, Anthony, Michael TAN, Zhuohui WAGONER, Robert, Gregory BURRA, Rajni REN, Wei	(22) 26.02.2018 (54) POWER SUPPLY SYSTEM AND POWER SUPPLY METHOD	(73) Signify Holding B.V. (72) VENN, Madan, Reddy STOLL, Tom AMINI, Mohammad NOURSE, James
(31) 201710312375 (32) 05.05.2017 (33) China	(73) Huawei Digital Power Technologies Co., Ltd. (72) LI, Yanfeng GAO, Yongbing WANG, Xun	(31) 202063022763 P 201962938643 P 20175957
(51) H02J 3/24 H02J 3/48 F03D 7/02 F03D 9/25	(31) 201710128678 (32) 06.03.2017 (33) China	(32) 11.05.2020 21.11.2019 22.05.2020
(11) EP3764503 (21) EP19382586.6 (47) 30.08.2023	(51) H02J 3/38 H02S 40/32 (11) EP3780314 (21) EP19883573.8 (47) 30.08.2023	(33) United States of America United States of America European Patent Office (EPO)
(22) 09.07.2019	(87) CN2019103789 22.05.2020	(51) H02J 15/00 H02J 3/14
(54) POWER CONVERTER CONTROL AND OPERATION	(54) METHOD AND DEVICE FOR TRACKING MAXIMUM POWER POINT	(11) EP3979461 (21) EP20199778.0 (47) 30.08.2023 (22) 02.10.2020
(73) General Electric Renovables España S.L. (72) MANDRIOLI, Leonardo RICCHIUTO, Domenico CAUBET BUSQUET, Oriol SANCHEZ NAVARRO, Javier	(73) Huawei Digital Power Technologies Co., Ltd. (72) GU, Guilei WU, Zhiqing XU, Zhiwu	(54) FACILITY FOR COMPENSATING EXTERNAL POWER SUPPLY FLUCTUATIONS AND METHOD FOR OPERATING THE SAME
(51) H02J 3/38 H02J 3/14 H02S 10/20	(31) 201811357673 (32) 15.11.2018 (33) China	(73) Uniper Hydrogen GmbH (72) Markowz, Georg
(11) EP3675308 (21) EP19187442.9 (47) 30.08.2023	(51) H02J 7/02 H02J 7/00 H02J 50/10	(51) H02J 50/00 H01F 38/14 H02J 7/02
(22) 19.07.2019	(11) EP3843238 (21) EP18939126.1 (47) 30.08.2023	(11) EP3316448 (21) EP16814764.3 (47) 30.08.2023
(54) AN ACTIVE POWER CURTAILMENT MANAGEMENT SYSTEM	(87) CN2018122747 25.06.2020	(87) KR2016006815 29.12.2016
(73) VITO NV (72) RAUF, Abdul Mannan ALAM, Mohammad Meraj	(22) 21.12.2018 (54) CHARGING CONTROL METHOD AND APPARATUS	(22) 27.06.2016 (54) WIRELESS POWER RECEPTION APPARATUS
(31) 18248012 (32) 27.12.2018 (33) European Patent Office (EPO)	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. (72) CHEN, Wei	(73) Scramoge Technology Limited (72) KIM, So Yeon SONG, Ji Yeon
(51) H02J 3/38 H02M 3/00 H02M 7/42	(51) H02J 9/06	

LEE, Sang Won	B60L 53/12	KOSONEN, Jani
YEOM, Jai Hoon	(11) EP3952059	(31) 201610304374
BAE, Seok	(21) EP20791587.7	(32) 10.05.2016
(31) 20150090740	(47) 30.08.2023	(33) China
(32) 25.06.2015	(87) CN2020070395	(51) H02K 15/04
(33) Korea (Republic)	22.10.2020	(11) EP3616309
(51) H02J 50/10	(22) 06.01.2020	(21) EP18720211.4
H02J 50/80	(54) WIRELESS POWER TRANSMISSION	(47) 30.08.2023
H02J 7/00	ALIGNMENT METHOD AND DEVICE,	(87) EP2018060356
H02M 1/44	WIRELESS POWER TRANSMISSION	01.11.2018
(11) EP3991269	SYSTEM, AND ELECTRIC VEHICLE	(22) 23.04.2018
(21) EP20846328.1	(73) Huawei Technologies Co., Ltd.	(54) COIL FORMER, WINDING DEVICE
(47) 30.08.2023	(72) MAO, Yunhe	AND METHOD FOR THE OPERATION
(87) KR2020009660	CHEN, Shuangquan	THEREOF TO PRODUCE COIL
04.02.2021	ZENG, Xiaosheng	WINDINGS INTENDED FOR
(22) 22.07.2020	LIU, Qitang	INSERTION IN A STATOR
(54) ELECTRONIC DEVICE AND	(31) 201910314533	(73) Schaeffler ELMOTEC STATOMAT GmbH
FREQUENCY INTERFERENCE	(32) 18.04.2019	(72) SADIKU, Sadik
CANCELLATION METHOD THEREOF	(33) China	(31) 102017109100
(73) Samsung Electronics Co., Ltd.	(51) H02K 3/14	(32) 27.04.2017
(72) SIN, Dongik	(11) EP3829034	(33) Germany
LEE, Wooram	(21) EP18928101.7	(51) H02K 21/16
CHO, Sungjoon	(47) 30.08.2023	H02K 1/278
SONG, Jaeho	(87) JP2018027676	H02K 29/03
HA, Youngmi	30.01.2020	(11) EP3657637
KIM, Dongzo	(22) 24.07.2018	(21) EP18835497.1
CHOI, Hansol	(54) ARMATURE COIL AND ARMATURE	(47) 30.08.2023
KIM, Byungwook	(73) Mitsubishi Electric Corporation	(87) JP2018024195
(31) 20190092994	(72) MIYATAKE, Ryoji	24.01.2019
(32) 31.07.2019	KOMETANI, Haruyuki	(22) 26.06.2018
(33) Korea (Republic)	YAMADA, Ayumu	(54) MOTOR AND BRUSHLESS WIPER
(51) H02J 50/12	(51) H02K 3/30	MOTOR
H02J 50/60	H01B 13/00	(73) Mitsuba Corporation
(11) EP3794709	H02K 15/12	(72) OHORI, Ryo
(21) EP19723147.5	H02K 3/40	YAMAKAMI, Gensaku
(47) 30.08.2023	H01B 19/02	SHIODA, Naoki
(87) EP2019062540	H01B 19/04	(31) 2018113645
21.11.2019	(11) EP3480920	2018113644
(22) 15.05.2019	(21) EP16907206.3	2017141168
(54) WIRELESS POWER TRANSFER	(47) 30.08.2023	2017141167
(73) Koninklijke Philips N.V.	(87) JP2016003163	(32) 14.06.2018
(72) ETES, Wilhelmus, Gerardus, Maria	04.01.2018	14.06.2018
VAN WAGENINGEN, Andries	(22) 01.07.2016	20.07.2017
(31) 18172577	(54) METHOD FOR PRODUCING	20.07.2017
(32) 16.05.2018	INSULATING STRUCTURE	(33) Japan
(33) European Patent Office (EPO)	(73) TOSHIBA MITSUBISHI-ELECTRIC	Japan
(51) H02J 50/40	INDUSTRIAL SYSTEMS	Japan
H02J 50/12	CORPORATION	Japan
(11) EP3280030	(72) YOSHIMITSU, Tetsuo	(51) H02K 49/10
(21) EP17181476.7	KIKUTA, Shinsuke	F16H 49/00
(47) 30.08.2023	TSUDA, Toshihiro	H02K 7/116
(22) 14.07.2017	MURA, Kotaro	(11) EP4007137
(54) SYSTEM AND METHOD FOR	(51) H02K 5/18	(21) EP20210294.3
CHARGING RECEIVER DEVICES	H02K 5/20	(47) 30.08.2023
(73) General Electric Company	H02K 5/24	(22) 27.11.2020
(72) VIJAYAN, Pradeep	H02K 7/14	(54) HYBRID GEAR TRAIN WITH
RAGHUNATHAN, Arun Kumar	(11) EP3455925	MAGNETIC COUPLING
RAMACHANDRAPANICKER,	(21) EP17722434.2	(73) Julius-Maximilians-Universität Würzburg
Somakumar	(47) 30.08.2023	(72) Vogel, Patrick
MAHADEVA IYER, Vishnu	(87) EP2017061026	(51) H02M 1/00
ARAVIND, Deepak	16.11.2017	(11) EP3937360
(31) 201641026650	(22) 09.05.2017	(21) EP21184690.2
(32) 04.08.2016	(54) A STATOR FRAME OF AN ELECTRICAL	(47) 30.08.2023
(33) India	MACHINE AND AN ELECTRICAL	(22) 09.07.2021
(51) H02J 50/90	MACHINE	(54) CURRENT ESTIMATION IN A POWER
B60L 53/126	(73) ABB Schweiz AG	SUPPLY
B60L 53/38	(72) KINNUNEN, Aleks	(73) Infineon Technologies Austria AG
H02J 50/12	KILPELÄINEN, Toni	(72) SREENIVAS, Venkat

STARR, Timothy	(11) EP3940941	SANTIAGO, Erik
(31) 202016924526	(21) EP21185245.4	RINCE, Jean-Christophe Patrick
(32) 09.07.2020	(47) 30.08.2023	CLAIRET, Maxime
(33) United States of America	(22) 13.07.2021	<hr/>
(51) H02M 1/15	(54) CONVERSION CIRCUIT TOPOLOGY	(51) H02M 7/483
H02M 1/14	(73) Delta Electronics (Shanghai) Co., Ltd.	H02J 7/00
H03F 1/02	(72) BAO, Huayao	(11) EP3172824
H03F 1/30	YE, Haoyi	(21) EP15736247.6
H03F 3/189	XIN, Xiaoni	(47) 30.08.2023
H03F 3/24	FU, Zhiheng	(87) EP2015065658
H04B 15/00	YE, Yiqing	28.01.2016
(11) EP3900171	ZHOU, Yuan	(22) 09.07.2015
(21) EP19898886.7	(31) 202110747672	(54) MODULAR ENERGY STORAGE
(47) 30.08.2023	202010669578	DIRECT CONVERTER SYSTEM
(87) IL2019051083	(32) 02.07.2021	(73) Universität der Bundeswehr München
25.06.2020	13.07.2020	(72) HELLING, Florian
(22) 03.10.2019	(33) China	WEYH, Thomas
(54) SYSTEM AND METHOD FOR POWER	China	(31) 102014110410
SUPPLY RIPPLE COMPENSATION	<hr/>	(32) 23.07.2014
(73) Elbit Systems Land and C4I Ltd.	(51) H02M 3/155	(33) Germany
(72) BEN YISHAY, Neta	H02M 3/00	<hr/>
LAX, Avi	H02M 1/00	(51) H02M 7/487
(31) 26385018	(11) EP3998699	(11) EP3487058
(32) 19.12.2018	(21) EP19937369.7	(21) EP18206400.6
(33) Israel	(47) 30.08.2023	(47) 30.08.2023
<hr/>	(87) IB2019000701	(22) 15.11.2018
(51) H02M 1/32	21.01.2021	(54) EFFICIENT SWITCHING FOR
H02H 9/08	(22) 12.07.2019	CONVERTER CIRCUIT
H02J 3/36	(54) POWER CONVERSION DEVICE AND	(73) Solaredge Technologies Ltd.
H02M 7/483	METHOD FOR CONTROLLING SAME	(72) Zmood, Daniel
H02H 7/122	(73) NISSAN MOTOR CO., LTD.	Glovinsky, Tzachi
H02M 7/757	Renault s.a.s	Loewenstern, Yakir
(11) EP3639353	(72) LOVISON, Giorgio	(31) 201762588474 P
(21) EP17749161.0	YAMAGAMI, Shigeharu	(32) 20.11.2017
(47) 30.08.2023	INOUE, Keisuke	(33) United States of America
(87) EP2017069172	SAITO, Kousuke	<hr/>
31.01.2019	KAI, Toshihiro	(51) H02M 7/5387
(22) 28.07.2017	<hr/>	H02M 7/5395
(54) IMPEDANCE FOR AC FAULT	(51) H02M 3/335	H02P 27/08
CURRENT HANDLING FOR HVDC	H02M 7/49	H02M 1/00
CONVERTER	H02M 7/483	(11) EP3547528
(73) Siemens Energy Global GmbH & Co. KG	(11) EP3701625	(21) EP19000146.1
(72) BALKENOHL, Michael	(21) EP19748080.9	(47) 30.08.2023
PRIETO GOMEZ, Juan Fernando	(47) 30.08.2023	(22) 26.03.2019
BURKHARDT, Matthias	(87) CN2019073856	(54) PULSE WIDTH MODULATION (PWM)
<hr/>	08.08.2019	SCHEME FOR SINGLE SHUNT MOTOR
(51) H02M 3/00	(22) 30.01.2019	CONTROL
H02M 3/07	(54) MODULAR VOLTAGE CONVERTER	(73) Infineon Technologies Austria AG
H02M 3/158	(73) Huawei Digital Power Technologies Co.,	(72) WU, Wei
(11) EP3940940	Ltd.	(31) 201815938631
(21) EP21185242.1	(72) DAI, Heping	(32) 28.03.2018
(47) 30.08.2023	MAO, Xiaolin	(33) United States of America
(22) 13.07.2021	FU, Dianbo	<hr/>
(54) CONVERSION CIRCUIT TOPOLOGY	(31) 201815884211	(51) H02M 7/5395
(73) Delta Electronics (Shanghai) Co., Ltd.	(32) 30.01.2018	H02M 7/5387
(72) XIN, Xiaoni	(33) United States of America	(11) EP3326283
ZHOU, Yuan	<hr/>	(21) EP16744320.9
BAO, Huayao	(51) H02M 7/00	(47) 30.08.2023
YE, Haoyi	H02P 27/06	(87) EP2016066092
YE, Yiqing	H02P 29/024	26.01.2017
FU, Zhiheng	H02P 29/028	(22) 07.07.2016
(31) 202110747547	(11) EP3806308	(54) METHOD FOR OPERATING AN
202010670590	(21) EP19306318.7	INVERTER, INVERTER, AND
(32) 02.07.2021	(47) 30.08.2023	PHOTOVOLTAIC SYSTEM
13.07.2020	(22) 09.10.2019	(73) SMA Solar Technology AG
(33) China	(54) ACTIVE FAIL-SAFE MODULE TO	(72) FUETTERER, Cornelius
China	CONTROL THE SAFE STATE OF AN	PETSCHENKA-RININSLAND, Josef
<hr/>	ELECTRICAL MOTOR	(31) 102015111804
(51) H02M 3/00	(73) NXP USA, Inc.	(32) 21.07.2015
H02M 3/07	(72) DUBOIS, Antoine Fabien	(33) Germany
H02M 3/158	MEUNIER, Jean-Philippe	<hr/>
		(51) H02N 2/18

H10N 30/30	(54) MOTOR CONTROL APPARATUS AND METHOD OF CONTROLLING MOTOR CONTROL APPARATUS	ZHANG, Shengjie
(11) EP3424086		ZHOU, He
(21) EP17710792.7		YU, Shijiang
(47) 30.08.2023	(73) CANON KABUSHIKI KAISHA	PENG, Yu
(87) IB2017000182	(72) MINAMI, Toshiaki	WANG, Zhong
16.11.2017	MOTOYAMA, Masanao	(31) 202110345755
(22) 27.02.2017	(31) 2017078482	(32) 31.03.2021
(54) PIEZOELECTRIC ENERGY HARVESTER SYSTEM WITH COMPOSITE SHIM	(32) 11.04.2017	(33) China
(73) CAIRDAC	(33) Japan	
(72) FLESCH, Etienne	(51) H02P 29/024	(51) H02S 50/10
MEYNIER, Cyril	H02M 1/32	(11) EP3750237
FERIN, Guillaume	B24B 23/02	(21) EP19712125.4
LE KHANH, Hung	B24B 49/10	(47) 30.08.2023
BANTIGNIES, Claire	H02H 3/093	(87) DE2019100126
NGUYEN-DINH, An	H02H 7/08	15.08.2019
(31) 201615057263	(11) EP3146627	(22) 08.02.2019
(32) 01.03.2016	(21) EP15728963.8	(54) DEVICE FOR ELECTRICALLY CONTACTING A SOLAR CELL DURING THE MEASUREMENT OF ELECTRICAL CHARACTERISTICS OF THE SOLAR CELL, AND METHOD FOR MEASURING ELECTRICAL CHARACTERISTICS OF A SOLAR CELL
(33) United States of America	(47) 30.08.2023	(73) Wavelabs Solar Metrology Systems GmbH
(51) H02P 1/46	(87) US2015031518	(72) ZEMITZSCH, Wolfgang
(11) EP4066370	26.11.2015	BRAMMER, Torsten
(21) EP19816573.0	(2) 19.05.2015	WILDGRUBE, Falk
(47) 30.08.2023	(54) CYCLE-BY-CYCLE CURRENT LIMIT FOR POWER TOOLS HAVING A BRUSHLESS MOTOR	ESEFELDER, Sascha
(87) EP2019083178	(73) Black & Decker, Inc.	(31) 102018102840
03.06.2021	(72) GORTI, Bhanuprasad V.	(32) 08.02.2018
(22) 29.11.2019	GOTTESMAN, Tai	(33) Germany
(54) METHOD FOR DRIVING A SINGLE-PHASE ELECTRIC MOTOR AND SINGLE-PHASE ELECTRIC MOTOR	VANKO, John C.	(51) H02S 50/10
(73) Pierburg Pump Technology GmbH	FORSTER, Michael K.	(11) EP3907883
(72) SARRIO, Oliver	(31) 201514715079	(21) EP21150372.7
BOSKOVSKI, Miso	201462000307 P	(47) 30.08.2023
WÜBBELS, Felix	(32) 18.05.2015	(22) 06.01.2021
(51) H02P 6/185	19.05.2014	(54) SOLAR POWER GENERATION SYSTEM AND TEST METHOD
H02P 6/18	(33) United States of America	(73) Delta Electronics, Inc.
H02P 6/22	United States of America	(72) Lee, Lei-Ming
(11) EP2197099	(51) H02S 50/00	Lin, Xin-Hung
(21) EP09178494.2	G01W 1/12	(31) 202010383425
(47) 30.08.2023	(11) EP3824546	(32) 08.05.2020
(22) 09.12.2009	(21) EP19838382.0	(33) China
(54) Operation of electric motors	(47) 30.08.2023	(51) H03F 3/181
(73) Melexis Technologies NV	(87) US2019040971	H03G 3/34
(72) Paintz, Christian	23.01.2020	H03F 1/30
Freitag, Thomas	(22) 09.07.2019	H04R 3/00
(31) 0822515	(54) TECHNIQUES FOR ESTIMATING AND FORECASTING SOLAR POWER GENERATION	(11) EP3579576
(32) 10.12.2008	(73) Sacramento Municipal Utility District	(21) EP18790297.8
(33) United Kingdom	(72) CLARK, Remington	(47) 30.08.2023
(51) H02P 9/14	BERKHEIMER, Jeff	(87) CN2018079586
(11) EP2824830	(31) 201916255604	01.11.2018
(21) EP12870716.3	201862700728 P	(22) 20.03.2018
(47) 30.08.2023	(32) 23.01.2019	(54) METHOD FOR SUPPRESSING POP SOUND, AUDIO OUTPUT CIRCUIT, AND TERMINAL
(87) JP2012055797	19.07.2018	(73) Huawei Technologies Co., Ltd.
12.09.2013	(33) United States of America	(72) DU, Shuai
(22) 07.03.2012	United States of America	YIN, Deyang
(54) POWER CONVERTER FOR VEHICLE GENERATOR-MOTOR AND METHOD FOR CONTROLLING VEHICLE GENERATOR-MOTOR	(51) H02S 50/10	LI, Jun
(73) Mitsubishi Electric Corporation	(11) EP4068621	LI, Ding
(72) MORI, Masato	(21) EP22165339.7	(31) 201710296857
TABATA, Mitsunori	(47) 30.08.2023	(32) 28.04.2017
AKITA, Kenichi	(22) 30.03.2022	(33) China
(51) H02P 23/14	(54) PHOTOVOLTAIC ENERGY STORAGE SYSTEM AND METHOD FOR DETECTING GROUND INSULATION IMPEDANCE	(51) H03K 17/082
(11) EP3396852	(73) Huawei Digital Power Technologies Co., Ltd.	H03K 17/30
(21) EP18163534.3		
(47) 30.08.2023	(72) LI, Jianshan	
(22) 23.03.2018	YU, Bo	

H03K 17/16	H03L 7/197	(73) ams International AG
H03K 17/284	H03L 7/07	(72) García González, José Manuel
H03K 17/687	(11) EP3769424	Fröhlich, Thomas
(11) EP3748849	(21) EP18792645.6	(51) H03M 7/30
(21) EP20174748.2	(47) 30.08.2023	H04N 19/00
(47) 30.08.2023	(87) US2018053384	G02B 27/01
(22) 14.05.2020	26.09.2019	G06F 3/01
(54) AUTOMATIC MILLER PLATEAU SAMPLING	(22) 28.09.2018	G06F 3/0346
(73) NXP B.V.	(54) SIGNAL PHASE TRACKING WITH HIGH RESOLUTION, WIDE BANDWIDTH AND LOW PHASE NOISE USING COMPOUND PHASE LOCKED LOOP	G06F 3/147
(72) Dubois, Antoine Fabien	(73) Northrop Grumman Systems Corporation	G09G 3/00
(31) 201916417646	(72) FISCHER, Gerald, R.	G09G 5/10
(32) 21.05.2019	(31) 201815934890	(11) EP3744007
(33) United States of America	(32) 23.03.2018	(21) EP19763329.0
(51) H03K 17/18	(33) United States of America	(47) 30.08.2023
H03K 19/0175	(51) H03L 7/089	(87) US2019020320
(11) EP3687066	(11) EP3506513	12.09.2019
(21) EP20020037.6	(21) EP18202442.2	(22) 01.03.2019
(47) 30.08.2023	(47) 30.08.2023	(54) CONTROLLING IMAGE DISPLAY VIA REAL-TIME COMPRESSION IN PERIPHERAL IMAGE REGIONS
(22) 23.01.2020	(22) 24.10.2018	(73) Valve Corporation
(54) LOW POWER CYCLE TO CYCLE BIT TRANSFER IN GATE DRIVERS	(54) CHARGE PUMP HAVING LEVEL-SHIFTING MECHANISM	(72) MALAIKA, Yasser
(73) Infineon Technologies Austria AG	(73) MEDIATEK INC.	(31) 201815912323
(72) Morini, Sergio	(72) HSUEH, Yu-Li	(32) 05.03.2018
Paganini, Amedeo	HUANG, Po-Chun	(33) United States of America
Grasso, Massimo	HUNG, Chao-Ching	(51) H03M 13/11
Respigo, Davide	SHEN, Chih-Hsien	G06T 7/80
(31) 201916257871	(31) 201816137534	G06K 19/06
(32) 25.01.2019	201762610315 P	(11) EP3996283
(33) United States of America	(32) 20.09.2018	(21) EP20837644.2
(51) H03K 17/687	26.12.2017	(47) 30.08.2023
H03K 17/16	(33) United States of America	(87) CN2020100304
G11C 27/02	United States of America	14.01.2021
(11) EP3806334	(51) H03M 1/06	(22) 04.07.2020
(21) EP19201664.0	H03M 1/12	(54) CODING PATTERN, CODING AND READING METHODS FOR SAME, CALIBRATION BOARD, AND CALIBRATION METHOD
(47) 30.08.2023	H03M 1/14	(73) Hangzhou Hikrobot Co., Ltd.
(22) 07.10.2019	H03M 1/60	(72) YANG, Xu
(54) SWITCHED CAPACITOR CIRCUIT	(11) EP3772182	(31) 201910606513
(73) IniVation AG	(21) EP20188016.8	201910606064
(72) Li, Chenghan	(47) 30.08.2023	(32) 05.07.2019
(51) H03K 17/795	(22) 28.07.2020	05.07.2019
(11) EP4007170	(54) VOLTAGE CONTROLLED OSCILLATOR BASED ANALOG-TO-DIGITAL CONVERTER INCLUDING A MAXIMUM LENGTH SEQUENCE GENERATOR	(33) China
(21) EP21199296.1	(73) Infineon Technologies AG	China
(47) 30.08.2023	(72) BUFFA, Cesare	(51) H04B 1/00
(22) 28.09.2021	WIESBAUER, Andreas	H03J 7/02
(54) DRIVE DEVICE	PEREZ CRUZ, Carlos Andres	H03L 7/08
(73) Fuji Electric Co., Ltd.	HERNANDEZ-CORPORALES, Luis	H03J 5/00
(72) NARITA, Hikaru	QUINTERO ALONSO, Andres	H03J 5/24
(31) 2020195509	(31) 201916526346	(11) EP3764551
(32) 25.11.2020	(32) 30.07.2019	(21) EP20192706.8
(33) Japan	(33) United States of America	(47) 30.08.2023
(51) H03K 19/007	(51) H03M 1/08	(22) 19.12.2016
G05B 9/03	H03M 1/10	(54) SYSTEMS AND METHODS FOR SWITCHING REFERENCE CRYSTAL OSCILLATORS FOR A TRANSCEIVER OF A WIRELESS DEVICE
(11) EP3745596	H03M 1/14	(73) Telefonaktiebolaget LM Ericsson (publ)
(21) EP20176448.7	H03M 3/00	(72) Sundström, Lars
(47) 30.08.2023	(11) EP3700092	Åström, Magnus
(22) 26.05.2020	(21) EP19159150.2	Lindoff, Bengt
(54) DIGITAL INPUT SWITCHING FOR RECEIVING DIGITAL INPUT SIGNALS OF AT LEAST ONE SIGNAL PROVIDER	(47) 30.08.2023	(51) H04B 1/04
(73) Pilz GmbH & Co. KG	(22) 25.02.2019	(11) EP4005095
(72) Harrer, Bernd	(54) ANALOG-TO-DIGITAL CONVERTER SYSTEM, ELECTRONIC DEVICE AND ANALOG-TO-DIGITAL CONVERSION METHOD	(21) EP20739718.3
(31) 102019114460		(47) 30.08.2023
(32) 29.05.2019		(87) EP2020070263
(33) Germany		
(51) H03L 7/08		
H03L 7/087		

04.02.2021	(72) Güzelarşlan, Baris	(73) Sckipio Technologies S.i Ltd
(22) 17.07.2020	(51) H04B 1/3827	(72) VERBIN, Rami
(54) RADIOFREQUENCY-TRANSMITTING DEVICE AND METHOD FOR CONTROLLING SUCH A DEVICE	H04W 52/28	CHISKIS, Alexander
(73) Commissariat à l'Energie Atomique et aux Energies Alternatives	H04W 52/36	(31) 201862749137 P
(72) JANŸ, Clément	(11) EP3176952	(32) 23.10.2018
HAMEAU, Frédéric	(21) EP16204558.7	(33) United States of America
DURR, Michel	(47) 30.08.2023	(51) H04B 7/022
(31) 1908690	(22) 17.01.2012	H04W 76/19
(32) 30.07.2019	(54) ADAPTIVE MAXIMUM POWER LIMITING USING CAPACITIVE SENSING IN A WIRELESS DEVICE	H04B 7/06
(33) France	(73) Huawei Technologies Co., Ltd.	H04W 16/28
(51) H04B 1/10	(72) GE, Jinchun	H04W 80/02
H04B 1/30	SHI, Ping	(11) EP4002908
H04B 1/28	(31) 20111333325	(21) EP19937843.1
(11) EP3771109	201161443974 P	(47) 30.08.2023
(21) EP20185656.4	(32) 21.12.2011	(87) CN2019096426
(47) 30.08.2023	17.02.2011	21.01.2021
(22) 14.07.2020	(33) United States of America	(22) 17.07.2019
(54) RECONFIGURABLE WIDEBAND IMAGE SUPPRESSING RECEIVER	United States of America	(54) WIRELESS COMMUNICATION METHOD AND TERMINAL DEVICE
(73) Rockwell Collins, Inc.	(51) H04B 1/3827	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(72) WYSE, Russell D.	H04W 52/28	(72) CHEN, Wenhong
(31) 201916518224	H04W 52/36	HUANG, Yingpei
(32) 22.07.2019	H04W 52/02	SHI, Zhihua
(33) United States of America	H04W 52/22	FANG, Yun
(51) H04B 1/10	(11) EP3654623	(51) H04B 7/0404
H04B 1/525	(21) EP18832205.1	H04B 7/0456
H04W 88/08	(47) 30.08.2023	H04B 7/06
(11) EP3687074	(87) CN2018095481	H04W 56/00
(21) EP17929753.6	17.01.2019	H04L 5/00
(47) 30.08.2023	(22) 12.07.2018	H04W 72/04
(87) CN2017108128	(54) METHOD FOR REDUCING RADIATION AND MOBILE TERMINAL	(11) EP3817476
02.05.2019	(73) Huizhou TCL Mobile Communication Co., Ltd.	(21) EP19802494.5
(22) 27.10.2017	(72) ZHANG, Ruihua	(47) 30.08.2023
(54) MULTICHANNEL PASSIVE INTERMODULATION DIGITAL CANCELLATION CIRCUIT	DU, Kai	(87) CN2019083021
(73) Huawei Technologies Co., Ltd.	YANG, Lina	21.11.2019
(72) WANG, Hao	LI, Tao	(22) 17.04.2019
CHEN, Yingying	CAO, Shifeng	(54) UPLINK DATA TRANSMISSION INDICATION METHOD, TERMINAL, AND NETWORK SIDE DEVICE
LUO, Yuping	(31) 201710566392	(73) Vivo Mobile Communication Co., Ltd.
(51) H04B 1/12	(32) 12.07.2017	(72) SUN, Peng
H04B 15/02	(33) China	YANG, Yu
(11) EP3754856	(51) H04B 1/7163	(31) 201810479803
(21) EP20178050.9	G07C 9/00	(32) 18.05.2018
(47) 30.08.2023	(11) EP3849093	(33) China
(22) 03.06.2020	(21) EP20212312.1	(51) H04B 7/0408
(54) SYSTEMS AND METHODS INVOLVING INTERFERENCE CANCELLATION	(47) 30.08.2023	H04B 7/06
(73) NXP B.V.	(22) 07.12.2020	H04B 7/08
(72) Ciacci, Massimo	(54) ULTRA-WIDEBAND DEVICE POWER OPTIMIZATION	H04B 7/0404
Filippi, Alessio	(73) NXP B.V.	H04W 52/14
Breems, Lucien Johannes	(72) Casamassima, Filippo	H04W 52/16
Koppelaar, Arie Geert Cornelis	Tertinek, Stefan	H04W 52/36
(31) 201916445924	Eber, Wolfgang	H04W 52/42
(32) 19.06.2019	(31) 202016736872	H04B 7/024
(33) United States of America	(32) 08.01.2020	(11) EP3602810
(51) H04B 1/16	(33) United States of America	(21) EP18707458.8
(11) EP3598651	(51) H04B 3/32	(47) 30.08.2023
(21) EP18184501.7	H04M 11/06	(87) US2018016868
(47) 30.08.2023	(11) EP3871340	27.09.2018
(22) 19.07.2018	(21) EP19876846.7	(22) 05.02.2018
(54) METHOD AND APPARATUS FOR SIGNAL MATCHING	(47) 30.08.2023	(54) ROBUST UPLINK BEAM MANAGEMENT
(73) Rohde & Schwarz GmbH & Co. KG	(87) IL2019051147	(73) Qualcomm Incorporated
	30.04.2020	(72) CHEN, Shengbo
	(22) 23.10.2019	LUO, Tao
	(54) DATA TRAFFIC-AWARE DYNAMIC VECTORING	WANG, Xiao feng
		CHAKRABORTY, Kaushik

JOHN WILSON, Makesh Pravin	(47) 30.08.2023	(22) 02.07.2014
(31) 201815887806 201762476373 P	(87) CN2018079272 04.10.2018	(54) INTERFERENCE CANCELLATION REPEATER
(32) 02.02.2018 24.03.2017	(22) 16.03.2018	(73) Solid, Inc.
(33) United States of America United States of America	(54) ANTENNA SYSTEM, SIGNAL PROCESSING SYSTEM AND SIGNAL PROCESSING METHOD	(72) KIM, Hyun Chae JANG, In Ho
(51) H04B 7/06	(73) Huawei Technologies Co., Ltd.	(31) 20140037347
(11) EP3821543	(72) ZHAO, Jianping	(32) 29.03.2014
(21) EP19737525.6	XIE, Qingming	(33) Korea (Republic)
(47) 30.08.2023	GENG, Yang	(51) H04B 7/26
(87) EP2019068248 16.01.2020	(31) 201710188214	H04L 5/00
(22) 08.07.2019	(32) 27.03.2017	H04L 27/26
(54) TIME-OVERLAPPING BEAM-SWEPT TRANSMISSIONS	(33) China	(11) EP3866354
(73) Sony Group Corporation	(51) H04B 7/06	(21) EP20216979.3
(72) RUSEK, Fredrik	H04W 72/04	(47) 30.08.2023
(31) 1830219	(11) EP3659271	(22) 18.07.2018
(32) 13.07.2018	(21) EP18786043.2	(54) SEQUENCE-BASED SIGNAL PROCESSING METHOD AND APPARATUS
(33) Sweden	(47) 30.08.2023	(73) Huawei Technologies Co., Ltd.
(51) H04B 7/06	(87) IB2018057375 11.04.2019	(72) Qu, Bingyu Sun, Hao
H01Q 3/26	(22) 24.09.2018	(31) 201711140559
H04B 7/08	(54) ADAPTIVE NETWORK DISCOVERY SIGNALING	201710806190
(11) EP3695528	(73) Sony Group Corporation	(32) 16.11.2017
(21) EP18868697.6	(72) SAKODA, Kazuyuki	08.09.2017
(47) 30.08.2023	ABDALLAH, Ramy	(33) China
(87) US2018040914 25.04.2019	ABOUELSEOUD, Mohamed	China
(22) 05.07.2018	(31) 201815944188	(51) H04B 7/26
(54) TRUE TIME DELAY BEAM FORMER AND METHOD OF OPERATION	201762566584 P	H04W 56/00
(73) General Electric Company	(32) 03.04.2018	(11) EP3462639
(72) IANNOTTI, Joseph, Alfred	02.10.2017	(21) EP17827948.5
AIMI, Marco, Francesco	(33) United States of America United States of America	(47) 30.08.2023
(31) 201715782969	(51) H04B 7/06	(87) KR2017007466
(32) 13.10.2017	H04W 72/0453	18.01.2018
(33) United States of America	H04W 74/08	(22) 12.07.2017
(51) H04B 7/06	H04W 72/542	(54) METHOD AND DEVICE FOR TRANSMITTING/RECEIVING SYNCHRONIZATION SIGNAL AND SYSTEM INFORMATION FOR TERMINAL IN NEW WIRELESS ACCESS NETWORK
H04B 7/0417	H04L 5/00	(73) KT Corporation
H04L 5/00	(11) EP3216136	(72) PARK, Kyujin
H04W 24/10	(21) EP15856758.6	CHOI, Woo-jin
(11) EP3726742	(47) 30.08.2023	(31) 20170087597
(21) EP20177518.6	(87) US2015037632 12.05.2016	20160089972
(47) 30.08.2023	(22) 25.06.2015	(32) 11.07.2017
(22) 08.07.2016	(54) USER EQUIPMENT AND METHOD FOR COMMUNICATING ON CELLS CONFIGURED FOR LICENSED ASSISTED ACCESS (LAA)	15.07.2016
(54) METHOD FOR REPORTING CHANNEL STATE INFORMATION IN WIRELESS COMMUNICATION SYSTEM AND DEVICE THEREFOR	(73) Apple Inc.	(33) Korea (Republic)
(73) LG Electronics Inc.	(72) FWU, Jong-Kae	Korea (Republic)
(72) KIM, Youngtae	XIONG, Gang	(51) H04B 10/079
PARK, Jonghyun	DAVYDOV, Alexei Vladimirovich	(11) EP3577799
KIM, Kijun	HAN, Seunghee	(21) EP18701491.5
PARK, Haewook	HE, Hong	(47) 30.08.2023
(31) 201662343017 P	KWON, Hwan-Joon	(87) EP2018052108 09.08.2018
201562190751 P	(31) 201562105443 P	(22) 29.01.2018
(32) 30.05.2016	201462076364 P	(54) OPTICAL FIBRE EVENT LOCATION
10.07.2015	(32) 20.01.2015	(73) British Telecommunications public limited company
(33) United States of America United States of America	06.11.2014	(72) PARKIN, Neil
(51) H04B 7/06	(33) United States of America United States of America	(31) 17154281
H04B 7/10	(51) H04B 7/15	(32) 01.02.2017
H04B 7/0408	(11) EP3128681	(33) European Patent Office (EPO)
H01Q 3/28	(21) EP14888192.3	(51) H04B 10/114
H01Q 3/30	(47) 30.08.2023	(11) EP3726750
(11) EP3591857	(87) KR2014005900	(21) EP20169632.5
(21) EP18774560.9	08.10.2015	

(47) 30.08.2023	(54) SPATIAL DIVISION MULTIPLEXED	04.07.2019
(22) 15.04.2020	OPTICAL COMMUNICATION SYSTEMS	(22) 21.12.2018
(54) COMMUNICATION SYSTEM BETWEEN	AND AMPLIFIERS FOR THE SAME	(54) FLEXIBLE ETHERNET DELAY
ELECTRONIC DEVICES, METHOD	(73) SubCom, LLC	MEASUREMENT METHOD AND
OF COMMUNICATION BETWEEN	(72) BOLSHTYANSKY, Maxim A.	RELATED DEVICE
ELECTRONIC DEVICES, AND	SINKIN, Oleg V	(73) HUAWEI TECHNOLOGIES CO., LTD.
ELECTRONIC DEVICE	SUN, Yu	(72) WANG, Renlei
(73) GUANGDONG OPPO MOBILE	FOURSA, Dmitri	ZHANG, Xiaojun
TELECOMMUNICATIONS CORP., LTD.	PILIPETSKII, Alexei N.	(31) 201711498104
(72) YANG, Xin	(31) 201615257895	(32) 29.12.2017
(31) 201910299275	(32) 06.09.2016	(33) China
(32) 15.04.2019	(33) United States of America	(51) H04J 3/16
(33) China	(51) H04B 10/516	H04B 10/27
(51) H04B 10/118	H04B 10/61	(11) EP3605881
H04B 10/112	H04B 10/532	(21) EP18771607.1
(11) EP3829082	H04B 10/548	(47) 30.08.2023
(21) EP20199928.1	H04B 10/556	(87) CN2018079897
(47) 30.08.2023	(11) EP3648377	27.09.2018
(22) 22.07.2016	(21) EP18843697.6	(22) 21.03.2018
(54) AN OPTICAL AMPLIFIER WITH	(47) 30.08.2023	(54) METHOD AND DEVICE FOR
CLOSED LOOP CONTROL FOR	(87) JP2018029400	TRANSMITTING AND RECEIVING
SCINTILLATION COMPENSATION	14.02.2019	NETWORK MANAGEMENT
IN FREE SPACE OPTICAL	(22) 06.08.2018	INFORMATION, TRANSMITTING
COMMUNICATIONS	(54) OPTICAL TRANSMITTER, OPTICAL	APPARATUS AND RECEIVING
(73) X Development LLC	RECEIVER AND COMMUNICATION	APPARATUS
(72) ITO, Christopher Joshua Shiro	SYSTEM	(73) ZTE Corporation
WANG, Chiachi	(73) Nippon Telegraph And Telephone	(72) LIU, Feng
(31) 201514818706	Corporation	(31) 201710169656
(32) 05.08.2015	(72) HAMAOKA Fukutaro	(32) 21.03.2017
(33) United States of America	NAKAMURA Masanori	(33) China
(51) H04B 10/25	(31) 2017153282	(51) H04J 3/16
H04J 14/02	2017153281	H04J 3/06
H04Q 11/00	(32) 08.08.2017	H04L 25/14
(11) EP3474505	08.08.2017	(11) EP3800831
(21) EP18190219.8	(33) Japan	(21) EP19821882.8
(47) 30.08.2023	Japan	(47) 30.08.2023
(22) 01.07.2014	(51) H04B 10/61	(87) CN2019079970
(54) DATA TRANSMISSION CONTROL	H04B 10/2507	26.12.2019
METHOD, PASSIVE OPTICAL	G06N 3/067	(22) 28.03.2019
NETWORK EQUIPMENT, APPARATUS,	G06N 3/08	(54) LINK GROUP CONFIGURATION
AND PASSIVE OPTICAL NETWORK	(11) EP3991325	METHOD AND APPARATUS
(73) Huawei Technologies Co., Ltd.	(21) EP19742346.0	(73) HUAWEI TECHNOLOGIES CO., LTD.
(72) GAO, Bo	(47) 30.08.2023	(72) SUN, Desheng
(51) H04B 10/2507	(87) EP2019069309	ZHONG, Qiwen
H04B 10/61	21.01.2021	CHEN, Qichang
(11) EP4046294	(22) 18.07.2019	XIAO, Shuai
(21) EP19805234.2	(54) PHOTONIC SIGNAL PROCESSING	(31) 201810654975
(47) 30.08.2023	(73) Huawei Technologies Co., Ltd.	(32) 22.06.2018
(87) EP2019081273	(72) LE, Nguyen Binh	(33) China
20.05.2021	SUO, Jing	(51) H04J 11/00
(22) 14.11.2019	SONG, Xiaolu	H04B 1/7083
(54) DEVICE FOR COMPENSATING	SUN, Xu	(11) EP3577803
IMPERFECTIONS AT A COHERENT	(51) H04B 11/00	(21) EP18705301.2
OPTICAL RECEIVER	(11) EP3723304	(47) 30.08.2023
(73) Huawei Technologies Co., Ltd.	(21) EP19168366.3	(87) US2018016551
(72) CALABRO, Stefano	(47) 30.08.2023	09.08.2018
BLÜMM, Christian	(22) 10.04.2019	(22) 02.02.2018
KUSCHNEROV, Maxim	(54) ACOUSTIC COMMUNICATION AND	(54) SYNCHRONIZATION SIGNAL BURST,
(51) H04B 10/2581	POWERING ASSEMBLY	SIGNAL DESIGN, AND SYSTEM
H04B 10/297	(73) ABB Schweiz AG	FRAME ACQUISITION IN NEW RADIO
H04J 14/04	(72) Pape, Detlef	(73) InterDigital Patent Holdings, Inc.
(11) EP3510709	(51) H04J 3/06	(72) SHAH, Nirav, B.
(21) EP17764448.1	H04J 3/16	OLESEN, Robert, L.
(47) 30.08.2023	H04L 43/0852	PAN, Kyle, Jung-Lin
(87) IB2017054844	(11) EP3720053	XI, Fengjun
15.03.2018	(21) EP18897251.7	(31) 201762556171 P
(22) 08.08.2017	(47) 30.08.2023	201762519745 P
	(87) CN2018122689	201762500752 P

201762454524 P	H04L 1/1829	(22) 01.08.2017
(32) 08.09.2017	(11) EP3989463	(54) TRANSMITTING METHOD AND DEVICE AND RECEIVING METHOD AND DEVICE FOR TRANSPORT BLOCK
14.06.2017	(21) EP20840021.8	
03.05.2017	(47) 30.08.2023	
03.02.2017	(87) KR2020009166	
(33) United States of America	21.01.2021	(73) ZTE Corporation
United States of America	(22) 13.07.2020	(72) HAO, Peng
United States of America	(54) METHOD AND DEVICE FOR TRANSMITTING/RECEIVING SIGNAL IN WIRELESS COMMUNICATION SYSTEM	LI, Jian
United States of America		XU, Jun
(51) H04J 11/00	(73) LG Electronics Inc.	LI, Yu Ngok
H04J 13/00	(72) SHIN, Seokmin	ZHANG, Nan
H04L 5/00	(31) 20190142377	(31) 201610664728
H04B 7/06	20190093965	(32) 12.08.2016
H04L 27/00	20190088588	(33) China
H04W 48/12	20190084799	(51) H04L 1/00
H04W 56/00	(32) 08.11.2019	(11) EP3632019
(11) EP3642977	01.08.2019	(21) EP18732545.1
(21) EP18837951.5	22.07.2019	(47) 30.08.2023
(47) 30.08.2023	12.07.2019	(87) US2018034588
(87) KR2018008373	(33) Korea (Republic)	06.12.2018
31.01.2019	Korea (Republic)	(22) 25.05.2018
(22) 24.07.2018	Korea (Republic)	(54) POLAR CODE CONSTRUCTION FOR LOW-LATENCY DECODING AND REDUCED FALSE ALARM RATE WITH MULTIPLE FORMATS
(54) METHOD AND APPARATUS FOR SYNCHRONIZATION SIGNALS AND PBCH BLOCK ENHANCEMENT	Korea (Republic)	(73) QUALCOMM Incorporated
(73) Samsung Electronics Co., Ltd.	(51) H04J 14/02	(72) LUO, Tao
(72) SI, Hongbo	H04B 10/2513	YANG, Yang
LIU, Le	(11) EP3570469	LIN, Jamie, Menjay
LI, Yingzhe	(21) EP17910823.8	(31) 201815988853
(31) 201816035331	(47) 30.08.2023	201762513824 P
201862693059 P	(87) CN2017085390	(32) 24.05.2018
201862690666 P	29.11.2018	01.06.2017
201862669713 P	(22) 22.05.2017	(33) United States of America
201762536204 P	(54) DATA TRANSMISSION METHOD AND APPARATUS	United States of America
(32) 13.07.2018	(73) Huawei Technologies Co., Ltd.	(51) H04L 1/00
02.07.2018	(72) WAN, Jin	H04B 17/24
27.06.2018	CHEN, Jun	H04B 7/06
10.05.2018	ZHOU, Sujie	H04B 17/26
24.07.2017	LUO, Long	H04B 17/309
(33) United States of America	(51) H04L 1/00	(11) EP3437222
United States of America	(11) EP3793110	(21) EP17704608.3
United States of America	(21) EP19800841.9	(47) 30.08.2023
United States of America	(47) 30.08.2023	(87) US2017014917
United States of America	(87) CN2019085575	05.10.2017
(51) H04J 11/00	14.11.2019	(22) 25.01.2017
H04L 5/14	(22) 05.05.2019	(54) PERFORMING A CHANNEL STATE INFORMATION MEASUREMENT IN AN ENHANCED MACHINE-TYPE COMMUNICATION
(11) EP3682565	(54) MCS TABLE DETERMINATION METHOD, TERMINAL, AND BASE STATION AND READABLE STORAGE MEDIUM	(73) Qualcomm Incorporated
(21) EP18854069.4	(73) Datang Mobile Communications Equipment Co., Ltd.	(72) AHMAD, Aitzaz
(47) 30.08.2023	(72) XING, Yanping	XU, Hao
(87) US2018049598	GAO, Xuejuan	CHEN, Wanshi
14.03.2019	BAI, Wei	GAAL, Peter
(22) 05.09.2018	(31) 201810449340	RICO ALVARINO, Alberto
(54) FULL DUPLEX DEVICE-TO-DEVICE COOPERATIVE COMMUNICATION	(32) 11.05.2018	(31) 201715402927
(73) Micron Technology, Inc.	(33) China	201662317338 P
(72) SCHMITZ, Tamara	(51) H04L 1/00	(32) 10.01.2017
CHRITZ, Jeremy	(11) EP3499758	01.04.2016
LUO, Fa-Long	(21) EP17838597.7	(33) United States of America
CUMMINS, Jaime	(47) 30.08.2023	United States of America
(31) 201715701007	(87) CN2017095401	(51) H04L 1/00
(32) 11.09.2017	15.02.2018	H04K 3/00
(33) United States of America		H04B 7/024
(51) H04J 13/00		H04L 5/00
H04J 13/16		H04L 25/03
H04J 13/10		H04J 13/10
H04L 5/00		
H04L 27/26		
H04L 1/1607		

(11) EP3624371	SUN, Jing	(22) 27.07.2020
(21) EP18808899.1	SARKIS, Gabi	(54) OFDM BASED WIRELESS
(47) 30.08.2023	SORIAGA, Joseph Binamira	COMMUNICATION USING FLEXIBLE
(87) CN2018088632	(31) 201816192697	RESOURCES
06.12.2018	201762588137 P	(73) Sony Group Corporation
(22) 28.05.2018	(32) 15.11.2018	(72) WONG, Shin Horng
(54) METHOD AND DEVICE FOR	17.11.2017	SHIMEZAWA, Kazuyuki
GENERATING SCRAMBLING CODE	(33) United States of America	(31) 19191863
SEQUENCE	United States of America	(32) 14.08.2019
(73) Huawei Technologies Co., Ltd.	(51) H04L 1/00	(33) European Patent Office (EPO)
(72) BI, Xiaoyan	H04L 5/00	(51) H04L 1/08
GE, Shibin	H04B 7/06	H04W 72/04
CHEN, Dageng	H04B 7/0456	(11) EP3621389
(31) 201710686835	(11) EP3846365	(21) EP19205608.3
201710404714	(21) EP18935614.0	(47) 30.08.2023
(32) 11.08.2017	(47) 30.08.2023	(22) 10.04.2015
01.06.2017	(87) CN2018108480	(54) WIRELESS COMMUNICATION
(33) China	02.04.2020	METHOD, ENODB AND USER
China	(22) 28.09.2018	EQUIPMENT
(51) H04L 1/00	(54) PRECODING MATRIX INDICATION	(73) Panasonic Intellectual Property
H04L 1/16	METHOD, COMMUNICATION	Corporation of America
H04L 1/1607	APPARATUS, AND STORAGE MEDIUM	(72) SUZUKI, Hidetoshi
H04L 1/18	(73) HUAWEI TECHNOLOGIES CO., LTD.	HOSHINO, Masayuki
H04L 1/1829	(72) ZHANG, Ruiqi	GAO, Chi
H03M 13/00	LI, Xueru	WANG, Lilei
H03M 13/09	(51) H04L 1/00	(51) H04L 1/16
H03M 13/13	H04L 69/324	H04W 28/02
H04W 72/04	(11) EP3893457	(11) EP3813284
(11) EP3750263	(21) EP19908885.7	(21) EP19867987.0
(21) EP19751741.0	(47) 30.08.2023	(47) 30.08.2023
(47) 30.08.2023	(87) CN2019070698	(87) CN2019107177
(87) CN2019074730	16.07.2020	02.04.2020
15.08.2019	(22) 07.01.2019	(22) 23.09.2019
(22) 07.02.2019	(54) DATA TRANSMISSION METHOD AND	(54) METHOD FOR TRANSMITTING
(54) RETRANSMISSION OF PHYSICAL	DEVICE	CONFIRMATION MESSAGE, AND
UPLINK CONTROL CHANNEL (PUCCH)	(73) Huawei Technologies Co., Ltd.	COMMUNICATION DEVICE
FOR ULTRA RELIABLE LOW LATENCY	(72) CHEN, Lihao	(73) Huawei Technologies Co., Ltd.
COMMUNICATIONS (URLLC)	WANG, Tongtong	(72) ZHOU, Xingwang
(73) QUALCOMM Incorporated	FINN, Norman	WANG, Weiguang
(72) XU, Hao	(51) H04L 1/08	LI, Feng
SORIAGA, Joseph Binamira	H04L 1/00	(31) 201811134342
XU, Changlong	H04L 1/18	(32) 27.09.2018
LI, Jian	(11) EP3610594	(33) China
CHEN, Kai	(21) EP17908676.4	(51) H04L 1/1607
JIANG, Jing	(47) 30.08.2023	H04L 1/1829
JI, Tingfang	(87) CN2017083330	H04L 1/1867
WU, Liangming	08.11.2018	H04L 5/00
(31) PCT/CN2018/076296	(22) 05.05.2017	H04L 1/00
(32) 11.02.2018	(54) METHOD AND DEVICE FOR	H04L 1/16
(33) World Intellectual Property Office (WIPO)	INCREMENTAL REDUNDANCY	H04L 1/18
(51) H04L 1/00	HYBRID AUTOMATIC REPEAT	(11) EP3742849
H04L 5/00	REQUEST (IR-HARQ) RE-	(21) EP19755151.8
H03M 13/00	TRANSMISSION	(47) 30.08.2023
H03M 13/09	(73) Huawei Technologies Co., Ltd.	(87) CN2019074934
H04L 27/26	(72) LI, Rong	22.08.2019
H03M 13/11	HUANG, Lingchen	(22) 13.02.2019
H04L 5/14	ZHANG, Gongzheng	(54) CODEBOOK TRANSMISSION
(11) EP3711208	ZHANG, Huazi	METHOD, DEVICE AND SYSTEM
(21) EP18815444.7	WANG, Jun	(73) Huawei Technologies Co., Ltd.
(47) 30.08.2023	XU, Chen	(72) SHAO, Jiafeng
(87) US2018061676	(51) H04L 1/08	SONG, Xinghua
23.05.2019	H04L 5/00	GUAN, Lei
(22) 16.11.2018	H04L 5/14	(31) 201810152135
(54) METHODS AND APPARATUS FOR	(11) EP3994813	(32) 14.02.2018
DETERMINING TRANSPORT BLOCK	(21) EP20743167.7	(33) China
SIZE IN WIRELESS COMMUNICATION	(47) 30.08.2023	(51) H04L 1/1607
(73) Qualcomm Incorporated	(87) EP2020071146	H04L 1/1867
(72) JIANG, Jing	18.02.2021	H04L 5/00

(11) EP3952165	(73) Samsung Electronics Co., Ltd.	(31) 201615012982
(21) EP19920988.3	(72) Sun, Chengjun	201562252092 P
(47) 30.08.2023	Li, Yingyang	(32) 02.02.2016
(87) JP2019013411	Fu, Jingxing	06.11.2015
01.10.2020	(31) 201210218451	(33) United States of America
(22) 27.03.2019	(32) 27.06.2012	United States of America
(54) USER TERMINAL AND WIRELESS COMMUNICATION METHOD	(33) China	(51) H04L 5/00
(73) NTT DOCOMO, INC.	(51) H04L 1/18	(11) EP3718243
(72) WANG, Jing	H04W 28/26	(21) EP18827305.6
GUO, Shaozhen	H04W 4/40	(47) 30.08.2023
NAGATA, Satoshi	H04W 92/18	(87) US2018062771
MATSUMURA, Yuki	(11) EP4000306	06.06.2019
HOU, Xiaolin	(21) EP20881223.0	(22) 28.11.2018
(51) H04L 1/1607	(47) 30.08.2023	(54) SLOT FORMAT INDICATOR IN FREQUENCY DIVISION DUPLEXING
H04L 5/00	(87) KR2020014762	(73) QUALCOMM Incorporated
H04L 1/1829	06.05.2021	(72) SUN, Jing
H04W 72/21	(22) 28.10.2020	YANG, Yang
H04L 1/00	(54) METHOD AND APPARATUS FOR CLEARING RETRANSMISSION RESOURCES BASED ON ACKNOWLEDGEMENT	LEE, Heechoon
H04L 1/1812	(73) LG Electronics Inc.	(31) 201816201303
H04L 27/26	(72) LEE, Jongyoul	201762593873 P
(11) EP3684125	PARK, Giwon	(32) 27.11.2018
(21) EP18855632.8	LEE, Seungmin	01.12.2017
(47) 30.08.2023	SEO, Hanbyul	(33) United States of America
(87) JP2018033707	LEE, Youngdae	United States of America
21.03.2019	(31) 201962927084 P	(51) H04L 5/00
(22) 11.09.2018	(32) 28.10.2019	(11) EP3269070
(54) TERMINAL APPARATUS, BASE STATION APPARATUS, AND COMMUNICATION METHOD	(33) United States of America	(21) EP16706463.3
(73) FG INNOVATION COMPANY LIMITED	(51) H04L 1/18	(47) 30.08.2023
Sharp Kabushiki Kaisha	H04W 52/14	(87) US2016016423
(72) YOSHIMURA, Tomoki	H04W 74/08	22.09.2016
OHUCHI, Wataru	H04L 1/16	(22) 03.02.2016
LIU, Liqing	H04L 1/00	(54) DMRS BASED DL FOR LOW LATENCY
LEE, Taewoo	(11) EP3469752	(73) Qualcomm Incorporated
SUZUKI, Shouichi	(21) EP17729284.4	(72) CHEN, Wanshi
(31) 2017176818	(47) 30.08.2023	WANG, Michael, Mao
(32) 14.09.2017	(87) US2017034490	XU, Hao
(33) Japan	14.12.2017	PATEL, Shimman, Arvind
(51) H04L 1/18	(22) 25.05.2017	GAAL, Peter
(11) EP3672129	(54) TWO-STAGE CHIRP SIGNAL TRANSMISSION IN USER EQUIPMENT CENTRIC MOBILITY (UECM)	(31) 201615013151
(21) EP18854913.3	(73) QUALCOMM Incorporated	201562133112 P
(47) 30.08.2023	(72) LY, Hung	(32) 02.02.2016
(87) CN2018103291	SORIAGA, Joseph Binamira	13.03.2015
14.03.2019	(31) 201715604285	(33) United States of America
(22) 30.08.2018	201662347204 P	United States of America
(54) DATA TRANSMISSION METHOD, MODE INDICATION METHOD, MODE DETERMINATION METHOD, AND APPARATUS	(32) 24.05.2017	(51) H04L 5/00
(73) Huawei Technologies Co., Ltd.	08.06.2016	(11) EP4022828
(72) WANG, Xiaohan	(33) United States of America	(21) EP20812199.6
HANG, Haicun	United States of America	(47) 30.08.2023
WU, Ye	(51) H04L 5/00	(87) US2020058814
(31) 201710806272	(11) EP3342085	14.05.2021
(32) 08.09.2017	(21) EP16794879.3	(22) 04.11.2020
(33) China	(47) 30.08.2023	(54) UPLINK TRANSMISSION IN NEW RADIO UNLICENSED BAND
(51) H04L 1/18	(87) US2016059840	(73) Koninklijke Philips N.V.
H04B 7/26	11.05.2017	(72) CIRIK, Ali
H04L 1/16	(22) 01.11.2016	ZHOU, Hua
(11) EP3910843	(54) METHOD AND APPARATUS FOR LOW LATENCY TRANSMISSIONS	DINAN, Esmael
(21) EP21182150.9	(73) Motorola Mobility LLC	YI, Yunjung
(47) 30.08.2023	(72) LOVE, Robert T.	JEON, Hyoungsuk
(22) 27.06.2013	NIMBALKER, Ajit	CHAE, Hyukjin
(54) METHOD AND APPARATUS FOR SENDING AND RECEIVING HARQ-ACK FEEDBACK INFORMATION	NORY, Ravikiran	(31) 201962930130 P
	NANGIA, Vijay	(32) 04.11.2019
	KUCHIBHOTLA, Ravi	(33) United States of America
		(51) H04L 5/00
		G01S 5/02
		G01S 5/00
		G01S 5/06

G01S 5/08	201161553185 P	KANG, Jiwon
G01S 5/10	201161553183 P	(31) 20190123409
(11) EP3911052	201161553184 P	20190084658
(21) EP20756535.9	(32) 05.12.2011	(32) 04.10.2019
(47) 30.08.2023	29.10.2011	12.07.2019
(87) KR2020002150	29.10.2011	(33) Korea (Republic)
20.08.2020	29.10.2011	Korea (Republic)
(22) 14.02.2020	29.10.2011	<hr/>
(54) POSITIONING IN WIRELESS	29.10.2011	(51) H04L 5/00
COMMUNICATION SYSTEM	29.10.2011	H04L 1/18
(73) LG Electronics Inc.	(33) United States of America	H04L 1/00
(72) CHA, Hyunsu	United States of America	(11) EP3934149
YOON, Sukhyon	United States of America	(21) EP21190712.6
(31) 201962806725 P	United States of America	(47) 30.08.2023
(32) 15.02.2019	United States of America	(22) 21.03.2008
(33) United States of America	United States of America	(54) TRANSMISSION OF DOWNLINK ACK/ NACK SIGNALS
<hr/>	United States of America	(73) Optis Wireless Technology, LLC
(51) H04L 5/00	(51) H04L 5/00	(72) FUKUOKA, Masaru
H04B 1/7143	H04J 11/00	GOLITSCHKE EDLER VON ELBWART, Alexander
(11) EP3576334	H04L 27/26	NISHIO, Akihiko
(21) EP18835559.8	(11) EP3855672	NAKAO, Seigo
(47) 30.08.2023	(21) EP21162065.3	(31) 2007211104
(87) CN2018095989	(47) 30.08.2023	2007120853
24.01.2019	(22) 08.11.2017	2007077502
(22) 17.07.2018	(54) UNIFIED SYNCHRONIZATION	(32) 13.08.2007
(54) METHOD FOR TRANSMITTING DMRS, AND COMMUNICATION DEVICE	CHANNEL DESIGN USED IN	01.05.2007
(73) Huawei Technologies Co., Ltd.	DIFFERENT COMMUNICATION MODES	23.03.2007
(72) BI, Xiaoyan	(73) QUALCOMM Incorporated	(33) Japan
GE, Shibin	(72) LY, Hung	Japan
REN, Xiang	XU, Hao	Japan
(31) 201710808095	SUN, Haitong	<hr/>
201710583011	JI, Tingfang	(51) H04L 5/00
(32) 08.09.2017	GAAL, Peter	H04L 5/14
17.07.2017	CHEN, Wanshi	H04L 1/1607
(33) China	LEE, Heechoon	(11) EP4059165
China	(31) 201715806210	(21) EP20808250.3
<hr/>	201662419398 P	(47) 30.08.2023
(51) H04L 5/00	201662419409 P	(87) US2020057789
H04B 7/06	(32) 07.11.2017	20.05.2021
(11) EP4075713	08.11.2016	(22) 28.10.2020
(21) EP22175953.3	08.11.2016	(54) BUNDLING OF UPLINK DM-RS IN CASE OF INTERRUPTED TRANSMISSIONS
(47) 30.08.2023	(33) United States of America	(73) Qualcomm Incorporated
(22) 13.10.2017	United States of America	(72) MUKKAVILLI, Krishna Kiran
(54) WIRELESS COMMUNICATION	United States of America	HUANG, Yi
METHOD AND DEVICE	<hr/>	MANOLAKOS, Alexandros
(73) GUANGDONG OPPO MOBILE	(51) H04L 5/00	YANG, Wei
TELECOMMUNICATIONS CORP., LTD.	H04L 1/18	(31) 20190100503
(72) SHI, Zhihua	H04B 7/024	(32) 11.11.2019
ZHANG, Zhi	H04B 7/06	(33) Greece
CHEN, Wenhong	H04B 17/373	<hr/>
(31) PCT/CN2017/104591	H04W 72/04	(51) H04L 5/00
(32) 29.09.2017	H04W 72/23	H04L 25/02
(33) World Intellectual Property Office (WIPO)	H04L 1/1822	(11) EP3535909
<hr/>	(11) EP3993300	(21) EP17798081.0
(51) H04L 5/00	(21) EP20841543.0	(47) 30.08.2023
H04B 7/26	(47) 30.08.2023	(87) US2017059930
H04W 72/0446	(87) KR2020009196	11.05.2018
H04W 72/52	21.01.2021	(22) 03.11.2017
(11) EP3691171	(22) 13.07.2020	(54) DEDICATED REFERENCE SIGNAL FOR PHYSICAL BROADCAST CHANNEL
(21) EP20162996.1	(54) METHOD FOR TRANSMITTING AND	(73) QUALCOMM Incorporated
(47) 30.08.2023	RECEIVING HARQ-ACK INFORMATION	(72) JI, Tingfang
(22) 29.10.2012	IN WIRELESS COMMUNICATION	CHEN, Wanshi
(54) SPECIAL SUBFRAME ALLOCATION IN	SYSTEM AND DEVICE FOR SAME	LEE, Heechoon
WIRELESS NETWORKS	(73) LG Electronics Inc.	ZHANG, Xiaoxia
(73) Comcast Cable Communications LLC	(72) KIM, Hyungtae	LY, Hung
(72) DINAN, Esmael	LEE, Hyunho	
(31) 201161567097 P	YANG, Suckchel	
201161553190 P	KIM, Seonwook	
201161553188 P	KIM, Kyuseok	
201161553186 P		

(31) 201715802149 201662417958 P	(11) EP4113886	(22) 27.07.2018
(32) 02.11.2017 04.11.2016	(21) EP22175271.0	(54) CONTROL INFORMATION SENDING/ RECEIVING METHOD AND DEVICE
(33) United States of America United States of America	(47) 30.08.2023	(73) HUAWEI TECHNOLOGIES CO., LTD.
(51) H04L 5/00	(22) 18.01.2013	(72) CAO, Yongzhao
H04L 27/00	(54) COMMUNICATION METHOD AND APPARATUS	QIN, Yi
H04W 16/14	(73) Huawei Technologies Co., Ltd.	ZHANG, Xu
H04W 52/02	(72) XUE, Lixia	XUE, Lixia
(11) EP3834332	GUAN, Lei	WANG, Jianguo
(21) EP19709516.9	(51) H04L 5/00	(31) 201710687956
(47) 30.08.2023	H04L 27/26	(32) 11.08.2017
(87) EP2019056367	H04W 72/04	(33) China
13.02.2020	H04W 48/12	(51) H04L 5/00
(22) 14.03.2019	(11) EP3584986	H04W 72/04
(54) WIDEBAND OPERATION IN AN UNLICENSED SPECTRUM WITH PLURAL SEPERATE FREQUENCY RANGES	(21) EP19188346.1	(11) EP3609114
(73) Panasonic Intellectual Property Corporation of America	(47) 30.08.2023	(21) EP18867066.5
(72) SUZUKI, Hidetoshi	(22) 11.09.2008	(47) 30.08.2023
KUANG, Quan	(54) METHOD FOR TRANSMITTING AND RECEIVING CONTROL INFORMATION THROUGH PDCCH	(87) CN2018106222
(31) 18188359	(73) Optis Cellular Technology, LLC	18.04.2019
(32) 09.08.2018	(72) AHN, Joon Kui	(22) 18.09.2018
(33) European Patent Office (EPO)	KIM, Ki Jun	(54) CHANNEL MEASUREMENT METHOD AND APPARATUS
(51) H04L 5/00	NOH, Yu Jin	(73) Huawei Technologies Co., Ltd.
H04L 27/18	LEE, Dae Won	(72) WU, Ye
H04L 27/34	LEE, Jung Hoon	JIN, Huangping
H04L 27/26	(31) 20080068633	BI, Xiaoyan
(11) EP3468089	3700008 P	HAN, Wei
(21) EP17830324.4	2957608 P	(31) 201710935554
(47) 30.08.2023	(32) 15.07.2008	(32) 10.10.2017
(87) CN2017089160	17.03.2008	(33) China
25.01.2018	19.02.2008	(51) H04L 5/00
(22) 20.06.2017	(33) Korea (Republic)	H04W 72/04
(54) SIGNAL TRANSMISSION METHOD AND DEVICE	United States of America	(11) EP3972175
(73) Huawei Technologies Co., Ltd.	United States of America	(21) EP19938465.2
(72) YAN, Min	(51) H04L 5/00	(47) 30.08.2023
WU, Tao	H04W 12/72	(87) CN2019097713
(31) 201610569237	H04W 8/26	28.01.2021
(32) 19.07.2016	H04W 12/10	(22) 25.07.2019
(33) China	H04W 8/18	(54) METHOD USED FOR TRANSMITTING DATA, AND TERMINAL DEVICE
(51) H04L 5/00	H04W 8/22	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
H04L 27/26	H04W 4/60	(72) CHEN, Wenhong
H04L 25/03	H04W 40/00	(51) H04L 5/00
(11) EP3644540	H04W 60/04	H04W 72/04
(21) EP18842402.2	H04W 88/02	H04L 25/00
(47) 30.08.2023	(11) EP3861782	H04L 27/26
(87) CN2018095218	(21) EP19795384.7	H04W 52/14
07.02.2019	(47) 30.08.2023	H04W 52/32
(22) 11.07.2018	(87) US2019054821	H04B 7/0404
(54) METHOD AND DEVICE FOR TRANSMITTING REFERENCE SIGNAL	09.04.2020	H04B 7/06
(73) Huawei Technologies Co., Ltd.	(22) 04.10.2019	(11) EP3896892
(72) WU, Dan	(54) TECHNIQUES FOR ROUTING ID UPDATE	(21) EP21178530.8
CHEN, Lei	(73) QUALCOMM Incorporated	(47) 30.08.2023
(31) 201710648853	(72) ZISIMOPOULOS, Haris	(22) 31.07.2017
(32) 01.08.2017	PALANIGOUNDER, Anand	(54) DATA TRANSMISSION METHOD AND TERMINAL DEVICE
(33) China	CHAPONNIERE, Lenaig Genevieve	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(51) H04L 5/00	(31) 201916592518	(72) CHEN, Wenhong
H04L 27/26	201862742151 P	(51) H04L 5/00
H04W 52/02	(32) 03.10.2019	H04W 72/04
H04W 52/50	05.10.2018	H04W 72/1268
H04W 52/54	(33) United States of America	H04W 72/566
H04J 11/00	United States of America	(11) EP3857805
	(51) H04L 5/00	(21) EP19867947.4
	H04W 56/00	(47) 30.08.2023
	(11) EP3896886	(87) KR2019012639
	(21) EP21159517.8	
	(47) 30.08.2023	

02.04.2020	(11) EP3771131	G01V 1/00
(22) 27.09.2019	(21) EP20184898.3	G01S 7/00
(54) APPARATUSES, METHODS, AND COMPUTER READABLE STORAGE MEDIUM FOR RESOURCE CONTROL	(47) 30.08.2023	G01S 13/87
(73) Samsung Electronics Co., Ltd.	(22) 09.07.2020	H04J 3/08
(72) YU, Bin	(54) USER EQUIPMENT PHYSICAL DOWNLINK CONTROL CHANNEL MONITORING CAPABILITY REPORTING	H04L 7/08
SUN, Feifei	(73) Samsung Electronics Co., Ltd.	H04W 56/00
FU, Jingxing	(72) BAE, Jung Hyun	H04J 3/06
QIAN, Chen	LIN, Hsien-Ping	G01S 15/87
(31) 201910736480	(31) 202016890961	(11) EP3345358
201910647673	201962878107 P	(21) EP16842952.0
201910329324	(32) 02.06.2020	(47) 30.08.2023
201811291514	24.07.2019	(87) US2016049795
201811133690	(33) United States of America	09.03.2017
(32) 09.08.2019	United States of America	(22) 31.08.2016
17.07.2019	(51) H04L 5/00	(54) ELECTROMAGNETIC WAVE PULSE SYNCHRONIZATION
23.04.2019	H04W 72/23	(73) Schlumberger Technology B.V.
31.10.2018	H04W 72/0446	(72) IRANPOUR, Kambiz
27.09.2018	(11) EP4096329	(31) 201562214965 P
(33) China	(21) EP22184858.3	(32) 05.09.2015
China	(47) 30.08.2023	(33) United States of America
China	(22) 20.01.2017	(51) H04L 9/00
China	(54) METHOD AND DEVICE FOR ALLOCATING CONTINUOUS SCHEDULING RESOURCE AND TRANSMITTING DATA USING THE CONTINUOUS SCHEDULING RESOURCE	H04L 9/32
China	(73) Datang Mobile Communications Equipment Co., Ltd.	(11) EP4046329
(51) H04L 5/00	(72) Chen, Li	(21) EP20808191.9
H04W 72/12	(31) 201610094451	(47) 30.08.2023
H04W 72/04	(32) 19.02.2016	(87) IB2020060295
H04L 5/14	(33) China	03.06.2021
(11) EP3713358	(51) H04L 5/00	(22) 03.11.2020
(21) EP18878709.7	H04W 74/08	(54) PROVABLY FAIR GAMES USING A BLOCKCHAIN
(47) 30.08.2023	H04W 52/00	(73) nChain Licensing AG
(87) JP2018038386	(11) EP3531603	(72) DAVIES, Jack Owen
23.05.2019	(21) EP16921942.5	WRIGHT, Craig Steven
(22) 16.10.2018	(47) 30.08.2023	TARTAN, Chloe
(54) TERMINAL DEVICE, BASE STATION, METHOD, AND RECORDING MEDIUM	(87) CN2016106376	(31) 201917284
(73) Sony Group Corporation	24.05.2018	(32) 27.11.2019
(72) TAKANO, Hiroaki	(22) 18.11.2016	(33) United Kingdom
(31) 2017220050	(54) DATA TRANSMISSION METHOD AND DEVICE	(51) H04L 9/00
(32) 15.11.2017	(73) Huawei Technologies Co., Ltd.	H04L 9/40
(33) Japan	(72) LI, Hantao	H04L 9/32
(51) H04L 5/00	LI, Zhenyu	G06F 21/64
H04W 72/21	LIU, Chuan	G06F 21/60
H04W 72/23	HU, Lei	(11) EP3961453
(11) EP3879913	(51) H04L 5/02	(21) EP21181981.8
(21) EP20834804.5	H04L 5/00	(47) 30.08.2023
(47) 30.08.2023	(11) EP3474482	(22) 28.06.2021
(87) KR2020008435	(21) EP16910091.4	(54) METHOD AND APPARATUS FOR INVOKING SMART CONTRACT, ELECTRONIC DEVICE, AND STORAGE MEDIUM
07.01.2021	(47) 30.08.2023	(73) Alipay (Hangzhou) Information Technology Co., Ltd.
(22) 29.06.2020	(87) CN2016092102	(72) LIU, Yan
(54) METHOD AND DEVICE FOR CONFIRMING SET RESOURCE IN WIRELESS COMMUNICATION SYSTEM	01.02.2018	WEI, Changzheng
(73) Samsung Electronics Co., Ltd.	(22) 28.07.2016	LI, Yongqiang
(72) JANG, Jaehyuk	(54) PILOT SIGNAL TRANSMISSION METHOD, TERMINAL EQUIPMENT, AND NETWORK EQUIPMENT	(31) 202010901426
BAEK, Sangkyu	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(32) 31.08.2020
AGIWAL, Anil	(72) TANG, Hai	(33) China
(31) 20190147854	(51) H04L 7/00	(51) H04L 9/06
20190080251	H04L 27/26	H04L 9/08
(32) 18.11.2019		G06F 9/30
03.07.2019		G06F 9/38
(33) Korea (Republic)		(11) EP3737031
Korea (Republic)		(21) EP20176663.1
(51) H04L 5/00		(47) 30.08.2023
H04W 72/23		(22) 25.03.2008
H04W 8/22		
H04W 72/0446		

(54) FLEXIBLE ARCHITECTURE AND INSTRUCTION FOR ADVANCED ENCRYPTION STANDARD (AES)	(33) India	(87) EP2019053176
(73) INTEL Corporation	(51) H04L 9/08	13.08.2020
(72) FEGHALI, Wajdi K.	H04L 9/32	(22) 08.02.2019
GOPAL, Vinodh	H04L 9/14	(54) TELEMATICS UNIT
DIXON, Martin	(11) EP3732819	(73) Uze! Mobility GmbH
CHENNUPATY, Srinivas	(21) EP18842711.6	(72) THELEN, Sebastian
RAGHUNANDAN, Makaram	(47) 30.08.2023	STUMPF, Moritz
GUERON, Shay	(87) FR2018053481	JABLOVSKI, Alexander N.
KOUNAVIS, Michael	04.07.2019	KAHMEN, Jan
(31) 729199	(22) 20.12.2018	(51) H04L 9/32
(32) 28.03.2007	(54) METHOD OF ESTABLISHING A SECURE LINK TO EXCHANGE INFORMATION BETWEEN A FIRST AND A SECOND TERMINAL	G06F 16/22
(33) United States of America	(73) Viaccess	H04L 9/00
(51) H04L 9/08	(72) BOIVIN, Mathieu	H04L 67/1097
G06F 21/62	DUBROEUCQ, Gilles	(11) EP3945694
G09C 1/00	(31) 1763371	(21) EP21179692.5
G06F 21/60	(32) 29.12.2017	(47) 30.08.2023
H04L 9/40	(33) France	(22) 16.06.2021
(11) EP3565174	(51) H04L 9/12	(54) BLOCK DATA ACCESS METHOD, BLOCK DATA STORAGE METHOD, AND APPARATUSES THEREOF
(21) EP17889385.5	H04L 9/06	(73) Alipay (Hangzhou) Information Technology Co., Ltd.
(47) 30.08.2023	H04L 9/08	(72) ZHU, Zhihui
(87) JP2017046732	G06F 7/72	YU, Shan
05.07.2018	H04L 9/40	(31) 202010759163
(22) 26.12.2017	(11) EP3494663	(32) 31.07.2020
(54) ACCESS MANAGEMENT SYSTEM, ACCESS MANAGEMENT METHOD, AND PROGRAM	(21) EP17837619.0	(33) China
(73) Zenmotech, Inc	(47) 30.08.2023	(51) H04L 9/32
(72) KUNII, Atsushi	(87) US2017045141	G06F 21/62
TOMOMURA, Kiyoshi	08.02.2018	G06F 21/60
(31) 2016252820	(22) 02.08.2017	(11) EP3622660
(32) 27.12.2016	(54) METHODS AND SYSTEMS FOR ENHANCED DATA-CENTRIC ENCRYPTION SYSTEMS USING GEOMETRIC ALGEBRA	(21) EP18797831.7
(33) Japan	(73) Algemetric, LLC.	(47) 30.08.2023
(51) H04L 9/08	(72) PAZ DE ARAUJO, Carlos, A.	(87) US2018032303
H04B 10/70	(31) 201762483227 P	15.11.2018
G02F 1/09	201762452246 P	(22) 11.05.2018
(11) EP3512154	201662370183 P	(54) SYSTEMS AND METHODS FOR CROWDSOURCING, ANALYZING, AND/OR MATCHING PERSONAL DATA
(21) EP17854788.1	(32) 07.04.2017	(73) Massachusetts Institute of Technology
(47) 30.08.2023	30.01.2017	(72) NUCKCHADY, Sandeep
(87) CN20171103058	02.08.2016	HUANG, Lauren
05.04.2018	(33) United States of America	LIU, Dianbo
(22) 23.09.2017	United States of America	ZHANG, Zhizhuo
(54) ENCODING APPARATUS, AND QUANTUM KEY DISTRIBUTION DEVICE AND SYSTEM BASED ON SAME	United States of America	KIM, Anne
(73) Huawei Technologies Co., Ltd.	(51) H04L 9/30	KELLIS, Manolis
(72) FANG, Zhifang	G09C 1/00	(31) 201862632330 P
SU, Changzheng	(11) EP3767874	201762505822 P
XIAO, Xinhua	(21) EP19819297.3	(32) 19.02.2018
LIANG, Wenye	(47) 30.08.2023	12.05.2017
(31) 201610856277	(87) JP2019019248	(33) United States of America
(32) 27.09.2016	19.12.2019	United States of America
(33) China	(22) 15.05.2019	(51) H04L 9/32
(51) H04L 9/08	(54) DECRYPTING DEVICE, ENCRYPTING DEVICE, AND ENCRYPTION SYSTEM	H04L 9/00
H04L 9/16	(73) NIPPON TELEGRAPH AND TELEPHONE CORPORATION	(11) EP3605944
(11) EP3813293	Mitsubishi Electric Corporation	(21) EP18186602.1
(21) EP20199931.5	(72) TAKASHIMA, Katsuyuki	(47) 30.08.2023
(47) 30.08.2023	TOMIDA, Junichi	(22) 31.07.2018
(22) 02.10.2020	(31) 2018110987	(54) DOCUMENTING TIMESTAMPS WITHIN A BLOCKCHAIN
(54) DYNAMIC SECURITY APPROACH FOR WAIC BASEBAND SIGNAL TRANSMISSION AND RECEPTION	(32) 11.06.2018	(73) Siemens Healthcare GmbH
(73) Rosemount Aerospace Inc.	(33) Japan	(72) Krüger, Benedikt
(72) NATH, Pranay Kanti	(51) H04L 9/32	(51) H04L 9/32
(31) 201911042660	(11) EP3921973	H04W 12/08
(32) 21.10.2019	(21) EP19704316.9	H04W 8/18
	(47) 30.08.2023	H04W 8/24
		H04M 1/67
		H04M 1/725

H04W 12/12	SENSITIVE DATA TRANSMITTED	14.01.2021
H04W 88/02	OVER A NETWORK	(22) 06.07.2020
H04W 12/06	(73) Mastercard International Incorporated	(54) SYSTEM, METHOD, AND COMPUTER
(11) EP3657836	(72) DHARMAIAH KALLUGUDDE, Manu	PROGRAM PRODUCT FOR THIRD-
(21) EP18835693.5	(51) H04L 9/40	PARTY AUTHORIZATION
(47) 30.08.2023	B60R 16/023	(73) Visa International Service Association
(87) CN2018096365	H04L 9/32	(72) DHIMAN, Deepak
24.01.2019	H04L 12/40	BHASIN, Gurpreet, Singh
(22) 20.07.2018	H04L 67/12	CHAMBERLAIN, Eric, Willard
(54) METHOD AND DEVICE FOR	H04L 43/50	(31) 201962870834 P
GENERATING AND INJECTING	(11) EP3925192	(32) 05.07.2019
SIMLOCK PASSWORD	(21) EP20704514.7	(33) United States of America
(73) Huizhou TCL Mobile Communication Co.,	(47) 30.08.2023	(51) H04L 9/40
Ltd.	(87) EP2020053254	G06F 21/55
(72) XIE, Hanwu	20.08.2020	(11) EP4044505
ZHONG, Xiaofen	(22) 10.02.2020	(21) EP22156540.1
(31) 201710595676	(54) METHOD AND REPRODUCTION UNIT	(47) 30.08.2023
(32) 20.07.2017	FOR REPRODUCING PROTECTED	(22) 14.02.2022
(33) China	MESSAGES	(54) DETECTING BOTNETS
(51) H04L 9/40	(73) dSPACE GmbH	(73) Cujo LLC
(11) EP3257224	(72) MÜLLER, Björn	(72) Kangas, Santeri
(21) EP16707858.3	(31) 102019103331	Marozas, Leonardas
(47) 30.08.2023	(32) 11.02.2019	Tiernan, Sean
(87) FR2016050210	(33) Germany	Savin, Filip
18.08.2016	(51) H04L 9/40	Cafasso, Matteo
(22) 02.02.2016	G06F 21/00	(31) 202117175872
(54) TECHNIQUE FOR CONNECTING TO A	G06F 21/50	(32) 15.02.2021
SERVICE	G06F 21/57	(33) United States of America
(73) ORANGE	H04L 41/28	(51) H04L 9/40
(72) LAVEDRINE, Rémi	(11) EP3776559	G06F 21/55
SACHET, Patrick	(21) EP19785702.2	(11) EP4080822
WEENS, Franck	(47) 30.08.2023	(21) EP22169106.6
(31) 1551230	(87) IB2019052916	(47) 30.08.2023
(32) 13.02.2015	17.10.2019	(22) 20.04.2022
(33) France	(22) 09.04.2019	(54) METHODS AND SYSTEMS FOR
(51) H04L 9/40	(54) METHODS SYSTEMS DEVICES	EFFICIENT THREAT CONTEXT-AWARE
(11) EP3868068	CIRCUITS AND FUNCTIONALLY	PACKET FILTERING FOR NETWORK
(21) EP18804601.5	RELATED MACHINE EXECUTABLE	PROTECTION
(47) 30.08.2023	INSTRUCTIONS FOR	(73) Centripetal Limited
(87) EP2018081615	TRANSPORTATION MANAGEMENT	(72) ROGERS, Jonathan R.
22.05.2020	NETWORK CYBERSECURITY	GEREMIA, Peter
(22) 16.11.2018	(73) Cervello Ltd.	MUTOLO, Vincent
(54) DISTRIBUTING ANALYSIS MODELS	(72) KAFZAN, Shaked	MOORE, Sean
(73) Huawei Technologies Co., Ltd.	AHARON, Eitam	(31) 202217713827
(72) LOWE, Christopher Kevan	ONN, Roie	202217695047
WU, Gengshi	AVIDAN, Nadav	202117508614
LUO, Zhong	(31) 201862730559 P	202117508596
(51) H04L 9/40	201862679991 P	202117235544
(11) EP3611873	201862668825 P	(32) 05.04.2022
(21) EP19197540.8	201862654558 P	15.03.2022
(47) 30.08.2023	(32) 13.09.2018	22.10.2021
(22) 23.09.2014	04.06.2018	22.10.2021
(54) DATA SECURITY USING REQUEST-	09.05.2018	20.04.2021
SUPPLIED KEYS	09.04.2018	(33) United States of America
(73) Amazon Technologies, Inc.	(33) United States of America	United States of America
(72) ROTH, Gregory Branchek	United States of America	United States of America
BRANDWINE, Eric Jason	United States of America	United States of America
(31) 201314037292	United States of America	United States of America
(32) 25.09.2013	(51) H04L 9/40	(51) H04L 9/40
(33) United States of America	G06F 21/33	G06F 21/55
(51) H04L 9/40	H04L 9/32	G06F 21/57
(11) EP3832968	G06Q 20/12	(11) EP4049424
(21) EP19213485.6	H04L 9/08	(21) EP20792593.4
(47) 30.08.2023	G06Q 20/38	(47) 30.08.2023
(22) 04.12.2019	(11) EP3994593	(87) EP2020078643
(54) METHOD FOR SECURE	(21) EP20837172.4	29.04.2021
TRANSACTION BY MASKING	(47) 30.08.2023	(22) 12.10.2020
	(87) US2020040857	(54) ANOMALY DETECTION

(73) Senseon Tech Ltd	(87) US2019020856	(54) SYSTEM RESOURCE MANAGEMENT
(72) CAITHNESS, Neil	19.09.2019	IN SELF-HEALING NETWORKS
(31) 201915265	(22) 06.03.2019	(73) Cisco Technology, Inc.
(32) 22.10.2019	(54) AUTONOMOUS CROSS-SCOPE	(72) SINGH, Pramila Deshraj
(33) United Kingdom	SECRETS MANAGEMENT	SULEMAN, Azeem M.
(51) H04L 9/40	(73) Microsoft Technology Licensing, LLC	VARADHARAJAN, Sree Balaji
G06F 21/60	(72) MUNSHI, Vyom P.	JANAKIRAMAN, Rajagopalan
G06F 21/64	WANG, Chuang	ASGHAR, Javed
G06F 13/42	LOUNSBERRY, Brian S.	GUPTA, Sachin
(11) EP3706005	REDDY, Chandan R.	(31) 201916525362
(21) EP20154933.4	CHANDRASEKARAN, Ashok	(32) 29.07.2019
(47) 30.08.2023	TEVOSYAN, Kahren	(33) United States of America
(22) 31.01.2020	NIDADAVOLU, Srinivas S.	(51) H04L 9/40
(54) SECURE STREAM PROTOCOL FOR	RUSSINOVICH, Mark Eugene	H04L 67/10
SERIAL INTERCONNECT	(31) 201815920827	G06F 21/60
(73) INTEL Corporation	(32) 14.03.2018	G06F 40/10
(72) Harriman, David J.	(33) United States of America	H04L 9/00
Schoinas, Ioannis T.	(51) H04L 9/40	(11) EP3644575
Shanbhogue, Vedvyas	H04L 9/08	(21) EP19185592.3
Makaram, Raghunandan	G06F 21/60	(47) 30.08.2023
Chhabra, Siddhartha	G06F 21/62	(22) 10.07.2019
(31) 201916445019	(11) EP3691216	(54) SECURE REMOTE COMPUTER
201962815554 P	(21) EP18861213.9	SYSTEM
(32) 18.06.2019	(47) 30.08.2023	(73) Airbus Defence and Space GmbH
08.03.2019	(87) CN2018096702	Airbus Defence and Space Limited
(33) United States of America	04.04.2019	(72) BLASS, Erik Oliver
United States of America	(22) 23.07.2018	FRANCIS, Patrick
(51) H04L 9/40	(54) KEY OFFSITE STORAGE-BASED DATA	BOURNE, Simon
G06F 21/64	ENCRYPTION STORAGE SYSTEM	(31) 201811759
H04L 9/00	AND METHOD	(32) 18.07.2018
(11) EP3761207	(73) Anhui Asky Quantum Technology Co.,	(33) United Kingdom
(21) EP19382573.4	Ltd.	(51) H04L 9/40
(47) 30.08.2023	(72) LIU, Jingjing	H04W 12/00
(22) 04.07.2019	HAN, Zhengfu	H04W 12/02
(54) METHOD FOR ENTRUSTING	MIAO, Chunhua	H04W 8/02
BLOCKCHAIN OPERATIONS	WANG, Jianfeng	H04L 9/32
CONTENTS	LIU, Yun	H04L 9/06
(73) Lleidanetworks Serveis Telemàtics, S.A.	YIN, Kai	H04L 9/08
(72) SAPENA SOLER, FRANCISCO	(31) 201710880316	H04W 8/18
GALLO DE LOS MOZOS, MANUEL	(32) 26.09.2017	H04W 8/26
MARIA	(33) China	H04W 12/08
(51) H04L 9/40	(51) H04L 9/40	H04W 60/04
H04L 5/00	H04L 12/46	(11) EP3673675
H04L 69/323	(11) EP3557822	(21) EP17922444.9
(11) EP3809662	(21) EP19170582.1	(47) 30.08.2023
(21) EP19833090.4	(47) 30.08.2023	(87) FI2017050583
(47) 30.08.2023	(22) 23.04.2019	28.02.2019
(87) CN2019076921	(54) FULLY QUALIFIED DOMAIN NAME-	(22) 21.08.2017
16.01.2020	BASED TRAFFIC CONTROL FOR	(54) REGISTERING USER EQUIPMENT
(22) 05.03.2019	VIRTUAL PRIVATE NETWORK ACCESS	WITH A VISITED PUBLIC LAND
(54) SIGNAL FIELD INDICATION METHOD	CONTROL	MOBILE NETWORK
AND DEVICE	(73) Pulse Secure, LLC	(73) Nokia Technologies Oy
(73) HUAWEI TECHNOLOGIES CO., LTD.	(72) V, John A	(72) JERICHOW, Anja
(72) Li, Yanchun	KOTTIKAL, Shanavas	HORN, Günther
SHILO, Shimon	KOIKARA, George Matthew	(51) H04L 9/40
REDLICH, Oded	THANKAPPAN, Prabhath	H04W 12/02
TSODIK, Genadiy	(31) 201841015035	H04W 12/108
YU, Jian	(32) 20.04.2018	H04L 61/5092
EPSTEIN, Leonid	(33) India	H04W 84/18
(31) 201810746392	(51) H04L 9/40	H04L 101/69
(32) 09.07.2018	H04L 12/46	H04L 101/627
(33) China	(11) EP4005180	(11) EP3695588
(51) H04L 9/40	(21) EP20757077.1	(21) EP18782821.5
H04L 9/08	(47) 30.08.2023	(47) 30.08.2023
G06F 21/10	(87) US2020043875	(87) US2018049148
(11) EP3765982	04.02.2021	18.04.2019
(21) EP19712651.9	(22) 28.07.2020	(22) 31.08.2018
(47) 30.08.2023		

(54) CONTEXT-BASED DEVICE ADDRESS GENERATION	02.07.2010	H04W 84/12
(73) QUALCOMM Incorporated	02.07.2010	H04W 48/20
(72) GRAUBE, Nicolas	02.07.2010	D06F 33/30
(31) 201715730292	02.07.2010	D06F 34/05
(32) 11.10.2017	(33) United Kingdom	(11) EP3641228
(33) United States of America	United Kingdom	(21) EP19208280.8
(51) H04L 12/10	United Kingdom	(47) 30.08.2023
(11) EP3874681	United Kingdom	(22) 27.07.2012
(21) EP19809682.8	United Kingdom	(54) LAUNDRY MACHINE AND ONLINE SYSTEM INCLUDING THE SAME
(47) 30.08.2023	United Kingdom	(73) LG Electronics Inc.
(87) US2019059442	(51) H04L 12/18	(72) HA, Mikyung
07.05.2020	(11) EP3691180	(31) 20110074770
(22) 01.11.2019	(21) EP19200312.7	(32) 27.07.2011
(54) SNAP ON POWER OVER ETHERNET (POE) MONITOR SYSTEM	(47) 30.08.2023	(33) Korea (Republic)
(73) Elo Touch Solutions, Inc.	(22) 17.09.2008	(51) H04L 12/46
(72) EKANAYAKE, Asela	(54) METHOD, DEVICE AND SYSTEM FOR CONTROLLING PUSH MESSAGE	H04L 9/40
FAREEDUDDIN, Mohammad	(73) Huawei Technologies Co., Ltd.	H04L 12/28
PERRY, Brian	(72) WANG, Lei	H04L 61/5007
FERNANDO, Ranil	CHEN, Guoqiao	H04L 61/5076
YANG, Jake	ZHANG, Huiping	(11) EP3796602
(31) 201816177593	DONG, Ting	(21) EP20163886.3
(32) 01.11.2018	YANG, Jian	(47) 30.08.2023
(33) United States of America	FAN, Shu'nan	(22) 18.03.2020
(51) H04L 12/12	(31) 200710154667	(54) NETWORK SYSTEM, NETWORK OPERATION CENTER, NETWORK DEVICE, AND PROGRAM
(11) EP3952225	(32) 21.09.2007	(73) FUJIFILM Business Innovation Corp.
(21) EP20782193.5	(33) China	(72) TAKEDA, Koji
(47) 30.08.2023	(51) H04L 12/18	IKENAGA, Hiroki
(87) JP2020013127	H04L 67/10	(31) 2019170685
08.10.2020	G06F 9/54	(32) 19.09.2019
(22) 24.03.2020	G06F 16/00	(33) Japan
(54) APPARATUS NETWORK SYSTEM	H04L 45/302	(51) H04L 12/46
(73) DAIKIN INDUSTRIES, LTD.	H04L 9/40	H04W 76/12
(72) DOHMAE, Hiroshi	H04L 67/1008	H04W 88/16
HIGASHIYAMA, Shin	H04L 51/212	H04W 92/24
(31) 2019067793	H04L 51/214	(11) EP3021633
(32) 29.03.2019	H04L 51/224	(21) EP14823353.9
(33) Japan	H04L 67/55	(47) 30.08.2023
(51) H04L 12/14	H04L 67/563	(87) JP2014003675
H04W 28/10	H04L 67/568	15.01.2015
G06F 11/14	H04L 67/63	(22) 10.07.2014
H04L 41/147	(11) EP3669274	(54) COMMUNICATION SYSTEM AND COMMUNICATION METHOD WITH MULTIPLE GTP-U TUNNELS
H04L 41/149	(21) EP18747050.5	(73) NEC Corporation
H04L 47/70	(47) 30.08.2023	(72) AKIYOSHI, Ippei
H04L 67/1095	(87) US2018039629	(31) 2013145925
H04W 4/24	21.02.2019	(32) 11.07.2013
(11) EP3748907	(22) 27.06.2018	(33) Japan
(21) EP20187040.9	(54) EVENT DELIVERY	(51) H04L 25/02
(47) 30.08.2023	(73) Microsoft Technology Licensing, LLC	H03K 5/003
(22) 04.07.2011	(72) VASTERS, Clemens Friedrich	(11) EP3829121
(54) CHARGING IN TELECOMMUNICATIONS NETWORKS	CAITUIRO MONGE, Hillary	(21) EP19842087.9
(73) Vodafone IP Licensing Limited	KALYANA SUNDARAM, Jayaraman	(47) 30.08.2023
(72) CHAMI, Youssef	RAVIPATI, Venkata Raja Gopal	(87) JP2019029048
ALLEN, Steve	MADAN, Hitesh	30.01.2020
FOX, David	STUCKI, David Leon	(22) 24.07.2019
MCCRACKEN, John	RUIZ-MERAZ, Cesar Martin	(54) WAVEFORM SHAPING CIRCUIT, SIGNAL GENERATION DEVICE, AND SIGNAL READING SYSTEM
(31) 201016343	ARADHYULA BHAVANI, PadmaPriya	(73) Hioki E.E. Corporation
201015219	(31) 201815907001	(72) SAKAI Tomoharu
201011176	201762545806 P	IKEDA Hiroyoshi
201011177	(32) 27.02.2018	YANAGISAWA Koichi
201011166	15.08.2017	KASAI Shin
201011162	(33) United States of America	(31) 2019133343
201011168	United States of America	
(32) 29.09.2010	(51) H04L 12/28	
13.09.2010	H04L 41/0806	
	H04L 41/082	

2018140191	DATA THROUGHPUT OVER	(54) METHOD FOR REDUCTION OF
(32) 19.07.2019	COMMUNICATION CHANNELS	SIGNAL PEAK TO AVERAGE
26.07.2018	(73) Ciphersip Systems Ltd	POWER OF AN INPUT SIGNAL OF A
(33) Japan	(72) CASPI, Eldad	TRANSMITTER DEVICE
Japan	EZER, Rami	(73) SHENZHEN GOODIX TECHNOLOGY
(51) H04L 25/02	MICHAELI, David	CO., LTD.
H04W 88/08	MARAN, Yuval Yizhaq	(72) Fließ, Thomas
(11) EP3055980	(31) 201862733712 P	(51) H04L 27/26
(21) EP14851729.5	201862702392 P	H04L 5/00
(47) 30.08.2023	(32) 20.09.2018	(11) EP3777001
(87) US2014059371	24.07.2018	(21) EP19799000.5
16.04.2015	(33) United States of America	(47) 30.08.2023
(22) 06.10.2014	United States of America	(87) KR2019005602
(54) SYSTEMS AND METHODS FOR	(51) H04L 27/00	14.11.2019
NOISE FLOOR OPTIMIZATION IN	H04W 74/08	(22) 10.05.2019
DISTRIBUTED ANTENNA SYSTEM	H04L 5/00	(54) METHOD AND APPARATUS FOR
WITH DIRECT DIGITAL INTERFACE TO	H04W 16/14	IMPROVING IN AND RELATING
BASE STATION	H04W 72/04	TO REFERENCE SIGNALS IN A
(73) CommScope Technologies LLC	H04W 72/12	TELECOMMUNICATION NETWORK
(72) WALA, Philip M.	(11) EP3718273	(73) Samsung Electronics Co., Ltd.
ZAVADSKY, Dean	(21) EP18826471.7	(72) Qi, Yinan
(31) 201361887703 P	(47) 30.08.2023	(31) 201807654
(32) 07.10.2013	(87) US2018063281	(32) 11.05.2018
(33) United States of America	06.06.2019	(33) United Kingdom
(51) H04L 25/03	(22) 30.11.2018	(51) H04L 27/26
(11) EP3412011	(54) SUBBAND BASED UPLINK ACCESS	H04L 5/00
(21) EP17702413.0	FOR NR-SS	(11) EP3829128
(47) 30.08.2023	(73) QUALCOMM Incorporated	(21) EP20210584.7
(87) EP2017052461	(72) SUN, Jing	(47) 30.08.2023
10.08.2017	KADOUS, Tamer	(22) 08.05.2009
(22) 03.02.2017	LEI, Jing	(54) APPARATUS AND METHOD FOR
(54) MATRIX EQUALIZER FOR CMFB	(31) 201816204800	OBTAINING SYMBOL TIMING
TRANSMISSION IN DISPERSIVE	201762593671 P	SYNCHRONIZATION ROBUST
CHANNELS	(32) 29.11.2018	TO FREQUENCY OFFSET IN
(73) Hitachi Energy Switzerland AG	01.12.2017	CELL SEARCH OF WIRELESS
(72) DZUNG, Dacfey	(33) United States of America	COMMUNICATION SYSTEM
(31) 16154331	United States of America	(73) Electronics and Telecommunications
(32) 04.02.2016	(51) H04L 27/04	Research Institute
(33) European Patent Office (EPO)	H04B 7/06	(72) KIM, Young-Hoon
(51) H04L 25/08	H04L 1/00	KIM, Keun Young
H04L 25/02	H04L 5/00	CHANG, Kapseok
H04B 7/155	H04L 1/06	WON, Seuck Ho
H04B 1/525	H04L 27/26	KIM, Seong Rag
H04L 25/03	(11) EP3759879	(31) 20080130231
H04W 88/08	(21) EP19768231.3	20080043423
(11) EP3829122	(47) 30.08.2023	(32) 19.12.2008
(21) EP21151379.1	(87) CN2019077822	09.05.2008
(47) 30.08.2023	19.09.2019	(33) Korea (Republic)
(22) 21.01.2015	(22) 12.03.2019	Korea (Republic)
(54) MULTI-STAGE ISOLATION SUB-	(54) SIMPLIFIED DETECTION FOR SPATIAL	(51) H04L 27/26
SYSTEM FOR A REMOTE ANTENNA	MODULATION AND SPACE-TIME	H04W 52/02
UNIT	BLOCK CODING WITH ANTENNA	(11) EP3824607
(73) CommScope Technologies LLC	SELECTION	(21) EP19742361.9
(72) LANGE, Keld Knut	(73) Huawei Technologies Co., Ltd.	(47) 30.08.2023
(31) 201461931936 P	(72) SUH, Jung Hoon	(87) EP2019069468
(32) 27.01.2014	AU, Kwok Shum	23.01.2020
(33) United States of America	ABOUL-MAGD, Osama	(22) 19.07.2019
(51) H04L 25/493	(31) 201816129046	(54) A METHOD AND A DEVICE TO
H03K 5/1534	201862644279 P	GENERATE AN AMPLITUDE-BASED
(11) EP3827566	(32) 12.09.2018	MODULATION WIRELESS SIGNAL
(21) EP19749801.7	16.03.2018	USING OFDM TO BE RECEIVED BY
(47) 30.08.2023	(33) United States of America	A LOW-POWER NON-COHERENT
(87) IB2019056099	United States of America	RECEIVER
30.01.2020	(51) H04L 27/26	(73) Universitat Politècnica de Catalunya
(22) 17.07.2019	(11) EP3716559	(72) DEMIRKOL, Ilker Seyfettin
(54) MODULATING SIGNAL LEVEL	(21) EP19164974.8	GARCIA VILLEGAS, Eduardo
TRANSITIONS TO INCREASE	(47) 30.08.2023	LÓPEZ AGUILERA, Maria Elena
	(22) 25.03.2019	CALVERAS AUGÉ, Anna Maria

PARADELLS ASPAS, José	H04L 47/122	(47) 30.08.2023
CERVIÀ CABALLÉ, Martí	H04L 47/125	(87) US2018043010
(31) 18382547	H04L 47/70	24.01.2019
(32) 20.07.2018	H04L 67/101	(22) 20.07.2018
(33) European Patent Office (EPO)	H04L 41/0273	(54) SERVICE FUNCTION CHAIN
(51) H04L 41/0681	H04L 41/0823	OPTIMIZATION USING LIVE TESTING
H04L 43/0829	H04L 41/142	(73) Cisco Technology, Inc.
H04W 24/08	H04L 41/147	(72) MORTENSEN, Magnus
H04L 43/026	H04L 43/026	ROBERTSON, Michael
H04L 43/028	(11) EP3876476	WHITE, David, C.
H04L 43/16	(21) EP21155523.0	JOHNSTON, Jay, Kemper
(11) EP3796597	(47) 30.08.2023	(31) 201715656607
(21) EP19802534.8	(22) 05.02.2021	(32) 21.07.2017
(47) 30.08.2023	(54) NETWORK BANDWIDTH	(33) United States of America
(87) CN2019084497	MANAGEMENT	(51) H04L 43/045
21.11.2019	(73) Accenture Global Solutions Limited	H04L 41/12
(22) 26.04.2019	(72) PAKIRA, Kaustav	H04L 43/08
(54) MEASUREMENT METHOD AND	SINGH BAWA, Gurpreet	H04L 41/046
ACQUISITION METHOD FOR PACKET	CHAKRABORTY, Souvik	(11) EP3970321
LOSS RATE, TERMINAL, AND	RULIFFSON, Rebecca Lynn	(21) EP20724701.6
NETWORK DEVICE	(31) 202016808865	(47) 30.08.2023
(73) Vivo Mobile Communication Co., Ltd.	(32) 04.03.2020	(87) US2020029271
(72) WU, Yumin	(33) United States of America	26.11.2020
(31) 201810481872	(51) H04L 41/12	(22) 22.04.2020
(32) 18.05.2018	H04L 41/40	(54) SERVICE GRAPH HIGHLIGHTS
(33) China	H04L 43/0876	MISSING NODES AND LINKS
(51) H04L 41/0813	H04L 43/20	(73) Citrix Systems, Inc.
H04L 43/026	H04L 67/50	(72) VITTAL, Chiradeep
H04L 43/08	H04L 67/1004	(31) 201916415810
H04L 41/0894	H04L 67/1031	(32) 17.05.2019
H04L 41/0873	(11) EP3707883	(33) United States of America
H04L 9/40	(21) EP18876654.7	(51) H04L 43/045
(11) EP3442164	(47) 30.08.2023	H04L 41/142
(21) EP17210996.9	(87) US2018059924	H04L 43/026
(47) 30.08.2023	16.05.2019	H04L 43/065
(22) 28.12.2017	(22) 09.11.2018	H04L 43/067
(54) REAL-TIME CONFIGURATION	(54) AUTOMATED LOAD BALANCER	H04L 41/40
DISCOVERY AND MANAGEMENT	DISCOVERY	H04L 43/20
(73) ExtraHop Networks, Inc.	(73) Zscaler, Inc.	(11) EP3780502
(72) FRY, Jeffery Bradford	(72) SMITH, Peter	(21) EP19207335.1
MUKERJI, Arindum	KEISER, Thomas Evan Jr.	(47) 30.08.2023
(31) 201715675216	O'NEIL, John	(22) 06.11.2019
(32) 11.08.2017	(31) 201762584456 P	(54) UNDERLAY-OVERLAY CORRELATION
(33) United States of America	(32) 10.11.2017	(73) Juniper Networks, Inc.
(51) H04L 41/0893	(33) United States of America	(72) CHITALIA, Harshit Naresh
H04L 45/64	(51) H04L 41/16	MORE, Anuja
H04L 41/122	(11) EP4042636	(31) 201916541947
H04L 45/42	(21) EP20771904.8	(32) 15.08.2019
H04L 45/02	(47) 30.08.2023	(33) United States of America
(11) EP3673629	(87) EP2020076245	(51) H04L 43/0805
(21) EP18859399.0	15.04.2021	H04L 43/10
(47) 30.08.2023	(22) 21.09.2020	H04L 12/46
(87) CN2018106942	(54) ORCHESTRATING SANDBOXING OF	H04L 45/50
28.03.2019	COGNITIVE NETWORK MANAGEMENT	H04L 45/00
(22) 21.09.2018	FUNCTIONS	(11) EP3849138
(54) TOPOLOGY-AWARE CONTROLLER	(73) Nokia Solutions and Networks Oy	(21) EP19868102.5
ASSOCIATIONS IN SOFTWARE-	(72) ALI-TOLPPA, Janne Tapio	(47) 30.08.2023
DEFINED NETWORKS	MWANJE, Stephen	(87) CN2019107161
(73) Huawei Technologies Co., Ltd.	(31) 19202386	02.04.2020
(72) WEI, Wei	(32) 10.10.2019	(22) 23.09.2019
ZHANG, Jingjing	(33) European Patent Office (EPO)	(54) METHODS AND DEVICES FOR
QIAN, Liurong	(51) H04L 41/5041	OBTAINING INFORMATION OF SRV6
(31) 201715712886	H04L 41/40	TUNNEL
(32) 22.09.2017	H04L 43/20	(73) HUAWEI TECHNOLOGIES CO., LTD.
(33) United States of America	H04L 43/026	(72) HUA, Ting
(51) H04L 41/0896	H04L 43/08	ZHANG, Yongkang
H04L 43/04	(11) EP3656090	SHI, Jianjian
H04L 43/0876	(21) EP18756001.6	(31) 201811151917

(32) 29.09.2018	(22) 12.03.2020	(51) H04L 47/11
(33) China	(54) SEQUENCE NUMBER CHECKSUM FOR LINK STATE PROTOCOLS	H04L 47/12
(51) H04L 45/00	(73) Juniper Networks, Inc.	H04L 1/00
H04L 45/50	(72) NATARAJAN, Alampoondi Eswaran	H04L 5/00
H04L 45/64	HEGDE, Shraddha	H04L 47/27
H04L 69/22	JOSEPH, William Britto Arimboor	(11) EP3694164
H04L 12/46	(31) 201916721698	(21) EP18869868.2
(11) EP3850814	(32) 19.12.2019	(47) 30.08.2023
(21) EP19872406.4	(33) United States of America	(87) CN2018111632
(47) 30.08.2023	(51) H04L 45/02	(32) 02.05.2019
(87) CN2019111439	H04L 45/302	(22) 24.10.2018
23.04.2020	H04L 45/00	(54) DATA TRANSMISSION METHOD AND DEVICE, AND COMPUTER STORAGE MEDIUM
(22) 16.10.2019	(11) EP3934183	(73) Huawei Technologies Co., Ltd.
(54) METHOD AND SYSTEM FOR NETWORK ROUTING	(21) EP21176452.7	(72) LIU, Xiaoli
(73) HUAWEI TECHNOLOGIES CO., LTD.	(47) 30.08.2023	HU, Nongda
(72) AKHAVAIN MOHAMMADI, Mehdi	(22) 13.12.2016	CAO, Zheng
Arashmid	(54) SERVICE FUNCTION CHAIN SFC-BASED COMMUNICATION METHODS, AND APPARATUSES	(31) 201711010402
(31) 201916567455	(73) Huawei Technologies Co., Ltd.	(32) 25.10.2017
201862748130 P	(72) DONG, Jie	(33) China
(32) 11.09.2019	CHEN, Guoyi	(51) H04L 47/125
19.10.2018	XU, Ling	H04L 45/24
(33) United States of America	(31) 201511004831	H04L 49/00
United States of America	(32) 28.12.2015	(11) EP3890257
(51) H04L 45/00	(33) China	(21) EP20773120.9
H04L 51/00	(51) H04L 45/24	(47) 30.08.2023
H04L 9/08	H04L 45/30	(87) CN2020077311
H04W 84/18	H04L 45/00	24.09.2020
H04L 67/12	H04L 47/125	(22) 29.02.2020
H04L 9/32	H04L 47/24	(54) FLOW BALANCING METHOD AND DEVICE
H04L 9/40	H04L 47/2425	(73) Huawei Technologies Co., Ltd.
H04L 69/165	H04L 47/2441	(72) LIU, Quan
H04L 67/00	H04L 47/10	TIAN, Yawen
H04W 12/069	(11) EP3855686	(31) 201910205012
H04W 24/04	(21) EP21152730.4	(32) 18.03.2019
H04W 24/10	(47) 30.08.2023	(33) China
H04W 52/02	(22) 21.01.2021	(51) H04L 47/22
H04W 76/10	(54) PACKET FORWARDING METHOD AND APPARATUS	H04L 47/34
H04W 76/14	(73) HUAWEI TECHNOLOGIES CO., LTD.	H04W 28/02
(11) EP3905600	(72) WANG, Xiaozhong	(11) EP3972211
(21) EP21180151.9	YANG, Wenbin	(21) EP20827766.5
(47) 30.08.2023	SONG, Jian	(47) 30.08.2023
(22) 23.06.2014	ZHAO, Xiquan	(87) CN2020093666
(54) EFFICIENT COMMUNICATION FOR DEVICES OF A HOME NETWORK	ZHENG, Degao	24.12.2020
(73) Google LLC	WANG, Zhen	(22) 01.06.2020
(72) NEELEY, Matthew G.	(31) 202010072416	(54) METHOD FOR RESHAPING DATA VOLUME, NETWORK APPARATUS, AND COMPUTER PROGRAM PRODUCT
LOGUE, Jay D.	(32) 21.01.2020	(73) Huawei Technologies Co. Ltd.
HARDISON, Osborne B.	(33) China	(72) HE, Enhua
BOROSS, Christopher A.	(51) H04L 45/302	YAN, Yong
SCHULTZ, Richard J.	H04L 47/24	QIN, Yan
ERICKSON, Grant M.	(11) EP3868064	(31) 201910537573
SMITH, Zachary B.	(21) EP19887261.6	(32) 20.06.2019
GUJJARU, Sunny P.	(47) 30.08.2023	(33) China
(31) 201313926335	(87) CN2019120082	(51) H04L 51/02
(32) 25.06.2013	28.05.2020	H04L 51/02
(33) United States of America	(22) 22.11.2019	G06F 16/332
(51) H04L 45/02	(54) SERVICE FUNCTION CHAINING NETWORK SERVICES	G06N 3/08
H04L 45/12	(73) HUAWEI TECHNOLOGIES CO., LTD.	G06F 9/451
H04L 45/03	(72) MALIS, Andrew G.	G06F 16/35
H04L 47/34	EASTLAKE, Ill, Donald E.	G06N 3/044
H04L 47/36	(31) 201862770855 P	(11) EP3635545
H04L 9/40	(32) 23.11.2018	(21) EP18859583.9
H04L 69/166	(33) United States of America	(47) 30.08.2023
H04L 41/12		(87) KR2018010748
(11) EP3840309		
(21) EP20162664.5		
(47) 30.08.2023		

28.03.2019	(51) H04L 61/50	(47) 30.08.2023
(22) 13.09.2018	H04W 8/26	(87) CN2020075786
(54) DEVICE AND METHOD FOR	H04W 28/06	27.08.2020
PROVIDING RESPONSE TO DEVICE	H04W 4/80	(22) 19.02.2020
USAGE INQUIRY	(11) EP3662646	(54) POLICY MANAGEMENT METHOD AND
(73) Samsung Electronics Co., Ltd.	(21) EP18752231.3	DEVICE
(72) JEONG, Man-un	(47) 30.08.2023	(73) Huawei Technologies Co., Ltd.
CHOI, Chang-hwan	(87) GB2018052120	(72) ZHOU, Xiaoyun
JO, Seo-young	07.02.2019	ZONG, Zaifeng
(31) 20170120511	(22) 27.07.2018	ZHU, Fenqin
(32) 19.09.2017	(54) RADIO COMMUNICATION	(31) 201910122829
(33) Korea (Republic)	(73) Nordic Semiconductor ASA	(32) 19.02.2019
(51) H04L 51/046	(72) RYAN, Daniel	(33) China
H04L 12/18	(31) 201713785	
(11) EP3655847	201712334	(51) H04L 65/61
(21) EP18835961.6	(32) 29.08.2017	H04L 65/70
(47) 30.08.2023	01.08.2017	H04L 65/75
(87) US2018043101	(33) United Kingdom	H04L 65/80
24.01.2019	United Kingdom	G11B 20/10
(22) 20.07.2018	(51) H04L 61/5084	H04L 1/00
(54) METHOD, APPARATUS AND	(11) EP3787263	G10L 19/24
COMPUTER PROGRAM PRODUCT	(21) EP19885033.1	G10L 19/22
FOR GENERATING EXTERNALLY	(47) 30.08.2023	H04R 29/00
SHARED COMMUNICATION	(87) CN2019088961	(11) EP3989225
CHANNELS	22.05.2020	(21) EP20902980.0
(73) Salesforce, Inc.	(22) 29.05.2019	(47) 30.08.2023
(72) GRANT, Myles	(54) METHOD FOR PROPAGATING	(87) CN2020120387
KING, Andrew	MOVEMENT EVENT MESSAGE OF	24.06.2021
JOHNSTON, Elizabeth	NETWORK ENTITY	(22) 12.10.2020
JIN, Brenda	(73) Beijing Hili Technology Co. Ltd	(54) SAMPLING RATE DETERMINING
ROSE, Sean	Institute of Acoustics, Chinese Academy	METHOD, COMPUTER DEVICE
(31) 201715816925	of Sciences	AND NON-TRANSITORY STORAGE
201715655634	(72) WANG, Lingfang	MEDIUM
(32) 17.11.2017	CHENG, Gang	(73) Tencent Technology (Shenzhen)
20.07.2017	WANG, Jinlin	Company Limited
(33) United States of America	YE, Xiaozhou	(72) LIANG, Junbin
United States of America	QI, Weining	(31) 201911317463
(51) H04L 61/2517	CHEN, Jun	(32) 19.12.2019
H04L 61/2521	DENG, Haojiang	(33) China
(11) EP3836518	(31) 201811366932	
(21) EP20743947.2	(32) 16.11.2018	(51) H04L 65/80
(47) 30.08.2023	(33) China	H04L 41/0677
(87) KR2020006345	(51) H04L 65/1043	H04L 43/0829
29.04.2021	H04L 65/403	H04L 43/0864
(22) 14.05.2020	H04L 65/1069	H04L 43/0888
(54) APPARATUS FOR TRANSMITTING	H04L 65/1083	(11) EP3787245
AND RECEIVING DATA OF REPEATER	(11) EP3560161	(21) EP20185670.5
APPARATUS AND METHOD	(21) EP16822463.2	(47) 30.08.2023
THEREFOR	(47) 30.08.2023	(22) 02.06.2017
(73) SK Telecom Co., Ltd.	(87) EP2016082511	(54) METHOD AND APPARATUS FOR
(72) KIM, Sung Jin	28.06.2018	DETERMINING VIDEO QUALITY
(31) 20190131602	(22) 23.12.2016	(73) HUAWEI TECHNOLOGIES CO., LTD.
(32) 22.10.2019	(54) H.248 CONTROL FOR MULTISTREAM	(72) XIONG, Jie
(33) Korea (Republic)	MULTIMEDIA CONFERENCES	ZHANG, Shen
(51) H04L 61/4511	(73) Nokia Technologies Oy	YANG, Youqing
H04L 9/40	(72) BELLING, Thomas	(31) 201610422907
(11) EP3799401	(51) H04L 65/40	(32) 14.06.2016
(21) EP20188506.8	H04L 12/14	(33) China
(47) 30.08.2023	H04M 15/00	
(22) 30.07.2020	H04W 4/24	(51) H04L 67/06
(54) SYSTEMS AND METHODS FOR	H04L 69/40	H04L 67/125
FACILITATING AUTHENTICATION OF	H04W 40/22	H04L 67/565
EMAILS SENT BY 3RD PARTIES	H04L 67/14	(11) EP3852341
(73) Shopify Inc.	H04W 36/00	(21) EP20187726.3
(72) Zahed, Aref	H04W 92/24	(47) 30.08.2023
(31) 201916582185	H04W 36/12	(22) 24.07.2020
(32) 25.09.2019	(11) EP3920511	(54) INFORMATION SHARING METHOD,
(33) United States of America	(21) EP20759320.3	DEVICE AND NON-TRANSITORY
		COMPUTER READABLE STORAGE
		MEDIUM THEREOF
		(73) Shenzhen Transsion Holdings Co., Ltd.

(72) WANG, Zhiyong HU, Hairui SHEN, Jianfeng	(22) 01.06.2021	(22) 25.07.2019
(31) 202010068407 202010070487 202010068136 202010068388 202010070486	(54) METHOD FOR OPERATING A SYSTEM WITH AT LEAST TWO IDENTICALLY DESIGNED DOMESTIC APPLIANCES AND SYSTEM WITH AT LEAST TWO IDENTICALLY DESIGNED DOMESTIC APPLIANCES	(54) ELECTRONIC DEVICE, EXTERNAL ELECTRONIC DEVICE, AND METHOD OF MANAGING EMBEDDED SUBSCRIBER IDENTITY MODULES OF EXTERNAL ELECTRONIC DEVICE
(32) 20.01.2020 20.01.2020 20.01.2020 20.01.2020	(73) Vorwerk & Co. Interholding GmbH	(73) Samsung Electronics Co., Ltd.
(33) China China China China China	(72) Schwegge, Sabine	(72) JUNG, Jieun
(51) H04L 67/1031 G06F 21/55 H04L 9/40	(51) H04L 67/142 H04W 12/02 H04L 9/32 H04W 8/06 H04W 12/069 H04W 12/72 H04W 12/75 H04W 12/40	LEE, Sangsoo BAN, Hyongjin BAE, Jeongtak KANG, Jeongdon
(11) EP3469781 (21) EP16794811.6 (47) 30.08.2023 (87) US2016058512 21.12.2017 (22) 24.10.2016	(11) EP4011055 (21) EP20757753.7 (47) 30.08.2023 (87) US2020044465 18.02.2021 (22) 31.07.2020	(31) 20180092456 (32) 08.08.2018 (33) Korea (Republic)
(54) DYNAMIC, LOAD-BASED, AUTO-SCALING NETWORK SECURITY MICROSERVICES ARCHITECTURE	(54) METHODS, APPARATUSES AND COMPUTER READABLE MEDIUM FOR SUBSCRIBER MANAGEMENT WITH A STATELESS NETWORK ARCHITECTURE IN A FIFTH GENERATION (5G) NETWORK	(51) H04L 67/53 (11) EP3089435 (21) EP14879127.0 (47) 30.08.2023 (87) CN2014070897 23.07.2015 (22) 20.01.2014 (54) SERVICE PROCESSING METHOD AND NETWORK DEVICE
(73) Fortinet, Inc. (72) NEDBAL, Manuel AHUJA, Ratinder Paul Singh	(73) Cisco Technology, Inc. (72) PRAKASH, Aditya GHOSH, Ameo ABRAHAM, Jis KAMBLE, Vinod, Suresh	(73) Huawei Technologies Co., Ltd. (72) FU, Tianfu YU, Zhouyi
(31) 201615182573 (32) 14.06.2016 (33) United States of America	(31) 202016745695 201916536712 (32) 17.01.2020 09.08.2019 (33) United States of America United States of America	(51) H04L 67/563 (11) EP3771180 (21) EP20164983.7 (47) 30.08.2023 (22) 23.03.2020 (54) OFFLOAD OF STORAGE NODE SCALE-OUT MANAGEMENT TO A SMART NETWORK INTERFACE CONTROLLER
(51) H04L 67/104 H04W 76/14 H04W 8/00 H04W 36/00 H04W 84/12 H04W 80/06	(31) 201916536712 (32) 17.01.2020 09.08.2019 (33) United States of America United States of America	(73) INTEL Corporation (72) PETERSON, Scott D. LI, Yadong SEN, Sujoy MINTURN, David B.
(11) EP3427537 (21) EP17763727.9 (47) 30.08.2023 (87) US2017018424 14.09.2017 (22) 17.02.2017	(51) H04L 67/303 G08C 17/02 (11) EP2706418 (21) EP13183694.2 (47) 30.08.2023 (22) 10.09.2013 (54) Method and device for controlling an external apparatus	(31) 201916728546 201962878742 P (32) 27.12.2019 25.07.2019 (33) United States of America United States of America
(54) TRANSITIONING FROM AN INFRASTRUCTURE BASED WIRELESS CONNECTION TO A PEER TO PEER (P2P) WIRELESS CONNECTION	(73) Samsung Electronics Co., Ltd (72) Park, Se-jun Ko, Jae-woo Shin, Hang-sik	(51) H04L 69/04 H04L 69/22 H04L 101/695 H04L 101/622 H04L 45/00 (11) EP3813318 (21) EP19806754.8 (47) 30.08.2023 (87) CN2019088397 28.11.2019 (22) 24.05.2019 (54) PACKET TRANSMISSION METHOD, COMMUNICATION DEVICE, AND SYSTEM
(73) INTEL Corporation (72) HANSEN, Carl C. HUANG, Gary C. LIN, Xintian E. RAJAMANI, Krishnan	(31) 20120099739 (32) 10.09.2012 (33) Korea (Republic)	(73) HUAWEI TECHNOLOGIES CO., LTD. (72) YU, Delei REN, Shoushou
(31) 201615067972 (32) 11.03.2016 (33) United States of America	(51) H04L 67/51 H04L 67/562 H04W 4/60 H04W 4/50 H04W 8/20 H04W 12/30 H04W 12/42 H04W 8/18 (11) EP3797508 (21) EP19848287.9 (47) 30.08.2023 (87) KR2019009266 13.02.2020	(47) 30.08.2023 (87) CN2019088397 28.11.2019 (22) 24.05.2019 (54) PACKET TRANSMISSION METHOD, COMMUNICATION DEVICE, AND SYSTEM (73) HUAWEI TECHNOLOGIES CO., LTD. (72) YU, Delei REN, Shoushou (31) 201810516567 (32) 25.05.2018 (33) China
(51) H04L 67/12 H04L 51/04 H04L 51/18 A47L 7/00 A47L 9/28	(51) H04L 67/104 G06F 21/55 H04L 9/40	(51) H04L 69/08
(11) EP4099658 (21) EP21177090.4 (47) 30.08.2023	(11) EP3469781 (21) EP16794811.6 (47) 30.08.2023 (87) US2016058512 21.12.2017 (22) 24.10.2016	

G08C 23/04	G06F 1/16	(32) 03.05.2019
H04N 21/422	G09F 9/30	(33) Korea (Republic)
H04W 4/80	(11) EP3910919	(51) H04M 1/02
(11) EP3908011	(21) EP20763486.6	G06F 1/16
(21) EP21182475.0	(47) 30.08.2023	H04N 23/51
(47) 30.08.2023	(87) CN2020073616	H04N 23/57
(22) 20.07.2017	03.09.2020	(11) EP3883229
(54) PROTOCOL TRANSLATION WITH DELAY	(22) 21.01.2020	(21) EP18944160.3
(73) Microsoft Technology Licensing, LLC	(54) ROTATING DEVICE, HOUSING, AND ELECTRONIC DEVICE	(47) 30.08.2023
(72) DUGGAN, Michael	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(87) CN2018123562
BLANKENBURG, Garrett	(72) ZUO, Zhouquan	02.07.2020
HERNANDEZ, Andres	CHENG, Jiao	(22) 25.12.2018
(31) 201715423502	(31) 201910139447	(54) CAMERA MODULE AND TERMINAL DEVICE
201662368908 P	(32) 25.02.2019	(73) Huawei Technologies Co., Ltd.
(32) 02.02.2017	(33) China	(72) XIA, Honghua
29.07.2016	(51) H04M 1/02	YUAN, Lei
(33) United States of America	G03B 15/05	HE, Yanguo
United States of America	G02B 6/00	WANG, Wenbing
(51) H04L 69/164	(11) EP3934214	SUN, Lue
H04L 47/24	(21) EP20766587.8	YUAN, Danhui
H04L 47/2441	(47) 30.08.2023	(51) H04M 1/02
H04L 67/61	(87) CN2020074978	G06F 1/3287
(11) EP3879769	10.09.2020	G06F 1/3231
(21) EP19914138.3	(22) 13.02.2020	G06F 1/3215
(47) 30.08.2023	(54) TERMINAL APPARATUS	G06F 21/32
(87) CN2019074607	(73) VIVO MOBILE COMMUNICATION CO., LTD.	G06F 1/3234
06.08.2020	(72) HUANG, Pan	G06F 1/32
(22) 02.02.2019	(31) 201910155862	G06F 1/16
(54) METHOD AND APPARATUS FOR TRANSMITTING DATA	(32) 01.03.2019	H04N 23/45
(73) Huawei Technologies Co., Ltd.	(33) China	H04N 23/55
(72) LUO, Yong	(51) H04M 1/02	H04N 23/57
WANG, Yiming	G06F 1/16	(11) EP3791562
(51) H04L 69/22	(11) EP3876504	(21) EP18917652.2
H04L 69/324	(21) EP19920548.5	(47) 30.08.2023
H04L 69/40	(47) 30.08.2023	(87) CN2018086047
H04L 67/563	(87) CN2019130905	14.11.2019
H04L 1/00	24.09.2020	(22) 08.05.2018
(11) EP3767851	(22) 31.12.2019	(54) TERMINAL DEVICE AND DUAL FRONT-FACING CAMERA OPERATING METHOD
(21) EP18911405.1	(54) ROTARY SHAFT MECHANISM AND MOBILE TERMINAL	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(47) 30.08.2023	(73) Huawei Technologies Co., Ltd.	(72) LIU, Chang
(87) CN2018081495	(72) ZHONG, Ding	(51) H04M 1/02
03.10.2019	LIAO, Li	H04N 23/60
(22) 31.03.2018	NAGAI, Kenji	H04N 23/57
(54) FRAME ERROR INDICATION	HUANG, Tao	(11) EP3713199
(73) Huawei Technologies Co., Ltd.	(31) 201910196567	(21) EP18879665.0
(72) WANG, Xinyuan	(32) 15.03.2019	(47) 30.08.2023
WANG, Tongtong	(33) China	(87) CN2018115219
(51) H04L 69/30	(51) H04M 1/02	23.05.2019
(11) EP3550799	G06F 1/16	(22) 13.11.2018
(21) EP17888968.9	H04M 1/18	(54) CAMERA CONTROL METHOD AND MOBILE TERMINAL
(47) 30.08.2023	(11) EP3734947	(73) Vivo Mobile Communication Co., Ltd.
(87) CN2017116605	(21) EP20172601.5	(72) LEI, Naice
05.07.2018	(47) 30.08.2023	LIU, Guohong
(22) 15.12.2017	(22) 01.05.2020	(31) 201711122960
(54) HETEROGENEOUS MULTI-PROTOCOL STACK METHOD, DEVICE AND SYSTEM	(54) ELECTRONIC DEVICE INCLUDING DISPLAY	(32) 14.11.2017
(73) Huawei Technologies Co., Ltd.	(73) Samsung Electronics Co., Ltd.	(33) China
(72) CHEN, Rujie	(72) Cho, Jaemyung	(51) H04M 1/19
TANG, Lingling	Kim, Jinguok	H04R 1/10
ZHENG, Kai	Kim, Dooryong	G10K 11/178
(31) 201611261640	Park, Sinyoung	H04M 1/60
(32) 30.12.2016	Kim, Yunsik	(11) EP3563372
(33) China	Jang, Yonghee	(21) EP17917820.7
(51) H04M 1/02	(31) 20190052458	(47) 30.08.2023
F16C 11/04		

(87) US2017042152 17.01.2019	(11) EP3694197 (21) EP20156772.4	(32) 29.12.2005 29.12.2005
(22) 14.07.2017	(47) 30.08.2023	(33) United States of America United States of America
(54) ALERTING USERS TO EVENTS	(22) 11.02.2020	<hr/>
(73) Hewlett-Packard Development Company, L.P.	(54) SYSTEM AND METHOD OF CONNECTING A CALLER TO A RECIPIENT BASED ON THE RECIPIENT'S STATUS AND RELATIONSHIP TO THE CALLER	(51) H04N 5/60 H04N 21/422 H04N 21/4223 H04N 21/439 H04N 21/442 H04N 21/485
(72) HANES, David H. MAIN, John Michael DORY, Jon R.	(73) Farhad, Arshad (72) Farhad, Arshad (31) 201916596676 201962804124 P	(11) EP3771202 (21) EP19187905.5 (47) 30.08.2023 (22) 23.07.2019 (54) METHOD AND SYSTEM FOR AUTOMATICALLY CONTROLLING AUDIO OUTPUT OF A TELEVISION DEVICE BASED ON AMBIENT NOISE
<hr/>	<hr/>	<hr/>
(51) H04M 1/27 H04M 3/42 H04M 3/56 H04L 65/403	(32) 08.10.2019 11.02.2019	(73) Top Victory Investments Limited (72) Senapati, Gyana Ranjan Zade, Anirudha Ramdas
(11) EP3662629 (21) EP18752604.1 (47) 30.08.2023 (87) FR2018051954 07.02.2019	(33) United States of America United States of America	(51) H04N 5/782 H04N 21/433 H04N 21/262
(22) 30.07.2018	(51) H04N 1/00 G06F 3/12 H04N 1/64 H04L 67/51 H04N 1/44 H04N 1/32 G06Q 10/1093	(11) EP3610641 (21) EP17749312.9 (47) 30.08.2023 (87) US2017044239 31.01.2019 (22) 27.07.2017 (54) SYSTEMS AND METHODS FOR EXTENDING RECORDINGS FOR MEDIA CONTENT BASED ON AGGREGATING USER DATA
(54) METHOD FOR CREATING AND PARTICIPATING IN AN AUDIO OR VIDEO CONFERENCE	(11) EP3429178 (21) EP18181142.3 (47) 30.08.2023 (22) 02.07.2018	(73) Rovi Guides, Inc. (72) KHANNA, Rajesh
(73) Invoxia	(54) INFORMATION INPUT APPARATUS, INFORMATION PROCESSING SYSTEM, INFORMATION PROCESSING METHOD, AND CARRIER MEANS	<hr/>
(72) HUMBERT, Eric (31) 1757375 (32) 01.08.2017 (33) France	(73) Ricoh Company, Ltd. (72) ARAKI, Shigeo (31) 2017135822 (32) 11.07.2017 (33) Japan	(51) H04N 7/14 G06F 3/033 G06F 3/044 G06F 3/0484 G06F 1/16 G03B 17/56
<hr/>	<hr/>	<hr/>
(51) H04M 1/72454 G06F 1/16 G06F 3/01 G06F 3/0482 G06F 3/0484 G06F 3/0485 G06F 3/0488 H04M 1/02	(31) EP3886415 (21) EP19908940.0 (47) 30.08.2023 (87) CN2019125800 16.07.2020 (22) 17.12.2019 (54) DISPLAY METHOD AND RELATED APPARATUS	(11) EP3785430 (21) EP19729593.4 (47) 30.08.2023 (87) US2019031927 05.12.2019 (22) 13.05.2019 (54) GRAPHICAL DISPLAY SUPPORTING MULTI-LOCATION CAMERA
(73) Huawei Technologies Co., Ltd. (72) XU, Jie (31) 201910026700 (32) 11.01.2019 (33) China	(51) H04N 5/222 (11) EP4034424 (21) EP20867900.1 (47) 30.08.2023 (87) US2020052677 01.04.2021 (22) 25.09.2020 (54) VIDEO RECORDING MIRROR	(73) GENTEX CORPORATION (72) BOSMA, Bradley A. MINIKEY Jr., Danny L. SLOTTERBEEK, Eric S.
<hr/>	<hr/>	<hr/>
(51) H04M 1/725 H04M 1/72436 G10L 15/26	(31) 201962907040 P (32) 27.09.2019 (33) United States of America	(73) Microsoft Technology Licensing, LLC (72) SCHENONE, Scott WITT, Eric Paul WHITAKER, Ryan Eugene GURR, Kae-Ling Jacqueline
(11) EP3846426 (21) EP19854928.9 (47) 30.08.2023 (87) CN2019096087 05.03.2020 (22) 16.07.2019	(51) H04N 5/445 H04N 21/482 (11) EP3346697 (21) EP17210591.8 (47) 30.08.2023 (22) 08.12.2006	(31) 201815993089 (32) 30.05.2018 (33) United States of America
(54) SPEECH PROCESSING METHOD AND MOBILE TERMINAL	(54) SYSTEMS AND METHODS FOR EPISODE TRACKING IN AN INTERACTIVE MEDIA ENVIRONMENT	<hr/>
(73) VIVO MOBILE COMMUNICATION CO., LTD. (72) HAN, Huizi (31) 201811001519 (32) 30.08.2018 (33) China	(73) Rovi Guides, Inc. (72) Condray, Charles Armaly, Samir B. Walker, Todd A.	(51) H04N 7/18 G06F 3/01 G06F 3/16 (11) EP3602241 (21) EP18774772.0 (47) 30.08.2023 (87) US2018023679 04.10.2018 (22) 22.03.2018
<hr/>	<hr/>	<hr/>
(51) H04M 3/42 H04M 3/527 H04M 3/533	(31) 323464 324156	

(54) METHOD AND APPARATUS FOR INTERACTION WITH AN INTELLIGENT PERSONAL ASSISTANT	(51) H04N 9/31 H04N 5/44 G09G 5/391 G06F 3/0488	H04N 19/139 H04N 19/176 H04N 19/91 H04N 19/96
(72) Ecolink Intelligent Technology, Inc.	(11) EP3337169	(11) EP3998776
(72) GRUBER, Brandon	(21) EP16835349.8	(21) EP21183819.8
(31) 201715475528	(47) 30.08.2023	(47) 30.08.2023
(32) 31.03.2017	(87) KR2016008281	(22) 27.05.2010
(33) United States of America	16.02.2017	(54) IMAGE ENCODING DEVICE, IMAGE DECODING DEVICE, IMAGE ENCODING METHOD, AND IMAGE DECODING METHOD
(51) H04N 7/18 G06F 9/445 H04L 67/61 H04L 67/50 G06F 9/4401	(22) 28.07.2016 (54) METHOD AND DEVICE FOR ADJUSTING RESOLUTION OF ELECTRONIC DEVICE	(73) MITSUBISHI ELECTRIC CORPORATION
(11) EP3933574	(73) Samsung Electronics Co., Ltd.	(72) SUGIMOTO, Kazuo
(21) EP20183592.3	(72) NAM, Jung	ITANI, Yusuke
(47) 30.08.2023	CHAE, Sangwon	MINEZAWA, Akira
(22) 02.07.2020	LEE, Jungeun	KATO, Yoshiaki
(54) A METHOD AND A MONITORING CAMERA	(31) 20150113654	SEKIGUCHI, Shunichi
(73) Axis AB	(32) 12.08.2015	(31) 2009130433
(72) KAGGANTI, Shiva-Prasad	(33) Korea (Republic)	(32) 29.05.2009
KAGGANTI, Madhavi	(51) H04N 13/00 A61B 1/04 A61B 90/20 A61B 1/00 G02B 23/24 H04N 13/128 H04N 13/139	(33) Japan
(51) H04N 9/31	(11) EP3293972	(51) H04N 19/169
(11) EP3709638	(21) EP16814017.6	H04N 19/96
(21) EP19305303.0	(47) 30.08.2023	H04N 19/119
(47) 30.08.2023	(87) JP2016059856	H04N 19/176
(22) 13.03.2019	29.12.2016	H04N 19/70
(54) SYSTEM AND METHOD FOR PROJECTING DIGITAL CONTENT ONTO USER'S FACIAL SURFACE	(22) 28.03.2016	H04N 19/46
(73) L'OREAL	(54) THREE-DIMENSIONAL OBSERVATION DEVICE FOR MEDICAL USE, THREE-DIMENSIONAL OBSERVATION METHOD FOR MEDICAL USE, AND PROGRAM	(11) EP3477949
(72) HADDAD, Michael	(73) Sony Olympus Medical Solutions Inc.	(21) EP17895100.0
TRAN, Loic	(72) USHIRODA, Hiroshi	(47) 30.08.2023
BOKARIS, Panagiotis-Alexandros	KADO, Masataka	(87) CN2017073004
(51) H04N 9/31	ISHIKAWA, Tomonori	09.08.2018
(11) EP3813365	(31) 2015126228	(22) 06.02.2017
(21) EP20196230.5	(32) 24.06.2015	(54) PICTURE DECODING METHOD AND DEVICE USING DIVISION INFORMATION OF A CODING TREE UNIT
(47) 30.08.2023	(33) Japan	(73) Huawei Technologies Co., Ltd.
(22) 22.06.2017	(51) H04N 13/232 H04N 13/257 H04N 13/296 H04N 23/12 H04N 23/951	(72) GAO, Shan YANG, Haitao ZHAO, Yin
(54) RENDERING WIDE COLOR GAMUT, TWO-DIMENSIONAL (2D) IMAGES ON THREE-DIMENSIONAL (3D) CAPABLE DISPLAYS	(11) EP3479569	(51) H04N 19/172
(73) Dolby Laboratories Licensing Corporation	(21) EP17733464.6	H04N 19/70
(72) RICHARDS, Martin J.	(47) 30.08.2023	H04N 19/46
PENNA, Ashley Nicole	(87) EP2017065922	H04N 19/103
DAVIES, Trevor	04.01.2018	(11) EP3691268
(31) 201662402296 P	(22) 27.06.2017	(21) EP20162441.8
201662353325 P	(54) PLENOPTIC CAMERA WITH A CONTROLLABLE BIREFRINGENT LAYER FOR RICHER COLOR ACQUISITION	(47) 30.08.2023
(32) 30.09.2016	(73) InterDigital CE Patent Holdings	(22) 11.10.2011
22.06.2016	(72) DRAZIC, Valter	(54) REDUCING LATENCY IN VIDEO ENCODING AND DECODING
(33) United States of America	LE SCOUARNEC, Nicolas	(73) Microsoft Technology Licensing, LLC
United States of America	SCHUBERT, Arno	(72) SULLIVAN, Gary J.
(51) H04N 9/31	(31) 16305822	(31) 201161571553 P
G06T 3/00	(32) 30.06.2016	(32) 30.06.2011
(11) EP3606061	(33) European Patent Office (EPO)	(33) United States of America
(21) EP19188764.5	(51) H04N 19/13	(51) H04N 19/423
(47) 30.08.2023		H04N 19/159
(22) 29.07.2019		H04N 19/172
(54) PROJECTION DEVICE, PROJECTION SYSTEM AND AN IMAGE CALIBRATION METHOD		H04N 19/44
(73) Coretronic Corporation		H04N 19/593
(72) HSIAO, PEI-CHI		H04N 19/573
(31) 201810856421		H04N 19/70
(32) 31.07.2018		H04N 19/82
(33) China		(11) EP3363195
		(21) EP16856860.8
		(47) 30.08.2023

(87) CN2016102322 27.04.2017	(21) EP20769451.4 (47) 30.08.2023	(31) PCT/RU2019/000442 (32) 21.06.2019
(22) 18.10.2016	(87) KR2020001860 17.09.2020	(33) World Intellectual Property Office (WIPO)
(54) METHOD AND APPARATUS FOR DECODED PICTURE BUFFER MANAGEMENT IN VIDEO CODING SYSTEM USING INTRA BLOCK COPY	(22) 11.02.2020 (54) INTER-PREDICTION METHOD AND DEVICE BASED ON DMVR AND BDOF	(51) H04N 19/63 H04N 19/126 H04N 19/62 H04N 19/23 H04N 19/33 H04N 19/87 H04N 19/94 H04N 19/59
(73) HFI Innovation Inc.	(73) LG Electronics Inc.	(11) EP2850830
(72) XU, Xiaozhong LIU, Shan	(72) NAM, Junghak PARK, Naeri JANG, Hyeongmoon	(21) EP13722426.7 (47) 30.08.2023
(31) 201662298518 P 201562243208 P	(31) 201962817504 P	(87) EP2013059853 21.11.2013
(32) 23.02.2016 19.10.2015	(32) 12.03.2019 (33) United States of America	(22) 13.05.2013
(33) United States of America United States of America	(51) H04N 19/52 H04N 19/463 H04N 19/523	(54) ENCODING AND RECONSTRUCTION OF RESIDUAL DATA BASED ON SUPPORT INFORMATION
(51) H04N 19/44 H04N 19/60 H04N 19/12 H04N 19/186 H04N 19/13 H04N 19/70 H04N 19/176 H04N 19/159 H04N 19/91 H04N 19/593	(11) EP3881548 (21) EP19885580.1 (47) 30.08.2023 (87) JP2019044730 22.05.2020 (22) 14.11.2019 (54) SYSTEMS AND METHODS FOR DERIVING A MOTION VECTOR PREDICTION IN VIDEO CODING	(73) V-NOVA INTERNATIONAL LTD (72) MEARDI, Guido ROSSATO, Luca (31) 201261647426 P 201261646797 P (32) 15.05.2012 14.05.2012 (33) United States of America United States of America
(11) EP3453176 (21) EP17722984.6 (47) 30.08.2023	(73) Sharp Kabushiki Kaisha FG Innovation Company Limited	(51) H04N 21/234 H04N 21/647 H04N 21/4402 H04N 21/236 H04N 21/61
(87) US2017030815 09.11.2017	(72) MISRA, Kiran Mukesh SEGALL, Christopher Andrew BOSEN, Frank	(11) EP3633997 (21) EP18824247.3 (47) 30.08.2023 (87) CN2018084959 03.01.2019
(22) 03.05.2017	(31) 201962815109 P 201962793311 P 201962793080 P 201962792872 P 201962787695 P 201862768772 P	(22) 27.04.2018 (54) METHOD, APPARATUS AND SYSTEM FOR VIDEO TRANSMISSION
(54) VIDEO DECODING WITH BINARIZATION OF A NON-SEPARABLE SECONDARY TRANSFORM INDEX	(32) 07.03.2019 16.01.2019 16.01.2019 15.01.2019 02.01.2019 16.11.2018	(73) Huawei Technologies Co., Ltd. (72) GUAN, Hongguang LIU, Meng ZHANG, Jinhui
(73) QUALCOMM Incorporated	(33) United States of America United States of America United States of America United States of America United States of America United States of America	(31) 201710503244 (32) 27.06.2017 (33) China
(72) SEREGIN, Vadim SAID, Amir ZHAO, Xin KARCZEWICZ, Marta CHEN, Jianle	(51) H04N 19/593 H04N 19/423 H04N 19/70 (11) EP3970377 (21) EP20826056.2 (47) 30.08.2023 (87) RU2020050132 24.12.2020 (22) 22.06.2020	(54) ELECTRONIC APPARATUS AND CONTROL METHOD THEREOF
(31) 201715584859 201662365853 P 201662340949 P 201662337310 P 201662332425 P 201662331290 P	(54) METHOD AND APPARATUS OF QUANTIZING COEFFICIENTS FOR MATRIX-BASED INTRA PREDICTION TECHNIQUE	(73) Samsung Electronics Co., Ltd. (72) KIM, Minsup LEE, Wonjae PARK, Jongjin KIM, Shina (31) 20180108674 (32) 12.09.2018
(32) 02.05.2017 22.07.2016 24.05.2016 16.05.2016 05.05.2016 03.05.2016	(73) Huawei Technologies Co., Ltd. (72) FILIPPOV, Alexey Konstantinovich ESENLIK, Semih RUFITSKIY, Vasily Alexeevich ALSHINA, Elena Alexandrovna WANG, Biao	
(33) United States of America United States of America United States of America United States of America United States of America United States of America		
(51) H04N 19/513 H04N 19/70 H04N 19/132 H04N 19/577 H04N 19/11 H04N 19/463 H04N 19/52 H04N 19/523		
(11) EP3941060		

(33) Korea (Republic)	G06V 10/143	(31) 201811206371
(51) H04N 21/422	G06V 10/50	(32) 16.10.2018
H04N 21/4223	G06V 10/98	(33) China
H04N 21/431	G06V 20/58	(51) H04N 23/58
G06F 3/01	H04N 23/23	H04N 23/63
(11) EP3754997	(11) EP3621850	H04N 23/695
(21) EP20189197.5	(21) EP18812872.2	H04N 23/80
(47) 30.08.2023	(47) 30.08.2023	H04N 7/18
(22) 10.07.2012	(87) US2018034620	G08B 13/196
(54) METHOD FOR CONTROLLING	13.12.2018	G08B 25/08
ELECTRONIC APPARATUS BASED ON	(22) 25.05.2018	(11) EP3661186
VOICE RECOGNITION AND MOTION	(54) SHUTTERLESS FAR INFRARED (FIR)	(21) EP19212036.8
RECOGNITION, AND ELECTRONIC	CAMERA FOR AUTOMOTIVE SAFETY	(47) 30.08.2023
APPARATUS APPLYING THE SAME	AND DRIVING SYSTEMS	(22) 28.11.2019
(73) Samsung Electronics Co., Ltd.	(73) Adasky, Ltd.	(54) CONTROL APPARATUS, IMAGING
(72) RYU, Hee-seob	(72) KATZ, Avi	APPARATUS, AND PROGRAM
HAN, Sang-jin	KUYBEDA, Oleg	(73) CANON KABUSHIKI KAISHA
KIM, Jung-geun	ULMAN, Sharon	(72) KOBAYASHI, Yoshikuni
YU, Seung-dong	MADAR, Eyal	TAKAMI, Etsuya
KIM, Yoo-tai	(31) 201762552620 P	(31) 2018223051
(31) 20110104840	201762543108 P	(32) 29.11.2018
201161515459 P	201762526733 P	(33) Japan
(32) 13.10.2011	201762515200 P	(51) H04N 23/61
05.08.2011	(32) 31.08.2017	H04N 5/262
(33) Korea (Republic)	09.08.2017	H04R 1/40
United States of America	29.06.2017	H04R 3/00
(51) H04N 21/44	05.06.2017	H04S 7/00
H04N 21/8547	(33) United States of America	G11B 27/28
H04N 21/43	United States of America	G11B 27/34
H04N 21/434	United States of America	G06V 10/82
H04N 21/436	United States of America	H04N 23/63
H04N 21/439	(51) H04N 23/54	H04N 23/69
(11) EP3941076	H04N 23/51	H04N 23/80
(21) EP21184618.3	H04N 23/52	H04N 23/60
(47) 30.08.2023	(11) EP3657772	G10L 21/0272
(22) 08.07.2021	(21) EP19200419.0	G10L 25/30
(54) METHOD, SYSTEM AND PROGRAMME	(47) 30.08.2023	G10L 25/51
FOR DISTRIBUTING AUDIO/VIDEO	(22) 30.09.2019	G06N 3/08
SIGNALS WITH AN AUTOMATIC	(54) DRIVING MECHANISM, CAMERA	H04N 9/82
LATENCY ADJUSTMENT	MODULE AND ELECTRONIC DEVICE	(11) EP3829161
(73) SAGEMCOM BROADBAND SAS	(73) Beijing Xiaomi Mobile Software Co., Ltd.	(21) EP19840800.7
(72) BOUVIGNE, Gabriel	(72) YIN, Zhidong	(47) 30.08.2023
SODI, Frédéric	ZHENG, Yan	(87) JP2019027261
SCHOTT, Vincent	WANG, Hui	30.01.2020
(31) 2007311	YANG, Zongbao	(22) 10.07.2019
(32) 10.07.2020	(31) 201811390590	(54) INFORMATION PROCESSING DEVICE
(33) France	(32) 21.11.2018	AND METHOD, AND PROGRAM
(51) H04N 21/6405	(33) China	(73) Sony Group Corporation
H04N 21/61	(51) H04N 23/55	(72) TAKAHASHI, Naoya
(11) EP3373577	H04N 23/57	(31) 2018138482
(21) EP15911827.2	H04N 23/60	(32) 24.07.2018
(47) 30.08.2023	H04N 23/62	(33) Japan
(87) CN2015099905	H04N 23/63	(51) H04N 23/66
06.07.2017	H04M 1/72403	H04N 23/667
(22) 30.12.2015	H04M 1/02	H04N 23/698
(54) MULTICAST PROFILE SWITCHING	G02B 7/08	H04N 23/70
METHOD, DEVICE AND SYSTEM	(11) EP3846432	H04N 23/76
(73) Huawei Technologies Co., Ltd.	(21) EP19874716.4	(11) EP3811607
(72) XU, Lifan	(47) 30.08.2023	(21) EP19772844.7
OUYANG, Tao	(87) CN2019111213	(47) 30.08.2023
ZHANG, Li	23.04.2020	(87) IB2019055942
SUN, Yanbin	(22) 15.10.2019	30.01.2020
(51) H04N 23/20	(54) MACRO IMAGING METHOD AND	(22) 11.07.2019
B60R 1/00	TERMINAL	(54) IMAGE CAPTURE DEVICE AND
H04N 23/76	(73) HUAWEI TECHNOLOGIES CO., LTD.	METHOD FOR IMAGE SCORE-BASED
H04N 23/80	(72) SU, Wei	VIDEO QUALITY ENHANCEMENT
H04N 25/671	WANG, Haiyan	(73) Sony Group Corporation
H04N 25/68	YE, Haishui	(72) SULIBHAVI, Madhvesh

RAJARATHNAM, Sandeep PUTTAMALLA, Prashanth UDAYAKUMAR, Kanimozhi	07.06.2018 (33) United States of America United States of America European Patent Office (EPO)	(31) 201414335693 (32) 18.07.2014 (33) United States of America
(31) 201816046030 (32) 26.07.2018 (33) United States of America	(51) H04N 23/955 (11) EP3700192 (21) EP18868008.6 (47) 30.08.2023 (87) JP2018038943 25.04.2019 (22) 19.10.2018 (54) IMAGING DEVICE AND SIGNAL PROCESSING DEVICE	(51) H04Q 11/00 (11) EP4002863 (21) EP20425049.2 (47) 30.08.2023 (22) 12.11.2020 (54) METHOD OF OPERATING AN OPTICAL NETWORK UNIT, AND AN OPTICAL NETWORK UNIT, OPTICAL LINE TERMINAL AND COMPUTER SOFTWARE FOR PERFORMING THE METHOD
(51) H04N 23/68 G06T 7/246 (11) EP3794812 (21) EP19727748.6 (47) 30.08.2023 (87) JP2019018626 21.11.2019 (22) 09.05.2019 (54) VIDEO STABILIZATION METHOD AND APPARATUS AND NON-TRANSITORY COMPUTER-READABLE MEDIUM	(73) Sony Group Corporation (72) MIYATANI, Yoshitaka KITA, Mitsuaki (31) 2017202861 (32) 19.10.2017 (33) Japan	(73) Vodafone Group Services Limited (72) Dawes, Peter Robert Cornaglia, Bruno
(73) Ricoh Company, Ltd. (72) WANG, Wei LIU, Liyan WANG, Yiwei	(31) 2017202861 (32) 19.10.2017 (33) Japan	(51) H04Q 11/00 H04L 12/43 H04L 45/28 H04L 41/0663
(31) 201810461379 (32) 15.05.2018 (33) China	(51) H04N 25/709 H02M 3/07 H04N 25/71 (11) EP3606047 (21) EP19189029.2 (47) 30.08.2023 (22) 30.07.2019 (54) SOLID-STATE IMAGING DEVICE AND METHOD FOR DRIVING A SOLID- STATE IMAGING DEVICE	(11) EP3654664 (21) EP19190637.9 (47) 30.08.2023 (22) 30.01.2013 (54) METHOD FOR INTERCONNECTED RING PROTECTION, COMPUTER- READABLE STORAGE MEDIUM AND COMPUTER PROGRAM PRODUCT
(51) H04N 23/741 H04N 23/13 (11) EP3414896 (21) EP17750845.4 (47) 30.08.2023 (87) US2017017400 17.08.2017 (22) 10.02.2017 (54) COMBINED HDR/LDR VIDEO STREAMING	(73) BRILLNICS SINGAPORE PTE. LTD. (72) Goto, Miku (31) 2019116368 2018142377 (32) 24.06.2019 30.07.2018 (33) Japan Japan	(73) Huawei Technologies Co. Ltd. (72) XU, Qianfeng SUN, Guanghui HE, Yinghai (31) 201210021842 (32) 31.01.2012 (33) China
(73) Contrast, Inc. (72) KISER, Willie C. TOCCI, Nora TOCCI, Michael D.	(31) 2019116368 2018142377 (32) 24.06.2019 30.07.2018 (33) Japan Japan	(51) H04R 1/02 H04R 1/08 H04R 19/04 (11) EP3167623 (21) EP15741704.9 (47) 30.08.2023 (87) US2015039317 14.01.2016 (22) 07.07.2015 (54) APPARATUS AND METHOD FOR PROTECTING A MICRO-ELECTRO- MECHANICAL SYSTEM
(31) 201615169012 201662294820 P (32) 31.05.2016 12.02.2016 (33) United States of America United States of America	(51) H04Q 9/00 H04W 24/00 (11) EP3937504 (21) EP20184496.6 (47) 30.08.2023 (22) 07.07.2020 (54) METHOD FOR SUPPORTING ENHANCED OPERATION OF AND DETECTING THE POSITIONING OF AN ANTENNA DEVICE, SYSTEM, DEVICE MANAGEMENT DEVICE, COMPUTER PROGRAM AND COMPUTER READABLE MEDIUM	(73) W.L. Gore & Associates, Inc. (72) HOLLIDAY, Andrew J. (31) 201514791955 201462021303 P (32) 06.07.2015 07.07.2014 (33) United States of America United States of America
(51) H04N 23/84 H04N 5/14 H04N 25/46 H04N 25/53 H04N 25/533 H04N 25/583 (11) EP3804294 (21) EP19743083.8 (47) 30.08.2023 (87) US2019035454 12.12.2019 (22) 04.06.2019 (54) HDR IMAGE GENERATION FROM SINGLE-SHOT HDR COLOR IMAGE SENSORS	(73) Deutsche Telekom AG (72) PLATSCHEK, Martin Michael JAHN, Carl EL-MALLOUKI, Said MINOW, Jascha	(51) H04R 1/02 H04R 9/06 (11) EP3503571 (21) EP18208469.9 (47) 30.08.2023 (22) 27.11.2018 (54) LOUDSPEAKER ASSEMBLY WITH LIGHTING
(73) Dolby Laboratories Licensing Corporation (72) LI, Yuelong MCELVAIN, Jon S. TOFIGHI, Mohammad	(31) 2015037544 21.01.2016 (22) 24.06.2015 (54) OPTICAL MULTIPLEXER SWITCH FOR FREE SPACE OPTICAL COMMUNICATION	(73) Harman Becker Automotive Systems GmbH (72) JORGENSEN, Henrik Muusmann LYDOLF, Morten
(31) 201962837361 P 201862681789 P 18176403 (32) 23.04.2019 07.06.2018	(73) Raytheon Company (72) COLEMAN, Gary, D. SILNY, John, F.	

JEPSEN, Henrik Kirkeby	(11) EP3772224	(54) METHOD AND APPARATUS FOR
(31) 17210096	(21) EP20185055.9	PROCESSING AUDIO SIGNAL
(32) 22.12.2017	(47) 30.08.2023	(73) Wilus Institute of Standards and
(33) European Patent Office (EPO)	(22) 09.07.2020	Technology Inc.
(51) H04R 1/10	(54) VIBRATION SIGNAL GENERATION	GCoA Co., Ltd.
H04R 5/033	APPARATUS AND VIBRATION SIGNAL	(72) LEE, Taegyung
H04R 29/00	GENERATION PROGRAM	OH, Hyunoh
H04R 25/00	(73) Clarion Co., Ltd.	(31) 20130125936
(11) EP3599772	(72) FUJITA, Yasuhiro	201361894442 P
(21) EP19188074.9	HASHIMOTO, Takeshi	201361878638 P
(47) 30.08.2023	(31) 2019138744	(32) 22.10.2013
(22) 24.07.2019	(32) 29.07.2019	23.10.2013
(54) SHAPE-SHIFTING HEADPHONES	(33) Japan	17.09.2013
(73) Harman International Industries,	(51) H04R 3/12	(33) Korea (Republic)
Incorporated	H04R 1/24	United States of America
(72) VERBEKE, Joseph	H04R 3/00	United States of America
BOULANGER, Adam	(11) EP3641335	(51) H04S 5/02
DI CENSO, Davide	(21) EP19188223.2	H04S 7/00
MARTI, Stefan	(47) 30.08.2023	G10L 19/008
(31) 201816044443	(22) 25.07.2019	G10L 21/02
(32) 24.07.2018	(54) SOUND PRODUCING APPARATUS	(11) EP3668122
(33) United States of America	(73) Xmems Labs, Inc.	(21) EP20150228.3
(51) H04R 1/24	(72) Liang, Jemm Yue	(47) 30.08.2023
H04B 11/00	(31) 201916420141	(22) 01.07.2016
H04R 17/00	201962813095 P	(54) INFORMATION PROCESSING
G01N 29/24	201862748103 P	APPARATUS AND METHOD
G01S 7/521	(32) 22.05.2019	(73) Sony Group Corporation
(11) EP3656134	03.03.2019	(72) TSUJI, Minoru
(21) EP18737403.8	19.10.2018	CHINEN, Toru
(47) 30.08.2023	(33) United States of America	(31) 2015198582
(87) GB2018051956	United States of America	2015142253
24.01.2019	United States of America	(32) 06.10.2015
(22) 10.07.2018	(51) H04R 9/02	16.07.2015
(54) ELECTROACOUSTIC TRANSDUCER	H04R 7/18	(33) Japan
ARRAY	H04R 9/06	Japan
(73) BAE Systems PLC	(11) EP3448060	(51) H04S 7/00
(72) KENT, Lionel William John	(21) EP16899372.3	(11) EP3622730
(31) 201715467	(47) 30.08.2023	(21) EP18725696.1
201711609	(87) JP2016062328	(47) 30.08.2023
17275149	26.10.2017	(87) US2018028769
17275112	(22) 19.04.2016	15.11.2018
(32) 25.09.2017	(54) SPEAKER DEVICE, AND SPEAKER	(22) 23.04.2018
19.07.2017	DEVICE SOUND QUALITY	(54) SPATIALIZING AUDIO DATA BASED ON
25.09.2017	IMPROVEMENT METHOD	ANALYSIS OF INCOMING AUDIO DATA
19.07.2017	(73) Moriyama Meiboku Co., Ltd.	(73) Microsoft Technology Licensing, LLC
(33) United Kingdom	(72) MACHIDA, Kazuaki	(72) WILSSENS, Steven Marcel Elza
United Kingdom	MORIYAMA, Tatsuyoshi	HEITKAMP, Robert Norman
European Patent Office (EPO)	(51) H04R 25/00	MANION, Todd Ryon
European Patent Office (EPO)	H04R 1/10	EDRY, Philip Andrew
(51) H04R 3/00	(11) EP3920555	(31) 201715594328
G10L 21/0216	(21) EP20178207.5	(32) 12.05.2017
G10L 21/02	(47) 30.08.2023	(33) United States of America
G10L 21/0208	(22) 04.06.2020	(51) H04S 7/00
G10L 21/0232	(54) METHOD FOR OPERATING A	(11) EP3926985
H04R 1/40	HEARING DEVICE	(21) EP21179733.7
(11) EP3764660	(73) Sonova AG	(47) 30.08.2023
(21) EP19185514.7	(72) DURRIEU, Jean-Louis	(22) 16.06.2021
(47) 30.08.2023	(51) H04S 3/00	(54) CORRECTION METHOD OF
(22) 10.07.2019	H04S 3/02	ACOUSTIC CHARACTERISTICS,
(54) SIGNAL PROCESSING METHODS	G10L 19/008	ACOUSTIC CHARACTERISTIC
AND SYSTEMS FOR ADAPTIVE BEAM	G10L 19/02	CORRECTION DEVICE AND NON-
FORMING	G10L 25/48	TRANSITORY STORAGE MEDIUM
(73) Analog Devices International Unlimited	H03H 17/02	(73) YAMAHA CORPORATION
Company	(11) EP3806498	(72) Watanabe, Takayuki
(72) Ruwisch, Dietmar	(21) EP20203224.9	Miwa, Akihiro
(51) H04R 3/04	(47) 30.08.2023	(31) 2020105517
B06B 1/02	(22) 17.09.2014	(32) 18.06.2020
H04R 5/02		(33) Japan

(51) H04S 7/00 B60R 11/02 H04R 3/00	G07B 15/02 H04W 4/029	(54) UNICAST SUPPORT IN PROSE DIRECT DEVICE-TO-DEVICE COMMUNICATION
(11) EP3684082	(11) EP3635689	(73) Qualcomm Incorporated
(21) EP18856742.4	(21) EP18731300.2	(72) BAGHEL, Sudhir Kumar
(47) 30.08.2023	(47) 30.08.2023	VANDERVEEN, Michaela
(87) JP2018027092	(87) US2018034478	PATIL, Shailesh
21.03.2019	29.11.2018	WU, Zhibin
(22) 19.07.2018	(22) 24.05.2018	CHENG, Hong
(54) SIGNAL DELAY ADJUSTMENT DEVICE, SIGNAL DELAY ADJUSTMENT METHOD, AND SIGNAL PROCESSING DEVICE	(54) PROXIMITY-BASED COMPUTER APPLICATION CONTROL	ZISIMOPOULOS, Haris
(73) Clarion Co., Ltd.	(73) Odinak, Gilad	(31) 201615158483
(72) HASHIMOTO, Takeshi	Goldberg, Adam	201562165865 P
MORITA, Hideyuki	(72) Goldberg, Adam	(32) 18.05.2016
(31) 2017175308	Odinak, Gilad	22.05.2015
(32) 13.09.2017	(31) 201762511266 P	(33) United States of America
(33) Japan	(32) 25.05.2017	United States of America
(51) H04W 4/00	(33) United States of America	(51) H04W 4/08
A61B 5/00	(51) H04W 4/02	H04W 52/02
H04W 4/08	H04W 12/00	H04W 68/02
H04W 4/18	H04W 12/10	H04W 76/28
H04W 4/38	H04W 64/00	(11) EP3843429
H04W 4/80	H04W 12/08	(21) EP19866491.4
(11) EP3241361	H04W 84/04	(47) 30.08.2023
(21) EP15771453.6	H04W 84/12	(87) CN2019108768
(47) 30.08.2023	H04W 12/104	02.04.2020
(87) US2015050900	H04W 92/02	(22) 27.09.2019
07.07.2016	(11) EP3711311	(54) TRANSMISSION METHOD FOR PAGING INDICATION INFORMATION AND COMMUNICATION APPARATUS
(22) 18.09.2015	(21) EP18815838.0	(73) HUAWEI TECHNOLOGIES CO., LTD.
(54) METHOD AND SYSTEM FOR VERIFYING WIRELESS CONNECTION BETWEEN MEDICAL DEVICES	(47) 30.08.2023	(72) GAO, Kuandong
(73) General Electric Company	(87) US2018059945	YAN, Mao
(72) IKONEN, Emma Elina	23.05.2019	HUANG, Huang
KARRU, Kristian Matti	(22) 09.11.2018	(31) 20181142208
PEKANDER, Otto Valtteri	(54) METHOD AND SYSTEM FOR PROVIDING SIGNED USER LOCATION INFORMATION	(32) 28.09.2018
EKMAN, Henrik	(73) Cisco Technology, Inc.	(33) China
MUURANTO, Erno Petteri	(72) GUNDAVELLI, Srinath	(51) H04W 4/38
KALL, Magnus	KATHAIL, Pradeep, Kumar	H04W 4/80
VARTIOVAARA, Ville Petteri	(31) 201715814427	H04W 8/00
(31) 201423332	(32) 16.11.2017	H04W 84/18
(32) 30.12.2014	(33) United States of America	A47K 5/06
(33) United Kingdom	(51) H04W 4/029	(11) EP3552408
(51) H04W 4/02	(11) EP3796681	(21) EP16810308.3
H04L 67/104	(21) EP18921869.6	(47) 30.08.2023
(11) EP3939240	(47) 30.08.2023	(87) EP2016080143
(21) EP20717374.1	(87) CN2018090312	14.06.2018
(47) 30.08.2023	12.12.2019	(22) 07.12.2016
(87) US2020021423	(22) 07.06.2018	(54) APPARATUS AND METHOD FOR TRANSMITTING PAYLOAD DATA BETWEEN HYGIENE EQUIPMENTS WITH RADIO TRANSMISSION CAPABILITIES
17.09.2020	(54) INFORMATION PUSHING METHOD AND TERMINAL DEVICE	(73) Essity Hygiene and Health Aktiebolag
(22) 06.03.2020	(73) HUAWEI TECHNOLOGIES CO., LTD.	(72) LINDSTRÖM, Håkan
(54) DEPLOYING NETWORK FUNCTIONS IN A COMMUNICATION NETWORK BASED ON GEO-SOCIAL NETWORK DATA	(72) MA, Jie	(51) H04W 4/46
(73) Cisco Technology, Inc.	FANG, Weiqing	(11) EP3883274
(72) MUKHERJEE, Arghya	LIU, Chen	(21) EP21159486.6
ARVIND, Amarnath Sury	ZHANG, Donghao	(47) 30.08.2023
DODD-NOBLE, Aeneas Sean	LU, Hsienyang	(22) 26.02.2021
SUTHAR, Om Prakash	CHAI, Zhongyan	(54) METHOD OF COMMUNICATION FOR OPERATING A VEHICLE PLATOON
(31) 201916353777	LUO, Yankun	(73) MAN Truck & Bus SE
(32) 14.03.2019	(51) H04W 4/06	(72) Alieiev, Roman
(33) United States of America	H04W 4/70	(31) 102020107488
(51) H04W 4/02	H04W 76/14	(32) 18.03.2020
H04W 4/48	H04W 4/08	(33) Germany
H04W 4/80	(11) EP3298807	(51) H04W 4/46
	(21) EP16730549.9	H04W 4/02
	(47) 30.08.2023	
	(87) US2016033265	
	01.12.2016	
	(22) 19.05.2016	

H04W 84/00 G01S 13/931 G08G 1/16 (11) EP3797532 (21) EP19722971.9 (47) 30.08.2023 (87) US2019025209 28.11.2019 (22) 01.04.2019 (54) WIRELESS COMMUNICATIONS BETWEEN VEHICLES (73) QUALCOMM Incorporated (72) VANDERVEEN, Michaela LI, Junyi BAGHEL, Sudhir Kumar WU, Zhibin PATIL, Shailesh (31) 201916291592 201862675297 P (32) 04.03.2019 23.05.2018 (33) United States of America United States of America	(22) 22.05.2017 (54) METHOD FOR TRANSMITTING DOWNLINK COMMUNICATION DATA FROM A MOBILE COMMUNICATION NETWORK TO A PLURALITY OF INTERNET-OF-THINGS COMMUNICATION DEVICES, MOBILE COMMUNICATION NETWORK FOR TRANSMITTING DOWNLINK COMMUNICATION DATA TO A PLURALITY OF INTERNET-OF- THINGS COMMUNICATION DEVICES, SYSTEM FOR TRANSMITTING DOWNLINK COMMUNICATION DATA TO A PLURALITY OF INTERNET- OF-THINGS COMMUNICATION DEVICES, INTERNET-OF-THINGS COMMUNICATION DEVICE SUITABLE FOR RECEIVING DOWNLINK COMMUNICATION DATA FROM A MOBILE COMMUNICATION NETWORK, PROGRAM AND COMPUTER PROGRAM PRODUCT	(11) EP3275220 (21) EP16769730.9 (47) 30.08.2023 (87) US2016024101 29.09.2016 (22) 24.03.2016 (54) BLUETOOTH LOW ENERGY RAPID ROOM ENTRY SYSTEM AND METHOD (73) Clinical Patents, LLC (72) COSTABILE, Brian TAYLOR, John GENG, Wei JORGENSEN, Gary DELMAGE, Matt (31) 201514667021 (32) 24.03.2015 (33) United States of America
(51) H04W 4/50 H04W 4/70 H04W 8/18 H04W 12/30 H04W 12/42 (11) EP3632145 (21) EP18834610.0 (47) 30.08.2023 (87) US2018042181 24.01.2019 (22) 13.07.2018 (54) SUBSCRIPTION MANAGEMENT SERVICE DATA FEEDS (73) T-Mobile USA, Inc. (72) NAMIRANIAN, Babak (31) 201715816713 201762535192 P (32) 17.11.2017 20.07.2017 (33) United States of America United States of America	(73) Deutsche Telekom AG (72) KLATT, Axel (31) 16181124 (32) 26.07.2016 (33) European Patent Office (EPO)	(51) H04W 8/00 H04W 48/08 (11) EP3393156 (21) EP18171243.1 (47) 30.08.2023 (22) 15.10.2010 (54) RADIO COMMUNICATION DEVICE, PROGRAM, AND RADIO COMMUNICATION METHOD FOR FINDING COMPATIBLE SERVICES (73) Sony Group Corporation (72) YAMAURA, Tomoya SUZUKI, Hideyuki ITAYA, Natsuki TANIMOTO, Erika NAITO, Masahiko ITOH, Katsutoshi (31) 2009271363 (32) 30.11.2009 (33) Japan
(51) H04W 4/70 H04W 12/06 H04W 12/08 (11) EP3997897 (21) EP20734325.2 (47) 30.08.2023 (87) EP2020065967 14.01.2021 (22) 09.06.2020 (54) METHODS AND DEVICES FOR UTILIZING AN EXPOSURE FUNCTION OF A WIRELESS COMMUNICATIONS NETWORK (73) Sony Group Corporation (72) LJUNG, Rickard ALNÄS, Svante (31) 1930241 (32) 08.07.2019 (33) Sweden	(31) 2015146266 (32) 24.07.2015 (33) Japan (51) H04W 4/80 G06V 40/16 (11) EP3908018 (21) EP20908774.1 (47) 30.08.2023 (87) CN2020139727 08.07.2021 (22) 26.12.2020 (54) METHOD FOR OCCUPYING DEVICE AND ELECTRONIC DEVICE (73) Huawei Technologies Co., Ltd. (72) GAO, Guowen WANG, Wei LI, Guoqi LIU, Hao (31) 201911425298 (32) 31.12.2019 (33) China	(51) H04W 8/00 H04W 76/14 H04W 88/04 H04W 48/16 (11) EP4038917 (21) EP20796976.7 (47) 30.08.2023 (87) US2020053881 08.04.2021 (22) 02.10.2020 (54) DEVICE TO DEVICE SERVICE DISCOVERY VIA A RELAY DEVICE (73) InterDigital Patent Holdings, Inc. (72) AHMAD, Saad BRUSILOVSKY, Alec PERRAS, Michelle SHI, Xiaoyan FERDI, Samir (31) 201962910067 P (32) 03.10.2019 (33) United States of America
(51) H04W 4/70 H04W 52/02 (11) EP3826336 (21) EP20214517.3 (47) 30.08.2023	(51) H04W 4/80 G08C 17/02 H04W 4/021	(51) H04W 8/18 H04W 8/20 (11) EP3656142 (21) EP18759150.8 (47) 30.08.2023 (87) FR2018051780 24.01.2019 (22) 13.07.2018 (54) LOADING OF A NEW SUBSCRIPTION PROFILE INTO AN EMBEDDED

SUBSCRIBER IDENTIFICATION MODULE	(33) China	(72) KE, Xiaowan
(73) ORANGE	(51) H04W 8/22	YANG, Xiaodong
(72) LEMOINE, Christine	G06F 21/53	MA, Yue
LUCAS, Philippe	G06F 21/55	(31) 201810295830
(31) 1756854	H04L 9/40	(32) 03.04.2018
(32) 19.07.2017	(11) EP3737129	(33) China
(33) France	(21) EP19764790.2	(51) H04W 12/02
(51) H04W 8/18	(47) 30.08.2023	H04L 9/40
H04W 48/18	(87) CN2019077219	H04W 12/30
H04W 76/36	12.09.2019	H04W 12/40
H04W 76/50	(22) 06.03.2019	H04W 4/60
(11) EP3490279	(54) MANAGEMENT METHOD	H04W 8/20
(21) EP17203544.6	FOR OFFLINE MANAGEMENT	(11) EP4078922
(47) 30.08.2023	INSTRUCTION AND TERMINAL	(21) EP20842256.8
(22) 24.11.2017	(73) HUAWEI TECHNOLOGIES CO., LTD.	(47) 30.08.2023
(54) USER EQUIPMENT AND METHOD OF	(72) LAITINEN, Pekka	(87) FR2020052286
CONTROLLING SUBSCRIPTIONS	SUN, He	24.06.2021
(73) Bittium Wireless Oy	CHANG, Xinmiao	(22) 04.12.2020
(72) Lokasaari, Jussi	WANG, Sishan	(54) METHOD FOR OBTAINING A
Lääkkö, Janne	(31) 201810188418	COMMAND RELATING TO A
Leuanniemi, Markku	(32) 07.03.2018	NETWORK ACCESS PROFILE OF AN
(51) H04W 8/20	(33) China	EUICC SECURITY MODULE
H04W 8/18	(51) H04W 8/22	(73) Orange
H04W 12/06	H04W 24/10	(72) COUREAU, Laurent
H04W 12/63	H04W 88/06	GAMISHEV, Todor
H04L 9/40	H04W 52/02	(31) 1915340
H04W 12/72	(11) EP3796693	(32) 20.12.2019
H04W 76/14	(21) EP20162951.6	(33) France
H04W 4/80	(47) 30.08.2023	(51) H04W 12/04
(11) EP3761687	(22) 13.03.2020	(11) EP3902300
(21) EP20183531.1	(54) METHOD, APPARATUS, TERMINAL	(21) EP20171424.3
(47) 30.08.2023	AND STORAGE MEDIUM FOR	(47) 30.08.2023
(22) 01.07.2020	SENDING MEASUREMENT REPORT	(22) 24.04.2020
(54) METHOD FOR TRANSFERRING	(73) Beijing Xiaomi Mobile Software Co., Ltd.	(54) PROHIBITING INEFFICIENT
SUBSCRIPTION AND ELECTRONIC	(72) SUN, Long	DISTRIBUTION OF PUBLIC KEYS
DEVICE FOR SUPPORTING THE SAME	CUI, Hengbin	FROM THE PUBLIC LAND MOBILE
(73) Samsung Electronics Co., Ltd.	(31) 201910901197	NETWORK
(72) Seo, Jaehyeon	(32) 23.09.2019	(73) Nokia Technologies Oy
Ban, Hyongjin	(33) China	(72) Casati, Alessio
Jung, Jieun	(51) H04W 8/24	(51) H04W 12/08
Hwang, Sunmin	(11) EP3855786	H04W 12/06
Lee, Sanghwi	(21) EP19871452.9	(11) EP4026358
Park, Jimin	(47) 30.08.2023	(21) EP20758009.3
Yoon, Yejin	(87) CN2019108972	(47) 30.08.2023
(31) 20200030316	16.04.2020	(87) US2020044152
20190079960	(22) 29.09.2019	11.03.2021
(32) 11.03.2020	(54) METHODS AND APPARATUSES FOR	(22) 30.07.2020
03.07.2019	PROCESSING RADIO CAPABILITY	(54) DEVICE, SYSTEM AND METHOD FOR
(33) Korea (Republic)	CHANGE OF TERMINAL APPARATUS	CONTROLLING A PASSAGE BARRIER
Korea (Republic)	(73) HUAWEI TECHNOLOGIES CO., LTD.	MECHANISM
(51) H04W 8/20	(72) HUANG, Zhenglei	(73) Motorola Solutions, Inc.
H04W 8/22	(31) 201811169763	(72) JOHNSON, Eric
H04W 8/24	(32) 08.10.2018	MILLER, Trent, J.
(11) EP3855776	(33) China	RUSSO, Pietro
(21) EP19879791.2	(51) H04W 8/26	SARKYTBAYEV, Azamat
(47) 30.08.2023	H04W 4/18	BESTOR, Daniel, R.
(87) CN2019114925	H04W 76/11	ZENG, Hao
07.05.2020	H04W 74/08	(31) 201916563146
(22) 01.11.2019	(11) EP3780684	(32) 06.09.2019
(54) CAPABILITY IDENTIFIER ALLOCATION	(21) EP19781877.6	(33) United States of America
METHOD AND APPARATUS	(47) 30.08.2023	(51) H04W 12/10
(73) HUAWEI TECHNOLOGIES CO., LTD.	(87) CN2019080991	H04W 12/04
(72) Li, Xiaojuan	10.10.2019	H04W 28/02
KUANG, Yiru	(22) 02.04.2019	H04L 9/40
OUYANG, Guowei	(54) IDENTIFIER REPORTING METHOD,	H04W 80/02
(31) 201811303111	NETWORK DEVICE, AND TERMINAL	H04W 12/106
(32) 02.11.2018	DEVICE	H04L 69/324
	(73) Vivo Mobile Communication Co., Ltd.	(11) EP3622741

(21) EP18818245.5	(22) 20.11.2019	(11) EP3661249
(47) 30.08.2023	(54) PASSENGER SELECTION AND SCREENING FOR AUTOMATED VEHICLES	(21) EP19211383.5
(87) KR2018006728 20.12.2018	(73) Motional AD LLC	(47) 30.08.2023
(22) 14.06.2018	(72) Laur, Michael H. Mangal, Nandita	(22) 26.11.2019
(54) METHOD AND USER EQUIPMENT FOR HANDLING OF INTEGRITY CHECK FAILURES OF PDCP PDUS	(31) 201816214609 201862775415 P	(54) MEASUREMENT-BASED WIRELESS COMMUNICATIONS NETWORK DESIGN
(73) Samsung Electronics Co., Ltd.	(32) 10.12.2018 05.12.2018	(73) Nokia Solutions and Networks Oy
(72) AGIWAL, Anil RAJADURAI, Rajavelsamy INGALE, Mangesh Abhimanyu	(33) United States of America United States of America	(72) ERTIMO, Riku Tuomas ITKONEN, Jarkko Kalervo LAMMINMÄKI, Jyri Sakari
(31) 201741020837 201741020837	(51) H04W 16/02	(31) 20186021
(32) 13.06.2018 14.06.2017	(11) EP3675545	(32) 29.11.2018
(33) India India	(21) EP19220128.3	(33) Finland
(51) H04W 12/12 G06F 21/12 H04W 12/08 H04W 4/70 H04W 12/126	(47) 30.08.2023	(51) H04W 16/22
(11) EP3373627	(22) 30.12.2019	(11) EP3818742
(21) EP18160482.8	(54) BASE STATION OF A MOBILE STRUCTURE OF A MULTI-SECTOR ANTENNA SYSTEM MOBILE RADIO COMMUNICATION SYSTEM	(21) EP19736476.3
(47) 30.08.2023	(73) BULL SAS	(47) 30.08.2023
(22) 07.03.2018	(72) PISON, Laurent	(87) GB2019051869 09.01.2020
(54) INTEGRATED, PERSISTENT SECURITY MONITORING OF ELECTRONIC MERCHANDISE	(31) 1874393	(22) 01.07.2019
(73) Sennco Solutions, Inc.	(32) 30.12.2018	(54) EVALUATING THE WIRELESS PERFORMANCE OF A BUILDING
(72) PEACOCK, Brian LIFF, Dale	(33) France	(73) Ranplan Wireless Network Design Ltd
(31) 201761468263 P	(51) H04W 16/14 H04L 5/00 H04W 74/08 H04W 92/20	(72) ALAYÓN GLAZUNOV, Andrés ZHANG, Jie ZHANG, Jiliang SONG, Hui
(32) 07.03.2017	(11) EP4147474	(31) 201810995
(33) United States of America	(21) EP21725078.6	(32) 04.07.2018
(51) H04W 12/122 H04W 12/02 H04L 9/40 H04B 7/06	(47) 30.08.2023	(33) United Kingdom
(11) EP4011053	(87) EP2021061850 11.11.2021	(51) H04W 16/22 H04W 16/20 H04W 24/00 H04W 24/06
(21) EP20740316.3	(22) 05.05.2021	(11) EP3326404
(47) 30.08.2023	(54) BACKOFF COUNTER HANDLING FOR TXOP SHARING	(21) EP16736561.8
(87) EP2020070190 11.02.2021	(73) Telefonaktiebolaget LM Ericsson (publ)	(47) 30.08.2023
(22) 16.07.2020	(72) LOPEZ, Miguel WILHELMSSON, Leif PETTERSSON, Charlie HIERTZ, Guido, Roland SUNDMAN, Dennis	(87) GB2016051935 26.01.2017
(54) COMMUNICATION DEVICES AND METHODS FOR SECURE COMMUNICATION	(31) 202063020204 P	(22) 28.06.2016
(73) Sony Group Corporation	(32) 05.05.2020	(54) EVALUATING NEAR RANGE COMMUNICATIONS QUALITY
(72) ARNOLD, Maximilian HANDTE, Thomas CIOCHINA, Dana LOGHIN, Nabil Sven TIEDEMANN, Stephen FELLHAUER, Felix	(33) United States of America	(73) BAE Systems PLC
(31) 19189955	(51) H04W 16/18 H04L 41/12 H04W 84/12	(72) GOODBODY, Brendan, Christian
(32) 05.08.2019	(11) EP3611953	(31) 201512923 15275176
(33) European Patent Office (EPO)	(21) EP19185790.3	(32) 22.07.2015 22.07.2015
(51) H04W 12/63 H04W 12/00 G05D 1/00 H04W 12/06 H04W 12/60 H04W 12/69	(47) 30.08.2023	(33) United Kingdom European Patent Office (EPO)
(11) EP3664406	(22) 11.07.2019	(51) H04W 24/02 H04W 16/28 H04W 24/08 H04W 88/18 G05B 19/418
(21) EP19210232.5	(54) BSS COLOR ASSIGNMENT IN A WIRELESS LOCAL AREA NETWORK	(11) EP3780697
(47) 30.08.2023	(73) Hewlett Packard Enterprise Development LP	(21) EP19777362.5
	(72) PATWARDHAN, Gaurav HAHN, Dongwoon PERAHIA, Eldad GANU, Sachin	(47) 30.08.2023
	(31) 201816103915	(87) JP2019009369 03.10.2019
	(32) 14.08.2018	(22) 08.03.2019
	(33) United States of America	(54) COMMUNICATION NETWORK SYSTEM AND COMMUNICATION NETWORK METHOD
	(51) H04W 16/18 H04W 24/02	(73) National Institute of Information and Communications Technology
		(72) MARUHASHI Kenichi

ITAYA Satoko	(32) 05.12.2018	(73) Huawei Technologies Co., Ltd.
KOJIMA Fumihide	(33) United States of America	(72) CHEN, Zhe
(31) 2018064328	(51) H04W 24/02	JIN, Zhe
(32) 29.03.2018	H04W 84/10	LI, Qiming
(33) Japan	H04W 84/18	LIU, Hengjin
(51) H04W 24/02	(11) EP3672315	(51) H04W 24/10
H04W 36/08	(21) EP19219169.0	(11) EP3627878
(11) EP3512252	(47) 30.08.2023	(21) EP17917967.6
(21) EP19157485.4	(22) 20.12.2019	(47) 30.08.2023
(47) 30.08.2023	(54) INSTALLATION FOR PRIVATE MOBILE	(87) CN2017093672
(22) 06.01.2010	RADIO COMMUNICATION NETWORK,	24.01.2019
(54) HANDOVER FAILURE MESSAGING	METHOD FOR FORMING SUCH AN	(22) 20.07.2017
SCHEMES	INSTALLATION AND ASSOCIATED	(54) MEASUREMENT CONFIGURATION
(73) QUALCOMM Incorporated	COMPUTER PROGRAM	(73) GUANGDONG OPPO MOBILE
(72) HORN, Gavin Bernard	(73) BULL SAS	TELECOMMUNICATIONS CORP., LTD.
ULUPINAR, Fatih	(72) PISON, Laurent	(72) YANG, Ning
GUPTA, RAJARSHI	RAFFENOUX, Didier	LIU, Jianhua
AGASHE, Parag Arun	(31) 1874022	(51) H04W 24/10
CATOVIC, Amer	(32) 21.12.2018	H04L 5/00
PRAKASH, Rajat	(33) France	(11) EP3831119
(31) 65174610	(51) H04W 24/04	(21) EP19752812.8
16022209 P	H04W 24/10	(47) 30.08.2023
16021809 P	H04L 5/00	(87) US2019044221
15898809 P	H04W 24/08	06.02.2020
15899309 P	H04W 76/15	(22) 30.07.2019
14286209 P	(11) EP3706456	(54) SEPARATE MEASUREMENT AND
(32) 04.01.2010	(21) EP18872078.3	REPORTING FOR DIFFERENT
13.03.2009	(47) 30.08.2023	TRANSMIT RECEIVE POINTS
13.03.2009	(87) CN2018113309	(73) QUALCOMM INCORPORATED
10.03.2009	09.05.2019	(72) JOSEPH, Vinay
10.03.2009	(22) 01.11.2018	LI, Junyi
06.01.2009	(54) MULTI-BASE STATION CONNECTION	LI, Chong
(33) United States of America	MANAGEMENT METHOD, USER	(31) 201816050291
United States of America	TERMINAL AND COMPUTER	(32) 31.07.2018
United States of America	READABLE STORAGE MEDIUM	(33) United States of America
United States of America	(73) ZTE Corporation	(51) H04W 24/10
United States of America	(72) LIU, Wei	H04W 76/18
United States of America	(31) 201711059902	H04W 24/02
(51) H04W 24/02	(32) 01.11.2017	H04W 24/04
H04W 48/08	(33) China	(11) EP3025541
H04W 84/18	(51) H04W 24/06	(21) EP14741963.4
(11) EP3731557	(11) EP3804390	(47) 30.08.2023
(21) EP20171167.8	(21) EP19732820.6	(87) JP2014068649
(47) 30.08.2023	(47) 30.08.2023	29.01.2015
(22) 23.04.2020	(87) US2019035369	(22) 08.07.2014
(54) METHOD FOR SUPERVISING THE	12.12.2019	(54) COMMUNICATION SYSTEM
CONNECTION BETWEEN TWO NODES	(22) 04.06.2019	(73) NEC Corporation
OF A COMMUNICATION NETWORK	(54) MODELING WIRELESS SIGNAL	(72) CHEN, Yuhua
(73) Airbus DS SLC	STRENGTH WITHIN A DEFINED	(31) 201313136
(72) LAFFITTE, Pascal	ENVIRONMENT	(32) 23.07.2013
PATEROUR, Olivier	(73) Baylor University	(33) United Kingdom
(31) 1904393	(72) LI, Yang	(51) H04W 28/06
(32) 25.04.2019	DONG, Liang	H04W 52/14
(33) France	HU, Jonathan	H04W 52/32
(51) H04W 24/02	(31) 201816001415	H04W 52/22
H04W 48/20	(32) 06.06.2018	H04W 52/36
(11) EP3874793	(33) United States of America	H04W 52/48
(21) EP19827899.6	(51) H04W 24/08	(11) EP3021619
(47) 30.08.2023	H04W 24/10	(21) EP14823519.5
(87) US2019063240	(11) EP3606139	(47) 30.08.2023
11.06.2020	(21) EP17907222.8	(87) JP2014068516
(22) 26.11.2019	(47) 30.08.2023	15.01.2015
(54) DISENGAGED-MODE ACTIVE	(87) CN2017082554	(22) 10.07.2014
COORDINATION SET MANAGEMENT	01.11.2018	(54) TERMINAL DEVICE AND METHOD
(73) Google LLC	(22) 28.04.2017	(73) Sharp Kabushiki Kaisha
(72) STAUFFER, Erik Richard	(54) METHOD AND DEVICE FOR SENDING	(72) AIBA, Tatsushi
WANG, Jibing	INFORMATION AND MEASURING	SUZUKI, Shoichi
(31) 201816210969	RECEIVED POWER	OUCHI Wataru

(31) 2013146514	(31) 201916426748	WANG, Fanzhao
(32) 12.07.2013	201862682499 P	YANG, Neng
(33) Japan	(32) 30.05.2019	(31) 201810872929
(51) H04W 28/08	08.06.2018	(32) 02.08.2018
H04W 48/18	(33) United States of America	(33) China
H04W 76/16	United States of America	(51) H04W 36/00
(11) EP3570588	(51) H04W 36/00	H04W 52/02
(21) EP18173251.2	(11) EP3942863	H04W 76/27
(47) 30.08.2023	(21) EP20720925.5	H04W 76/30
(22) 18.05.2018	(47) 30.08.2023	(11) EP3824669
(54) CORE RESOURCE DISTRIBUTION	(87) IB2020000138	(21) EP19838625.2
(73) NTT DOCOMO, INC.	24.09.2020	(47) 30.08.2023
(72) MINOKUCHI, Atsushi	(22) 20.03.2020	(87) CN2019096674
SAMA, Malla Reddy	(54) V2X COMMUNICATION RESOURCE	23.01.2020
MUTIKAINEN, Jari	FOR MOBILITY EVENT	(22) 19.07.2019
(51) H04W 28/16	(73) Lenovo (Singapore) Pte. Ltd.	(54) REPORTING EARLY MEASUREMENT
H04B 7/02	(72) LOEHR, Joachim	RESULTS IN THE NEXT GENERATION
H04B 7/024	KUCHIBHOTLA, Ravi	WIRELESS NETWORKS
(11) EP3869895	GANESAN, Karthikeyan	(73) FG Innovation Company Limited
(21) EP21168359.4	BASU MALLICK, Prateek	(72) CHOU, Chieming
(47) 30.08.2023	(31) 201962821306 P	CHEN, Hungchen
(22) 17.10.2013	(32) 20.03.2019	(31) 201862701016 P
(54) SYSTEM AND METHOD FOR RADIO	(33) United States of America	(32) 20.07.2018
ACCESS VIRTUALIZATION	(51) H04W 36/00	(33) United States of America
(73) HUAWEI TECHNOLOGIES CO., LTD.	(11) EP3876601	(51) H04W 36/00
(72) ZHU, Peiying	(21) EP21168310.7	H04W 72/02
MA, Jianglei	(47) 30.08.2023	H04W 76/14
TONG, Wen	(22) 06.04.2017	H04W 76/23
(31) 201313974810	(54) SYSTEMS AND METHODS OF	(11) EP3881599
201261715702 P	HANDLING OVER A WIRELESS DEVICE	(21) EP19809360.1
(32) 23.08.2013	(73) Telefonaktiebolaget LM Ericsson (publ)	(47) 30.08.2023
18.10.2012	(72) MILDH, Gunnar	(87) US2019059902
(33) United States of America	SCHLIWA-BERTLING, Paul	22.05.2020
United States of America	(31) 201662417984 P	(22) 05.11.2019
(51) H04W 28/24	(32) 04.11.2016	(54) EV2X MOBILITY SUPPORT FOR MODE
(11) EP3698572	(33) United States of America	3.5/RSU SCHEDULED MODE
(21) EP17791368.8	(51) H04W 36/00	(73) QUALCOMM INCORPORATED
(47) 30.08.2023	H04W 36/14	(72) GULATI, Kapil
(87) EP2017077462	(11) EP4057695	CHENG, Hong
02.05.2019	(21) EP22171335.7	WU, Zhibin
(22) 26.10.2017	(47) 30.08.2023	BAGHEL, Sudhir Kumar
(54) TECHNIQUES FOR NOTIFYING A	(22) 28.09.2018	LI, Junyi
QUALITY OF SERVICE CHANGE	(54) COMMUNICATION ESTABLISHMENT	BHARADWAJ, Arjun
(73) Huawei Technologies Co., Ltd.	(73) Telefonaktiebolaget LM Ericsson (publ)	PATIL, Shailesh
(72) PATEROMICHELAKIS, Emmanouil	(72) LARSEN, Asa	(31) 201916673886
AN, Xueli	KELLER, Ralf	201862760148 P
ZHOU, Chan	GUSTAFSSON, Christer	(32) 04.11.2019
KOUSARIDAS, Apostolos	(31) 201762589148 P	13.11.2018
PENG, Chenghui	(32) 21.11.2017	(33) United States of America
(51) H04W 28/26	(33) United States of America	United States of America
H04W 36/00	(51) H04W 36/00	(51) H04W 36/00
H04W 36/32	H04W 36/14	H04W 76/11
H04W 64/00	H04W 36/30	H04W 76/12
H04W 88/04	H04W 88/06	H04W 36/14
(11) EP3804432	H04W 76/16	H04W 76/22
(21) EP19733600.1	H04W 36/28	(11) EP3606120
(47) 30.08.2023	(11) EP3675558	(21) EP18770557.9
(87) US2019035007	(21) EP19845360.7	(47) 30.08.2023
12.12.2019	(47) 30.08.2023	(87) CN2018078841
(22) 31.05.2019	(87) CN2019081638	27.09.2018
(54) PREDICTIVE SCHEDULING FOR MM-	06.02.2020	(22) 13.03.2018
WAVE BASED CV2X	(22) 06.04.2019	(54) ALLOCATING EPS BEARER
(73) QUALCOMM Incorporated	(54) SWITCHING TRANSMISSION BASED	IDENTIFICATION
(72) LI, Junyi	ON DATA TRANSMISSION DELAY	(73) Datang Mobile Communications
BAGHEL, Sudhir Kumar	(73) Huawei Technologies Co. Ltd.	Equipment Co., Ltd.
ABEDINI, Navid	(72) CAO, Zhen	(72) WANG, Hucheng
GULATI, Kapil	ZHU, Jianjian	(31) 201710166764
WU, Zhibin	JADHAV, Rahul Arvind	(32) 20.03.2017

(33) China	DA SILVA, Icaro L. J.	(21) EP17792519.5
(51) H04W 36/02	WALLENTIN, Pontus	(47) 30.08.2023
H04W 36/00	RUNE, Johan	(87) CN2017083272
H04L 45/50	OHLSSON, Oscar	09.11.2017
H04W 36/08	(31) 202062967059 P	(22) 05.05.2017
H04W 40/36	(32) 29.01.2020	(54) PREDICTIVE ROUTING FOR MOBILITY
(11) EP3800839	(33) United States of America	(73) Huawei Technologies Co., Ltd.
(21) EP19823095.5	(51) H04W 40/00	(72) PILLAY-ESNAULT, Padmadevi
(47) 30.08.2023	H04W 92/24	(31) 201715584957
(87) CN2019092273	H04W 88/14	201662332639 P
26.12.2019	H04W 76/12	(32) 02.05.2017
(22) 21.06.2019	H04W 88/16	06.05.2016
(54) DATA TRANSMISSION METHOD AND RELATED APPARATUS	H04W 8/08	(33) United States of America
(73) Huawei Technologies Co., Ltd.	H04L 45/00	United States of America
(72) CHEN, Zhe	(11) EP3177099	(51) H04W 40/24
YANG, Fei	(21) EP16201889.9	H04L 45/28
WEI, Xinpeng	(47) 30.08.2023	(11) EP3813311
(31) 201810665970	(22) 02.12.2016	(21) EP19204382.6
(32) 22.06.2018	(54) A NETWORK ELEMENT SYSTEM	(47) 30.08.2023
(33) China	(73) University of Surrey	(22) 21.10.2019
(51) H04W 36/16	(72) FOSTER, Gerry	(54) ON-DEMAND TABLE AND ROUTE UPDATE AFTER A NODE FAILURE IN A WIRELESS NETWORK
H04W 24/02	DOLBY, Riki Benjamin	(73) Carrier Corporation
H04W 16/22	(31) 201514959422	(72) KUENZI, Adam
H04W 36/08	(32) 04.12.2015	VILLA, Davide
H04W 36/22	(33) United States of America	LANG, Michael
(11) EP3682663	(51) H04W 40/16	LIN, Chih-Kuang
(21) EP17768121.0	H04W 84/12	(51) H04W 40/34
(47) 30.08.2023	(11) EP3101951	H04W 40/02
(87) EP2017073324	(21) EP16171186.6	H04W 40/12
21.03.2019	(47) 30.08.2023	H04W 40/22
(22) 15.09.2017	(22) 24.05.2016	H04B 7/26
(54) GLOBAL OPTIMIZATION PROCESS FOR LINK ASSOCIATIONS	(54) BIDIRECTIONAL REDUNDANT MESH NETWORKS	H04W 88/08
(73) Nokia Solutions and Networks Oy	(73) Honeywell International Inc.	(11) EP3806542
(72) TILLI, Juha-Matti	(72) BEREZOWSKI, Andrew G.	(21) EP19821538.6
(51) H04W 36/18	PEARSON, Charles T.	(47) 30.08.2023
H04W 36/00	OTIS, Jesse J.	(87) CN2019092066
(11) EP3860218	(31) 201514731803	26.12.2019
(21) EP19867838.5	(32) 05.06.2015	(22) 20.06.2019
(47) 30.08.2023	(33) United States of America	(54) PATH CHANGING METHOD AND APPARATUS
(87) CN2019106672	(51) H04W 40/20	(73) HUAWEI TECHNOLOGIES CO., LTD.
02.04.2020	H04B 7/185	(72) ZHU, Yuanping
(22) 19.09.2019	H04L 45/74	DAI, Mingzeng
(54) DUAL CONNECTIVITY HANDOVER METHODS, TERMINAL AND NETWORK DEVICE	H04L 45/745	YUAN, Shitong
(73) VIVO MOBILE COMMUNICATION CO., LTD.	H04L 61/5007	(31) 201810646810
(72) MA, Yue	H04L 101/69	(32) 21.06.2018
WU, Yumin	(11) EP4169296	(33) China
(31) 201811134407	(21) EP21737242.4	(51) H04W 48/02
(32) 27.09.2018	(47) 30.08.2023	H04W 48/04
(33) China	(87) US2021035182	H04W 4/021
(51) H04W 36/18	30.12.2021	H04W 60/00
H04W 36/36	(22) 01.06.2021	H04W 36/00
(11) EP4098027	(54) REDUCED FORWARDING RULES FOR AEROSPACE NETWORK NODES	H04W 8/18
(21) EP21702541.0	(73) SOFTBANK, CORP.	(11) EP3726887
(47) 30.08.2023	(72) HENIWOLF, Paul	(21) EP19754062.8
(87) SE2021050036	BARRITT, Brian	(47) 30.08.2023
05.08.2021	KLINE, Erik	(87) CN2019073366
(22) 22.01.2021	(31) 202117146506	22.08.2019
(54) RADIO NETWORK NODE, USER EQUIPMENT, AND HANDOVER METHODS PERFORMED IN A COMMUNICATION NETWORK	202063043948 P	(22) 28.01.2019
(73) Telefonaktiebolaget LM Ericsson (publ)	(32) 12.01.2021	(54) NETWORK ACCESS METHOD AND RELATED APPARATUS
(72) EKLÖF, Cecilia	25.06.2020	(73) HUAWEI TECHNOLOGIES CO., LTD.
	(33) United States of America	(72) JIN, Weisheng
	United States of America	ZHU, Hualin
	(51) H04W 40/20	(31) 201810153155
	H04W 8/26	(32) 14.02.2018
	H04W 64/00	
	(11) EP3446503	

(33) China	(11) EP4007375	H04W 84/12
(51) H04W 48/02	(21) EP21217375.1	(11) EP3799482
H04W 48/06	(47) 30.08.2023	(21) EP19218459.6
H04W 76/27	(22) 15.07.2014	(47) 30.08.2023
H04W 76/18	(54) SELECTION OF AN ACCESS	(22) 20.12.2019
H04W 76/19	NETWORK CONDITIONED BY	(54) IMPROVED WIRELESS TERMINAL
H04W 68/00	CELLULAR ACCESS TECHNOLOGY	ROAMING
(11) EP3780853	(73) Orange	(73) Juniper Networks, Inc.
(21) EP19781135.9	(72) MOUQUET, Antoine	(72) WANG, Wenfeng
(47) 30.08.2023	DAOUD TRIKI, Khadija	THOMAS, Jacob
(87) CN2019080131	(31) 1357002	(31) 201916585581
10.10.2019	(32) 16.07.2013	(32) 27.09.2019
(22) 28.03.2019	(33) France	(33) United States of America
(54) ACCESS CONTROL METHOD AND	(51) H04W 48/18	(51) H04W 52/00
USER EQUIPMENT	H04W 36/12	H04W 52/02
(73) Sharp Kabushiki Kaisha	H04W 76/10	(11) EP3664520
FG Innovation Company Limited	H04W 88/18	(21) EP18842399.0
(72) ZHANG, Chongming	(11) EP3737126	(47) 30.08.2023
LUO, Chao	(21) EP19753619.6	(87) CN2018093327
LIU, Renmao	(47) 30.08.2023	07.02.2019
TSUBOI, Hidekazu	(87) CN2019073412	(22) 28.06.2018
(31) 201810286335	22.08.2019	(54) METHOD FOR INDICATING AND
(32) 02.04.2018	(22) 28.01.2019	DETERMINING TERMINAL STATE,
(33) China	(54) COMMUNICATION METHOD AND	BASE STATION AND TERMINAL
(51) H04W 48/14	COMMUNICATION APPARATUS	(73) Vivo Mobile Communication Co., Ltd.
H04W 48/08	(73) HUAWEI TECHNOLOGIES CO., LTD.	(72) QIN, Fei
H04W 48/18	(72) ZHU, Fenqin	SHEN, Xiaodong
(11) EP3481108	WU, Wenfu	JIANG, Dajie
(21) EP17824478.6	ZONG, Zaifeng	(31) 201710642684
(47) 30.08.2023	(31) 201810148408	(32) 31.07.2017
(87) KR2017007027	(32) 13.02.2018	(33) China
11.01.2018	(33) China	(51) H04W 52/02
(22) 03.07.2017	(51) H04W 48/20	H04N 5/445
(54) METHOD FOR SUPPORTING NAS	H04W 16/14	G06F 16/957
SIGNALING BY BASE STATION IN	(11) EP3703428	G06Q 30/0251
WIRELESS COMMUNICATION SYSTEM	(21) EP20171142.1	G06F 1/3203
AND APPARATUS THEREFOR	(47) 30.08.2023	(11) EP3937484
(73) LG Electronics Inc.	(22) 23.10.2015	(21) EP21194744.5
(72) KIM, Hyunsook	(54) METHOD OF SELECTING CELL TO BE	(47) 30.08.2023
KIM, Laeyoung	CAMPED ON AND DEVICE UTILIZING	(22) 25.01.2018
RYU, Jinsook	SAME	(54) CONTENT-AWARE ENERGY SAVINGS
PARK, Sangmin	(73) GUANGDONG OPPO MOBILE	FOR WEB BROWSING UTILIZING
(31) 201762510279 P	TELECOMMUNICATIONS CORP., LTD.	SELECTIVE LOADING PRIORITY
201662358058 P	(72) FENG, Bin	(73) Huawei Technologies Co., Ltd.
(32) 24.05.2017	(51) H04W 48/20	(72) WANG, Jun
04.07.2016	H04W 24/08	YE, Handong
(33) United States of America	H04W 84/12	HU, Ziang
United States of America	(11) EP3883300	LIN, Zongfang
(51) H04W 48/16	(21) EP18942834.5	TIAN, Chen
H04L 27/26	(47) 30.08.2023	(31) 201715423542
H04W 4/06	(87) CN2018121296	(32) 02.02.2017
H04W 4/02	18.06.2020	(33) United States of America
(11) EP3979713	(22) 14.12.2018	(51) H04W 52/02
(21) EP21193730.5	(54) WI-FI NETWORK PROCESSING	H04W 8/22
(47) 30.08.2023	METHOD AND APPARATUS,	H04W 48/18
(22) 26.09.2014	ELECTRONIC DEVICE AND STORAGE	H04W 88/06
(54) INFORMATION TRANSMISSION	MEDIUM	H04W 48/16
METHOD, USER EQUIPMENT, AND	(73) SHENZHEN HEYTAP TECHNOLOGY	H04W 48/12
BASE STATION	CORP., LTD.	(11) EP3474608
(73) Huawei Technologies Co., Ltd.	GUANGDONG OPPO MOBILE	(21) EP17828019.4
(72) GUAN, Lei	TELECOMMUNICATIONS CORP., LTD.	(47) 30.08.2023
SUN, Jingyuan	(72) LIN, Jinquan	(87) KR2017007672
ZHOU, Yongxing	(51) H04W 48/20	18.01.2018
XUE, Lixia	H04W 36/30	(22) 17.07.2017
(31) PCT/CN2014/071323	H04W 36/00	(54) METHOD AND DEVICE FOR
(32) 24.01.2014	H04L 43/04	CONTROLLING STATE OF TERMINAL
(33) World Intellectual Property Office (WIPO)	H04L 43/08	IN MOBILE COMMUNICATION SYSTEM
(51) H04W 48/18	H04L 43/16	(73) Samsung Electronics Co., Ltd.

(72) MAENG, Seungjoo CHO, Kiho LEE, Daewoo KIM, Youngky KIM, Seho	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(21) EP19723853.8 (47) 30.08.2023 (87) IB2019052814 10.10.2019 (22) 05.04.2019
(31) 20160154390 20160090068	(72) ZHANG, Zhi SHI, Zhihua CHEN, Wenhong	(87) IB2019052814 10.10.2019 (22) 05.04.2019
(32) 18.11.2016 15.07.2016	(51) H04W 52/14 H04W 52/28 H04L 5/00 H04W 72/12	(54) AIRBORNE STATUS DEPENDENT UPLINK POWER CONTROL RELATED TASK(S) FOR AERIAL UES
(33) Korea (Republic) Korea (Republic)	(11) EP3857991 (21) EP19774083.0 (47) 30.08.2023 (87) EP2019075351 02.04.2020	(73) Telefonaktiebolaget LM Ericsson (publ) (72) MÄÄTTÄNEN, Helka-Liina GAO, Shiwei MURUGANATHAN, Siva LIN, Xingqin ZOU, Zhenhua
(51) H04W 52/02 H04W 24/10 H04W 48/18	(11) EP3949532 (21) EP20704960.2 (47) 30.08.2023 (87) SE2020050105 01.10.2020	(31) 201862653871 P 201862653493 P (32) 06.04.2018 05.04.2018 (33) United States of America United States of America
(22) 05.02.2020	(72) FRÖBERG OLSSON, Jonas KITTICHOKECHAI, Kittipong BLANKENSHIP, Yufei	(51) H04W 52/34 (11) EP3689048 (21) EP18773198.9 (47) 30.08.2023 (87) EP2018076085 04.04.2019 (22) 26.09.2018 (54) BASE STATION AND USER EQUIPMENT (73) Sony Group Corporation Sony Mobile Communications Inc. (72) BERGGREN, Anders WAKABAYASHI, Hideji WEI, Yuxin SHARMA, Vivek TSUDA, Shinichiro
(54) HANDLING OF INACTIVE/IDLE MEASUREMENT CONFIGURATIONS AND INACTIVE/IDLE MEASUREMENTS UPON INTER-RAT CELL RESELECTION	(31) 201862737998 P (32) 28.09.2018 (33) United States of America	(31) 17193901 (32) 28.09.2017 (33) European Patent Office (EPO)
(73) TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)	(51) H04W 52/14 H04W 52/42 H04B 7/024 H04B 7/0426 H04B 7/0456 H04W 52/24	(51) H04W 52/34 H04W 52/24 H04W 72/04 (11) EP3016453 (21) EP14817252.1 (47) 30.08.2023 (87) JP2014056035 31.12.2014 (22) 07.03.2014 (54) WIRELESS BASE STATION AND WIRELESS COMMUNICATION METHOD (73) NTT DOCOMO, INC. (72) KISHIYAMA, Yoshihisa BENJEBBOUR, Anass
(72) TEYEB, Oumer RAMACHANDRA, Pradeepa RUGELAND, Patrik BERGQVIST, Jens DA SILVA, Icaro L. J.	(11) EP3800945 (21) EP18923800.9 (47) 30.08.2023 (87) CN2018093143 02.01.2020	(31) 2013136414 (32) 28.06.2013 (33) Japan
(31) 201962825430 P (32) 28.03.2019 (33) United States of America	(11) EP3820205 (21) EP19843119.9 (47) 30.08.2023 (87) CN2019098471 06.02.2020 (22) 30.07.2019	(51) H04W 64/00 G01S 5/02 (11) EP3913997 (21) EP21185246.2 (47) 30.08.2023 (22) 21.06.2017 (54) GENERATING WIRELESS NETWORK ACCESS POINT MODELS USING CLUSTERING TECHNIQUES (73) Google LLC (72) MEHTA, Bhaskar
(51) H04W 52/14 H04W 52/08 H04W 52/22 H04W 52/10	(54) POWER ALLOCATION METHOD AND RELATED DEVICE	
(11) EP3820205 (21) EP19843119.9 (47) 30.08.2023 (87) CN2019098471 06.02.2020 (22) 30.07.2019	(73) HUAWEI TECHNOLOGIES CO., LTD. (72) SU, Liyan	
(87) CN2019098471 06.02.2020 (22) 30.07.2019	(51) H04W 52/24 H04L 65/612 H04L 67/12 H04W 4/48 H04W 4/80	
(54) POWER CONTROL METHOD AND DEVICE, TERMINAL, AND STORAGE MEDIUM	(11) EP3662677 (21) EP18841484.1 (47) 30.08.2023 (87) US2018044546 07.02.2019 (22) 31.07.2018	
(73) China Mobile Communications Group Co., Ltd. China Mobile Communication Co., Ltd Research Institute	(54) WIRED AND WIRELESS AUDIO OUTPUT DEVICE FOR IN-VEHICLE ENTERTAINMENT SYSTEM	
(72) HU, Lijie ZHANG, Yi XIA, Liang HOU, Xueying	(73) Safran Passenger Innovations, LLC (72) GLEDICH, Matthew HEALY, Chris LECOMTE, Romain SIMONE, Brian BIRD, Randy	
(31) 201810854475 (32) 30.07.2018 (33) China	(31) 201762539211 P (32) 31.07.2017 (33) United States of America	
(51) H04W 52/14 H04W 52/24	(51) H04W 52/28 H04W 52/14 H04W 52/24	
(11) EP3955654 (21) EP21193905.3 (47) 30.08.2023 (22) 12.01.2018	(11) EP3777358	
(54) METHOD FOR POWER CONTROL AND NETWORK DEVICE		

FRASER, Robert	(73) ARRIS Enterprises LLC	PATIL, Shailesh
LEBLANC, Gabriel	(72) POLI, Christopher	PARK, Cheol Hee
ZHANG, Ying	(31) 201562149961 P	(31) 201916680252
ZHANG, Xiao	(32) 20.04.2015	201862760737 P
(51) H04W 64/00	(33) United States of America	(32) 11.11.2019
H04B 7/06	(51) H04W 64/00	13.11.2018
H04B 17/24	H04W 88/02	(33) United States of America
H04B 17/27	H04W 88/18	United States of America
H04B 17/318	H04W 88/08	(51) H04W 72/02
H04W 24/10	(11) EP4147502	H04W 72/04
H04W 16/28	(21) EP21724813.7	H04W 24/10
(11) EP3804425	(47) 30.08.2023	(11) EP3648520
(21) EP19729422.6	(87) SE2021050408	(21) EP18823061.9
(47) 30.08.2023	11.11.2021	(47) 30.08.2023
(87) US2019032873	(22) 03.05.2021	(87) KR2018007479
05.12.2019	(54) USER EQUIPMENT, NETWORK	03.01.2019
(22) 17.05.2019	NODE AND METHODS IN A RADIO	(22) 02.07.2018
(54) COMPUTING AND REPORTING	COMMUNICATIONS NETWORK	(54) METHOD AND APPARATUS FOR
A RELEVANCE METRIC FOR A	(73) Telefonaktiebolaget LM ERICSSON	UE TRANSMITTING SIGNAL IN
POSITIONING BEACON BEAM	(PUBL)	WIRELESS COMMUNICATION SYSTEM
(73) QUALCOMM INCORPORATED	(72) SHREEVASTAV, Ritesh	SUPPORTING PLURALITY OF TTI
(72) LI, Junyi	MODARRES RAZAVI, Sara	LENGTHS
SADIQ, Bilal	SIOMINA, Iana	(73) LG Electronics Inc.
MANOLAKOS, Alexandros	SHRESTHA, Deep	(72) CHAE, Hyukjin
BAI, Tianyang	(31) 202063021159 P	SEO, Hanbyul
RAGHAVAN, Vasanthan	(32) 07.05.2020	(31) 201762527048 P
VITTHALADEVUNI, Pavan Kumar	(33) United States of America	(32) 30.06.2017
SORIAGA, Joseph Binamira	(51) H04W 68/02	(33) United States of America
CEZANNE, Juergen	H04W 4/70	(51) H04W 72/02
BHUSHAN, Naga	(11) EP3823375	H04W 72/04
(31) 20180100233	(21) EP20213543.0	H04W 92/18
201916414427	(47) 30.08.2023	(11) EP3697127
(32) 29.05.2018	(22) 23.02.2015	(21) EP17932086.6
16.05.2019	(54) APPLICATION SPECIFIC INTEGRATED	(47) 30.08.2023
(33) Greece	CIRCUIT FOR IMPROVED PAGING	(87) CN2017111414
United States of America	PROCEDURES FOR USER	23.05.2019
(51) H04W 64/00	EQUIPMENTS REQUIRING	(22) 16.11.2017
H04L 25/02	COVERAGE EXTENSION	(54) COMMUNICATION METHOD AND
G06N 20/00	(73) Panasonic Intellectual Property	TERMINAL DEVICE
G01S 5/02	Corporation of America	(73) Huawei Technologies Co., Ltd.
G06N 3/08	(72) SUZUKI, Hidetoshi	(72) LIU, Deping
(11) EP3852451	BASU MALLICK, Prateek	SHI, Yi
(21) EP21151065.6	LOEHR, Joachim	LU, Zhenwei
(47) 30.08.2023	(51) H04W 72/02	(51) H04W 72/02
(22) 12.01.2021	H04B 17/318	H04W 72/20
(54) TRAINING IN COMMUNICATION	H04B 17/345	H04W 72/52
SYSTEMS	H04L 5/00	(11) EP4084547
(73) Nokia Technologies Oy	H04L 5/16	(21) EP21305536.1
(72) KOTESHWAR SRINATH, Pavan	H04W 4/44	(47) 30.08.2023
HOYDIS, Jakob	H04W 28/02	(22) 26.04.2021
(31) 20205030	H04W 72/542	(54) AUTONOMOUS INTER-TERMINAL
(32) 14.01.2020	H04W 72/0446	RADIO RESOURCE SHARING
(33) Finland	H04L 1/1867	FOR DEVICE-TO-DEVICE
(51) H04W 64/00	H04W 24/08	COMMUNICATIONS
H04W 4/02	(11) EP3881619	(73) Mitsubishi Electric Corporation
H04W 4/021	(21) EP19817008.6	(72) GRESSET, Nicolas
G01S 5/14	(47) 30.08.2023	SIBEL, Jean-Christophe
G01S 5/02	(87) US2019060893	SHEHATA, Mohamed
H04W 4/029	22.05.2020	(51) H04W 72/02
(11) EP3272162	(22) 12.11.2019	H04W 84/00
(21) EP16720014.6	(54) COLLISION AVOIDANCE OF HALF-	H04W 92/18
(47) 30.08.2023	DUPLEX RESOURCE SELECTION	(11) EP3920615
(87) US2016028120	(73) QUALCOMM Incorporated	(21) EP21172333.3
27.10.2016	(72) IYER, Ashish Shankar	(47) 30.08.2023
(22) 18.04.2016	LU, Feng	(22) 05.05.2021
(54) DETECTING DEVICE MOVEMENT	SANTHANAM, Arvind Vardarajan	(54) METHOD TO DYNAMICALLY
THROUGH ELECTRONIC	APPANI, Praveen Kumar	CHANGE THE MINIMUM CANDIDATE
FINGERPRINT ANALYSIS	GHOLMIEH, Ralph Akram	RESOURCES RATIO IN MODE 2

RESOURCE SELECTION PROCEDURE OF NR V2X	(54) MOBILITY FOR RADIO DEVICES USING BEAMFORMING	19.08.2021
(73) Samsung Electronics Co., Ltd.	(73) IPLA Holdings Inc.	(22) 07.01.2021
(72) FOUAD, Yaser Mohamed Mostafa Kamal	(72) IYER, Lakshmi	(54) UE CAPABILITY COORDINATION FOR NE-DC
BAE, Junghyun	ZHANG, Guodong	(73) Telefonaktiebolaget LM Ericsson (publ)
(31) 202117226957	XU, Tianyi	(72) ARAUJO, Lian
202063021073 P	CHEN, Wei	WAGER, Stefan
(32) 09.04.2021	MURRAY, Joseph M.	(31) 202062976005 P
06.05.2020	TSAI, Allan	(32) 13.02.2020
(33) United States of America	LI, Qing	(33) United States of America
United States of America	ADJAKPLE, Pascal M.	
(51) H04W 72/04	ZHANG, Qian	(51) H04W 72/12
H04L 1/00	(31) 201662421667 P	H04L 1/00
H04L 1/16	201662401078 P	H04L 7/04
H04L 1/18	201662364478 P	H04W 72/04
H04L 5/00	(32) 14.11.2016	H04L 5/00
(11) EP3944692	28.09.2016	(11) EP3490324
(21) EP19927323.6	20.07.2016	(21) EP17831135.3
(47) 30.08.2023	(33) United States of America	(47) 30.08.2023
(87) CN2019085214	United States of America	(87) JP2017026443
05.11.2020	United States of America	25.01.2018
(22) 30.04.2019	United States of America	(22) 21.07.2017
(54) RESOURCE DETERMINATION METHOD, APPARATUS, AND STORAGE MEDIUM	(51) H04W 72/0453	(54) TERMINAL DEVICE, BASE STATION DEVICE, COMMUNICATION METHOD, AND INTEGRATED CIRCUIT
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	H04L 5/00	(73) Sharp Kabushiki Kaisha
(72) LIN, Yanan	H04W 76/14	FG INNOVATION COMPANY LIMITED
WU, Zuomin	(11) EP3751936	(72) OUCHI, Wataru
(51) H04W 72/04	(21) EP19751157.9	LIU, Liqing
H04L 5/00	(47) 30.08.2023	YOSHIMURA, Tomoki
(11) EP3793285	(87) CN2019074116	AIBA, Tatsushi
(21) EP18927312.1	15.08.2019	SUZUKI, Shoichi
(47) 30.08.2023	(22) 31.01.2019	(31) 2016144084
(87) CN2018097001	(54) CARRIER SET DETERMINATION METHOD AND DEVICE, STORAGE MEDIUM AND ELECTRONIC DEVICE	(32) 22.07.2016
30.01.2020	(73) ZTE Corporation	(33) Japan
(22) 25.07.2018	(72) LU, Youxiong	(51) H04W 72/12
(54) CHANNEL MONITORING METHOD AND APPARATUS, TERMINAL DEVICE, AND NETWORK DEVICE	XING, Weimin	H04L 5/00
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(31) 201810151376	H04W 72/23
(72) XU, Weijie	(32) 08.02.2018	H04W 74/00
(51) H04W 72/04	(33) China	H04W 16/14
H04L 5/00	(51) H04W 72/0453	H04W 72/0446
H04L 27/00	H04W 72/23	(11) EP3908058
(11) EP3911066	(11) EP3627943	(21) EP19937191.5
(21) EP19909298.2	(21) EP18817569.9	(47) 30.08.2023
(47) 30.08.2023	(47) 30.08.2023	(87) CN2019095326
(87) CN2019071184	(87) CN2018091351	14.01.2021
16.07.2020	20.12.2018	(22) 09.07.2019
(22) 10.01.2019	(22) 14.06.2018	(54) CONTROL INFORMATION TRANSMISSION METHOD, TERMINAL DEVICE AND NETWORK DEVICE
(54) METHODS AND DEVICES FOR CONFIGURING, SENDING AND RECEIVING DISCOVERY REFERENCE SIGNAL (DRS)	(54) CONTROL INFORMATION TRANSMISSION METHOD AND DEVICE	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(73) Beijing Xiaomi Mobile Software Co., Ltd.	(73) Huawei Technologies Co., Ltd.	(72) WU, Zuomin
(72) LI, Mingju	(72) TANG, Hao	(51) H04W 72/12
(51) H04W 72/044	DOU, Shengyue	H04W 76/34
H04B 7/06	WANG, Ting	H04W 12/06
H04B 7/08	LI, Yuanjie	H04W 88/06
H04W 24/08	(31) 201710452223	H04W 84/12
H04W 48/20	(32) 15.06.2017	(11) EP4002780
H04W 16/28	(33) China	(21) EP20855495.6
(11) EP3823391	(51) H04W 72/0453	(47) 30.08.2023
(21) EP20212081.2	H04W 76/15	(87) CN2020104089
(47) 30.08.2023	H04W 92/20	25.02.2021
(22) 20.07.2017	H04W 76/16	(22) 24.07.2020
	H04W 72/27	(54) WIRELESS HIGH-FIDELITY WI-FI CONNECTION CONTROL METHOD AND RELATED PRODUCT
	H04W 72/51	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
	(11) EP4104587	
	(21) EP21701030.5	
	(47) 30.08.2023	
	(87) SE2021050005	

(72) HUANG, Yuan	(22) 27.03.2017	14.05.2015
(31) 201910759326	(54) ANTENNA PORT INDICATION METHOD AND APPARATUS	(22) 06.11.2014
(32) 16.08.2019	(73) Huawei Technologies Co., Ltd.	(54) METHODS AND DEVICES FOR TRANSMITTING AND RECEIVING DATA
(33) China	(72) WU, Ning	(73) Datang Mobile Communications Equipment Co., Ltd.
(51) H04W 72/20	LI, Zhongfeng	(72) ZHAO, Rui
H04L 5/00	CAO, Yongzhao	CHEN, Wenhong
H04L 27/26	(31) 201610179119	GAO, Qiubin
(11) EP3809776	(32) 25.03.2016	PENG, Ying
(21) EP19833910.3	(33) China	(31) 201310553612
(47) 30.08.2023	(51) H04W 72/23	(32) 08.11.2013
(87) CN2019095715	H04L 5/00	(33) China
16.01.2020	H04W 72/1268	(51) H04W 72/566
(22) 12.07.2019	(11) EP3566543	H04W 72/0446
(54) PDSCH TIME DOMAIN RESOURCE ALLOCATION METHOD, TERMINAL AND COMPUTER READABLE STORAGE MEDIUM	(21) EP17889970.4	H04W 72/23
(73) Vivo Mobile Communication Co., Ltd.	(47) 30.08.2023	(11) EP3661307
(72) Ji, Zichao	(87) CN2017070469	(21) EP19207985.3
(31) 201810771945	12.07.2018	(47) 30.08.2023
(32) 13.07.2018	(22) 06.01.2017	(2) 08.11.2019
(33) China	(54) UPLINK TRANSMISSION BLANKING	(54) TRAFFIC DEPRIORITIZATION BY USING DYNAMICALLY INDICATED INVALID SUBFRAMES
(51) H04W 72/20	(73) Motorola Mobility LLC	(73) T-Mobile USA, Inc.
H04W 52/02	(72) YAN, Zhi	(72) WANG, Jun
H04W 72/21	YU, Xiaodong	(31) 201816206889
H04L 1/16	LI, Hongchao	(32) 30.11.2018
(11) EP3148107	LEI, Haipeng	(33) United States of America
(21) EP16199090.8	(51) H04W 72/23	(51) H04W 74/00
(47) 30.08.2023	H04W 72/12	H04L 27/26
(22) 06.04.2005	(11) EP3684122	(11) EP3565363
(54) METHOD AND APPARATUS FOR SELECTIVELY ENABLING RECEPTION OF DOWNLINK SIGNALING CHANNELS	(21) EP18853523.1	(21) EP19183141.1
(73) InterDigital Technology Corporation	(47) 30.08.2023	(47) 30.08.2023
(72) Dick, Stephen G.	(87) CN2018097750	(22) 27.09.2016
Terry, Stephen	14.03.2019	(54) RANDOM ACCESS PREAMBLE FOR MINIMIZING PA BACKOFF
Zhang, Guodong	(22) 30.07.2018	(73) Telefonaktiebolaget LM Ericsson (publ)
(31) 566620 P	(54) A METHOD FOR DETERMINING AND CONFIGURING A RESOURCE USED FOR TRANSMITTING DOWNLINK DATA, TERMINAL AND BASE STATION	(72) Hui, Dennis
(32) 29.04.2004	(73) Datang Mobile Communications Equipment Co., Ltd.	LIN, Xingqin
(33) United States of America	(72) CHENG, Fang-Chen	SUNDBERG, Mårten
(51) H04W 72/21	TONY, Ekpenyong	JOHANSSON, Niklas
H04L 1/1607	GAO, Xuejuan	SUI, Yutao
(11) EP3298843	WANG, Lei	GRÖVLEN, Asbjörn
(21) EP15892792.1	(31) 201710814233	ADHIKARY, Ansuman
(47) 30.08.2023	(32) 11.09.2017	WANG, Yi-Pin Eric
(87) US2015064964	(33) China	(31) 201562233822 P
24.11.2016	(51) H04W 72/23	(32) 28.09.2015
(22) 10.12.2015	H04W 72/12	(33) United States of America
(54) NON-CONTENTION BASED LOW LATENCY SCHEDULING REQUEST TRANSMISSION	H04W 72/04	(51) H04W 74/00
(73) Apple Inc.	H04W 72/0446	H04W 74/08
(72) CHANG, Wenting	(11) EP3930405	H04W 76/18
ZHANG, Yushu	(21) EP21185108.4	(11) EP4085725
LI, Qinghua	(47) 30.08.2023	(21) EP20932984.6
XIONG, Gang	(22) 03.06.2011	(47) 30.08.2023
ZHU, Yuan	(54) SCHEDULING OF DOWNLINK DATA RESOURCES	(87) CN2020087629
(31) PCT/CN2015/079492	(73) Beijing Xiaomi Mobile Software Co., Ltd.	04.11.2021
(32) 21.05.2015	(72) SKOV, Peter	(22) 28.04.2020
(33) World Intellectual Property Office (WIPO)	LIN, Jiezhen	(54) TRANSMITTING REPORTS OF RANDOM ACCESS PROCEDURE
(51) H04W 72/23	WU, Chunli	(73) Nokia Technologies Oy
H04B 7/06	LI, Zhang	(72) PANTELIDOU, Anna
(11) EP3435554	(51) H04W 72/25	TURTINEN, Samuli
(21) EP17769493.2	H04W 8/00	WU, Chunli
(47) 30.08.2023	H04W 72/02	(51) H04W 74/08
(87) CN2017078311	(11) EP3068180	(11) EP3322249
28.09.2017	(21) EP14860298.0	(21) EP16820730.6
	(47) 30.08.2023	(47) 30.08.2023
	(87) CN2014090491	

<p>(87) CN2016085567 12.01.2017 (22) 13.06.2016 (54) DATA TRANSMISSION METHOD, DEVICE, AND SYSTEM (73) Datang Mobile Communications Equipment Co., Ltd. (72) LIU, Jiamin (31) 201510395410 (32) 07.07.2015 (33) China <hr/>(51) H04W 74/08 (11) EP3531786 (21) EP17865211.1 (47) 30.08.2023 (87) CN2017107669 03.05.2018 (22) 25.10.2017 (54) DATA TRANSMISSION METHOD AND APPARATUS (73) Huawei Technologies Co., Ltd. (72) YANG, Mao LI, Bo LI, Yunbo (31) 201610951072 (32) 27.10.2016 (33) China <hr/>(51) H04W 74/08 (11) EP4042815 (21) EP19795411.8 (47) 30.08.2023 (87) US2019055810 15.04.2021 (22) 11.10.2019 (54) DETECTING NEW TRANSMISSION OPPORTUNITIES (73) Nokia Technologies Oy (72) KASSLIN, Mika MARIN, Janne ALANEN, Olli RANTALA, Enrico Henrik KOLMONEN, Veli-Matti <hr/>(51) H04W 74/08 H04W 12/06 H04W 4/02 H04W 4/021 (11) EP3318103 (21) EP15910384.5 (47) 30.08.2023 (87) US2015064801 15.06.2017 (22) 09.12.2015 (54) DATA TRANSMISSIONS WITHOUT CONNECTIONS (73) Hewlett-Packard Development Company, L.P. (72) LAGNADO, Isaac MENG, Danny <hr/>(51) H04W 74/08 H04W 72/12 (11) EP3445125 (21) EP17795563.0 (47) 30.08.2023 (87) CN2017083849 16.11.2017 (22) 11.05.2017 (54) UPLINK DATA TRANSMISSION METHOD AND DEVICE</p>	<p>(73) Datang Mobile Communications Equipment Co., Ltd. (72) QUAN, Haiyang CHEN, Li (31) 201610317806 (32) 12.05.2016 (33) China <hr/>(51) H04W 74/08 H04W 76/28 H04W 16/14 H04L 5/00 (11) EP3668252 (21) EP20155936.6 (47) 30.08.2023 (22) 13.07.2016 (54) METHOD AND APPARATUS FOR ADAPTIVE CONTROL OF CONTENTION WINDOW IN LAA (73) Samsung Electronics Co., Ltd. (72) Novlan, Thomas David Li, Yingzhe Si, Hongbo Papasakellariou, Aris Ng, Boon Loong (31) 201615207291 201662342322 P 201662291754 P 201562238368 P 201562238342 P 201562216694 P 201562204811 P 201562199368 P 201562193333 P (32) 11.07.2016 27.05.2016 05.02.2016 07.10.2015 07.10.2015 10.09.2015 13.08.2015 31.07.2015 16.07.2015 (33) United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America <hr/>(51) H04W 76/10 G06F 8/61 G06F 9/445 G06F 11/14 (11) EP3496505 (21) EP17850106.0 (47) 30.08.2023 (87) CN2017092869 22.03.2018 (22) 13.07.2017 (54) DATA MIGRATION METHOD AND RELATED DEVICES (73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. (72) ZHANG, Hailong (31) 201610826549 (32) 14.09.2016</p>	<p>(33) China <hr/>(51) H04W 76/12 H04W 76/10 H04W 92/24 H04W 88/14 (11) EP3735029 (21) EP18893745.2 (47) 30.08.2023 (87) CN2018119418 04.07.2019 (22) 05.12.2018 (54) METHODS AND DEVICES FOR ESTABLISHING CONTROL PLANE SESSION (73) Datang Mobile Communications Equipment Co., Ltd. (72) DENG, Qiang TANG, Tingfang (31) 201711421335 (32) 25.12.2017 (33) China <hr/>(51) H04W 76/12 H04W 76/15 H04W 48/00 (11) EP3569033 (21) EP17703371.9 (47) 30.08.2023 (87) EP2017052124 09.08.2018 (22) 01.02.2017 (54) SESSION TYPE MANAGER ENTITY, CONTROL PLANE FUNCTION ENTITY, METHOD AND COMPUTER PROGRAM FOR SESSION MANAGEMENT IN NEXTGEN MOBILE CORE NETWORKS (73) Huawei Technologies Co., Ltd. (72) AN, Xueli MARQUEZAN, Clarissa <hr/>(51) H04W 76/14 H04W 8/00 H04W 88/04 H04W 40/12 H04W 48/12 (11) EP3295759 (21) EP16718069.4 (47) 30.08.2023 (87) US2016025686 17.11.2016 (22) 01.04.2016 (54) METHOD FOR LINK QUALITY BASED RELAY SELECTION, APPARATUS AND COMPUTER-READABLE MEDIUM (73) Qualcomm Incorporated (72) TAVILDAR, Saurabha Rangrao BAGHEL, Sudhir Kumar GULATI, Kapil PATIL, Shailesh (31) 201615086814 201562161874 P (32) 31.03.2016 14.05.2015 (33) United States of America United States of America <hr/>(51) H04W 76/14 H04W 88/04 H04W 28/02 H04W 92/18 (11) EP3579642</p>
---	---	--

(21) EP18748677.4	(73) Nokia Technologies Oy	Lee, Sangho
(47) 30.08.2023	(72) HARRIS, John	Yi, Kyuhwan
(87) CN2018075326	(51) H04W 76/27	Lee, Soomin
09.08.2018	H04W 48/18	(31) 20190086664
(22) 05.02.2018	H04W 48/16	(32) 17.07.2019
(54) COMMUNICATION METHODS FOR	H04W 52/02	(33) Korea (Republic)
DEVICE-TO-DEVICE SYSTEM	H04W 36/00	(51) H04W 88/04
(73) ZTE Corporation	H04W 36/08	H04L 5/00
(72) CHEN, Yuqin	(11) EP3677090	H04L 5/14
(31) 201710063491	(21) EP19758271.1	(11) EP3989660
(32) 03.02.2017	(47) 30.08.2023	(21) EP20837266.4
(33) China	(87) KR2019002241	(47) 30.08.2023
(51) H04W 76/15	29.08.2019	(87) KR2020008959
H04W 88/08	(22) 22.02.2019	14.01.2021
(11) EP3720237	(54) METHOD AND APPARATUS FOR	(22) 08.07.2020
(21) EP19216063.8	PERFORMING COMMUNICATION IN	(54) METHOD FOR DETERMINING LINK
(47) 30.08.2023	MOBILE COMMUNICATION SYSTEM	AVAILABILITY FOR IAB NODE, AND
(22) 29.01.2014	(73) Samsung Electronics Co., Ltd.	NODE USING SAME
(54) TRANSMISSION OF CONFIGURATION	(72) KIM, Soenghun	(73) LG Electronics Inc.
MESSAGES	KIM, Sangbum	(72) PARK, Haewook
(73) Huawei Technologies Co., Ltd.	(31) 20180022235	YOON, Sukhyon
(72) BI, Hao	(32) 23.02.2018	LEE, Gyeongcheol
LIN, Bo	(33) Korea (Republic)	KO, Hyunsoo
ZHANG, Liangliang	(51) H04W 76/28	YOU, Hyangsun
(51) H04W 76/19	H04W 76/30	(31) 20200057928
H04W 36/00	H04W 76/38	20200043010
H04W 88/02	(11) EP3883334	20190147006
H04W 88/08	(21) EP21168874.2	20190128988
(11) EP3389330	(47) 30.08.2023	20190082323
(21) EP16895853.6	(22) 13.08.2015	201962888390 P
(47) 30.08.2023	(54) ADJUSTMENT OF AN INACTIVITY	(32) 14.05.2020
(87) CN2016077721	TIMER	08.04.2020
05.10.2017	(73) Nokia Solutions and Networks Oy	15.11.2019
(22) 29.03.2016	(72) Yao, Yi Zhi	17.10.2019
(54) RADIO COMMUNICATION METHODS	Kollar, Martin	08.07.2019
(73) GUANGDONG OPPO MOBILE	(51) H04W 76/28	16.08.2019
TELECOMMUNICATIONS CORP., LTD.	H04W 88/04	(33) Korea (Republic)
(72) FENG, Bin	(11) EP3580995	Korea (Republic)
(51) H04W 76/19	(21) EP18700592.1	Korea (Republic)
H04W 36/14	(47) 30.08.2023	Korea (Republic)
H04W 80/06	(87) EP2018051159	Korea (Republic)
(11) EP3366061	16.08.2018	United States of America
(21) EP17741693.0	(22) 18.01.2018	(51) H04W 88/06
(47) 30.08.2023	(54) RELAY-MEDIATED PAGING	H04N 21/2343
(87) KR2017000707	(73) Sony Group Corporation	H04N 21/239
27.07.2017	(72) NORD, Lars	H04N 21/258
(22) 20.01.2017	(31) 17155026	H04N 21/2743
(54) APPARATUS AND METHOD FOR	(32) 07.02.2017	H04N 21/414
CONTROLLING A TCP TRANSMISSION	(33) European Patent Office (EPO)	H04N 21/422
(73) Samsung Electronics Co., Ltd.	(51) H04W 80/02	H04N 21/4223
(72) LEE, Hyun-Joo	H04W 28/08	H04N 21/437
XU, Jiangwei	H04W 76/16	H04N 21/45
KIM, Jin-Hyoung	H04L 69/14	H04N 21/2381
LEE, Jin-Ho	H04W 88/06	H04N 21/61
SINGH, Krishna Manohar	H04W 72/1268	H04N 21/643
(31) 20160006819	H04W 76/27	H04N 21/6437
(32) 20.01.2016	H04W 72/23	H04N 21/658
(33) Korea (Republic)	H04W 76/15	H04N 21/845
(51) H04W 76/27	(11) EP3768038	H04N 21/854
(11) EP4023013	(21) EP20184857.9	H04W 48/20
(21) EP19769626.3	(47) 30.08.2023	H04W 48/16
(47) 30.08.2023	(22) 09.07.2020	H04W 36/22
(87) US2019048878	(54) ELECTRONIC DEVICE FOR	H04W 48/08
04.03.2021	TRANSMITTING DATA THROUGH	H04W 8/00
(22) 29.08.2019	SPLIT BEARER AND METHOD OF	H04W 4/06
(54) PASSIVE MODE TRANSITION FOR	OPERATING ELECTRONIC DEVICE	H04W 48/10
USER EQUIPMENT BASED ON	(73) Samsung Electronics Co., Ltd.	H04W 84/12
CONTROL PLANE MONITORING	(72) Kim, Junsuk	H04W 74/00

(11) EP3148290	H01M 10/615	H05B 6/10
(21) EP16196854.0	H01M 10/625	(11) EP3806583
(47) 30.08.2023	G01R 19/165	(21) EP20210422.0
(22) 28.10.2013	G01R 19/00	(47) 30.08.2023
(54) MULTIMEDIA ADAPTATION BASED ON VIDEO ORIENTATION	B60L 58/27	(22) 07.07.2017
(73) Apple Inc.	B60L 50/51	(54) AEROSOL GENERATING DEVICE WITH INDUCTOR
(72) OYMAN, Ozgur	B60L 3/00	(73) Philip Morris Products S.A.
(31) 201361753914 P	G01R 31/36	(72) MIRONOV, Oleg
201261719241 P	(11) EP3998670	FURSA, Oleg
(32) 17.01.2013	(21) EP21852025.2	(31) 16186683
26.10.2012	(47) 30.08.2023	(32) 31.08.2016
(33) United States of America	(87) KR2021008398	(33) European Patent Office (EPO)
United States of America	24.02.2022	
(51) H04W 88/06	(22) 02.07.2021	(51) H05B 6/80
H04W 60/00	(54) BATTERY APPARATUS AND DIAGNOSING METHOD FOR HEATER	F27D 11/12
H04W 8/18	(73) LG Energy Solution, Ltd.	G01S 7/282
H04W 68/00	(72) KIM, Dong Hyeon	H01Q 15/16
(11) EP3972384	(31) 20200105145	H05B 6/66
(21) EP19931468.3	(32) 21.08.2020	H05B 6/74
(47) 30.08.2023	(33) Korea (Republic)	(11) EP2906021
(87) CN2019115428	(51) H05B 3/48	(21) EP13844105.0
03.12.2020	(11) EP4005342	(47) 30.08.2023
(22) 04.11.2019	(21) EP20764149.9	(87) JP2013005848
(54) SERVICE PRIORITIZATION WHEN PAGING A MULTI-SIM DEVICE	(47) 30.08.2023	10.04.2014
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(87) IB2020057058	(22) 01.10.2013
(72) XU, Yang	28.01.2021	(54) ELECTROMAGNETIC TRANSMISSION DEVICE AND ELECTROMAGNETIC TRANSMISSION SYSTEM
WANG, Shukun	(22) 27.07.2020	(73) Mitsubishi Electric Corporation
YANG, Ning	(54) ELECTRIC HEATER	(72) NISHIHARA, Jun
LIU, Jianhua	(73) I.R.C.A. S.p.a. Industria Resistenze Corazzate e Affini	HOMMA, Yukihito
(31) PCT/CN2019/088434	(72) BOLZAN, Ivano	SASAKI, Takuro
(32) 24.05.2019	ZANELLA, Stefano	(31) 2012221503
(33) World Intellectual Property Office (WIPO)	ZOPPAS, Federico	(32) 03.10.2012
(51) H04W 88/16	EUSEBIO, Mario	(33) Japan
G06F 3/12	(31) 201900012903	(51) H05B 33/10
H04L 12/28	(32) 25.07.2019	H10K 50/11
(11) EP3664388	(33) Italy	(11) EP3404734
(21) EP18841787.7	(51) H05B 6/10	(21) EP16885094.9
(47) 30.08.2023	H05B 6/06	(47) 30.08.2023
(87) JP2018025455	A24F 40/465	(87) JP2016087494
07.02.2019	A24F 40/57	20.07.2017
(22) 05.07.2018	(11) EP3964030	(22) 16.12.2016
(54) PRINTER, PROGRAM, AND COMMUNICATION SYSTEM	(21) EP20730147.4	(54) ORGANIC ELECTROLUMINESCENT ELEMENT, ELEMENT GROUP, METHOD FOR MANUFACTURING ORGANIC ELECTROLUMINESCENT ELEMENT, AND METHOD FOR CONTROLLING EMISSION WAVELENGTH OF ORGANIC ELECTROLUMINESCENT ELEMENT
(73) Sato Holdings Kabushiki Kaisha	(47) 30.08.2023	(73) Kyushu University National University Corporation
(72) SAITO, Koichi	(87) US2020030477	(72) FURUKAWA, Taro
(31) 2017147865	05.11.2020	ADACHI, Chihaya
(32) 31.07.2017	(22) 29.04.2020	NAKANOTANI, Hajime
(33) Japan	(54) SYSTEM, METHOD, AND COMPUTER PROGRAM PRODUCT FOR DETERMINING A CHARACTERISTIC OF A SUSCEPTOR	(31) 2016005044
(51) H04W 88/16	(73) Philip Morris Products, S.A.	(32) 14.01.2016
H04W 92/02	(72) NYSEN, Peter	(33) Japan
(11) EP4057770	BHARDWAJ, Neeraj, S.	(51) H05B 41/02
(21) EP21178919.3	BLELOCH, Andrew, L.	H05B 45/50
(47) 30.08.2023	GREENFIELD, Matthew	(11) EP3022990
(22) 11.06.2021	(31) 201962902064 P	(21) EP14752271.8
(54) GATEWAY APPARATUS FOR RADIO OVER IP NETWORK	201962889752 P	(47) 30.08.2023
(73) Unionplace Co., Ltd.	201962840002 P	(87) EP2014001921
(72) BANG, Seongcheol	(32) 18.09.2019	22.01.2015
SHIN, Young Kyu	21.08.2019	(22) 14.07.2014
(31) 20210032521	29.04.2019	(54) LIGHTING DEVICE
(32) 12.03.2021	(33) United States of America	
(33) Korea (Republic)	United States of America	
(51) H05B 1/02	United States of America	
H01M 10/63	(51) H05B 6/36	
H01M 10/6571	A24F 40/465	

(73) Eaton Protection Systems IP GmbH & Co. KG	(31) 201921179405 U	(54) ADD-ON DEVICE FOR A LIGHT
(72) SOMMER, Ludger	(32) 25.07.2019	(73) Zumtobel Lighting GmbH
BURMEISTER, Jens	(33) China	(72) BLOCK, Steffen
(31) 102013011821	(51) H05B 45/58	(31) 102018121830
(32) 15.07.2013	(11) EP3850911	(32) 07.09.2018
(33) Germany	(21) EP19762149.3	(33) Germany
(51) H05B 45/20	(47) 30.08.2023	(51) H05K 1/02
(11) EP3412961	(87) EP2019073325	(11) EP3231263
(21) EP17746780.0	19.03.2020	(21) EP15813189.6
(47) 30.08.2023	(22) 02.09.2019	(47) 30.08.2023
(87) CN2017071553	(54) LED LIGHTING DEVICE WITH FAULT	(87) US2015062874
10.08.2017	DETECTION, AND MOTOR VEHICLE	16.06.2016
(22) 18.01.2017	(73) HELLA GMBH & CO. KGAA	(22) 30.11.2015
(54) LIGHT SOURCE MODULE AND	(72) SEBASTIAN, Helmut	(54) AVOIDING REFLECTIONS IN PCB
ILLUMINATION DEVICE	(31) 102018122067	SIGNAL TRACE
(73) Opplé Lighting Co., Ltd.	(32) 11.09.2018	(73) Microsoft Technology Licensing, LLC
(72) ZHOU, Zhixian	(33) Germany	(72) CODD, Patrick Timothy
QIANG, Jie	(51) H05B 45/58	FULLAM, Scott Francis
(31) 201610079062	G01R 31/52	MEHTA, Agustya Ruchir
201620114061 U	H05B 45/375	(31) 201414565360
(32) 03.02.2016	H05B 45/50	(32) 09.12.2014
03.02.2016	(11) EP3011806	(33) United States of America
(33) China	(21) EP14814639.2	(51) H05K 1/11
China	(47) 30.08.2023	H05K 1/14
(51) H05B 45/20	(87) US2014042755	H05K 3/36
H05B 47/175	24.12.2014	H10K 50/805
(11) EP3861833	(22) 17.06.2014	H10K 102/00
(21) EP19778512.4	(54) LONG LIFE, FAIL SAFE TRAFFIC LIGHT	(11) EP3010061
(47) 30.08.2023	(73) Dialight Corporation	(21) EP14829978.7
(87) EP2019076133	(72) ZINGLER, Glenn J.	(47) 30.08.2023
09.04.2020	HEBBORN, Kevin A.	(87) KR2014006737
(22) 27.09.2019	(31) 201313920806	29.01.2015
(54) A METHOD AND A CONTROLLER FOR	(32) 18.06.2013	(22) 24.07.2014
CONFIGURING A REPLACEMENT	(33) United States of America	(54) FLEXIBLE PRINTED CIRCUIT BOARDS
LIGHTING DEVICE IN A LIGHTING	(51) H05B 47/115	STRUCTURE
SYSTEM	(11) EP3135080	(73) LG Display Co., Ltd.
(73) Signify Holding B.V.	(21) EP15719181.8	(72) PARK, Sung Soo
(72) MEKENKAMP, Gerhardus, Engbertus	(47) 30.08.2023	OH, Ducksu
(31) 18198861	(87) EP2015058659	KANG, Minsoo
(32) 05.10.2018	29.10.2015	(31) 20130087526
(33) European Patent Office (EPO)	(22) 22.04.2015	(32) 24.07.2013
(51) H05B 45/22	(54) ARRANGEMENT AND METHOD FOR	(33) Korea (Republic)
H05B 47/155	ILLUMINATING WORKING AREAS	(51) H05K 1/14
H05B 45/12	(73) Zumtobel Lighting GmbH	H01F 27/02
(11) EP2647262	(72) PETSCHULAT, Manfred	(11) EP3905859
(21) EP11844199.7	(31) 102014207632	(21) EP21165394.4
(47) 30.08.2023	(32) 23.04.2014	(47) 30.08.2023
(87) US2011062398	(33) Germany	(22) 26.03.2021
07.06.2012	(51) H05B 47/155	(54) THERMAL MANAGEMENT OF PLANAR
(22) 29.11.2011	(11) EP3308608	TRANSFORMER WINDINGS AND
(54) LIGHTING APPARATUS AND METHOD	(21) EP16735999.1	CORES
(73) Howard University	(47) 30.08.2023	(73) Hamilton Sundstrand Corporation
(72) KIM, Charles J.	(87) EP2016063225	(72) WOHLFARTH, Scott C.
(31) 959551	15.12.2016	NAYAK, Hebri Vijayendra
(32) 03.12.2010	(22) 09.06.2016	(31) 202063003493 P
(33) United States of America	(54) A VISUAL TRACKING SYSTEM AND	(32) 01.04.2020
(51) H05B 45/3725	METHOD	(33) United States of America
H05B 45/36	(73) Feeney, Liam	(51) H05K 1/14
(11) EP3771292	(72) Feeney, Liam	H05K 3/36
(21) EP20170399.8	(31) S20150171	H05K 1/11
(47) 30.08.2023	(32) 09.06.2015	H05K 1/18
(22) 20.04.2020	(33) Ireland	H05K 3/32
(54) LIGHTING APPARATUS	(51) H05B 47/19	(11) EP3010062
(73) Xiamen Eco Lighting Co., Ltd.	(11) EP3629678	(21) EP14830041.1
(72) YE, Hemu	(21) EP19184080.0	(47) 30.08.2023
JIANG, Hongkui	(47) 30.08.2023	(87) KR2014006736
LIU, Wei	(22) 03.07.2019	29.01.2015
		(22) 24.07.2014

(54) FLEXIBLE PRINTED CIRCUIT BOARD STRUCTURE	H05K 1/03 H01L 23/373 H01L 23/498	(21) EP20201464.3 (47) 30.08.2023 (22) 13.10.2020
(73) LG Display Co., Ltd.		(54) SLIDE RAIL ASSEMBLY
(72) KANG, Minsoo OH, Ducksu PARK, Sung Soo	(11) EP3648557 (21) EP18824890.0 (47) 30.08.2023	(73) King Slide Works Co., Ltd. King Slide Technology Co., Ltd.
(31) 20130087525	(87) JP2018019679	(72) CHEN, Ken-Ching
(32) 24.07.2013	03.01.2019	WANG, Chun-Chiang
(33) Korea (Republic)	(22) 22.05.2018	WENG, Tzu-Cheng
(51) H05K 1/18	(54) POWER MODULE SUBSTRATE AND POWER MODULE	YANG, Shun-Ho
B60Q 3/43	(73) Kyocera Corporation	(31) 109125369
B60Q 3/47	(72) KONISHI, Yoshitada	109122322
B60Q 3/74	(31) 2017126375	(32) 24.07.2020
H05K 1/02	(32) 28.06.2017	30.06.2020
H05K 3/12	(33) Japan	(33) Taiwan, Chinese Taipei
H05K 3/14	(51) H05K 5/00	Taiwan, Chinese Taipei
H05K 3/28	H05K 5/02	(51) H05K 7/14
(11) EP3547808	G06F 1/16	(11) EP3618592
(21) EP19175199.9	H01Q 1/24	(21) EP19186727.4
(47) 30.08.2023	H04M 1/02	(47) 30.08.2023
(22) 07.11.2016	H04B 1/3888	(22) 17.07.2019
(54) METHOD OF MANUFACTURING A LIGHTING PANEL	(11) EP3849289	(54) ELECTRONIC APPARATUS AND METHOD FOR PRODUCING ELECTRONIC APPARATUS
(73) The Boeing Company	(21) EP19883208.1	(73) Kabushiki Kaisha Yaskawa Denki
(72) HOUSE, Ashley DUCE, Jeff TURNER, Jason SCHALLA, James	(47) 30.08.2023 (87) KR2019015001 14.05.2020	(72) FUJIKI, Takashi (31) 2018162179
(31) 201514940241	(22) 06.11.2019	(32) 30.08.2018
(32) 13.11.2015	(54) ELECTRONIC DEVICE INCLUDING HOUSING HAVING PATTERN FORMED THEREON	(33) Japan
(33) United States of America	(73) Samsung Electronics Co., Ltd.	(51) H05K 7/14
(51) H05K 1/18	(72) MOON, Byungsoo	H05K 5/00
H05K 1/14	CHUN, Jihwan	(11) EP3018983
H05K 1/02	KIM, Jihyun	(21) EP15189305.4
F21V 5/04	YOON, Sungwhan	(47) 30.08.2023
H05K 3/46	NAM, Yunjin	(22) 12.10.2015
F21Y 115/10	YOO, Minwoo	(54) ELECTRONIC DEVICE
(11) EP3231265	HWANG, Changyoun	(73) Yokogawa Electric Corporation
(21) EP15819879.6	CHO, Sungho	(72) Owaki, Yasuhiro
(47) 30.08.2023	(31) 20190117744	Tsutsumi, Takahiro
(87) IB2015059555	20180135453	Shimamura, Kouichirou
16.06.2016	(32) 24.09.2019	(31) 2014225137
(22) 11.12.2015	06.11.2018	(32) 05.11.2014
(54) PRINTED CIRCUIT BOARD APERTURE BASED ILLUMINATION SYSTEM FOR PATTERN PROJECTION	(33) Korea (Republic) Korea (Republic)	(33) Japan
(73) Datalogic IP TECH S.r.l.	(51) H05K 5/02	(51) H05K 7/14
(72) BOTTAZZI, Davide CANINI, Federico GUAGLIUMI, Anna	H05K 5/03 (11) EP3771304 (21) EP18910367.4 (47) 30.08.2023	H05K 5/02 B60R 11/04 G01S 13/86 G01S 13/89 G01S 13/931 G01S 17/89 G01S 17/931
(31) 201414567766	(87) CN2018125509	(11) EP3809808
(32) 11.12.2014	26.09.2019	(21) EP19821766.3
(33) United States of America	(22) 29.12.2018	(47) 30.08.2023
(51) H05K 3/34	(54) ELECTRONIC CONTROL BOX STRUCTURE AND WALL-MOUNTED AIR CONDITIONER	(87) CN2019091206 26.12.2019
(11) EP2946642	(73) Ningbo Aux Electric Co., Ltd. Aux Air Conditioner Co., Ltd	(22) 14.06.2019
(21) EP14705713.7	(72) SHANG, Bin	(54) DEVICE OF INTELLIGENT SENSING SYSTEM
(47) 30.08.2023	ZHANG, Huazhong	(73) Navinfo Co., Ltd.
(87) EP2014051136	LIU, Wenliang	(72) SHI, Liangliang
24.07.2014	ZHANG, Kunpeng	ZHANG, Tengbo
(22) 21.01.2014	(31) 201820405720 U	HUANG, Wei yuan
(54) WELDED ASSEMBLY WITH THERMAL BRAKE	(32) 23.03.2018	(31) 201820961341 U
(73) Sagemcom Energy & Telecom SAS	(33) China	(32) 21.06.2018
(72) ROLLAND, Patrick	(51) H05K 7/14	(33) China
(31) 1350526	(11) EP3934394	(51) H05K 7/14
(32) 21.01.2013		H05K 7/20
(33) France		
(51) H05K 3/38		

(11) EP3643150	H04M 1/02	C08K 3/28
(21) EP18740909.9	C09K 5/14	C08K 3/22
(47) 30.08.2023	G06F 1/16	C08K 3/08
(87) IB2018054626	G06F 1/20	H01L 23/373
27.12.2018	H01L 23/427	H01L 23/552
(22) 22.06.2018	(11) EP3860324	(11) EP3817535
(54) ELECTRONIC POWER APPARATUS	(21) EP21163783.0	(21) EP20821711.7
FOR ELECTRIC OR HYBRID CARS	(47) 30.08.2023	(47) 30.08.2023
AND RELATED REALIZATION	(22) 14.02.2017	(87) JP2020006577
PROCESS	(54) ELECTRONIC DEVICE HAVING	17.12.2020
(73) Meta System S.p.A.	HEAT COLLECTION/DIFFUSION	(22) 19.02.2020
(72) SIMONAZZI, Giuseppe	STRUCTURE	(54) THERMALLY CONDUCTIVE
(31) 201700070324	(73) Samsung Electronics Co., Ltd.	ELECTROMAGNETIC-WAVE-
(32) 23.06.2017	(72) YE, Jaeheung	ABSORBING COMPOSITION AND
(33) Italy	LEE, Haejin	SHEET OF SAME
(51) H05K 7/14	KOO, Kyungha	(73) Fuji Polymer Industries Co., Ltd.
H05K 7/20	CHO, Chi-Hyun	(72) ITO, Shingo
(11) EP4009753	JANG, Se-Young	(31) 2019107705
(21) EP21202667.8	JUNG, Chungghyo	(32) 10.06.2019
(47) 30.08.2023	BANG, Jungje	(33) Japan
(22) 14.10.2021	(31) 20160144165	(51) H05K 13/04
(54) POWER MODULE AND POWER	20160019155	(11) EP3820265
CONVERSION DEVICE	(32) 01.11.2016	(21) EP20206281.6
(73) Delta Electronics (Shanghai) Co., Ltd.	18.02.2016	(47) 30.08.2023
(72) XIE, Yicong	(33) Korea (Republic)	(22) 06.11.2020
ZHOU, Wei	Korea (Republic)	(54) METHOD AND DEVICE FOR CUTTING
RONG, Jing	(51) H05K 7/20	A RADIAL ELECTRONIC COMPONENT
LAN, Lin	G01F 23/00	(73) Semo
ZHANG, Quanliang	G01F 23/80	(72) SOLIE, Jérémy
ZHANG, Weiqiang	(11) EP3768053	CLARMONT, Jean-Jacques
(31) 202011231927	(21) EP20186126.7	RIVAS, Fabien
(32) 06.11.2020	(47) 30.08.2023	(31) 1912556
(33) China	(22) 16.07.2020	(32) 08.11.2019
(51) H05K 7/20	(54) SYSTEMS AND METHODS FOR	(33) France
(11) EP4002974	LIQUID-VOLUME MEASUREMENT IN	(51) H10B 43/27
(21) EP22151379.9	IMMERSION-COOLED DEVICES	H10B 43/40
(47) 30.08.2023	(73) Schneider Electric IT Corporation	(11) EP3607584
(22) 13.01.2022	(72) BEAN, John H. Jr.	(21) EP18884481.5
(54) DEVICE FOR AIRFLOW MANAGEMENT	BASDEN, Cory D.	(47) 30.08.2023
AND COOLING IMPROVEMENT IN	(31) 201962875998 P	(87) CN2018077767
HYBRID-COOLED ELECTRONICS	(32) 19.07.2019	06.06.2019
(73) Baidu USA LLC	(33) United States of America	(22) 01.03.2018
(72) GAO, Tianyi	(51) H05K 9/00	(54) SOURCE STRUCTURE OF THREE-
(31) 202117148063	(11) EP3791702	DIMENSIONAL MEMORY DEVICE AND
(32) 13.01.2021	(21) EP19724031.0	METHOD FOR FORMING THE SAME
(33) United States of America	(47) 30.08.2023	(73) Yangtze Memory Technologies Co., Ltd.
(51) H05K 7/20	(87) US2019030378	(72) HU, Yushi
(11) EP4018793	14.11.2019	LU, Zhenyu
(21) EP20753487.6	(22) 02.05.2019	YANG, Simon Shi-Ning
(47) 30.08.2023	(54) SUPPLY STATION WITH DOOR SHIELD	YANG, Steve Weiyi
(87) US2020037338	(73) CareFusion 303, Inc.	TAO, Qian
04.03.2021	(72) FERNER, Edward Stephen	CHEN, Jun
(22) 12.06.2020	JOYCE, Michael Dugan	(31) 201711236924
(54) MITIGATING VAPOR LOSS IN A	ARROYO, Noe	(32) 30.11.2017
TWO-PHASE IMMERSION COOLING	PEDERSEN, Chris	(33) China
SYSTEM	RAHILLY, Michael	(51) H10K 50/813
(73) Microsoft Technology Licensing, LLC	BURGESS, Brendan John	H10K 50/814
(72) MANOUSAKIS, Ioannis	RILEY, Scott	(11) EP3076755
PETERSON, Eric Clarence	(31) 201815977758	(21) EP14866026.9
ALISSA, Husam Atallah	(32) 11.05.2018	(47) 30.08.2023
KEEHN, Nicholas Andrew	(33) United States of America	(87) JP2014056015
SAUNDERS, Winston Allen	(51) H05K 9/00	04.06.2015
(31) 201916549244	H05K 7/20	(22) 07.03.2014
(32) 23.08.2019	C08J 5/18	(54) LIGHT EMITTING DEVICE
(33) United States of America	C08K 3/01	(73) Pioneer Corporation
(51) H05K 7/20	C08L 101/00	(72) SATO, Yosuke
F28D 15/02	C08L 83/04	MURAKATA, Masaki
H05K 9/00	C08K 3/38	AOKI, Toshihiko

(31) PCT/JP2013/082107	(72) YANG, Wenbin	(32) 24.09.2019
(32) 28.11.2013	SHANG, Yuedong	(33) Germany
(33) World Intellectual Property Office (WIPO)	CHANG, Qing	
(51) H10K 59/00	XIN, Yanxia	(51) H10K 85/60
G06F 3/041	(31) 201510303114	H10K 50/115
G02F 1/1333	(32) 05.06.2015	H10K 50/15
G02F 1/1343	(33) China	(11) EP3503236
(11) EP3640774	(51) H10K 85/60	(21) EP18208266.9
(21) EP18755119.7	C07F 9/655	(47) 30.08.2023
(47) 30.08.2023	(11) EP3259786	(22) 26.11.2018
(87) CN2018071288	(21) EP16705173.9	(54) ELECTROLUMINESCENT DEVICE, AND DISPLAY DEVICE COMPRISING THE SAME
20.12.2018	(47) 30.08.2023	(73) Samsung Electronics Co., Ltd.
(22) 04.01.2018	(87) EP2016053454	(72) LEE, Sang Jin
(54) PANEL MANUFACTURING METHOD, PANEL AND DISPLAY DEVICE	25.08.2016	CHUNG, Dae Young
(73) Hefei Xinsheng Optoelectronics Technology Co., Ltd.	(22) 18.02.2016	JANG, Eun Joo
BOE Technology Group Co., Ltd.	(54) SEMICONDUCTING MATERIAL AND NAPHTOFURANE MATRIX COMPOUND FOR IT	KIM, Tae Hyung
(72) CHEN, Jun	(73) Novaled GmbH	HAN, Moon Gyu
CHEN, Cui	(72) STEUDEL, Annette	(31) 20180145252
LI, Yang	FREY, Julien	20170175348
XU, Zhanqi	(31) 15162788	(32) 22.11.2018
ZHANG, Ming	15155603	19.12.2017
(31) 201710457046	(32) 08.04.2015	(33) Korea (Republic)
(32) 16.06.2017	18.02.2015	Korea (Republic)
(33) China	(33) European Patent Office (EPO)	
(51) H10K 59/124	European Patent Office (EPO)	(51) H10K 85/60
H10K 59/121		H10K 50/19
H10K 50/822	(51) H10K 85/60	H10K 101/40
H10K 50/813	H01L 31/0256	(11) EP3151301
H10K 77/10	(11) EP3648187	(21) EP16180125.3
(11) EP3537478	(21) EP18825449.4	(47) 30.08.2023
(21) EP17835578.0	(47) 30.08.2023	(22) 19.07.2016
(47) 30.08.2023	(87) KR2018007412	(54) ORGANIC LIGHT EMITTING DEVICE
(87) CN2017091797	03.01.2019	(73) LG Display Co., Ltd.
11.05.2018	(22) 29.06.2018	(72) LEE, JaeMan
(22) 05.07.2017	(54) PEROVSKITE SOLAR CELL	HAN, Yoondeok
(54) ORGANIC LIGHT-EMITTING DIODE DISPLAY PANEL AND FABRICATION METHOD THEREFOR	(73) Korea Research Institute of Chemical Technology	CHOI, Heedong
(73) BOE Technology Group Co., Ltd.	(72) LEE, Jaemin	AHN, So Yeon
Chengdu BOE Optoelectronics Technology Co., Ltd.	SEO, Jang Won	YOO, Tae Sun
(72) PARK, Beum Ku	NA, Hye Jin	HAN, Mi-Young
FAN, Zhenrui	YANG, Tae Youl	PARK, JungSoo
YUAN, Hongguang	JEON, Nam Joong	(31) 20150137554
ZHANG, Wenxuan	(31) 20170083778	(32) 30.09.2015
LEE, Seungmin	(32) 30.06.2017	(33) Korea (Republic)
XIONG, Li	(33) Korea (Republic)	
LU, Zhong	(51) H10K 85/60	(51) H10N 10/01
(31) 201610945114	H10K 30/30	B82Y 30/00
(32) 02.11.2016	(11) EP4035215	H10N 10/851
(33) China	(21) EP20792522.3	(11) EP3627573
(51) H10K 59/131	(47) 30.08.2023	(21) EP18803228.8
G09G 3/32	(87) DE2020100826	(47) 30.08.2023
H10K 59/35	01.04.2021	(87) JP2018019161
(11) EP3306599	(22) 24.09.2020	22.11.2018
(21) EP15882279.1	(54) COMPOUNDS WITH A FUOPYRROLE OR A THIENOPYRROLE GROUP, OPTOELECTRONIC COMPONENT WITH SAID TYPE OF COMPOUND, AND USE OF SAID TYPE OF COMPOUND IN OPTOELECTRONIC COMPONENTS	(22) 17.05.2018
(47) 30.08.2023	(73) Heliatek GmbH	(54) METHOD OF PRODUCING SEMICONDUCTOR SINTERED BODY, ELECTRICAL/ELECTRONIC MEMBER AND SEMICONDUCTOR SINTERED BODY
(87) CN2015090553	(72) MATTERSTEIG, Gunter	(73) Nitto Denko Corporation
08.12.2016	GERDES, Olga	(72) SADAYORI, Naoki
(22) 24.09.2015	RAMIREZ, Ivan	(31) 2017199057
(54) ARRAY SUBSTRATE AND MANUFACTURING METHOD THEREFOR, AND DISPLAY DEVICE	ANDERNACH, Rolf	2017100108
(73) BOE Technology Group Co., Ltd.	MIRLOUP, Antoine	2017100107
Chengdu BOE Optoelectronics Technology Co., Ltd.	(31) 102019125715	(32) 13.10.2017
		19.05.2017
		19.05.2017
		(33) Japan
		Japan
		Japan

- (51) H10N 30/853
H10N 30/045
H10N 30/87
H10N 30/50
H10N 30/20
B81B 3/00
(11) EP3766109
(21) EP19711863.1
(47) 30.08.2023
(87) EP2019056275
19.09.2019
(22) 13.03.2019
(54) FERROELECTRIC MATERIAL, MEMS
COMPONENT COMPRISING THIS
MATERIAL, MEMS DEVICE, AND
PRODUCTION METHOD
(73) Fraunhofer-Gesellschaft zur Förderung
der angewandten Forschung e.V.
Christian-Albrechts-Universität zu Kiel
(72) FICHTNER, Simon
LOFINK, Fabian
KADEN, Dirk
WAGNER, Bernhard
(31) 102018203812
(32) 13.03.2018
(33) Germany
-
- (51) H10N 50/80
H10N 59/00
H10B 61/00
G06K 7/08
G01R 33/00
G01R 33/07
G01R 33/09
(11) EP3675172
(21) EP19210976.7
(47) 30.08.2023
(22) 22.11.2019
(54) MAGNETIC READER SENSOR DEVICE
FOR READING MAGNETIC STRIPES
AND METHOD FOR MANUFACTURING
THE SENSOR DEVICE
(73) Crocus Technology S.A.
(72) Childress, Jeffrey
Alaoui, Ali
Ates Gurcan, Hakan
(31) 18315053
(32) 24.12.2018
(33) European Patent Office (EPO)
-
- (51) H10N 60/10
H10N 60/01
G06N 10/00
(11) EP4032132
(21) EP20743414.3
(47) 30.08.2023
(87) US2020039737
25.03.2021
(22) 26.06.2020
(54) DURABLE HYBRID
HETEROSTRUCTURES AND
METHODS FOR MANUFACTURING
THE SAME
(73) Microsoft Technology Licensing, LLC
(72) MANFRA, Michael James
THOMAS, Candice Fanny
(31) 201916577539
(32) 20.09.2019
(33) United States of America
-
- (51) H10N 70/00
(11) EP3984073
(21) EP20731867.6
(47) 30.08.2023
(87) EP2020066242
17.12.2020
(22) 11.06.2020
(54) METHOD FOR MANUFACTURING AN
OXRAM RESISTIVE MEMORY CELL
(73) Wee-bit Nano Ltd
Commissariat à l'Energie Atomique et
aux Energies Alternatives
(72) NODIN, Jean-François
PICCOLBONI, Guiseppe
MOLAS, Gabriel
REGEV, Amir
CASTELLANI, Gaël
(31) 1906261
(32) 12.06.2019
(33) France
-

EP3

Voor Nederland verleende Europese octrooien waarvoor een vertaling is ingediend conform artikel 52 (1, 6) van de Octrooiwet 1995.

Contains data concerning European patents granted for The Netherlands in which a translation was filed confirm Article 52 par. 1 or 6 of the Patents Act 1995.

(51) A01D 90/14	201962858338 P	(47) 12.07.2023
(11) EP3834602	(32) 28.06.2019	(51) A24C 5/46
(21) EP21153238.7	07.06.2019	B31C 5/00
(22) 21.10.2019	(33) Netherlands	(11) EP3784066
(54) AGRICULTURAL HARVESTING	United States of America	(21) EP19726750.3
MACHINE	(47) 21.06.2023	(22) 23.04.2019
(73) PÖTTINGER Landtechnik GmbH	(51) A23L 27/60	(54) MULTILAYER TUBE OF THE TOBACCO
(72) Hehenberger, Robert	A23L 29/212	INDUSTRY AND METHOD FOR
Prechtl, Wolfgang	A23L 33/115	MAKING THE MULTILAYER TUBE
Würzl, Andreas	A23L 33/185	(73) G.D S.p.A.
Weissenböck, Thomas	(11) EP4040987	(72) STIVANI, Eros
Pfeiffer, Stefan	(21) EP20775298.1	GAMBERINI, Giuliano
Harrer, Martin	(22) 22.09.2020	FEDERICI, Luca
(74) dr. R.C. van Duijvenbode c.s.	(54) DRESSING COMPOSITION	EUSEPI, Ivan
(31) 102018129598	COMPRISING PLANT PROTEIN	ESPOSTI, Marco
(32) 23.11.2018	(73) Unilever IP Holdings B.V.	(74) dr. R.C. van Duijvenbode c.s.
(33) Germany	(72) VELIKOV, Krassimir Petkov	(31) 201800004715
(47) 26.07.2023	HUSKEN, Henk	(32) 24.04.2018
(51) A01F 15/08	ARNAUDOV, Luben Nikolaev	(33) Italy
(11) EP3981245	(74) ir. T.G.P. Reijns	(47) 05.07.2023
(21) EP21198191.5	(31) 19202807	(51) A24D 3/02
(22) 22.09.2021	(32) 11.10.2019	(11) EP3729975
(54) AGRICULTURAL STALK PRESS AND	(33) European Patent Office (EPO)	(21) EP20169922.0
METHOD FOR DEPOSITING BALES	(47) 02.08.2023	(22) 16.04.2020
MADE OF PRESSED STALK MATERIAL	(51) A24B 15/14	(54) DEVICE AND METHOD FOR
(73) Rubenbauer, Georg	A24B 15/16	PROCESSING A CONTINUOUS
(72) Rubenbauer, Georg	A24F 47/00	SEMI-FINISHED PRODUCT OF THE
(74) ir. W.J.J.M. Kempes	(11) EP3975758	TOBACCO INDUSTRY
(31) 102020126480	(21) EP20727625.4	(73) G.D S.p.A.
(32) 09.10.2020	(22) 20.05.2020	(72) BERTINELLI, Gianluca
(33) Germany	(54) NOVEL AEROSOL-GENERATING	FEDERICI, Luca
(47) 07.06.2023	SUBSTRATE	GAMBERINI, Giuliano
(51) A01G 13/02	(73) Philip Morris Products S.A.	(74) dr. R.C. van Duijvenbode c.s.
(11) EP3900521	(72) CAMPANONI, Prisca	(31) 201900005856
(21) EP20171251.0	ARNDT, Daniel	(32) 16.04.2019
(22) 24.04.2020	SCHALLER, Jean-Pierre	(33) Italy
(54) PROTECTIVE DEVICE FOR TERMINAL	LANG, Gerhard	(47) 05.07.2023
SHOOTS OF TREES	KNORR, Arno	(51) A24F 15/01
(73) Latschbacher GmbH	(74) dr. W.A.H.M. Van Borm	A24F 40/95
(72) Latschbacher, Klaus	(31) 19176618	A24F 40/40
(74) ir. H.A. Witmans c.s.	(32) 24.05.2019	(11) EP3618647
(47) 10.05.2023	(33) European Patent Office (EPO)	(21) EP18723449.7
(51) A01K 67/033	(47) 05.07.2023	(22) 02.05.2018
B65G 51/01	(51) A24B 15/14	(54) AEROSOL-GENERATING SYSTEM
(11) EP3979793	A24B 15/30	WITH CASE
(21) EP20731247.1	(11) EP3863433	(73) Philip Morris Products S.A.
(22) 03.06.2020	(21) EP19783039.1	(72) ANTONOPOULOS, Roland
(54) CONNECTOR ASSEMBLY, SYSTEM	(22) 08.10.2019	FRINGELI, Jean-Luc
AND METHOD FOR CONVERTING A	(54) CLOVE-CONTAINING AEROSOL-	(74) dr. W.A.H.M. Van Borm
BATCH WISE SUPPLY OF INSECTS TO	GENERATING SUBSTRATE	(31) 17169141
A CONTINUOUS SUPPLY OF INSECTS	(73) Philip Morris Products S.A.	(32) 02.05.2017
(73) Protix B.V.	(72) VUARNOZ-BIZE, Aline	(33) European Patent Office (EPO)
(72) SCHMITT, Eric Holland	LESUFFLEUR, Céline	(47) 05.07.2023
DE WOLF, Lucius Petrus Cornelis	LANG, Gerhard	(51) A24F 23/02
HARMS, Stijn	DEFORÉL, Corinne	(11) EP3435791
AARTS, Kees Wilhelmus Petrus	(74) dr. W.A.H.M. Van Borm	(21) EP17714737.8
(74) dr. R.C. van Duijvenbode c.s.	(31) 18199205	(22) 30.03.2017
(31) 2023406	(32) 08.10.2018	(54) POUCH WITH COVER FLAP AND
	(33) European Patent Office (EPO)	ADHERED EXTENSION FLAP

(73) Philip Morris Products S.A.	(72) Xiong, Xingjian	(72) Hayn, Henning
(72) SINGH, Digvijay	(74) ir. W.J.J.M. Kempes	Mosebach, Andrej
DE LAVALLAZ, Céline	(31) 201811526511	(74) ir. F.A. Geurts c.s.
(74) dr. W.A.H.M. Van Borm	(32) 13.12.2018	(31) 102021102654
(31) 16163280	(33) China	(32) 04.02.2021
(32) 31.03.2016	(47) 10.05.2023	(33) Germany
(33) European Patent Office (EPO)	(51) A47K 5/12	(47) 14.06.2023
(47) 12.07.2023	(11) EP3866655	(51) A61B 1/00
(51) A24F 40/46	(21) EP19791188.6	A61B 1/12
A24F 40/20	(22) 15.10.2019	B08B 9/032
(11) EP3941235	(54) FLUID DISPENSER	(11) EP3585240
(21) EP20715736.3	(73) ILLE Papier-Service GmbH	(21) EP18708052.8
(22) 13.03.2020	(72) GOTTSCHALK, Eric	(22) 06.02.2018
(54) SMOKING SUBSTITUTE SYSTEM	BILETSKYI, Roman	(54) PREPARATION DEVICE AND METHOD
(73) NERUDIA LIMITED	(74) ir. J.C. Volmer c.s.	FOR OPERATING A PREPARATION
(72) FERRIE, Kate	(31) 102018125905	DEVICE FOR CLEANING AND/
BENYEZZAR, Med	(32) 18.10.2018	OR DISINFECTING A MEDICAL
SHENTON, Ross	(33) Germany	INSTRUMENT
(74) dr. R.C. van Duijvenbode c.s.	(47) 17.05.2023	(73) Olympus Winter & Ibe GmbH
(31) 19020199	(51) A47K 5/12	(72) ESCHBORN, Sascha
(32) 22.03.2019	B05B 11/00	ERDMANN, Niklas
(33) European Patent Office (EPO)	B05B 11/10	WEIS, Antonia
(47) 07.06.2023	(11) EP3845104	(74) ir. F.A. Geurts c.s.
(51) A47C 1/0355	(21) EP20209207.8	(31) 102017202869
(11) EP3965616	(22) 23.11.2020	(32) 22.02.2017
(21) EP20750573.6	(54) STATIONARY OUTLET STEM PUMP	(33) Germany
(22) 28.06.2020	(73) Op-Hygiene IP GmbH	(47) 05.07.2023
(54) SEATING FURNITURE HAVING A	(72) JONES, Andrew	(51) A61B 1/06
WALL-AWAY FUNCTION AND A FOOT	OPHARDT, Heiner	A61B 1/00
PART THAT CAN BE PIVOTED OUT	(74) dr. R.C. van Duijvenbode c.s.	G02B 23/24
(73) M. Schuster Patentverwertungs GmbH	(31) 201916731314	G02B 26/10
(72) SCHUSTER, Michael	(32) 31.12.2019	G02B 7/00
(74) ir. H.A. Witmans c.s.	(33) United States of America	(11) EP2061367
(31) 102019117623	(47) 19.07.2023	(21) EP07755749.4
(32) 29.06.2019	(51) A47L 7/00	(22) 20.04.2007
(33) Germany	A47L 9/16	(54) TEMPERATURE ADJUSTMENT IN
(47) 31.05.2023	A47L 9/00	SCANNING BEAM DEVICES
(51) A47G 19/22	(11) EP3582670	(73) University of Washington
B65D 81/38	(21) EP18714813.5	(72) JOHNSTON, Richard S.
(11) EP4032440	(22) 10.04.2018	MELVILLE, Charles David
(21) EP22161263.3	(54) PARTICLE COLLECTION CONTAINER,	(74) dr. R.C. van Duijvenbode c.s.
(22) 28.10.2016	STACK, AND METHOD	(31) 521523
(54) LID ASSEMBLY	(73) Festool GmbH	(32) 13.09.2006
(73) Yeti Coolers, LLC	(72) GREBING, Gerhard	(33) United States of America
(72) TOLMAN, John Alan	(74) ir. H.A. Witmans c.s.	(47) 19.07.2023
NICHOLS, Steve Charles	(31) 102017206220	(51) A61B 3/10
SEIDERS, Roy Joseph	102017206222	A61B 3/028
(74) ir. H.A. Witmans c.s.	PCT/EP2017/058690	A61B 3/00
(31) 201615288175	PCT/EP2017/058692	(11) EP2928358
201514971788	PCT/EP2017/058693	(21) EP13811099.4
201514971779	(32) 11.04.2017	(22) 06.12.2013
201562248996 P	11.04.2017	(54) SYSTEM AND METHOD FOR
(32) 07.10.2016	11.04.2017	EVALUATING INTRAOCULAR LENS
16.12.2015	11.04.2017	PERFORMANCE
16.12.2015	(33) Germany	(73) Johnson & Johnson Surgical Vision, Inc.
30.10.2015	Germany	(72) PIERS, Patricia Ann
(33) United States of America	World Intellectual Property Office (WIPO)	KASTHURIRANGAN, Sanjeev
United States of America	World Intellectual Property Office (WIPO)	WEEBER, Hendrick A.
United States of America	World Intellectual Property Office (WIPO)	(74) dr. R.C. van Duijvenbode c.s.
United States of America	World Intellectual Property Office (WIPO)	(31) 201261734240 P
(47) 09.08.2023	(47) 17.05.2023	(32) 06.12.2012
(51) A47J 31/00	(51) A47L 11/40	(33) United States of America
A47J 31/44	A47L 9/28	(47) 26.07.2023
(11) EP3895585	(11) EP4039161	(51) A61B 5/00
(21) EP19897177.2	(21) EP22154561.9	A61B 5/07
(22) 12.12.2019	(22) 01.02.2022	A61B 5/145
(54) MILK BEVERAGE HEATING STIRRER	(54) ENVIRONMENT CLEANING SYSTEM	A61B 5/20
(73) Xiong, Xingjian	(73) Vorwerk & Co. Interholding GmbH	A61M 31/00

A61F 6/14	(47) 19.07.2023	(73) Stryker European Operations Holdings LLC
(11) EP2964088	(51) A61B 17/02	(72) WALEN, James, G.
(21) EP14707785.3	A61B 17/34	CUSHEN, Patrick
(22) 04.03.2014	A61B 17/00	TYNAN, Fintan
(54) VAGINAL DRUG DELIVERY AND/OR DIAGNOSTIC SYSTEM	(11) EP3359057	(74) J.M.H. Duyver lic.
(73) Li Galli B.V. i.o.	(21) EP16784680.7	(31) 201762536733 P
(72) DE LAAT, Wilhelmus Nicolaas Gerardus Maria	(22) 07.10.2016	(32) 25.07.2017
(74) dr. ir. G.J.C. Verdijck c.s.	(54) WOUND RETRACTOR WITH MULTI-SEGMENT OUTER RING	(33) United States of America
(31) 13158451	(73) Applied Medical Resources Corporation	(47) 12.07.2023
(32) 08.03.2013	(72) ALBRECHT, Jeremy, J.	(51) A61B 18/14
(33) European Patent Office (EPO)	BECERRA, Matthew, M.	A61B 18/08
(47) 10.05.2023	NGUYEN, Eric	A61B 17/221
(51) A61B 5/03	(74) ir. H.A. Witmans c.s.	A61M 25/01
A61B 5/026	(31) 201562238608 P	(11) EP3661444
A61B 5/11	(32) 07.10.2015	(21) EP18842409.7
A61B 5/0215	(33) United States of America	(22) 27.07.2018
A61B 5/341	(47) 05.07.2023	(54) BICUSPID VALVE DISSECTION DEVICE
A61B 5/352	(51) A61B 17/04	(73) Edwards Lifesciences Corporation
(11) EP3203966	(11) EP3701882	(72) BAK-BOYCHUK, Gregory
(21) EP15784924.1	(21) EP20171516.6	WU, Ming H.
(22) 01.10.2015	(22) 13.01.2011	(74) ir. F.A. Geurts c.s.
(54) DEVICE AND METHOD FOR MEASUREMENT OF INTRACRANIAL PRESSURE	(54) APPARATUS FOR RE-ATTACHING THE LABRUM TO THE ACETABULUM	(31) 201816045116
(73) LINET spol. s r.o.	(73) Stryker Puerto Rico, LLC	201762538976 P
(72) SEBA, Petr	(72) PAMICHEV, Chris	(32) 25.07.2018
STUDNICKA, Filip	FLOM, James	31.07.2017
(74) dr. A. Krebs	BURLEY, J. Brook	(33) United States of America
(31) 20140696	NIKOLCHEV, Julian	United States of America
(32) 11.10.2014	(74) ir. H.A. Witmans c.s.	(47) 07.06.2023
(33) Czech Republic	(31) 83924610	(51) A61C 13/00
(47) 21.06.2023	32670910 P	A61C 13/083
(51) A61B 7/02	(32) 19.07.2010	A61C 13/09
A61B 7/04	22.04.2010	(11) EP3685799
(11) EP3687412	(33) United States of America	(21) EP20162392.3
(21) EP18861470.5	United States of America	(22) 23.12.2016
(22) 28.09.2018	(47) 19.07.2023	(54) METHOD FOR PRODUCING A BLANK AND DENTAL RESTORATION
(54) NETWORK-CONNECTED ELECTRONIC STETHOSCOPE SYSTEMS	(51) A61B 17/12	(73) DeguDent GmbH
(73) Heroic Faith Medical Science Co., Ltd.	A61F 2/24	DENTSPLY SIRONA Inc.
(72) CHENG, Yuan Ren	A61F 2/95	(72) Völkl, Lothar
HSU, Fushun	A61F 2/00	Hörhold, Heiner
TSAI, Fu Ji	A61B 17/00	Kutzner, Martin
(74) J.M.H. Duyver lic.	(11) EP2613742	Fecher, Stefan
(31) 201762564276 P	(21) EP11763878.3	(74) ir. W.J.J.M. Kempes
(32) 28.09.2017	(22) 09.09.2011	(31) 102015122864
(33) United States of America	(54) CATHETER DELIVERY SYSTEM FOR STENT VALVE	(32) 28.12.2015
(47) 28.06.2023	(73) Boston Scientific Limited	(33) Germany
(51) A61B 10/02	(72) DELALOYE, Stephane	(47) 07.06.2023
A61B 10/04	ESSINGER, Jacques	(51) A61F 2/24
(11) EP3773235	HEFTI, Jean-Luc	(11) EP3311775
(21) EP19717659.7	MANTANUS, Luc	(21) EP17201177.7
(22) 29.03.2019	(74) ir. W.J.J.M. Kempes	(22) 19.06.2009
(54) FULLY INTEGRATED ENDOSCOPE WITH BIOPSY CAPABILITIES	(31) 201161431333 P	(54) RETAINING MECHANISM FOR PROSTHETIC VALVES
(73) Trice Medical, Inc.	10176263	(73) Edwards Lifesciences Corporation
(72) CASTLE, Richard W.	(32) 10.01.2011	(72) MAISANO, Francesco
BRIGANTI, Richard T.	10.09.2010	MEIRI, Oded
WASHBURN, Richard H., II	(33) United States of America	ROWE, Stanton
HARDENBROOK, Frederick H.	European Patent Office (EPO)	(74) ir. F.A. Geurts c.s.
INTINTOLI, Alfred J.	(47) 24.05.2023	(31) 74597 P
(74) J.M.H. Duyver lic.	(51) A61B 17/32	(32) 20.06.2008
(31) 201862650261 P	A61B 17/16	(33) United States of America
(32) 29.03.2018	A61B 17/00	(47) 07.06.2023
(33) United States of America	(11) EP3658044	(51) A61F 2/24
	(21) EP18706068.6	A61M 25/09
	(22) 05.02.2018	(11) EP4003234
	(54) IRRIGATION SLEEVES FOR USE WITH SURGICAL SYSTEMS	(21) EP20768382.2

(22) 23.07.2020	WILKHU, Jitinder	(32) 28.04.2016
(54) DEVICE FOR ARRANGING GUIDE WIRES AROUND A HEART VALVE	(74) dr. A. Krebs	(33) Japan
(73) Innovheart S.r.l.	(31) 201702613	(47) 31.05.2023
(72) SHIN, Dong Ik	(32) 17.02.2017	<hr/>
RIGHINI, Giovanni	(33) United Kingdom	(51) A61K 31/385
DENISON, Andy	(47) 26.07.2023	A61K 31/4178
MAGRINI, Kevin	(51) A61K 31/00	A61K 31/661
TRINH, Cindy	A61K 31/166	A61K 31/662
(74) dr. ir. G.J.C. Verdijck c.s.	A61K 31/198	A61K 45/06
(31) 201900015494	A61K 31/375	A61K 38/06
201916522204	A61K 31/522	A61K 9/00
(32) 03.09.2019	A61K 31/555	A61P 25/00
25.07.2019	A61K 33/24	A61P 25/28
(33) Italy	A61K 33/32	A61P 43/00
United States of America	A61K 45/06	(11) EP3615023
(47) 19.07.2023	(11) EP3509573	(21) EP18724073.4
(51) A61F 13/42	(21) EP18849471.0	(22) 25.04.2018
G01N 27/12	(22) 19.09.2018	(54) LIPOYL-GLU-ALA FOR
(11) EP3982898	(54) PHARMACEUTICAL COMPOSITIONS	THE TREATMENT OF
(21) EP20731489.9	FOR DELIVERY OF PEPTIDE	NEURODEGENERATIVE DAMAGE
(22) 12.06.2020	(73) Anya Biopharm Inc.	CAUSED BY TRAUMATIC BRAIN
(54) DETECTING DEVICE FOR DETECTING A STATE OF A DIAPER, DIAPER ACCOMMODATING THE DETECTING DEVICE	(72) DESAI, Bhushan Dhruvkumar	INJURY
(73) SD Sensitive Diaper GmbH	GSCHLIESSER, Siegfried	(73) Ischemix LLC
(72) PETKOV, Stanislav Tchavdarov	(74) dr. R.C. van Duijvenbode c.s.	(72) KATES, Steven, A.
BABOURKOV, Peter	(31) 201711033555	BAGUISI, Alexander
PETKOV, Stanislav	(32) 21.09.2017	CASALE, Ralph
BANEV, Biser Nedelchev	(33) India	DEWAHL, David, A. Jr.
PASKOV, Pasko Todorov	(47) 24.05.2023	BEEUWKES, Reinier
(74) dr. R.C. van Duijvenbode c.s.	(51) A61K 31/02	LADER, Alan, S.
(31) 19179897	A61K 31/704	(74) dr. A. Ellens c.s.
(32) 13.06.2019	A61K 36/28	(31) 201762489735 P
(33) European Patent Office (EPO)	A61K 36/18	(32) 25.04.2017
(47) 10.05.2023	A61K 9/06	(33) United States of America
(51) A61G 7/10	A61K 31/353	(47) 21.06.2023
(11) EP2965736	A61K 36/23	<hr/>
(21) EP15176196.2	A61K 36/53	(51) A61K 31/715
(22) 10.07.2015	A61K 47/10	A61K 31/7032
(54) STANDING FRAME	A61K 47/46	A61P 43/00
(73) Altimate Medical, Inc.	A61K 9/00	A61P 37/06
(72) GARDEEN, Andrew	A61K 9/107	A61P 37/02
LOKKEN, Michael	A61P 17/02	A61P 1/04
PERLICH, Nancy	(11) EP3484457	A61P 1/16
SCHMIDT, Jeffrey	(21) EP17830439.0	A61P 3/10
FLUCK, Travis	(22) 17.07.2017	A61P 9/00
SCHMITT, Mark	(54) TOPICAL FORMULATION FOR PROMOTING WOUND HEALING	A61P 17/06
OVRE, Wesley	(73) Oneness Biotech Co., Ltd.	A61P 25/00
HAUGEN, Matthew	(72) CHEN, Jen-Wei	A61P 29/00
(74) J.M.H. Duyver lic.	LU, Kung-Ming	A61P 31/00
(31) 201414327943	(74) ir. M.B. Plaggenborg	(11) EP3144002
(32) 10.07.2014	(31) 201662363284 P	(21) EP15792520.7
(33) United States of America	(32) 17.07.2016	(22) 28.04.2015
(47) 12.07.2023	(33) United States of America	(54) GM-CSF-PRODUCING T-CELL CONTROL AGENT AND TH1/TH2 IMMUNE BALANCE REGULATOR
(51) A61K 9/08	(47) 28.06.2023	(73) National Center of Neurology and Psychiatry
A61K 47/10	(51) A61K 31/357	(72) MIYAKE, Sachiko
A61K 47/14	A61K 9/127	NOTO, Daisuke
A61K 47/22	A61P 35/00	YAMAMURA, Takashi
A61K 47/26	A61P 43/00	(74) dr. ir. F.M. van Bouwelen
A61K 47/44	(11) EP3449921	(31) 2014099587
(11) EP3582750	(21) EP17789632.1	(32) 13.05.2014
(21) EP18706562.8	(22) 26.04.2017	(33) Japan
(22) 15.02.2018	(54) ERIBULIN FOR INHIBITING TUMOR GROWTH	(47) 17.05.2023
(54) ORAL CANNABINOID FORMULATIONS	(73) Eisai R&D Management Co., Ltd.	<hr/>
(73) GW Research Limited	(72) ASANO, Makoto	(51) A61K 35/30
(72) WRIGHT, Stephen	MATSUI, Junji	A61K 33/00
	(74) ir. W.J.J.M. Kempes	A61K 33/06
	(31) 2016091919	A61K 33/14
		A61K 33/42
		A61K 38/17

A61K 31/41	(74) dr. W.A.H.M. Van Borm	(74) ir. W.J.J.M. Kempes
A61K 31/4178	(31) 201562112883 P	(31) 201462059339 P
A61K 31/437	(32) 06.02.2015	201361919485 P
A61K 31/55	(33) United States of America	(32) 03.10.2014
A61K 31/5517	(47) 21.06.2023	20.12.2013
A61K 45/06	(51) A61M 15/06	(33) United States of America
A61P 27/02	A61M 15/00	United States of America
A61P 27/06	A24F 42/20	(47) 17.05.2023
(11) EP3487519	A24F 42/60	(51) A61M 25/00
(21) EP17746021.9	(11) EP3934721	(11) EP2908898
(22) 20.07.2017	(21) EP20710297.1	(21) EP13717994.1
(54) COMPOUNDS FOR USE IN METHODS FOR TREATING GLAUCOMA AND RETINAL DISEASES	(22) 02.03.2020	(22) 13.03.2013
(73) P&X Medical NV	(54) PIERCING DEVICE FOR INHALER ARTICLE	(54) VAPOR HYDRATED MEDICAL DEVICE WITH LOW SURFACE ENERGY SLEEVE
(72) KILLER, Hanspeter, Esriel	(73) Philip Morris Products, S.A.	(73) Hollister Incorporated
WOSTYN, Peter	(72) SPADARO, Fabiana	(72) ROSTAMI, Shamsedin
DE DEYN, Peter, Paul	ZUBER, Gerard	(74) ir. W.J.J.M. Kempes
(74) dr. R.C. van Duijvenbode c.s.	CAMPITELLI, Gennaro	(31) 201261715370 P
(31) 16180333	DAYIOGLU, Onur	(32) 18.10.2012
(32) 20.07.2016	(74) dr. W.A.H.M. Van Borm	(33) United States of America
(33) European Patent Office (EPO)	(31) 19160888	(47) 26.07.2023
(47) 07.06.2023	(32) 05.03.2019	(51) A61M 25/09
(51) A61K 38/22	(33) European Patent Office (EPO)	(11) EP4051361
C07K 14/72	(47) 12.07.2023	(21) EP20834087.7
C07K 16/28	(51) A61M 16/12	(22) 09.12.2020
G01N 33/567	(11) EP3756714	(54) GUIDEWIRES FOR MEDICAL DEVICES
G01N 33/74	(21) EP20176675.5	(73) STRYKER CORPORATION
(11) EP3509624	(22) 14.03.2014	Stryker European Operations Limited
(21) EP17849795.4	(54) THERAPEUTIC GAS DELIVERY DEVICE WITH PULSED AND CONTINUOUS FLOW CONTROL	(72) GERBERDING, Brent
(22) 12.09.2017	(73) Mallinckrodt Hospital Products IP Limited	CHEN, Hancun
(54) METHODS OF DETECTING ANTI-LEPTIN NEUTRALIZING ANTIBODIES	(72) ACKER, Jaron	LEYNOV, Aleksandr
(73) Amryt Pharmaceuticals Inc.	KOHLMANN, Thomas	(74) ir. W.J.J.M. Kempes
(72) SAILSTAD, Jeffrey	TOLMIE, Craig R.	(31) 201916716280
(74) dr. ir. G.J.C. Verdijk c.s.	(74) ir. H.A. Witmans c.s.	(32) 16.12.2019
(31) 201662393632 P	(31) 201361791775 P	(33) United States of America
(32) 12.09.2016	(32) 15.03.2013	(47) 12.07.2023
(33) United States of America	(33) United States of America	(51) A61M 25/10
(47) 09.08.2023	(47) 17.05.2023	A61M 25/00
(51) A61K 51/02	(51) A61M 16/16	(11) EP3806945
(11) EP3338808	A61M 39/08	(21) EP19734624.0
(21) EP16205724.4	B29C 53/78	(22) 13.06.2019
(22) 21.12.2016	F16L 11/16	(54) BALLOON CATHETER ASSEMBLY FOR INSERTION AND POSITIONING THERAPEUTIC DEVICES WITHIN A VASCULAR SYSTEM
(54) DIAGNOSTIC USAGES OF SHORT-LIVED RADIOPHARMACEUTICALS	A61M 16/00	(73) Stryker Corporation
(73) MedTrace Pharma A/S	A61M 16/10	Stryker European Operations Holdings LLC
(72) STENFELDT, Martin	A61M 13/00	(72) MURPHY, Murtagh, M.
KRISTENSEN WIIK, Rune	A61M 16/06	BOLHOUSE, Mariel, E.
LARSEN, Peter	A61M 39/10	BROCHU, Alice, Bradbury Welsh
(47) 07.06.2023	A61M 39/12	MOCK, Thomas, J.
(51) A61L 27/26	A61M 16/08	MARCEAU, David, P.
A61L 27/48	(11) EP3082926	(74) ir. W.J.J.M. Kempes
A61L 27/52	(21) EP14872055.0	(31) 201862685148 P
A61L 27/60	(22) 19.12.2014	(32) 14.06.2018
A61P 17/02	(54) HUMIDIFICATION SYSTEM CONNECTIONS	(33) United States of America
C12N 5/00	(73) Fisher & Paykel Healthcare Limited	(47) 12.07.2023
E21B 33/064	(72) NORTON, Myfanwy Jane Antica	(51) A61M 39/22
F15B 1/16	EVANS, Stephen David	F16K 31/524
F15B 1/24	MILLAR, Gavin Walsh	F16K 11/085
(11) EP3253417	MCDERMOTT, Gareth Thomas	A61M 5/00
(21) EP16746019.5	STANTON, James William	A61M 5/14
(22) 03.02.2016	MCKENNA, Nicholas James Michael	G01N 30/00
(54) ENGINEERED TISSUE SUBSTITUTE SYSTEM	MAECKELBERGHE, Thomas Jacques	(11) EP3310428
(73) The University of British Columbia	Fernand	(21) EP16730402.1
(72) GHAHARY, Aziz	OSBORNE, Hamish Adrian	(22) 20.06.2016
HARTWELL, Ryan	HOLYOAKE, Bruce Gordon	
	MCCAULEY, David Leon	

(54) A SYSTEM FOR SAFE RADIOISOTOPE PREPARATION AND INJECTION	A61K 31/404 A61K 31/497 A61P 1/16 A61P 3/10 A61P 11/00	(54) METHOD FOR PRODUCING A STRUCTURE FROM BUILDING MATERIAL
(73) MedTrace Pharma A/S		(73) SIKA TECHNOLOGY AG
(72) STENFELDT, Martin LARSEN, Peter KRISTENSEN, Rune Wiik	(11) EP3722291	(72) Oblak, Luka Bourquin, Raphael Kuhn, Patrik Lootens, Didier Brühwiler, Armin
(31) 15172904	(21) EP20162043.2	(74) ir. W.J.J.M. Kempes
(32) 19.06.2015	(22) 23.12.2016	(31) 16158056
(33) European Patent Office (EPO)	(54) INDOLINONE COMPOUNDS AND THEIR USE IN THE TREATMENT OF FIBROTIC DISEASES	(32) 01.03.2016
(47) 10.05.2023	(73) Respivert Limited	(33) European Patent Office (EPO)
(51) A61N 1/04 A61N 1/32 A61N 1/36 C12N 13/00 C12M 1/42	(72) WALTERS, Iain COLLINGWOOD, Stephen, Paul STEVENSON, Christopher, Scott HILL-COUSINS, Joseph BIRCH, Louise	(47) 24.05.2023
(11) EP4011436	(74) dr. R.C. van Duijvenbode c.s.	(51) B01F 25/312 F04F 5/24 F04F 5/46 F25B 41/00
(21) EP20212860.9	(31) 15202764	(11) EP3858472
(22) 09.12.2020	(32) 24.12.2015	(21) EP20214609.8
(54) PULSED ELECTRIC FIELD TREATMENT OF BIOLOGICAL CELLS	(33) European Patent Office (EPO)	(22) 16.12.2020
(73) Bühler AG	(47) 19.07.2023	(54) EJECTOR FOR A HEAT RECOVERY OR WORK RECOVERY SYSTEM AND FLUID MIXING METHOD
(72) BUCHMANN, Leandro	(51) A63H 17/05 A63H 17/06	(73) Carrier Corporation
(74) ir. W.J.J.M. Kempes	(11) EP4023313	(72) Parmesh, Verma Wei, Zhang
(47) 12.07.2023	(21) EP21212283.2	(74) J.M.H. Duyver lic.
(51) A61N 1/36 A61N 1/05	(22) 03.12.2021	(31) 202010078559
(11) EP3943148	(54) TOY CAR	(32) 03.02.2020
(21) EP21195579.4	(73) Bruder Spielwaren GmbH + Co. KG	(33) China
(22) 02.03.2018	(72) Klenk, Rainer	(47) 26.07.2023
(54) SPINAL CORD STIMULATOR	(74) ir. J.C. Volmer c.s.	(51) B01F 27/091 B01F 27/60 B01F 27/726 B01F 35/41 B01F 35/45 B01F 35/71 B01F 35/75 A22C 5/00
(73) Mansell, John	(31) 102020216590	(11) EP3691777
(72) Mansell, John	(32) 30.12.2020	(21) EP18782964.3
(74) ir. W.J.J.M. Kempes	(33) Germany	(22) 04.10.2018
(31) 201762532464 P 201762466487 P	(47) 31.05.2023	(54) DEVICE FOR TREATING A PRODUCT
(32) 14.07.2017 03.03.2017	(51) B01F 23/213 B01F 25/00 B01F 25/10 B01F 25/313 F01N 3/20 F01N 3/28	(73) Inotec GmbH Maschinenentwicklung und Vertrieb
(33) United States of America United States of America	(11) EP3536393	(72) DOMLATIL, Miroslav
(47) 31.05.2023	(21) EP19155498.9	(31) 102017123164
(51) A61N 1/40 A61K 31/337 A61K 41/00	(22) 05.02.2019	(32) 05.10.2017
(11) EP3834882	(54) DEVICE FOR MIXING EXHAUST GAS AND AN ADDITIVE	(33) Germany
(21) EP21153988.7	(73) MAN Truck & Bus SE	(47) 07.06.2023
(22) 03.04.2007	(72) Griesbeck, Roland Albert, Herbert Preissler, Martin Aupperle, Tim	(51) B01F 29/80 B01F 31/10 B01F 33/452 B01F 33/81 B01F 33/84 B03C 1/28 B03C 1/30 B03C 1/01 B03C 1/033 B01L 3/08 B01F 35/71 C12M 1/24 G01N 35/00 G01N 35/10 B01F 29/00
(54) TREATING CANCER USING ELECTROMAGNETIC FIELDS IN COMBINATION WITH OTHER TREATMENT REGIMENS	(74) ir. A. Blokland c.s.	(11) EP3887049
(73) Novocure GmbH	(31) 102018103368	(21) EP19889987.4
(72) PALTI, Yoram	(32) 15.02.2018	
(74) dr. R.C. van Duijvenbode c.s.	(33) Germany	
(31) 744295 P	(47) 21.06.2023	
(32) 05.04.2006	(51) B01F 23/64 B01F 27/072 B01F 27/1121 B01F 27/192 B01F 27/2123 B01F 27/70 B01F 35/75 B28C 5/12 B28B 1/00	
(33) United States of America	(11) EP3646943	
(47) 19.07.2023	(21) EP19208377.2	
(51) A61P 37/02 A61P 29/00 A61P 35/00 A61P 31/12 C07D 403/12 A61P 27/02 A61P 17/00 A61P 9/12 C07D 413/12 A61P 19/02 C07D 209/34	(22) 01.03.2017	

(22) 26.11.2019	(21) EP18819102.7	(74) ir. F.A. Geurts c.s.
(54) SPINNING VESSEL SYSTEMS AND METHODS FOR MIXING, SUSPENDING PARTICULATES, ALIQUOTING, WASHING MAGNETIC BEADS, AND CONCENTRATING ANALYTES	(22) 14.12.2018	(31) 201662331020 P
(73) V & P Scientific, Inc.	(54) MOISTURE-CURABLE COMPOSITIONS	(32) 03.05.2016
(72) HICKMAN, Christopher, P.W.	(73) Covestro Intellectual Property GmbH & Co. KG	(33) United States of America
CLEVELAND, Patrick, H.	(72) LAAS, Hans-Josef	(47) 12.07.2023
ANGELO, Christopher, A.	THIEBES, Christoph	(51) B07C 3/08
MYERS, Kristi, K.	STEMPFLE, Florian Johannes	B65G 1/06
RENICK, Joel, I.	NATTKE, Ute	G06T 7/13
KNUTH, Natalie, A.	BAUMBACH, Beate	B65G 1/137
LOI, Alan, J.	(74) ir. W.J.J.M. Kempes	B65G 1/04
CHAVEZ, John, E.	(31) 17209987	(11) EP3402611
(74) J.M.H. Duyver lic.	(32) 22.12.2017	(21) EP17702704.2
(31) 201862772397 P	(33) European Patent Office (EPO)	(22) 11.01.2017
(32) 28.11.2018	(47) 10.05.2023	(54) SORTING APPARATUS
(33) United States of America	(51) B02C 17/16	(73) Opex Corporation
(47) 12.07.2023	(11) EP3840890	(72) STEVENS, Alexander
(51) B01J 8/38	(21) EP19769145.4	MCVAUGH, Monty
B01J 8/00	(22) 13.09.2019	WILSON, Gregory
C10G 11/18	(54) VERTICAL BALL MILL, STATOR SEGMENT FOR A VERTICAL BALL MILL AND METHOD FOR MAINTAINING A VERTICAL BALL MILL	WALSH, James
(11) EP3618949	(73) Vertical Power Mills Technology AG	DEWITT, Robert, R.
(21) EP18733369.5	(72) PATZELT, Norbert	(74) ir. F.A. Geurts c.s.
(22) 03.05.2018	KNECHT, Johann	(31) 201662374218 P
(54) BULK CATALYST WITHDRAWAL SYSTEM AND METHODS FOR THE USE THEREOF	(74) J.M.H. Duyver lic.	201662331020 P
(73) Dow Global Technologies LLC	(31) 102018122540	201662277253 P
(72) PRETZ, Matthew, T.	(32) 14.09.2018	(32) 12.08.2016
(74) ir. W.J.J.M. Kempes	(33) Germany	03.05.2016
(31) 201762502094 P	(47) 21.06.2023	11.01.2016
(32) 05.05.2017	(51) B05B 1/06	(33) United States of America
(33) United States of America	B05B 1/34	United States of America
(47) 19.07.2023	(11) EP3736047	United States of America
(51) B01J 19/00	(21) EP20176158.2	(47) 05.07.2023
C07H 1/00	(22) 19.10.2018	(51) B08B 17/02
(11) EP3897958	(54) TWO-PART NOZZLE FOR AEROSOL DIFFUSERS	B65D 88/16
(21) EP19832336.2	(73) Lindal France SAS	(11) EP3062940
(22) 17.12.2019	(72) BODET, Hervé	(21) EP14799630.0
(54) METHOD AND DEVICE FOR PRODUCING SACCHARIDES AND SACCHARIDE ARRAYS	BOREL, Bernard	(22) 31.10.2014
(73) Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V.	(74) drs. C.H. Mink-Lindenburg	(54) EFFLUENT CONTAINMENT DEVICE FOR CLEANING FIN FAN COOLERS
(72) HEIDEPRIEM, Jasmin	(31) 1760409	(73) Earp, Danny
PARIS, Grigori	(32) 06.11.2017	(72) Earp, Danny
TSOUKA, Alexandra	(33) France	(74) dr. R.C. van Duijvenbode c.s.
LÖFFLER, Felix	(47) 07.06.2023	(31) 201314070240
MENDE, Marco	(51) B07C 3/00	(32) 01.11.2013
SEEBERGER, Peter H.	B07C 5/38	(33) United States of America
EICKELMANN, Stephan	B07C 3/02	(47) 12.07.2023
(74) dr. A. Ellens c.s.	B07C 3/08	(51) B09B 3/00
(31) 18213784	(11) EP3452234	B09B 5/00
(32) 18.12.2018	(21) EP17724972.9	B29B 17/02
(33) European Patent Office (EPO)	(22) 03.05.2017	C02F 1/28
(47) 21.06.2023	(54) MATERIAL HANDLING METHOD FOR SORTING ITEMS USING A DYNAMICALLY CONFIGURABLE SORTING ARRAY	C02F 3/00
(51) B01J 31/22	(73) Opex Corporation	C12P 7/10
C08G 18/48	(72) YORK, Michael	C12P 7/56
C08G 18/71	O'MARA, Kerry	C12P 19/02
C08G 18/75	MCVAUGH, Monty	H01M 8/06
C08G 18/10	CHERRY, Kevin	H01M 8/16
C08G 18/22	DIETRICH, Douglas	B29K 1/00
C08G 18/38	RESSLER, David	B29L 31/48
C08L 75/08	HODGE, Robert	(11) EP3527296
C08G 18/28	DEWITT, Robert	(21) EP17876787.7
(11) EP3727686	STEVENS, Alexander	(22) 28.09.2017
		(54) METHOD FOR RECYCLING USED ABSORBENT ARTICLES
		(73) Unicharm Corporation
		(72) KONISHI, Takayoshi
		KAMEDA, Noritomo
		YAMAKI, Koichi
		HIRAOKA, Toshio
		(74) J.M.H. Duyver lic.

- (31) 2016235415
(32) 02.12.2016
(33) Japan
(47) 19.07.2023
-
- (51) B22D 11/00
B22D 11/10
B22D 11/114
B22D 11/115
- (11) EP3592483
(21) EP18764119.6
(22) 07.03.2018
(54) GRAIN REFINING WITH DIRECT VIBRATIONAL COUPLING
- (73) Southwire Company, LLC
(72) RUNDQUIST, Victor Frederic
MANCHIRAJU, Venkata Kiran
POWELL, Michael Caleb
GILL, Kevin Scott
GUFFEY, Roland Earl
- (74) ir. J.D. de Zeeuw
(31) 201762468709 P
(32) 08.03.2017
(33) United States of America
(47) 10.05.2023
-
- (51) B23Q 9/00
B27B 9/04
B23D 47/02
- (11) EP2974824
(21) EP15169786.9
(22) 29.05.2015
(54) GUIDE SYSTEM COMPRISING A HANDHELD MACHINE TOOL AND GUIDE RAIL
- (73) Festool GmbH
(72) Fleischmann, Bernd
(74) ir. H.A. Witmans c.s.
(31) 102014010486
(32) 15.07.2014
(33) Germany
(47) 14.06.2023
-
- (51) B25J 15/06
H01L 21/683
B25J 11/00
- (11) EP3774207
(21) EP19718776.8
(22) 15.03.2019
(54) GRIP DEVICE
- (73) ECM GREENTECH
(72) DUVIVIER, Pierre Yves
LAUNAY, Mickael
BENSAID, Chakib
- (74) ir. W.J.J.M. Kempes
(31) 1852728
(32) 29.03.2018
(33) France
(47) 07.06.2023
-
- (51) B28C 7/02
B28C 7/04
B28C 5/42
G01N 33/38
- (11) EP3585578
(21) EP18758500.5
(22) 20.02.2018
(54) METHOD FOR ASSESSING AGGREGATE MOISTURE PROBE ACCURACY IN CONCRETE MANUFACTURE
- (73) Verifi LLC
- (72) ROBERTS, Mark, F.
BERODIER, Elise
TREGGER, Nathan, A.
STRAKA, Jason
GOLDSTEIN, Gregory, A.
- (74) dr. R.C. van Duijvenbode c.s.
(31) 201762461449 P
(32) 21.02.2017
(33) United States of America
(47) 14.06.2023
-
- (51) B29B 13/02
B29C 35/02
B29C 43/02
B29C 43/52
B29C 65/02
B65B 7/28
B65B 9/04
B65B 47/02
B65B 51/10
H05B 3/20
- (11) EP4104992
(21) EP21207350.6
(22) 10.11.2021
(54) WORK STATION FOR FILM-PROCESSING PACKING MACHINE
- (73) MULTIVAC Sepp Haggenmüller SE & Co. KG
- (72) WÄGELE, Markus
REICHART, Nadine
GROPPER, Daniel
AMMANN, Christina
NAPRAVNIK, Christian
- (74) dr. R.C. van Duijvenbode c.s.
(31) 102021115294
(32) 14.06.2021
(33) Germany
(47) 02.08.2023
-
- (51) B29C 70/46
B29C 55/20
B29C 51/08
B29C 51/14
B29C 70/56
B29C 70/54
B29C 51/04
- (11) EP4096906
(21) EP21703561.7
(22) 28.01.2021
(54) THERMOPLASTIC COMPOSITE HAVING ONE OR MORE INNER OPENINGS AND METHOD FOR MOULDING SAID COMPOSITE
- (73) Dutch Thermoplastic Components B.V.
(72) LUNENBORG, Dennis
MANTEN, David Reijer
- (74) dr. ir. G.J.C. Verdijck c.s.
(31) 2024776
(32) 28.01.2020
(33) Netherlands
(47) 09.08.2023
-
- (51) B30B 9/30
B30B 15/16
B30B 15/06
B30B 15/24
- (11) EP4069504
(21) EP21836539.3
(22) 15.12.2021
(54) BALING PRESS AND METHOD FOR OPERATING THE BALING PRESS
- (73) SIB Strautmann Ingenieurbüro GmbH
(72) VOGT, Jan
BIRKEMEYER, Ralf
- (74) ir. F.A. Geurts c.s.
(31) 102020133711
(32) 16.12.2020
(33) Germany
(47) 24.05.2023
-
- (51) B32B 3/18
H01B 5/14
H05K 3/10
C09D 11/02
C09D 11/52
H01B 1/02
H01B 1/22
H01B 13/00
H05K 3/12
H05K 1/09
- (11) EP3922451
(21) EP21187184.3
(22) 27.07.2018
(54) COPPER OXIDE INK AND METHOD FOR PRODUCING CONDUCTIVE SUBSTRATE USING SAME, PRODUCT CONTAINING COATING FILM AND METHOD FOR PRODUCING PRODUCT USING SAME, METHOD FOR PRODUCING PRODUCT WITH CONDUCTIVE PATTERN, AND PRODUCT WITH CONDUCTIVE PATTERN
- (73) Asahi Kasei Kabushiki Kaisha
(72) TSURUTA, Masanori
YUMOTO, Toru
- (74) ir. W.J.J.M. Kempes
(31) 2018023239
2017145188
2017145187
- (32) 13.02.2018
27.07.2017
27.07.2017
- (33) Japan
Japan
Japan
- (47) 28.06.2023
-
- (51) B32B 5/08
B32B 5/02
B32B 5/24
B32B 5/26
D04H 1/00
D04H 1/06
D04H 3/00
F41H 5/04
- (11) EP3974174
(21) EP21200110.1
(22) 08.12.2016
(54) BALLISTIC MATERIAL INCORPORATING SPUNLACED NONWOVENS
- (73) DuPont Safety & Construction, Inc.
(72) Stahl, James
Price, Allen L.
Gravel, Robert
Janco, Scott
Musciano, Courtney
Brahms, David
Langley, Matt
Barter, Eric A.

Gallacher, Vincent	(31) 102019213765	(72) Buta, Gabor
(74) ir. H.A. Witmans c.s.	(32) 10.09.2019	Saegeler, Sebastian
(31) 201514985897	(33) Germany	(74) ir. A. Blokland c.s.
(32) 31.12.2015	(47) 31.05.2023	(31) 102020000312
(33) United States of America	(51) B60K 1/04	(32) 20.01.2020
(47) 28.06.2023	B60K 1/00	(33) Germany
(51) B41J 2/21	(11) EP3616956	(47) 07.06.2023
B41J 3/407	(21) EP19193005.6	(51) B62D 21/12
B41J 11/00	(22) 22.08.2019	B62D 27/06
H04N 1/00	(54) ENERGY MODULE FOR COMMERCIAL	B62D 63/02
(11) EP3498479	VEHICLE	(11) EP3696056
(21) EP18210373.9	(73) MAN Truck & Bus SE	(21) EP20151092.2
(22) 05.12.2018	(72) Ludwig, Stefan	(22) 10.01.2020
(54) A METHOD FOR PRINTING SWATHS	Kusch, Willi	(54) VEHICLE CHASSIS MODULE WITH
OF AN IMAGE ON A SUBSTRATE	Burger, Norbert	A VEHICLE AXIS AND CONNECTING
(73) Canon Production Printing Holding B.V.	Treusch, Stephan	NODES
(72) SLAATS, Bianca P.S.	Kondic, Darko	(73) MAN Truck & Bus SE
DE GRIJS, Eduard T.H.	(74) ir. A. Blokland c.s.	(72) Sattler, Steve
(74) ir. M.J. Groen	(31) 102018121220	Hörmann, Robert
(31) 17208099	(32) 30.08.2018	Hintereder, Jürgen
(32) 18.12.2017	(33) Germany	Drescher, Benjamin
(33) European Patent Office (EPO)	(47) 07.06.2023	(74) ir. A. Blokland c.s.
(47) 07.06.2023	(51) B60L 50/60	(31) 102019103863
(51) B41J 11/06	B60L 53/16	(32) 15.02.2019
B41J 11/00	B60L 53/10	(33) Germany
(11) EP3772416	B60L 5/36	(47) 21.06.2023
(21) EP19198530.8	(11) EP2819876	(51) B62D 27/06
(22) 20.09.2019	(21) EP13715146.0	B62D 33/04
(54) FLATBED PRINTER	(22) 26.02.2013	B62D 33/06
(73) Canon Production Printing Holding B.V.	(54) CURRENT TRANSMISSION DEVICE	B62D 25/06
(72) BORCHERT, Christopher J.	FOR CHARGING ELECTRICAL	B62D 29/04
MAK, Aaron	ENERGY STORES OF VEHICLES AT	(11) EP3816023
(74) ir. M.J. Groen	OVERHEAD CHARGING STATIONS	(21) EP20202579.7
(31) 19190835	(73) Schunk Transit Systems GmbH	(22) 19.10.2020
(32) 08.08.2019	(72) SANTNER, Josef	(54) FIXING DEVICE FOR A MOTOR
(33) European Patent Office (EPO)	(74) ir. H.A. Witmans c.s.	VEHICLE
(47) 07.06.2023	(31) 102012202955	(73) MAN Truck & Bus SE
(51) B42D 25/36	(32) 27.02.2012	(72) Schmitz, Andreas
G07D 7/1205	(33) Germany	Fraunhofer, Stephan
G07D 7/20	(47) 07.06.2023	(74) ir. A. Blokland c.s.
G07D 7/12	(51) B60Q 9/00	(31) 102019007580
(11) EP2901426	G08G 1/16	(32) 30.10.2019
(21) EP13770839.2	(11) EP3372449	(33) Germany
(22) 27.09.2013	(21) EP18157332.0	(47) 07.06.2023
(54) METHOD FOR PRODUCING A VALUE	(22) 19.02.2018	(51) B62J 9/23
DOCUMENT	(54) TECHNIQUE FOR MONITORING A	B62J 9/27
(73) Giesecke+Devrient Currency Technology	DEAD ANGLE AREA	(11) EP3882112
GmbH	(73) MAN Truck & Bus SE	(21) EP21159919.6
(72) STEINLEIN, Stephan	(72) Arnold, Claus	(22) 01.03.2021
RAUSCHER, Wolfgang	Johannes, Güllich	(54) SIDE CASE DEVICE, MOBILE OBJECT
GIERING, Thomas	Mohra, Holger	INCLUDING SAME, SIDE CASE AND
KECHT, Johann	(74) ir. A. Blokland c.s.	SUPPORT DEVICE
(74) ir. W.J.J.M. Kempes	(31) 102017002221	(73) Yamaha Hatsudoki Kabushiki Kaisha
(31) 102012019251	(32) 08.03.2017	(72) MIYAMOTO, Yoshihiro
(32) 28.09.2012	(33) Germany	TERAMOTO, Yoshinori
(33) Germany	(47) 07.06.2023	(74) dr. R.C. van Duijvenbode c.s.
(47) 05.07.2023	(51) B60R 11/04	(31) 2020050047
(51) B60C 13/00	G02B 27/00	(32) 19.03.2020
B60C 11/00	(11) EP3851327	(33) Japan
(11) EP3792082	(21) EP21150839.5	(47) 26.07.2023
(21) EP20192368.7	(22) 11.01.2021	(51) B62K 5/06
(22) 24.08.2020	(54) VEHICLE CAMERA WITH A	B62K 5/10
(54) VEHICLE TYRE COMPRISING A	PROTECTIVE DEVICE FOR	(11) EP3790785
MARKING AREA	REDUCING POLLUTION AND / OR	(21) EP19723746.4
(73) Continental Reifen Deutschland GmbH	ENVIRONMENTAL FACTORS WHICH	(22) 07.05.2019
(72) Jurco, Juraj	CAN INTERFERE WITH THE FIELD OF	(54) IMPROVED TILTING SUSPENSION
Rittweger, Stefan	VIEW OF CAMERA LENSES	FOR A VEHICLE
(74) ir. W.J.J.M. Kempes	(73) MAN Truck & Bus SE	(73) YouSee B.V.

(72) BARENBRUG, Machiel Gerardus Theodorus Marie ARIESEN, Pel DE VISSER, Alexander Piul Johannus	(74) dr. R.C. van Duijvenbode c.s. (47) 19.07.2023	(47) 17.05.2023
(74) dr. A. Krebs (31) 2020889 (32) 08.05.2018 (33) Netherlands (47) 07.06.2023	(51) B65D 8/00 A63F 9/12 A63H 33/18 A63F 9/00 (11) EP3737613 (21) EP18877991.2 (22) 16.02.2018	(51) B65G 69/28 (11) EP3613684 (21) EP19191098.3 (22) 09.08.2019 (54) OPERATING METHOD FOR OPERATING A CHARGING BRIDGE ARRANGEMENT
(51) B62L 3/02 B62K 25/08 B60T 8/36 (11) EP3753834 (21) EP19713844.9 (22) 01.02.2019 (54) BICYCLE HYDRAULIC PRESSURE CONTROL UNIT	(54) A NOVELTY BREAKABLE SHELL (73) ZURU (Singapore) Pte. Ltd. (72) MOWBRAY, Mathew Peter (74) ir. W.J.J.M. Kempes (31) 201862615591 P (32) 10.01.2018 (33) United States of America (47) 26.07.2023	(73) Hörmann KG Antriebstechnik (72) KÖPPLER, Thorsten (74) ir. J.C. Volmer c.s. (31) 102018128396 102018120354 (32) 13.11.2018 21.08.2018 (33) Germany Germany (47) 31.05.2023
(73) Robert Bosch GmbH (72) CHIBA, Kazuki ATSUSHI, Hiroaki (74) ir. H.A. Witmans c.s. (31) 2018023637 (32) 14.02.2018 (33) Japan (47) 02.08.2023	(51) B65D 8/00 B65D 65/46 (11) EP3988465 (21) EP21203102.5 (22) 18.10.2021 (54) CONTAINER FOR LIQUIDS MADE ENTIRELY FROM NATURAL PLANT MATERIALS	(47) C01B 3/34 C01B 3/48 C01B 3/50 C01B 3/56 B01D 53/047 C07C 29/151 C07C 29/153 (11) EP3596004 (21) EP18714920.8 (22) 13.03.2018 (54) METHOD FOR PRODUCING HYDROGEN AND METHANOL
(51) B63H 3/04 B63H 20/14 (11) EP3904200 (21) EP21179050.6 (22) 07.08.2015 (54) METHOD AND APPARATUS IN AN ELECTRIC PROPULSION ARRANGEMENT OF A SAILING VESSEL	(73) Hsu, Yu-Ting (72) Hsu, Yu-Ting (74) dr. R.C. van Duijvenbode c.s. (31) 109136629 (32) 22.10.2020 (33) Taiwan, Chinese Taipei (47) 26.07.2023	(73) L'AIR LIQUIDE, Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude (72) GUILLARD, Alain ROESCH, Alexander (74) ir. W.J.J.M. Kempes (31) 201715630301 201762470420 P (32) 22.06.2017 13.03.2017 (33) United States of America United States of America (47) 07.06.2023
(73) Oceanvolt Oy (72) MARTTILA, Kari (74) ir. W.J.J.M. Kempes (31) 20145721 (32) 14.08.2014 (33) Finland (47) 31.05.2023	(54) CONTAINER WITH A BALE ARM HAVING A TAPERED HINGE PIN (73) Schoeller Allibert GmbH (72) COPE, Andrew Christopher (74) J.M.H. Duyver lic. (47) 14.06.2023	(51) B65D 21/06 (11) EP3838785 (21) EP19217683.2 (22) 18.12.2019 (54) SEALING FOIL WITH TEAR LINE (73) N.V. Nutricia (72) Jobse, Pieter Samuel (74) dr. R.C. van Duijvenbode c.s. (47) 05.07.2023
(51) B63H 20/00 B63H 21/17 (11) EP3875361 (21) EP21158398.4 (22) 22.02.2021 (54) MARINE PROPULSION SYSTEM AND CONTROL METHOD	(51) B65D 51/20 (11) EP3578479 (21) EP19180632.2 (22) 20.04.2015 (54) SEALING FOIL WITH TEAR LINE (73) N.V. Nutricia (72) Jobse, Pieter Samuel (74) dr. R.C. van Duijvenbode c.s. (47) 05.07.2023	(51) C02F 1/28 C02F 1/52 C02F 1/54 C08F 299/00 C07F 7/12 C07F 7/21 C08G 77/04 C08L 83/06 C02F 103/00 C02F 103/06 C02F 103/08 C02F 101/30 (11) EP3759052 (21) EP19708982.4 (22) 26.02.2019 (54) USE OF ALKYL-TRICHLOROSILANES FOR THE REMOVAL OF MICROPLASTIC PARTICLES FROM WATER AND/OR A BODY OF WATER
(73) Yamaha Hatsudoki Kabushiki Kaisha (72) NANJO, Morihiko MIYAGI, Yuta (74) dr. R.C. van Duijvenbode c.s. (31) 2020036124 (32) 03.03.2020 (33) Japan (47) 19.07.2023	(51) B65G 47/61 B65G 17/20 (11) EP3619147 (21) EP18720584.4 (22) 25.04.2018 (54) DEVICE FOR LOADING TRANSPORT BAGS (73) Ferag AG (72) RAMSEIER, Marcel (74) ir. H.A. Witmans c.s. (31) 15432017 6072017 (32) 15.12.2017 05.05.2017 (33) Switzerland Switzerland	(54) METHOD AND DEVICE FOR FORMING PACKAGING STACKS (73) Teepack Spezialmaschinen GmbH & Co. KG (72) Knops, Hans Lambertz, Stefan

(33) Germany	(47) 21.06.2023	WOLTERS, Joost Robert
(47) 05.07.2023	(51) C07C 2/08	(74) dr. ir. G.J.C. Verdijck c.s.
(51) C03C 15/00	(11) EP3964491	(31) 2023686
C03C 17/00	(21) EP20194598.7	(32) 22.08.2019
C03C 17/22	(22) 04.09.2020	(33) Netherlands
C03C 3/105	(54) METHOD FOR OLIGOMERIZING	(47) 07.06.2023
H01P 3/12	ISOBUTENE	(51) C07C 253/34
H01P 5/103	(73) Evonik Operations GmbH	C07C 255/12
H01Q 13/08	(72) PEITZ, Stephan	(11) EP4073031
H01Q 13/18	KNOSSALLA, Johannes	(21) EP21801145.0
H01Q 13/20	STOCHNIOL, Guido	(22) 08.11.2021
H01Q 13/22	(74) ir. W.J.J.M. Kempes	(54) A METHOD FOR THE PURIFICATION
H01Q 21/00	(47) 24.05.2023	OF ETHYLENE CYANOHYDRIN
H01P 11/00	(51) C07C 5/333	(73) Evonik Operations GmbH
C04B 35/14	C07C 11/06	(72) TRAUTHWEIN, Harald
C04B 35/50	C07C 11/08	BESTGEN, Sebastian
C04B 35/111	C07C 11/09	GRÄFF, Günther
(11) EP3853944	C07C 11/167	SCHÜTZ, Thorben
(21) EP19861556.9	B01J 38/02	CASPARI, Maik
(22) 11.09.2019	B01J 38/12	(74) ir. W.J.J.M. Kempes
(54) HIGH EFFICIENCY COMPACT	B01J 38/14	(31) 20212450
SLOTTED ANTENNA WITH A GROUND	B01J 23/62	(32) 08.12.2020
PLANE	(11) EP3699163	(33) European Patent Office (EPO)
(73) 3D Glass Solutions, Inc.	(21) EP20161028.4	(47) 24.05.2023
(72) FLEMMING, Jeb, H.	(22) 07.03.2016	(51) C07C 275/20
BULLINGTON, Jeff, A.	(54) INTEGRATED C3-C4 HYDROCARBON	C07D 309/14
(74) ir. F.A. Geurts c.s.	DEHYDROGENATION PROCESS	C07C 311/17
(31) 201862732472 P	(73) Dow Global Technologies LLC	C07C 311/51
(32) 17.09.2018	(72) PRETZ, Matthew T.	C07D 249/08
(33) United States of America	(74) ir. W.J.J.M. Kempes	C07D 257/04
(47) 02.08.2023	(31) 201562139938 P	A61K 31/16
(51) C03C 17/36	(32) 30.03.2015	A61K 31/395
(11) EP3749624	(33) United States of America	A61P 9/00
(21) EP19708914.7	(47) 19.07.2023	C07C 233/56
(22) 04.02.2019	(51) C07C 7/163	C07D 263/48
(54) SOLAR CONTROL COATINGS WITH	C07C 11/08	C07D 295/192
QUADRUPLE METALLIC LAYERS	C07C 11/10	C07D 307/68
(73) Vitro Flat Glass LLC	C10G 45/40	A61K 31/17
(72) POLCYN, Adam, D.	C10G 65/06	A61K 31/18
FISHER, Patrick	(11) EP3680224	(11) EP3313816
MEDWICK, Paul, A.	(21) EP19150659.1	(21) EP16742303.7
WAGNER, Andrew	(22) 08.01.2019	(22) 22.07.2016
(74) ir. F.A. Geurts c.s.	(54) PROCESS FOR REMOVING MULTIPLY	(54) METABOLICALLY ROBUST ANALOGS
(31) 201916265878	UNSATURATED HYDROCARBONS	OF CYP-EICOSANOIDS FOR THE
201862626332 P	FROM C4 HYDROCARBON	TREATMENT OF CARDIAC DISEASE
(32) 01.02.2019	FLOWS IN THE PRESENCE OF	(73) OMEICOS Therapeutics GmbH
05.02.2018	MERCAPTAN, DISULFIDES AND C5	Max-Delbrück-Centrum für Molekulare
(33) United States of America	HYDROCARBONS	Medizin in der Helmholtz-Gemeinschaft
United States of America	(73) Evonik Operations GmbH	Board of Regents, The University of
(47) 12.07.2023	(72) WOLFF, Andreas	Texas System
(51) C04B 20/12	PEITZ, Stephan	(72) KONKEL, Anne
C04B 26/16	RIX, Armin Matthias	FALCK, John Russel
C04B 20/10	STOCHNIOL, Guido	WESTPHAL, Christina
(11) EP3512818	WINTERBERG, Markus	WESTPHAL, Philipp
(21) EP17787980.6	SCHALLENBERG, Jörg	WESSER, Tim
(22) 15.09.2017	(74) ir. W.J.J.M. Kempes	SCHUNK, Wolf-Hagen
(54) ADHESION PROMOTER COATED	(47) 24.05.2023	FISCHER, Robert
PARTICLES FOR POLYMER	(51) C07C 67/52	(74) ir. W.J.J.M. Kempes
CONCRETE COMPOSITIONS	C07C 69/82	(31) 201562195645 P
(73) Dow Global Technologies, LLC	(11) EP4017839	(32) 22.07.2015
(72) AOU, Kaoru	(21) EP20756886.6	(33) United States of America
MEDINA, Juan Carlos	(22) 20.08.2020	(47) 24.05.2023
GOYAL, Sachit	(54) COMPOSITION OF BHET AND USE	(51) C07D 215/36
COLSON, Adam C.	THEREOF	A61P 7/06
(74) ir. W.J.J.M. Kempes	(73) Ioniqa Technologies B.V.	A61K 31/4709
(31) 201662395460 P	(72) DE GROOT, Michael Josef	(11) EP3713919
(32) 16.09.2016	GRAVENDEEL, Jannigje Maria Jacomina	(21) EP18821779.8
(33) United States of America	DE HAAN, André Banier	(22) 21.11.2018

- (54) CRYSTALLINE FORMS OF N-(4-(4-(CYCLOPROPYLMETHYL)PIPERAZINE-1-CARBONYL)PHENYL)QUINOLINE-8-SULFONAMIDE
- (73) Agios Pharmaceuticals, Inc.
(72) MIRMEHRABI, Mahmoud
GUO, Liting
SU, Yeqing
SIZEMORE, Jacob, P.
(74) dr. R.C. van Duijvenbode c.s.
(31) 201862691709 P
201762589822 P
(32) 29.06.2018
22.11.2017
(33) United States of America
United States of America
(47) 02.08.2023
-
- (51) C07D 249/08
A61K 31/497
A61P 35/00
C07D 401/06
C07D 403/06
C07D 405/06
C07D 413/06
C07D 417/06
(11) EP3492455
(21) EP18202641.9
(22) 20.06.2014
(54) 1,2,4-TRIAZOLES AS NUCLEAR TRANSPORT MODULATORS AND USE IN THE TREATMENT OF SPECIFIC FORMS OF CANCER
- (73) Karyopharm Therapeutics Inc.
(72) KASHYAP, Trinayan
SENAPEDES, William
BALOGLU, Erkan
SHECHTER, Sharon
GOLAN, Gali
SHACHAM, Sharon
MCCAULEY, Dilara
KALID, Ori
LANDESMAN, Yosef
(74) ir. W.J.J.M. Kempes
(31) 201361838172 P
(32) 21.06.2013
(33) United States of America
(47) 17.05.2023
-
- (51) C07D 277/82
C07D 417/04
C07D 417/10
C07D 513/04
A61K 31/428
A61K 31/437
A61K 31/4439
A61K 31/506
A61K 31/695
A61P 25/16
A61P 25/28
C07F 5/02
A61K 31/69
C07D 471/04
C07F 7/08
(11) EP3692023
(21) EP18864678.0
(22) 01.10.2018
(54) BENZOTHIAZOL COMPOUNDS AND METHODS USING THE SAME FOR
- TREATING NEURODEGENERATIVE DISORDERS
- (73) 1st Biotherapeutics, Inc.
(72) FAN, MingZhu
KIM, Misoon
KIM, Jae Eun
PARK, A Yeong
KIM, Hyeongjun
LI, Wanjun
LEE, Gwibin
KIM, Hyonam
LEE, Minwoo
JO, Suyeon
LIM, Seung Mook
LIM, Keonseung
JUNG, Gyooseung
YANG, Heekyoung
LEE, Jinhwa
(74) ir. C.G.C. Veldman-Dijkers
(31) 201862696432 P
201862666800 P
201762566649 P
(32) 11.07.2018
04.05.2018
02.10.2017
(33) United States of America
United States of America
United States of America
(47) 17.05.2023
-
- (51) C07D 407/12
C07D 413/04
C07D 413/14
C07D 405/04
A61P 25/00
A61K 31/351
(11) EP3676297
(21) EP18850713.1
(22) 31.08.2018
(54) COMPOUNDS, COMPOSITIONS AND METHODS
- (73) Denali Therapeutics Inc.
(72) SWEENEY, Zachary K.
DE VICENTE FIDALGO, Javier
CRAIG, Robert A., II
OSIPOV, Maksim
LEXA, Katrina W.
FENG, Jianwen A.
ESTRADA, Anthony A.
(74) dr. R.C. van Duijvenbode c.s.
(31) 201862697281 P
201862634721 P
201762609267 P
201762553750 P
(32) 12.07.2018
23.02.2018
21.12.2017
01.09.2017
(33) United States of America
United States of America
United States of America
United States of America
(47) 17.05.2023
-
- (51) C07D 487/14
C07D 471/14
C07D 487/04
C07F 5/02
C07F 7/08
H01L 51/00
- (11) EP3325486
(21) EP16739523.5
(22) 19.07.2016
(54) POLYNITROGEN COMPOUNDS AND USES THEREOF AS FLUORESCENT CHROMOPHORES
- (73) Centre National de la Recherche Scientifique
Universite D'Orleans
(72) BONNET, Pascal
SIRBU, Doina
SUZENET, Franck
GUILLAUMET, Gérald
(74) dr. R.C. van Duijvenbode c.s.
(31) 1556868
(32) 20.07.2015
(33) France
(47) 24.05.2023
-
- (51) C07D 498/04
C07D 513/04
A61K 31/5383
A61K 31/542
A61P 31/04
(11) EP3717490
(21) EP18819475.7
(22) 29.11.2018
(54) ANTI-BACTERIAL HETEROCYCLIC COMPOUNDS AND THEIR SYNTHESIS
- (73) Bugworks Research, Inc.
(72) RAMACHANDRAN, Vasanthi
PEER MOHAMED, Shahul Hameed
SHARMA, Sreevalli
BHARATHAM, Nagakumar
KATAGIHALLIMATH, Nainesh
NANDISHAIAH, Radha
(74) ir. W.J.J.M. Kempes
(31) 201741042876
(32) 29.11.2017
(33) India
(47) 24.05.2023
-
- (51) C07D 498/18
A61P 35/00
A61K 31/439
(11) EP3694863
(21) EP18795807.9
(22) 04.10.2018
(54) CRYSTALLINE FORM OF LORLATINIB FREE BASE HYDRATE
- (73) Pfizer Inc.
(72) BOWLES, Paul
ROSE, Peter Robert
(74) dr. R.C. van Duijvenbode c.s.
(31) 201862727734 P
201762570326 P
(32) 06.09.2018
10.10.2017
(33) United States of America
United States of America
(47) 21.06.2023
-
- (51) C07K 7/64
A61K 38/00
(11) EP3353191
(21) EP16794681.3
(22) 23.09.2016
(54) CYCLIC POLYPEPTIDES, METHOD FOR OBTAINING SAID POLYPEPTIDES AND THE THERAPEUTIC USE THEREOF

- (73) Axoltis Pharma
(72) GOBRON, Stéphane
BRIDON, Dominique
(74) dr. R.C. van Duijvenbode c.s.
(31) 1559084
(32) 25.09.2015
(33) France
(47) 24.05.2023
-
- (51) C07K 14/55
A61K 38/00
C07K 19/00
(11) EP3794024
(21) EP19729416.8
(22) 14.05.2019
(54) ACTIVATABLE INTERLEUKIN-2
POLYPEPTIDES AND METHODS OF
USE THEREOF
(73) WEREWOLF THERAPEUTICS, INC.
(72) LIN, Shuoyen Jack
WESCHE, Holger
WINSTON, William
SALMERON GARCIA, Jose Andres
BAEUERLE, Patrick
EVNIN, Luke
HICKLIN, Daniel
BHASKAR, Vinay
SEIDEL-DUGAN, Cynthia
BRODKIN, Heather
(74) ir. F.A. Geurts c.s.
(31) 201862756507 P
201862756504 P
201862671225 P
(32) 06.11.2018
06.11.2018
14.05.2018
(33) United States of America
United States of America
United States of America
(47) 10.05.2023
-
- (51) C07K 14/605
C07K 1/10
(11) EP3414257
(21) EP17750508.8
(22) 06.02.2017
(54) METHOD FOR PREPARATION OF
LIRAGLUTIDE USING BAL LINKER
(73) Polypeptide Laboratories Holding (PPL)
AB
(72) ALBERICIO PALOMERA, Fernando
CARBAJO LOPEZ, Daniel
(74) dr. A. Ellens c.s.
(31) 201662293830 P
16155165
(32) 11.02.2016
11.02.2016
(33) United States of America
European Patent Office (EPO)
(47) 07.06.2023
-
- (51) C07K 16/28
G01N 33/566
G01N 33/68
A61P 37/02
(11) EP3137504
(21) EP15785500.8
(22) 30.04.2015
(54) ANTIBODY BINDING TO FCRN FOR
TREATING AUTOIMMUNE DISEASES
(73) Hanall Biopharma Co., Ltd.
- (72) YOO, Tae Hyoung
KIM, Sung Wuk
YONG, Hae-Young
JEONG, Jae Kap
SHIN, Dongok
KIM, Min Sun
AHN, Hyea Kyung
SONG, Yeon Jung
PARK, Seung Kook
KIM, Eun Sun
(74) ir. W.J.J.M. Kempes
(31) 201461986742 P
(32) 30.04.2014
(33) United States of America
(47) 10.05.2023
-
- (51) C08B 31/00
C08F 25/100
C09K 8/514
C09K 8/516
C08J 3/12
(11) EP3670540
(21) EP18847661.8
(22) 22.08.2018
(54) STARCH-CONTAINING MICROSPHERE
AND PREPARATION METHOD
THEREFOR AND APPLICATION
THEREOF
(73) Dalian Research Institute Of Petroleum
And Petrochemicals, Sinopec Corp.
China Petroleum & Chemical Corporation
(72) LIU, Quanjie
WANG, Chen
YIN, Zequn
YANG, Chao
(74) dr. ir. F.M. van Bouwelen
(31) 201710720862
201710720864
201710720844
201710720851
201710720863
201710720850
(32) 22.08.2017
22.08.2017
22.08.2017
22.08.2017
22.08.2017
22.08.2017
(33) China
China
China
China
China
China
(47) 26.07.2023
-
- (51) C08F 2/38
C08F 10/02
C08F 4/24
C08F 2/34
(11) EP3445790
(21) EP17737923.7
(22) 17.04.2017
(54) POLYMER FLOW INDEX MODIFIER
(73) Univation Technologies, LLC
(72) ALEXANDRE, Francois
MOORHOUSE, John H.
CANN, Kevin J.
LESTER, Charles D.
SUN, Kefu
- MATTHEWS, William A.
LYNN, Timothy R.
GOODE, Mark G.
(74) ir. W.J.J.M. Kempes
(31) 201662325175 P
(32) 20.04.2016
(33) United States of America
(47) 12.07.2023
-
- (51) C08F 236/22
C08F 212/08
C08F 236/04
C08F 297/04
C08F 8/04
(11) EP4056604
(21) EP22164445.3
(22) 28.12.2017
(54) METHOD FOR PRODUCING
COPOLYMER OF 1,3,7-OCTATRIENE
AND STYRENE
(73) Kuraray Co., Ltd.
(72) SUNAGA, Shuichi
INUBUSHI, Yasutaka
TSUJI, Tomoaki
HORI, Takashi
(74) dr. R.C. van Duijvenbode c.s.
(31) 2016257108
(32) 28.12.2016
(33) Japan
(47) 02.08.2023
-
- (51) C08G 8/00
C08K 3/00
C08K 7/28
C08L 61/04
(11) EP2935382
(21) EP13820820.2
(22) 17.12.2013
(54) COMPOSITION COMPRISING A
PHENOLIC RESIN, COMPOSITE
MATERIAL COMPRISING SUCH A
COMPOSITION AND PROCESS FOR
PREPARING A COMPOSITE MATERIAL
(73) Seguin, Pascal
Bouillon, Hubert
Servouse, Jean-Loup
(72) Servouse, Jean-Loup
Seguin, Pascal
Bouillon, Hubert
(74) ir. W.J.J.M. Kempes
(31) 1262251
(32) 18.12.2012
(33) France
(47) 10.05.2023
-
- (51) C08G 63/42
C08G 63/64
C08G 63/66
C08G 63/18
C08L 67/02
(11) EP3872112
(21) EP19876284.1
(22) 26.09.2019
(54) HIGHLY BIO-BASED POLYCARBONATE
ESTER AND METHOD FOR
PRODUCING SAME
(73) SK Chemicals Co., Ltd.
(72) OH, Kwang Sei
(74) J.M.H. Duyver lic.
(31) 20180129022
(32) 26.10.2018

(33) Korea (Republic)	(33) Korea (Republic)	C04B 26/26
(47) 19.07.2023	(47) 17.05.2023	C04B 111/00
(51) C08J 5/18	(51) C08L 25/12	(11) EP3397694
B65D 65/46	C08L 51/04	(21) EP16882380.5
C11D 17/04	C08L 33/10	(22) 20.12.2016
B29C 51/00	C08K 5/3435	(54) FOAMED ASPHALT COMPOSITIONS, RECYCLED ASPHALT COMPOSITION INCLUDING THE SAME, ASPHALT PAVEMENT INCLUDING THE SAME, AND METHODS OF FORMING ASPHALT PAVEMENT USING THE SAME
(11) EP4015572	B60R 19/52	(73) Honeywell International Inc.
(21) EP21214734.2	B60R 1/06	(72) WANG, Wei
(22) 15.12.2021	(11) EP4045592	LI, Jun
(54) WATER-SOLUBLE FILMS, WATER- SOLUBLE UNIT DOSE ARTICLES, AND METHODS OF MAKING AND USING THE SAME	(21) EP20790298.2	WANG, Xiang
(73) Monosol, LLC	(22) 13.10.2020	SHEN, Yuansheng
(72) LABEQUE, Regine	(54) STYRENIC COPOLYMER COMPOSITION WITH PMMA AND IMPROVED WEATHERING RESISTANCE	YUAN, Ruixing
LI, Shigeng	(73) INEOS Styrolution Group GmbH	(74) ir. W.J.J.M. Kempes
VITIELLO, Luca	(72) RUTHARD, Christian	(31) 201615370683
COURCHAY, Florence Catherine	(74) dr. R.C. van Duijvenbode c.s.	201562273742 P
FRIEDRICH, Steven G.	(31) 19203362	(32) 06.12.2016
(74) dr. R.C. van Duijvenbode c.s.	(32) 15.10.2019	31.12.2015
(31) 20214215	(33) European Patent Office (EPO)	(33) United States of America
(32) 15.12.2020	(47) 05.07.2023	United States of America
(33) European Patent Office (EPO)	(51) C08L 53/02	(47) 28.06.2023
(47) 07.06.2023	C08F 297/02	(51) C09C 1/36
(51) C08L 9/00	B65B 53/02	C09C 3/06
(11) EP3606992	C08J 5/18	D21H 17/69
(21) EP18723092.5	(11) EP3766935	(11) EP3810698
(22) 02.04.2018	(21) EP20194041.8	(21) EP19823606.9
(54) MODIFIED RESINS AND USES THEREOF	(22) 19.02.2018	(22) 19.06.2019
(73) Continental Reifen Deutschland GmbH	(54) INTRINSICALLY NON-BLOCKING SHRINK SLEEVE MATERIAL	(54) TREATED TITANIUM DIOXIDE PIGMENT, PROCESS OF MAKING THEREOF AND USE THEREOF IN PAPER MANUFACTURE
Synthomer Adhesive Technologies LLC	(73) INEOS Styrolution Group GmbH	(73) Tronox LLC
(72) HIRSCHLAG, Hubert	(72) KNOLL, Konrad	(72) MCINTYRE, Robert
FINGER, Sebastian	VAN-DEN-BOSSCHE, Bart	KERROD, Julie Elizabeth
ROBERTSON, Christopher George	VERSWYVEL, Michiel	WEBBER, Ben
RECKER, Carla	VERLINDEN, Geert	BURNISTON, Neil
DE HULLU, Jacobus Gillis	NIESSNER, Norbert	(74) dr. R.C. van Duijvenbode c.s.
CARVAGNO, Terri Roxanne	SCHUSTER, Michael	(31) 201862686840 P
VERSLUIJS, Peter	WAGNER, Daniel	201862686829 P
ARIGO, Mark	(74) dr. R.C. van Duijvenbode c.s.	(32) 19.06.2018
PETERS, Fabian	(31) 17157206	19.06.2018
KLOMP, Janine	(32) 21.02.2017	(33) United States of America
(74) mr. R. Zwamborn	(33) European Patent Office (EPO)	United States of America
(31) 201762480956 P	(47) 28.06.2023	(47) 26.07.2023
201762480894 P	(51) C08L 75/14	(51) C09D 4/06
(32) 03.04.2017	(11) EP2841502	(11) EP3775055
03.04.2017	(21) EP13879246.0	(21) EP19709945.0
(33) United States of America	(22) 20.03.2013	(22) 11.03.2019
United States of America	(54) DISPERSION OF A FUNCTIONALIZED POLYOLEFIN IN A POLYOL	(54) THREE-DIMENSIONAL ARTICLES MADE BY ADDITIVE MANUFACTURING HAVING REDUCED SURFACE HAZE
(47) 17.05.2023	(73) Dow Global Technologies LLC	(73) Henkel AG & Co. KGaA
(51) C08L 25/12	(72) ADRIAN, David, J.	(72) BRANAGAN, David
C08L 51/04	CLAESSENS, Sven	KENNEDY, Lisa
C08K 3/22	VIRGILI, Justin, M.	SMYTH, Martin
C08K 5/00	SONNENSCHNEIN, Mark, F.	FITZPATRICK, Darragh
C08K 5/105	WENDT, Benjamin, L.	HERSEE, Rachel
C08K 5/524	STRANDBURG, Gary, M.	(74) dr. R.C. van Duijvenbode c.s.
(11) EP3564308	READ, Michael, D.	(31) 201805017
(21) EP17886133.2	(74) ir. W.J.J.M. Kempes	(32) 28.03.2018
(22) 19.12.2017	(31) 201261617768 P	(33) United Kingdom
(54) THERMOPLASTIC RESIN COMPOSITION, AND MOLDED ARTICLE PRODUCED THEREFROM	(32) 30.03.2012	(47) 12.07.2023
(73) Lotte Advanced Materials Co., Ltd.	(33) United States of America	(51) C10H 1/00
(72) LEE, Eun Joo	(47) 12.07.2023	
KWON, Young Chul	(51) C08L 95/00	
(74) dr. ir. G.J.C. Verdijk c.s.	C08L 23/30	
(31) 20160184165	C08J 11/00	
(32) 30.12.2016	E01C 19/45	
	E01C 7/18	

(11) EP4107235	(74) ir. W.J.J.M. Kempes	(51) C12N 9/28
(21) EP21705517.7	(31) 201816047690	(11) EP3720956
(22) 16.02.2021	(32) 27.07.2018	(21) EP18822573.4
(54) METHOD OF PREPARING ACETYLENE	(33) United States of America	(22) 07.12.2018
(73) Shell Internationale Research Maatschappij B.V.	(47) 26.07.2023	(54) ALPHA-AMYLASE VARIANTS AND POLYNUCLEOTIDES ENCODING SAME
(72) VAN DER MADE, Alexander Willem URADE, Vikrant Nanasaheb KUMAR, Dharmesh	(51) C12N 5/071 A61K 35/407 A61P 1/16 A61P 7/02	(73) Novozymes A/S (72) GIGER, Lars
VAN BAVEL, Alexander Petrus	(11) EP3140393	JENSEN, Johanne Mørch
(74) ir. W.J.J.M. Kempes	(21) EP15759717.0	ANDERSEN, Carsten
(31) 20158505	(22) 28.08.2015	LESSARD, Louis Patrick
(32) 20.02.2020	(54) METHOD FOR PRODUCING ADULT LIVER PROGENITOR CELLS	(74) ir. W.J.J.M. Kempes
(33) European Patent Office (EPO)	(73) Cellaion SA	(31) 201862765268 P 201762596231 P
(47) 02.08.2023	(72) GELLYNCK, Kris BARAN, Tuba FALCIOLA, Luca SNYKERS, Sarah SOKAL, Etienne	(32) 20.08.2018 08.12.2017 (33) United States of America United States of America
(51) C10L 10/06 C10L 1/236 C08F 293/00 C08F 8/32 C08F 8/44	(74) ir. J.P.E. Brants	(47) 07.06.2023
(11) EP3350232	(31) PCT/EP2014/068317	(51) C12N 9/54 C11D 3/386
(21) EP16774975.3	15157664	(11) EP3660151
(22) 15.09.2016	(32) 28.08.2014	(21) EP18209175.1
(54) FUEL COMPOSITION COMPRISING A BLOCK COPOLYMER AS DETERGENT ADDITIVE	04.03.2015	(22) 29.11.2018
(73) TotalEnergies OneTech	(33) World Intellectual Property Office (WIPO) European Patent Office (EPO)	(54) VARIANT PROTEASES HAVING IMPROVED PERFORMANCE AND STORAGE STABILITY
(72) PREVOST, Julie	(47) 14.06.2023	(73) Henkel AG & Co. KGaA (72) Mussmann, Nina Wieland, Susanne Prueser, Inken Degering, Christian
(74) ir. W.J.J.M. Kempes	(51) C12N 9/10 C12N 15/52 C12N 15/77 C12P 19/32	(74) dr. R.C. van Duijvenbode c.s.
(31) 1558831	(11) EP3739044	(47) 19.07.2023
(32) 18.09.2015	(21) EP19762700.3	(51) C12N 15/113 C12N 9/22 C12N 15/10 C12N 15/90
(33) France	(22) 19.07.2019	(11) EP3765616
(47) 07.06.2023	(54) VARIANT PHOSPHORIBOSYL PYROPHOSPHATE AMIDOTRANSFERASE AND METHOD FOR PRODUCING PURINE NUCLEOTIDE BY USING SAME	(21) EP19717640.7 (22) 14.03.2019
(51) C11D 3/386 C11D 3/50 C11D 17/06	(73) Cj Cheiljedang Corporation	(54) NOVEL CRISPR DNA AND RNA TARGETING ENZYMES AND SYSTEMS
(11) EP3426759	(72) LEE, Ji Hye BAEK, Min Ji PARK, So Jung	(73) Arbor Biotechnologies, Inc. (72) SMITH, Elise Keston SCOTT, David A. CARTE, Jason YAN, Winston X. CHENG, David R. HUNNEWELL, Pratyusha
(21) EP17711968.2	(74) dr. R.C. van Duijvenbode c.s.	(74) J.M.H. Duyver lic.
(22) 08.03.2017	(31) 20190035683	(31) 201862775874 P 201862772043 P 201862746539 P 201862740867 P 201862729393 P 201862699498 P 201862672489 P 201862666397 P 201862642919 P
(54) PARTICLES INCLUDING ENZYME	(32) 28.03.2019	(32) 05.12.2018 27.11.2018 16.10.2018 03.10.2018 10.09.2018 17.07.2018 16.05.2018
(73) The Procter & Gamble Company	(33) Korea (Republic)	
(72) VASQUEZ VALDIVIESO, Montserrat, Guadalupe LANT, Neil, Joseph	(47) 12.07.2023	
(74) ir. W.J.J.M. Kempes	(51) C12N 9/22 C12N 15/00 A61P 27/00 A61P 21/00 A61P 25/00 A61P 3/00	
(31) 201615064184	(11) EP3298134	
(32) 08.03.2016	(21) EP16718840.8	
(33) United States of America	(22) 15.04.2016	
(47) 26.07.2023	(54) GENE EDITING OF DEEP INTRONIC MUTATIONS	
(51) C11D 11/00 C11D 1/29 C11D 3/04 C11D 3/10 D06B 19/00 D06B 21/00 D06B 3/32 C11D 3/386 C11D 17/04	(73) Genzyme Corporation	
(11) EP3830330	(72) SCARIA, Abraham RUAN, Guoxiang	
(21) EP19840347.9	(74) ir. W.J.J.M. Kempes	
(22) 02.07.2019	(31) 201562162720 P	
(54) PROCESS OF LAUNDERING FABRICS USING A WATER-SOLUBLE UNIT DOSE ARTICLE	(32) 16.05.2015	
(73) The Procter & Gamble Company	(33) United States of America	
(72) DENOME, Frank, William SIVIK, Mark, Robert SOUTER, Philip, Frank	(47) 10.05.2023	

03.05.2018	B66C 1/66	(22) 05.09.2019
14.03.2018	F16B 45/00	(54) EXCAVATOR SPLIT CONNECTOR
(33) United States of America	(11) EP3746584	(73) Caterpillar Work Tools B.V.
United States of America	(21) EP19744071.2	(72) GRANT, Patrick
United States of America	(22) 29.01.2019	(74) ir. W.J.J.M. Kempes
United States of America	(54) ANCHOR SYSTEMS FOR LIFTING AN	(31) 201816126972
United States of America	ELECTROLYTIC VESSEL	(32) 10.09.2018
United States of America	(73) Pultrusion Technique Inc.	(33) United States of America
United States of America	(72) DUFRESNE, Robert	(47) 26.07.2023
United States of America	(31) 201862623281 P	(51) E03C 1/04
United States of America	(32) 29.01.2018	E03C 1/046
(47) 19.07.2023	(33) United States of America	C02F 1/32
(51) C12P 7/24	(47) 31.05.2023	(11) EP4039894
C12N 9/04	(51) D03D 15/68	(21) EP21155837.4
C12N 1/21	(11) EP2434035	(22) 08.02.2021
(11) EP3022291	(21) EP11182724.2	(54) DEVICE FOR STERILIZING DRINKING
(21) EP14826331.2	(22) 26.09.2011	WATER
(22) 11.07.2014	(54) Process of manufacturing a fabric with	(73) WS Produktentwicklung GmbH & Co. KG
(54) COMPOSITIONS AND METHODS FOR	homogeneous pores	(72) Schmidt, Wolfram
THE BIOSYNTHESIS OF VANILLIN OR	(73) Trident Limited	Keuper, Stefan
VANILLIN BETA-D-GLUCOSIDE	(72) Verma, Swadesh	Glüer, Sven
(73) International Flavors & Fragrances Inc.	Debnath, Pradip	(47) 12.07.2023
(72) HANSEN, Esben Halkjaer	(74) ir. A. Blokland c.s.	(51) E04F 10/06
HANSEN, Klavs Riishede	(31) 1867DE2010	E04F 10/02
HALLWYL, Swee Chuang Lim	(32) 24.09.2010	(11) EP3985202
(74) ir. H.A. Witmans c.s.	(33) India	(21) EP21201506.9
(31) 201361846658 P	(47) 19.07.2023	(22) 07.10.2021
(32) 16.07.2013	(51) D06F 58/20	(54) AWNING, IN PARTICULAR A WINTER
(33) United States of America	A45D 37/00	GARDEN OR A WEATHER GUARD
(47) 07.06.2023	C11D 17/04	AWNING WITH A DRIVE DEVICE
(51) C12P 19/04	A47L 15/44	(73) markilux GmbH + Co. KG
A23L 29/212	(11) EP3635167	(72) Kröner, Sven
(11) EP3596223	(21) EP18725629.2	Becks, Daniel
(21) EP18711523.3	(22) 14.05.2018	(74) ir. J.C. Volmer c.s.
(22) 13.03.2018	(54) IMPROVEMENTS TO DRYING	(31) 102020213045
(54) BRANCHED ALPHA GLUCANS	TEXTILES	(32) 15.10.2020
(73) Société des Produits Nestlé S.A.	(73) Cares Laboratory Limited	(33) Germany
(72) GANGOITI MUÑECAS, Joana	(72) TOMS, David John	(47) 31.05.2023
DIJKHUIZEN, Lubbert	BUTCHER, Alex Georgia	(51) E06B 1/62
VAN LEEUWEN, Sander, Sebastiaan	ABBEY, Thomas James	E04B 1/68
VAFEIADI, Christina	(31) 201708042	(11) EP3825501
DUBOUX, Stéphane	(32) 19.05.2017	(21) EP19210886.8
PIJNING, Tjaard	(33) United Kingdom	(22) 22.11.2019
(74) dr. R.C. van Duijvenbode c.s.	(47) 07.06.2023	(54) SEALING TAPE
(31) 17161087	(51) D21H 13/26	(73) ISO-Chemie GmbH
(32) 15.03.2017	D21H 17/45	(74) ir. F.A. Geurts c.s.
(33) European Patent Office (EPO)	D21H 17/55	(47) 07.06.2023
(47) 07.06.2023	D21H 17/00	(51) E06B 9/322
(51) C12Q 1/6851	(11) EP3740613	E06B 9/34
C12Q 1/6886	(21) EP19741430.3	(11) EP3610118
(11) EP3535417	(22) 10.01.2019	(21) EP18721248.5
(21) EP17800438.8	(54) PROCESS FOR MAKING PAPER WITH	(22) 13.04.2018
(22) 02.11.2017	IMPROVED FILLER RETENTION AND	(54) WINDOW SHADE
(54) EARLY DETECTION OF PRELIMINARY	OPACITY WHILE MAINTAINING WET	(73) Teh Yor Co., Ltd.
STAGES OF TESTICULAR GERM CELL	TENSILE STRENGTH	(72) HUANG, Chien-Lan
TUMORS	(73) Solenis Technologies, L.P.	HUANG, Chin-Tien
(73) Mirdetect GmbH	(72) CRISP, Mark Tracey	(74) dr. R.C. van Duijvenbode c.s.
(72) SPIEKERMANN, Meike	LEWIS, Ashley Hawkins	(31) 201762485089 P
WINTER, Nina	(74) dr. T. Wittop Koning PhD	(32) 13.04.2017
RADTKE, Arlo	(31) 201862617938 P	(33) United States of America
BELGE, Gazanfer	(32) 16.01.2018	(47) 05.07.2023
(74) dr. A. Krebs	(33) United States of America	(51) E21B 7/24
(31) 16196813	(47) 26.07.2023	E21B 17/07
(32) 02.11.2016	(51) E02F 3/36	F16F 1/32
(33) European Patent Office (EPO)	E02F 9/08	(11) EP2646639
(47) 07.06.2023	B60R 16/02	(21) EP11794135.1
(51) C25C 7/00	(11) EP3850161	(22) 07.12.2011
C25C 7/06	(21) EP19769380.7	

(54) VIBRATION TRANSMISSION AND ISOLATION	(47) 12.07.2023	(51) F04D 29/041
(73) ITI Scotland Limited	(51) F01N 1/00	F04D 13/02
(72) WIERCIGROCH, Marian	F01N 3/10	E21B 17/046
(74) ir. A. Blokland c.s.	F01N 1/16	E21B 43/12
(31) 201104874	B60P 3/00	E21B 23/00
201102558	F01N 9/00	E21B 17/10
201020660	B60H 1/00	F16D 41/12
(32) 23.03.2011	(11) EP3803069	F04D 13/10
14.02.2011	(21) EP18811647.9	(11) EP3841271
07.12.2010	(22) 05.06.2018	(21) EP19851090.1
(33) United Kingdom	(54) TRANSPORT REFRIGERATION UNIT EXHAUST SYSTEM MANAGEMENT FOR LOW NOISE EMISSIONS	(22) 18.06.2019
United Kingdom	(73) Carrier Corporation	(54) ONE-WAY CLUTCH DRIVE SHAFT COUPLING IN SUBMERSIBLE WELL PUMP ASSEMBLY
United Kingdom	(72) RENAULT, Loïc	(73) Baker Hughes Oilfield Operations LLC
(47) 07.06.2023	(74) dr. R.C. van Duijvenbode c.s.	(72) DAVIS, Nikolas
(51) E21B 41/00	(47) 26.07.2023	(74) ir. W.J.J.M. Kempes
G01V 99/00	(51) F02B 37/18	(31) 201916443046
(11) EP3708768	F01N 13/10	201862721349 P
(21) EP20162597.7	F01N 13/08	(32) 17.06.2019
(22) 12.03.2020	F01N 13/18	22.08.2018
(54) COUPLING A SIMULATOR AND AT LEAST ONE OTHER SIMULATOR	F01D 17/00	(33) United States of America
(73) Chevron U.S.A. Inc.	F02B 37/22	United States of America
(72) LI, Kon-Ming Gary	B22D 25/02	(47) 26.07.2023
GUYAGULER, Baris	(11) EP3339601	(51) F16L 1/18
ZHOU, Yifan	(21) EP17202946.4	F16L 1/20
WANG, Bin	(22) 22.11.2017	F16L 3/233
(74) dr. R.C. van Duijvenbode c.s.	(54) TURBOCHARGER ASSEMBLY	F16L 9/19
(31) 201962817337 P	(73) MAN Truck & Bus SE	H01B 7/04
(32) 12.03.2019	(72) Polster, Dominik	H02G 1/10
(33) United States of America	Leitel, Thomas	F03D 13/00
(47) 12.07.2023	(74) ir. A. Blokland c.s.	(11) EP3596370
(51) E21B 43/12	(31) 102016015306	(21) EP17838123.2
E21B 17/20	(32) 22.12.2016	(22) 08.12.2017
E21B 33/12	(33) Germany	(54) METHOD OF LAYING A PIPE BUNDLE ON THE SEABED
(11) EP3612713	(47) 07.06.2023	(73) Siemens Gamesa Renewable Energy A/ S
(21) EP18788267.5	(51) F03D 7/02	(72) SOERENSEN, Johnny
(22) 13.04.2018	(11) EP3870845	(74) ir. W.J.J.M. Kempes
(54) DUAL-WALLED COILED TUBING WITH DOWNHOLE FLOW ACTUATED PUMP	(21) EP19801762.6	(31) 102017212967
(73) Baker Hughes Holdings LLC	(22) 31.10.2019	102017206857
(72) RAMSEY, Timothy T.	(54) DAMPING VIBRATIONS IN A WIND TURBINE	(32) 27.07.2017
LIVESCU, Silviu	(73) Siemens Gamesa Renewable Energy A/ S	24.04.2017
(74) ir. W.J.J.M. Kempes	(72) HOEGH, Gustav	(33) Germany
(31) 201715488923	EGEDAL, Per	Germany
(32) 17.04.2017	(74) ir. W.J.J.M. Kempes	(47) 07.06.2023
(33) United States of America	(31) 18212370	(51) F16L 1/19
(47) 26.07.2023	(32) 13.12.2018	F16L 1/20
(51) F01K 23/06	(33) European Patent Office (EPO)	B63B 35/03
F01K 23/10	(47) 07.06.2023	E21B 19/15
F01K 9/00	(51) F03D 7/02	(11) EP3827190
(11) EP3757358	(11) EP3874159	(21) EP19756433.9
(21) EP20176715.9	(21) EP19801750.1	(22) 23.07.2019
(22) 27.05.2020	(22) 31.10.2019	(54) A MARINE J-LAY PIPELAYING INSTALLATION AND METHOD
(54) DRIVE UNIT FOR A MOTOR VEHICLE WITH A CIRCUIT PROCESS DEVICE	(54) METHOD AND CONTROLLER FOR FULL-POWER CONTROL OF A WIND TURBINE	(73) Itrec B.V.
(73) VOLKSWAGEN AG	(73) Siemens Gamesa Renewable Energy A/ S	(72) VEHEIJER, Terence Willem August DONKERS, Jeroen Adrianus Joseph
(72) Semke, Artur	(72) HOEGH, Gustav	(74) ir. J.C. Volmer c.s.
Schulenburg, Thomas	ESBENSEN, Thomas	(31) 2021387
Carstensen, Asmus	(74) ir. W.J.J.M. Kempes	(32) 24.07.2018
Maischik, Thomas	(31) 18212376	(33) Netherlands
Naumann, Hardy	(32) 13.12.2018	(47) 07.06.2023
Herr, Andreas	(33) European Patent Office (EPO)	(51) F16L 25/02
Horn, André	(47) 07.06.2023	B67D 9/02
(74) ir. W.J.J.M. Kempes		F16L 59/075
(31) 102019208651		F16L 59/18
(32) 13.06.2019		
(33) Germany		

F16L 39/00	(22) 26.06.2019	F24F 11/49
F16L 39/04	(54) COMPOSITE PRESSURE VESSEL	(11) EP3982051
(11) EP3734131	WITH BOSS CONNECTOR	(21) EP20201100.3
(21) EP18896842.4	(73) PLASTIC OMNIUM NEW ENERGIES	(22) 09.10.2020
(22) 26.12.2018	FRANCE	(54) METHOD FOR ALLOCATING
(54) FLUID LOADING JOINT AND FLUID	(72) MAHIEU, Els	WIRELESS CONNECTIONS IN A
LOADING EQUIPMENT	NOUWEN, Geert	NETWORK OF A ROOM AIR AND / OR
(73) T.EN Loading Systems S.A.S.	WILLEMS, Philippe	AIR CONDITIONING PLANT
TB Global Technologies Ltd.	SEIFERT, Axel	(73) TROX GmbH
Kawasaki Jukogyo Kabushiki Kaisha	(74) dr. A. Krebs	(72) Hoh, Alexander, Dr.
(72) UMEMURA, Tomoaki	(31) 18179930	Lange, Stefan
KAWAI, Tsutomu	(32) 26.06.2018	(74) ir. H.J.G. Lips c.s.
(74) dr. R.C. van Duijvenbode c.s.	(33) European Patent Office (EPO)	(47) 07.06.2023
(31) 2017254139	(47) 28.06.2023	<hr/>
(32) 28.12.2017	(51) F23C 3/00	(51) F24S 25/67
(33) Japan	F23C 7/06	F24S 20/67
(47) 02.08.2023	F23M 5/04	E04D 1/30
<hr/>	F23M 5/08	E04D 3/32
(51) F16L 33/22	(11) EP3931488	E04D 3/362
(11) EP3553361	(21) EP19716359.5	E04D 3/365
(21) EP19167045.4	(22) 04.04.2019	H02S 20/23
(22) 03.04.2019	(54) COMBUSTION CHAMBER FOR	(11) EP3818311
(54) CLAMPING RING FOR PIPE JOINTS,	A HOT GAS GENERATOR OF AN	(21) EP19735322.0
CLAMPING DEVICE COMPRISING	ASPHALT PRODUCTION PLANT WITH	(22) 04.07.2019
THE CLAMPING RING FOR PIPE	AIR BAFFLES AND METHOD FOR	(54) SOLAR ROOF FORMING ELEMENT,
JOINTS AND HOSE CONNECTION	SECURING THE AIR BAFFLES	BUILDING, AND METHOD OF
COMPRISING THE CLAMPING DEVICE	(73) Ammann Schweiz AG	FORMING A ROOF
(73) WMF GmbH	(72) KLARER, Michael	(73) SABIC Global Technologies B.V.
(72) Schirmmacher, Philipp	HAUSER, Johann	(72) VAN GIESEN, Roland
Aubele, Thomas	HAHN, Oliver	VENDERBOSCH, Robert Walter
(74) J.M.H. Duyver lic.	HECEK, Denis	YANEVA, Petya Dochkova
(31) 102018205397	(74) ir. W.J.J.M. Kempes	STEENBAKKERS-MENTING, Henrica
(32) 10.04.2018	(47) 17.05.2023	Norberta Alberta Maria
(33) Germany	<hr/>	VERLAEK, Roeland Leonardus
(47) 12.07.2023	(51) F24C 15/20	Maria
<hr/>	(11) EP3692306	(74) dr. R.C. van Duijvenbode c.s.
(51) F16L 37/35	(21) EP18769137.3	(31) 18181759
F16L 37/42	(22) 10.09.2018	(32) 04.07.2018
F16L 37/23	(54) VAPOR EXTRACTION DEVICE	(33) European Patent Office (EPO)
(11) EP3763985	(73) Bruckbauer, Wilhelm	(47) 26.07.2023
(21) EP19184962.9	(72) KÖNNEKER, Walter	<hr/>
(22) 08.07.2019	BLERSCH, Mario	(51) F25B 31/00
(54) COUPLING SYSTEM FOR HOSE AND /	GÖSSLER, Siegfried	F25B 39/02
OR PIPE LINES AND METHOD FOR	SCHADECK, Alexander	F25B 43/02
PRODUCING AND BLOCKING A FLUID	NEUNHÄUSERER, Daniel	(11) EP3635310
FLOW	(74) ir. J.C. Volmer c.s.	(21) EP18724767.1
(73) Lüdecke GmbH	(31) 102017217853	(22) 01.05.2018
(72) MEIER, Ringo	(32) 06.10.2017	(54) REFRIGERATION SYSTEM AND FALL
(74) ir. W.J.J.M. Kempes	(33) Germany	FILM EVAPORATOR
(47) 24.05.2023	(47) 07.06.2023	(73) Carrier Corporation
<hr/>	(51) F24F 8/22	(72) GUO, Junjie
(51) F17C 5/00	A61L 9/20	(74) J.M.H. Duyver lic.
(11) EP3604890	F24F 11/38	(31) 201710357044
(21) EP18306043.3	F24F 11/32	(32) 19.05.2017
(22) 01.08.2018	(11) EP4056915	(33) China
(54) DEVICE AND PROCESS FOR	(21) EP21161995.2	(47) 02.08.2023
REFUELLING CONTAINERS WITH	(22) 11.03.2021	<hr/>
PRESSURIZED GAS	(54) ROOM AIR PURIFIER COMPRISING	(51) F41G 1/30
(73) L'AIR LIQUIDE, SOCIETE ANONYME	AN OZONE GENERATOR WITH A UV	F41G 3/16
POUR L'ETUDE ET L'EXPLOITATION	LAMP AND METHOD FOR OPERATING	G02B 23/14
DES PROCEDES GEORGES CLAUDE	A ROOM AIR PURIFIER	G02B 27/01
(72) BUCK, Marcus	(73) Brunauer, Thomas Sebastian	F41G 1/32
WERLEN, Etienne	(72) AUER, Johannes	(11) EP3638972
(74) ir. W.J.J.M. Kempes	STEINBACHER, Andreas	(21) EP18729462.4
(47) 07.06.2023	SEELNBACHER, Klaus	(22) 13.06.2018
<hr/>	(74) dr. G. Visser-Luirink	(54) SIGHT FOR USE BY DAY AND AT
(51) F17C 13/00	(47) 24.05.2023	NIGHT AND FIREARM
F17C 1/06	(51) F24F 11/59	(73) GAL S.L. Ltd
F17C 1/14	F24F 11/64	Softbox Madeira Unipessoal, Lda
F17C 1/16		(72) Seznec-Serpaggi, Francis
(11) EP3814674		(74) ir. F.A. Geurts c.s.
(21) EP19732678.8		

- | | | |
|------------------------------------|--|--|
| (31) 1770622 | (21) EP19220129.1 | (21) EP19730316.7 |
| (32) 13.06.2017 | (22) 11.01.2018 | (22) 11.06.2019 |
| (33) France | (54) NAVIGATION BASED ON VEHICLE | (54) APPARATUS FOR DETECTING A RISE |
| (47) 07.06.2023 | ACTIVITY | IN TEMPERATURE IN AN ELECTRIC |
| (51) G01B 7/02 | (73) Mobileye Vision Technologies Ltd. | MOTOR |
| G01B 11/02 | (72) TAIEB, Yoav | (73) ebm-papst Mulfingen GmbH & Co. KG |
| B29C 64/118 | SHAMMAH, Shaked | (72) WYSTUP, Ralph |
| B29C 70/38 | SHALEV-SHWARTZ, Shai | HUMM, Markus |
| B33Y 30/00 | SHASHUA, Amnon | ROSENBERGER, Daniel |
| G01B 7/00 | STEIN, Gideon | (74) ir. W.J.J.M. Kempes |
| B29C 64/393 | (74) dr. A. Krebs | (31) 102018126713 |
| (11) EP4034837 | (31) 201762582687 P | (32) 25.10.2018 |
| (21) EP20781118.3 | 201762565244 P | (33) Germany |
| (22) 23.09.2020 | 201762546343 P | (47) 24.05.2023 |
| (54) AN FFF PRINTING SYSTEM WITH A | 201762445500 P | (51) G01N 15/04 |
| FILAMENT PATH LENGTH MEASURING | (32) 07.11.2017 | G01N 15/05 |
| DEVICE FOR ALIGNMENT OF FEEDER | 29.09.2017 | G01N 15/00 |
| AND PREFEEDER | 16.08.2017 | G01N 21/07 |
| (73) Ultimaker B.V. | 12.01.2017 | G01N 21/31 |
| (72) VAN BEEK, Teun | (33) United States of America | G01N 33/49 |
| VAN LENT, Arend-Jan | United States of America | (11) EP3785013 |
| VAN MANEN, Rijk | United States of America | (21) EP19718829.5 |
| (74) dr. R.C. van Duijvenbode c.s. | United States of America | (22) 11.04.2019 |
| (31) 2023878 | (47) 10.05.2023 | (54) A METHOD AND APPARATUS FOR |
| (32) 23.09.2019 | (51) G01C 21/36 | DETERMINING HAEMOGLOBIN |
| (33) Netherlands | G06K 9/00 | CONCENTRATION |
| (47) 19.07.2023 | (11) EP3721172 | (73) Entia Limited |
| (51) G01B 21/20 | (21) EP19712365.6 | (72) BASEY-FISHER, Toby |
| A61J 1/18 | (22) 05.03.2019 | BURROWS, Christopher |
| B65B 31/00 | (54) SYSTEMS AND METHODS FOR | (74) dr. R.C. van Duijvenbode c.s. |
| B65B 5/00 | ANONYMIZING NAVIGATION | (31) 201806693 |
| B65B 55/00 | INFORMATION | (32) 24.04.2018 |
| B65B 57/00 | (73) Mobileye Vision Technologies Ltd. | (33) United Kingdom |
| B65B 7/00 | (72) VIENTE, Kfir | (47) 07.06.2023 |
| G01B 11/24 | SCHWARTZ, Maxim | (51) G01N 21/64 |
| B65B 7/28 | GDALYAHU, Yoram | (11) EP3714256 |
| B65B 3/00 | SHAPIRA, Dori | (21) EP18881688.8 |
| B65B 55/02 | TAMIR, Achiya Tal | (22) 20.11.2018 |
| B65B 55/08 | BRAUNSTEIN, Daniel | (54) METHOD OF MEASURING |
| B65B 55/10 | NEHUSHTAN, Nimrod | HYDROPHOBIC CONTAMINANTS IN A |
| B65B 57/02 | HAREL, Eli | PULP SLURRY OR A PAPERMAKING |
| G01B 11/25 | (74) dr. A. Krebs | SYSTEM |
| G01N 21/95 | (31) 201962813403 P | (73) Solenis Technologies, L.P. |
| (11) EP3814718 | 201962805646 P | (72) BARRETT, Matthew John |
| (21) EP19800042.4 | 201962805632 P | SHAROYAN, Davit E. |
| (22) 29.04.2019 | 201862771335 P | ZHANG, Fushan |
| (54) METHOD, DEVICE AND SYSTEM | 201862671779 P | (74) dr. T. Wittop Koning PhD |
| FOR FILLING PHARMACEUTICAL | 201862642823 P | (31) 201762589261 P |
| CONTAINERS | 201862638713 P | (32) 21.11.2017 |
| (73) VANRX Pharmsystems Inc. | (32) 04.03.2019 | (33) United States of America |
| (72) GUERRERO, Carlos Alberto Diaz | 14.02.2019 | (47) 26.07.2023 |
| (74) J.M.H. Duyver lic. | 14.02.2019 | (51) G01N 21/65 |
| (31) 201816003166 | 26.11.2018 | A61K 9/00 |
| 201862667661 P | 15.05.2018 | A61K 9/14 |
| (32) 08.06.2018 | 14.03.2018 | G01N 21/85 |
| 07.05.2018 | 05.03.2018 | B01F 35/213 |
| (33) United States of America | (33) United States of America | G01N 21/95 |
| United States of America | United States of America | (11) EP3833964 |
| (47) 07.06.2023 | United States of America | (21) EP19779127.0 |
| (51) G01C 21/34 | United States of America | (22) 07.08.2019 |
| G01C 21/36 | United States of America | (54) APPLICATION OF RAMAN |
| G05D 1/00 | United States of America | SPECTROSCOPY FOR THE |
| G06K 9/00 | United States of America | MANUFACTURE OF INHALATION |
| G05D 1/02 | United States of America | POWDERS |
| G08G 1/16 | (47) 10.05.2023 | (73) Norton (Waterford) Limited |
| B60W 30/095 | (51) G01K 5/48 | (72) SHAH, Hardik Kirtikummar |
| B60W 50/00 | G01K 7/36 | (74) dr. A. Krebs |
| (11) EP3657130 | G01K 7/32 | (31) 201862715463 P |
| | (11) EP3827232 | |

(32) 07.08.2018	(51) G02B 6/00	SIELER, Marcel
(33) United States of America	(11) EP3001229	(74) ir. F.A. Geurts c.s.
(47) 26.07.2023	(21) EP15189567.9	(31) 102012205164
(51) G01N 27/22	(22) 20.05.2010	(32) 29.03.2012
G01N 27/407	(54) FIBER OPTIC EQUIPMENT GUIDES	(33) Germany
(11) EP3622279	AND RAILS CONFIGURED WITH	(47) 10.05.2023
(21) EP18727611.8	STOPPING MEMBER(S)	(51) G02B 27/01
(22) 10.05.2018	(73) Corning Optical Communications LLC	G06F 3/01
(54) METHOD FOR GAS TESTING	(72) Strause, Kevin Lee	G06T 19/00
(73) Carrier Corporation	Makrides-Saravanos, Elli	(11) EP3571535
(72) CHEN, Lei	Works, Antwan J.	(21) EP18741323.2
YANG, Zhiwei	(74) dr. R.C. van Duijvenbode c.s.	(22) 22.01.2018
(74) J.M.H. Duyver lic.	(31) 576806	(54) EYEPIECE FOR VIRTUAL,
(31) 201762505648 P	219233 P	AUGMENTED, OR MIXED REALITY
(32) 12.05.2017	180331 P	SYSTEMS
(33) United States of America	(32) 09.10.2009	(73) Magic Leap, Inc.
(47) 26.07.2023	22.06.2009	(72) KLUG, Michael, Anthony
(51) G01N 33/68	21.05.2009	LIU, Victor, Kai
(11) EP3397970	(33) United States of America	BHARGAVA, Samarath
(21) EP16836233.3	United States of America	BROWY, Eric
(22) 28.12.2016	United States of America	TEKOLSTE, Robert, Dale
(54) METHODS FOR CHARACTERIZING	(47) 28.06.2023	WELCH, William, Hudson
COMPOSITIONS COMPRISING	(51) G02B 26/08	(31) 201762449524 P
PEANUT ANTIGENS	G02B 26/10	(32) 23.01.2017
(73) SANOFI	(11) EP3685208	(33) United States of America
(72) DEMONTIGNY, Pierre	(21) EP18789252.6	(47) 19.07.2023
ALVING, Kim	(22) 20.09.2018	(51) G03B 3/04
WANG, Bing, Huang	(54) A DEVICE AND METHOD FOR	H04N 23/00
(74) ir. W.J.J.M. Kempes	POSITIONING A MOVEABLE MEMBER,	G02B 7/02
(31) 201562272094 P	AND A STEERABLE MIRROR UNIT	G02B 21/36
16306642	INCLUDING SUCH DEVICE	G02B 7/00
(32) 29.12.2015	(73) Nederlandse Organisatie voor toegepast-	G02B 5/28
08.12.2016	natuurwetenschappelijk Onderzoek TNO	(11) EP3493518
(33) United States of America	(72) KUIPER, Stefan	(21) EP17834665.6
European Patent Office (EPO)	(74) ir. H.A. Witmans c.s.	(22) 07.07.2017
(47) 24.05.2023	(31) 17192093	(54) CAMERA MODULE AND METHOD FOR
(51) G01R 22/06	(32) 20.09.2017	ASSEMBLING SAME
G01R 21/00	(33) European Patent Office (EPO)	(73) LG Innotek Co., Ltd.
G06K 17/00	(47) 07.06.2023	(72) PARK, Ji Hwan
H04B 10/25	(51) G02B 27/00	PARK, Dong Wook
G01R 35/00	F21V 8/00	AN, Myoung Jin
G01R 21/01	G02F 1/13357	(74) dr. A. Ellens c.s.
G16Z 99/00	G02B 6/34	(31) 20160102384
(11) EP2912478	G03H 1/02	20160096738
(21) EP13849737.5	G03H 1/22	(32) 11.08.2016
(22) 27.08.2013	G02B 27/01	29.07.2016
(54) METHOD AND APPARATUS FOR	(11) EP3869258	(33) Korea (Republic)
CALIBRATING INTELLIGENT AC	(21) EP21154187.5	Korea (Republic)
OUTLETS	(22) 29.01.2021	(47) 14.06.2023
(73) Elbex Video Ltd.	(54) PUPIL EXPANSION	(51) G03B 21/20
(72) ELBERBAUM, David	(73) Envisics Ltd.	G03B 33/08
(74) ir. A. Blokland c.s.	(72) Christmas, Jamieson	(11) EP3646114
(31) 201213661492	(74) J.M.H. Duyver lic.	(21) EP17916166.6
(32) 26.10.2012	(31) 202002275	(22) 29.06.2017
(33) United States of America	(32) 19.02.2020	(54) PHOSPHOR WHEEL
(47) 31.05.2023	(33) United Kingdom	(73) Materion Precision Optics (Shanghai)
(51) G01V 1/30	(47) 19.07.2023	Limited
G01V 99/00	(51) G02B 27/01	(72) NI, Carter
(11) EP3281044	(11) EP2831660	LI, James
(21) EP15753434.8	(21) EP13712805.4	(74) ir. J.C. Volmer c.s.
(22) 10.04.2015	(22) 28.03.2013	(47) 28.06.2023
(54) METHOD FOR ESTIMATING ELASTIC	(54) PROJECTION DISPLAY AND METHOD	(51) G05B 19/418
PARAMETERS OF SUBSOIL	FOR PROJECTING AN OVERALL	G06K 7/10
(73) TotalEnergies OneTech	IMAGE	G01B 11/245
(72) THORE, Pierre	(73) Fraunhofer-Gesellschaft zur Förderung	(11) EP3391159
(74) dr. R.C. van Duijvenbode c.s.	der angewandten Forschung e.V.	(21) EP16826518.9
(47) 19.07.2023	(72) KRAUS, Matthias	(22) 15.12.2016
	SCHREIBER, Peter	

(54) PERCEPTION SYSTEMS AND METHODS FOR IDENTIFYING AND PROCESSING A VARIETY OF OBJECTS	(47) 17.05.2023 (51) G06F 1/16 H03K 17/96	(32) 28.04.2017 (33) United States of America (47) 24.05.2023
(73) Berkshire Grey Operating Company, Inc.	(11) EP3770724 (21) EP20183741.6	(51) G06F 5/06 G06F 3/06 G06F 5/16
(72) GEYER, Christopher PRICE, Gene Temple KOLETSCHKA, Thomas VELAGAPUDI, Prasanna COHEN, Benjamin SMITH, Daniel WAGNER, Thomas SRINIVASA, Siddhartha ROMANO, Joseph MASON, Matthew MARONEY, Kyle ALLEN, Thomas AHEARN, Kevin DAWSON-HAGGERTY, Michael	(22) 02.07.2020 (54) COMPACT HOME ASSISTANT HAVING TOUCH SENSITIVE HOUSING (73) Google LLC (72) KWAN, Laurie TAK, Jung Geun SACHS, Daniel WODRICH, Justin Richard VANDERET, Timothy Michael (74) dr. R.C. van Duijvenbode c.s. (31) 202016898252 201962878269 P (32) 10.06.2020 24.07.2019	(11) EP4033347 (21) EP21855229.7 (22) 18.06.2021 (54) FIRST IN FIRST OUT MEMORY AND STORAGE DEVICE (73) Changxin Memory Technologies, Inc. (72) GAO, Enpeng (74) ir. H.A. Witmans c.s. (31) 202010806232 (32) 12.08.2020 (33) China (47) 05.07.2023
(74) ir. W.J.J.M. Kempes (31) 201615228692 201562269640 P (32) 04.08.2016 18.12.2015 (33) United States of America United States of America (47) 31.05.2023	(33) United States of America United States of America (47) 31.05.2023 (51) G06F 3/041 G06F 3/044 (11) EP3803550 (21) EP19729346.7 (22) 06.06.2019 (54) PRESSURE SENSING APPARATUS AND METHOD (73) Cambridge Touch Technologies Ltd. (72) ASTLEY, Michael NATHAN, Arokia CHENG, Xiang BASTANI, Babak MICCI, Riccardo LI, Jiahao ROUTLEY, Paul	(51) G06F 9/455 G06F 9/54 (11) EP3908928 (21) EP19845934.9 (22) 31.12.2019 (54) LOW-LATENCY EVENTS ACROSS A VIRTUAL MACHINE BOUNDARY (73) Microsoft Technology Licensing, LLC (72) BAK, Yevgeniy EBERSOL, Michael BROAS, Kevin DENBOW, Shawn, Michael KLEYNHANS, Christopher Peter HUFNAGEL, Stephen, Louis-Essman LIU, Wen Jia KARADEMIR, Ahmed, Saruhan IYIGUN, Mehmet LIN, Jason COLOMBO, Gregory, John (74) dr. R.C. van Duijvenbode c.s. (31) 201916243938 (32) 09.01.2019 (33) United States of America (47) 12.07.2023
(51) G05D 23/19 F24D 19/10 (11) EP4016236 (21) EP20215547.9 (22) 18.12.2020 (54) METHOD AND SYSTEM FOR KEEPING FLUID FLOW CONSTANT IN A RADIATOR (73) Danfoss A/S (72) Gammeljord, Peter Hesseldahl, Søren (74) dr. R.C. van Duijvenbode c.s. (47) 12.07.2023	(32) 06.06.2018 21.05.2019 (33) United Kingdom World Intellectual Property Office (WIPO) (47) 26.07.2023 (51) G06F 3/042 (11) EP3455707 (21) EP17735248.1 (22) 27.04.2017 (54) A TOUCH PANEL (73) Sensobright Industries, LLC (72) Buyuksahin, Utku (74) J.M.H. Duyver lic. (31) 201606367 (32) 13.05.2016 (33) Türkiye (47) 24.05.2023	(51) G06F 11/10 (11) EP3809268 (21) EP20206209.7 (22) 15.03.2018 (54) BYPASSING ERROR CORRECTION CODE (ECC) PROCESSING BASED ON SOFTWARE HINT (73) INTEL Corporation (72) APPU, Abhishek R. KOKER, Altug VEERNAPU, Kiran C. RAY, Joydeep (74) ir. W.J.J.M. Kempes (31) 201715489041 (32) 17.04.2017 (33) United States of America (47) 07.06.2023
(51) G05D 23/19 F24F 11/30 F24F 11/52 (11) EP2564282 (21) EP11842181.7 (22) 18.11.2011 (54) USER FRIENDLY INTERFACE FOR CONTROL UNIT (73) Google LLC (72) FADELL, Anthony SLOO, David BOULD, Fred MATAS, Michael PLITKINS, Michael ROGERS, Matthew (74) dr. R.C. van Duijvenbode c.s. (31) 201113269501 201113033573 201061429093 P 415771 P (32) 07.10.2011 23.02.2011 31.12.2010 19.11.2010 (33) United States of America United States of America United States of America United States of America	(32) 06.06.2018 21.05.2019 (33) United Kingdom World Intellectual Property Office (WIPO) (47) 26.07.2023 (51) G06F 3/042 (11) EP3455707 (21) EP17735248.1 (22) 27.04.2017 (54) A TOUCH PANEL (73) Sensobright Industries, LLC (72) Buyuksahin, Utku (74) J.M.H. Duyver lic. (31) 201606367 (32) 13.05.2016 (33) Türkiye (47) 24.05.2023 (51) G06F 3/06 (11) EP3616044 (21) EP18719337.0 (22) 23.03.2018 (54) METHODS FOR PERFORMING GLOBAL DEDUPLICATION ON DATA BLOCKS AND DEVICES THEREOF (73) NetApp, Inc. (72) KATIYAR, Manish (74) J.M.H. Duyver lic. (31) 201715581512	(51) G06F 16/583 G06F 16/2455 G16H 20/17 G16H 30/20 G16H 40/67 G16H 20/10 A61M 5/20 (11) EP3195163 (21) EP15824123.2

(22) 21.07.2015	G06F 21/60	(74) ir. W.J.J.M. Kempes
(54) SYSTEM AND METHOD FOR DETECTING ACTIVATION OF A MEDICAL DELIVERY DEVICE	H04L 9/06 H04L 9/08 H04L 9/32	(31) 201662299819 P (32) 25.02.2016 (33) United States of America (47) 07.06.2023
(73) Amgen Inc. Connectmesmart GmbH	G06F 9/30 G06F 12/14	(47) 07.06.2023
(72) BAUSS, Markus ALBRECHT, Sabine	G06F 9/35 (11) EP3761210	(51) G06F 40/00 G06F 11/07 G06F 11/34 G06F 11/30 G06F 11/36 G06N 3/08
(74) ir. W.J.J.M. Kempes	(21) EP20168972.6	(11) EP3929796
(31) 201462027750 P	(22) 17.03.2020	(21) EP20213989.5
(32) 22.07.2014	(54) CRYPTOGRAPHIC COMPUTING	(22) 15.12.2020
(33) United States of America	USING ENCRYPTED BASE	(54) SELF-SUPERVISED LEARNING
(47) 10.05.2023	ADDRESSES AND USED IN MULTI- TENANT ENVIRONMENTS	SYSTEM FOR ANOMALY DETECTION WITH NATURAL LANGUAGE PROCESSING AND AUTOMATIC REMIEDIATION
(51) G06F 21/44	(73) Intel Corporation	(73) INTEL Corporation
B41J 2/00	(72) BRANDT, Jason	(72) Turek, Javier Sebastian
G06F 21/60	JAYARAM MASTI, Ramya	Martinez-Spessot, Cesar
B41J 2/175	NEIGER, Gilbert	Guzman, Mateo
(11) EP4060529	LEMAY, Michael	Oliver, Dario
(21) EP22172621.9	DURHAM, David M	Carranza, Marocs
(22) 31.07.2013	(74) ir. W.J.J.M. Kempes	Perez-Ramirez, Javier
(54) PROTECTING DATA IN MEMORY OF A CONSUMABLE PRODUCT	(31) 202016740359	Vo, Vy
(73) Hewlett-Packard Development Company, L.P.	201916724026	(74) ir. W.J.J.M. Kempes
(72) PANSHIN, Stephen D.	201916723871	(31) 202016914300
JERAN, Paul L.	201916723977	(32) 27.06.2020
WARD, Jefferson P.	201916724105	(33) United States of America
(74) ir. W.J.J.M. Kempes	201916723927	(47) 31.05.2023
(47) 19.07.2023	201916722342	(51) G06N 5/04
(51) G06F 21/56	201916722707	A62C 3/00
G06F 21/55	201916724059	A62C 3/16
G06F 21/50	201916723468	B64D 25/00
H04L 9/40	201962868884 P	B64D 45/00
(11) EP3948609	(32) 10.01.2020	G01N 33/00
(21) EP20782379.0	20.12.2019	G06Q 10/08
(22) 13.02.2020	20.12.2019	G08B 19/00
(54) DEFANGING MALICIOUS ELECTRONIC FILES BASED ON TRUSTED USER REPORTING	20.12.2019	H02J 7/00
(73) Material Security Inc.	20.12.2019	H04L 67/04
(72) NOON, Ryan M.	20.12.2019	H04L 67/12
PARK, Christopher J.	20.12.2019	H04L 67/52
AGRAWAL, Abhishek	29.06.2019	H04L 67/53
(74) dr. R.C. van Duijvenbode c.s.	(33) United States of America	H04L 69/28
(31) 201916376982	United States of America	H04Q 9/00
(32) 05.04.2019	United States of America	H04W 4/38
(33) United States of America	United States of America	H04W 8/00
(47) 12.07.2023	United States of America	H04W 24/08
(51) G06F 21/62	United States of America	H04W 12/00
H04W 12/02	United States of America	G06Q 10/0832
(11) EP4060543	United States of America	(11) EP3815004
(21) EP21191224.1	United States of America	(21) EP19861967.8
(22) 13.08.2021	United States of America	(22) 11.09.2019
(54) SYSTEM AND METHOD FOR RISK AWARE DATA ANONYMIZATION	United States of America	(54) METHODS FOR DETECTING AN ENVIRONMENTAL ANOMALY AND INITIATING AN ENHANCED AUTOMATIC RESPONSE
(73) Tata Consultancy Services Limited	(47) 07.06.2023	(73) Fedex Corporate Services, Inc.
(72) Lodha, Sachin Premsukh	(51) G06F 30/00	(72) SKAAKSUD, Ole-Petter
Saurabh, Saket	B33Y 50/02	(74) J.M.H. Duyver lic.
Gharote, Mangesh Sharad	G03G 15/22	(31) 201862735075 P
Ramamurthy, Arun	G06F 113/10	(32) 22.09.2018
Mondal, Sutapa	(11) EP3420481	(33) United States of America
(74) dr. ir. G.J.C. Verdijck c.s.	(21) EP17710093.0	(47) 19.07.2023
(31) 202121011145	(22) 24.02.2017	(51) G06Q 10/06
(32) 16.03.2021	(54) GPU MATERIAL ASSIGNMENT FOR 3D PRINTING USING 3D DISTANCE FIELDS	G08B 21/04
(33) India	(73) Stratasys Ltd.	
(47) 21.06.2023	(72) DEMAI, Stephen	
(51) G06F 21/78	COURTER, Blake Zachary	
G06F 21/72		

(11) EP3776396	H04L 9/32	(54) METHOD AND DEVICE FOR
(21) EP19722740.8	(11) EP3479325	DETECTING A SECURITY THREAD IN
(22) 04.04.2019	(21) EP17733482.8	A VALUE DOCUMENT
(54) DETECTING ABNORMAL BEHAVIOR IN	(22) 30.06.2017	(73) Giesecke+Devrient Currency Technology
SMART BUILDINGS	(54) METHOD FOR AUTHENTICATING	GmbH
(73) Carrier Corporation	PAYMENT DATA, CORRESPONDING	(72) FEULNER, Johannes
(72) SMITH, Fabrizio	DEVICES AND PROGRAMS	SCHMALZ, Steffen
HIGLEY, Jason	(73) Banks and Acquirers International	(74) ir. W.J.J.M. Kempes
RUCCO, Matteo	Holding	(31) 102016015559
FERRARI, Alberto	(72) GERAUD, Rémi	(32) 27.12.2016
(74) J.M.H. Duyver lic.	(74) ir. W.J.J.M. Kempes	(33) Germany
(31) 201862654637 P	(31) 1656239	(47) 19.07.2023
(32) 09.04.2018	(32) 30.06.2016	(51) G09G 3/32
(33) United States of America	(33) France	(11) EP2701142
(47) 02.08.2023	(47) 31.05.2023	(21) EP13178175.9
(51) G06Q 20/18	(51) G06T 7/00	(22) 26.07.2013
G06Q 30/02	G06T 7/11	(54) Emission control driver and organic light
G07F 19/00	G06N 3/084	emitting display device having the same
(11) EP3349160	G06N 20/00	(73) Samsung Display Co., Ltd.
(21) EP18150876.3	G06T 7/187	(72) Jang, Hwan Soo
(22) 09.01.2018	G06N 5/04	(74) ir. H.A. Witmans c.s.
(54) METHOD OF TRANSMITTING DATA,	G06N 3/04	(31) 20120091442
CORRESPONDING DEVICE AND	(11) EP3825957	(32) 21.08.2012
PROGRAM	(21) EP19838449.7	(33) Korea (Republic)
(73) Banks and Acquirers International	(22) 11.07.2019	(47) 17.05.2023
Holding	(54) CONSTRUCTION METHOD,	(51) G10L 19/02
(72) QUENTIN, Pierre	INSPECTION METHOD, AND	G10L 21/02
(74) ir. W.J.J.M. Kempes	PROGRAM FOR IMAGE DATA WITH	H03M 7/30
(31) 1750356	LABEL, AND CONSTRUCTION DEVICE	G10L 19/022
(32) 17.01.2017	AND INSPECTION DEVICE FOR IMAGE	H03M 7/40
(33) France	DATA WITH LABEL	(11) EP3937167
(47) 31.05.2023	(73) Tohoshoji Kabushiki Kaisha	(21) EP21190867.8
(51) G06Q 20/18	Kabushiki Kaisha N-Tech	(22) 18.05.2009
G06Q 30/02	Kabushiki Kaisha Yakult Honsha	(54) AUDIO ENCODER AND AUDIO
G07F 19/00	(72) TOYOSHIMA Kunimitsu	DECODER
(11) EP3349161	KIBE Hiroyuki	(73) Fraunhofer-Gesellschaft zur Förderung
(21) EP18150881.3	BANNO Kazumi	der angewandten Forschung e.V.
(22) 09.01.2018	YAMAGISHI Yuichi	(72) MULTRUS, Markus
(54) METHOD OF HANDLING A PAYMENT	(74) dr. R.C. van Duijvenbode c.s.	RETTELBACH, Nikolaus
TRANSACTION, CORRESPONDING	(31) 2018137179	FUCHS, Guillaume
PAYMENT TERMINAL AND PROGRAM	(32) 20.07.2018	BACIGALUPO, Virgilio
(73) Banks and Acquirers International	(33) Japan	GRILL, Bernhard
Holding	(47) 19.07.2023	GEYERSBERGER, Stefan
(72) QUENTIN, Pierre	(51) G06T 11/00	(74) ir. F.A. Geurts c.s.
(74) ir. W.J.J.M. Kempes	G01T 1/24	(31) 1382008 P
(31) 1750355	A61B 6/00	7984208 P
(32) 17.01.2017	G01T 1/17	(32) 08.10.2008
(33) France	(11) EP3403239	11.07.2008
(47) 31.05.2023	(21) EP16885284.6	(33) United States of America
(51) G06Q 20/20	(22) 03.05.2016	United States of America
G06Q 20/32	(54) A MEASUREMENT CIRCUIT FOR	(47) 10.05.2023
G06Q 20/38	AN X-RAY DETECTOR, AND A	(51) G11B 7/128
(11) EP3447706	CORRESPONDING METHOD AND X-	G11B 7/1362
(21) EP18190601.7	RAY IMAGING SYSTEM	G11B 7/1395
(22) 23.08.2018	(73) Prismatic Sensors AB	G11B 7/0045
(54) DISTRIBUTING PAYMENT KEYS	(72) SJÖLIN, Martin	(11) EP3665678
AMONG MULTIPLE DISCRETE	(74) dr. R.C. van Duijvenbode c.s.	(21) EP18740410.8
DEVICES IN A POINT OF SALE	(31) 201662278736 P	(22) 21.06.2018
SYSTEM	(32) 14.01.2016	(54) MULTI-BEAM OPTICAL SYSTEM FOR
(73) Clover Network, LLC	(33) United States of America	FAST WRITING OF DATA ON GLASS
(72) MURRAY, Brian Jeremiah	(47) 12.07.2023	(73) Microsoft Technology Licensing, LLC
(74) ir. C.G.C. Veldman-Dijkers	(51) G07D 7/004	(72) KOLLIN, Joel Steven
(31) 201715685809	G07D 7/04	GEORGIOU, Andreas
(32) 24.08.2017	(11) EP3563356	DIAZ, Ariel Gomez
(33) United States of America	(21) EP17826138.4	(74) J.M.H. Duyver lic.
(47) 02.08.2023	(22) 22.12.2017	(31) 201715699597
(51) G06Q 20/34		201762542739 P
G07F 7/08		(32) 08.09.2017

08.08.2017	ROTA, Daniel	LI, Xiaolei
(33) United States of America	(74) dr. R.C. van Duijvenbode c.s.	(74) ir. M.B. Plaggenborg
United States of America	(31) 1914942	(31) 201710997549
(47) 19.07.2023	(32) 18.12.2019	(32) 24.10.2017
(51) G21G 1/00	(33) France	(33) China
A61K 51/00	(47) 26.07.2023	(47) 09.08.2023
A61M 36/00	(51) H01L 23/367	(51) H01L 33/54
A61K 51/12	H01L 23/13	(11) EP3565012
(11) EP3696824	H01L 23/538	(21) EP19169748.1
(21) EP20166557.7	H05K 1/02	(22) 17.04.2019
(22) 26.10.2012	H05K 3/46	(54) METHOD FOR MANUFACTURING A LAMP AND LAMP FOR SAME
(54) RUBIDIUM ELUTION SYSTEM CONTROL	H02M 1/00	(73) FLASHAAR LEDLight GmbH & Co. KG
(73) Jubilant Draximage, Inc.	H01L 25/11	(72) FLASHAAR-BLOEDORN, Swen
Ottawa Heart Institute Research Corporation	(11) EP4080560	FITTING, Dan
(72) TEOLI, Vincenzo	(21) EP22161039.7	(74) ir. W.J.J.M. Kempes
DEKEMP, Robert A.	(22) 09.03.2022	(31) 102018110389
LEFORT, Étienne	(54) CARRIER BOARD AND POWER MODULE USING SAME	(32) 30.04.2018
KLEIN, Ran	(73) Delta Electronics (Shanghai) Co., Ltd.	(33) Germany
(74) dr. R.C. van Duijvenbode c.s.	(72) Zhou, Ganyu	(47) 07.06.2023
(31) 201261697244 P	Ji, Chao	(51) H01M 4/64
(32) 05.09.2012	Xu, Haibin	H01M 4/13
(33) United States of America	Hong, Shouyu	H01M 4/04
(47) 19.07.2023	Sun, Liping	H01M 4/131
(51) H01B 5/06	Zou, Xin	H01M 4/1391
H02G 5/10	Wang, Tao	H01M 4/66
(11) EP3832667	Zhang, Weiqiang	H01M 4/02
(21) EP19213538.2	(74) ir. H.A. Witmans c.s.	H01M 10/0525
(22) 04.12.2019	(31) 202110426217	(11) EP3923388
(54) SEMIFINISHED PROFILE FOR USE AS A CONDUCTOR	(32) 20.04.2021	(21) EP19924692.7
(73) Siemens Energy Global GmbH & Co. KG	(33) China	(22) 27.12.2019
(72) Schröder, Dirk	(47) 07.06.2023	(54) ELECTRODE SHEETS, ELECTROCHEMICAL DEVICE AND DEVICE
Rohmann, Mariusz	(51) H01L 31/0232	(73) Contemporary Amperex Technology Co., Limited
(74) dr. R.C. van Duijvenbode c.s.	H01L 31/054	(72) ZHANG, Zige
(47) 07.06.2023	H01L 31/048	XUE, Qingrui
(51) H01F 29/10	(11) EP3734670	LU, Yang
H01F 21/10	(21) EP18894967.1	LI, Wei
(11) EP3977493	(22) 07.12.2018	LI, Jing
(21) EP20729682.3	(54) PHOTOVOLTAIC POWER GENERATION MODULE	ZHANG, Yang
(22) 27.05.2020	(73) POSCO Co., Ltd	(74) ir. W.J.J.M. Kempes
(54) INDUCTIVE COMPONENT AND METHOD FOR ADJUSTING AN INDUCTANCE	Research Institute of Industrial Science & Technology	(31) 201910299297
(73) Philip Morris Products, S.A.	(72) KIM, Jun-Hong	(32) 15.04.2019
(72) WEBER, Stefan	BAEK, Kun-Hoon	(33) China
FREY, Jürgen	KIM, A-Rong	(47) 21.06.2023
FURSA, Oleg	TARK, Sung-Ju	(51) H01M 10/0525
(74) dr. W.A.H.M. Van Borm	KIM, Tae-Won	H01M 10/0567
(31) 102019114508	(74) dr. R.C. van Duijvenbode c.s.	H01M 10/0569
(32) 29.05.2019	(31) 20170180272	H01M 4/505
(33) Germany	(32) 26.12.2017	H01M 4/525
(47) 05.07.2023	(33) Korea (Republic)	H01M 4/587
(51) H01H 9/26	(47) 17.05.2023	(11) EP3528330
H01H 9/40	(51) H01L 31/0352	(21) EP19156498.8
H01H 71/10	H01G 9/20	(22) 21.08.2015
(11) EP3839997	H10K 30/15	(54) NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY
(21) EP20215137.9	(11) EP3553830	(73) Mitsubishi Chemical Corporation
(22) 17.12.2020	(21) EP18871336.6	MU Ionic Solutions Corporation
(54) MULTIPOLAR ELECTRICAL PROTECTION SYSTEM AND ELECTRICAL INSTALLATION COMPRISING SUCH A SYSTEM	(22) 09.08.2018	(72) NAKAZAWA, Eiji
(73) Schneider Electric Industries SAS	(54) FERROELECTRIC-ENHANCED SOLAR CELL AND PREPARATION METHOD THEREFOR	OOHASHI, Youichi
(72) DYE, Stephane	(73) Huazhong University of Science and Technology	WATARAI, Atsushi
RIVAL, Marc	(72) LIU, Shuang	(74) ir. F.A. Geurts c.s.
DOMENECH, Cyril	ZHANG, Deyi	(31) 2014177370
	HAN, Hongwei	2014176614
	MEI, Anyi	2014169660
		(32) 01.09.2014

29.08.2014	H01Q 9/30	H02M 1/00
22.08.2014	H01Q 1/24	(11) EP3921934
(33) Japan	H01Q 5/378	(21) EP19726836.0
Japan	H01Q 21/08	(22) 10.05.2019
Japan	H01Q 1/22	(54) SWITCHED CAPACITOR CONVERTER AND CONTROL METHOD
(47) 26.07.2023	H01Q 21/06	(73) Huawei Digital Power Technologies Co., Ltd.
(51) H01Q 1/22	(11) EP3905434	(72) LI, Yushan
H01Q 1/24	(21) EP19904004.9	(74) ir. W.J.J.M. Kempes
H01Q 1/52	(22) 11.12.2019	(47) 26.07.2023
H01L 23/552	(54) ANTENNA STRUCTURE AND TERMINAL DEVICE	(51) H02P 3/02
H01L 23/66	(73) VIVO MOBILE COMMUNICATION CO., LTD.	H02P 6/24
H01L 25/065	(72) WANG, Yijin	H02P 6/16
H01Q 9/04	JIAN, Xianjing	(11) EP3772171
H01Q 9/06	(74) J.M.H. Duyver lic.	(21) EP20159463.7
H01Q 9/26	(31) 201811621911	(22) 26.02.2020
H01Q 21/28	(32) 28.12.2018	(54) EC MOTOR WITH REDUCED POWER CONSUMPTION IN STANDSTILL MODE
H01L 23/31	(33) China	(73) ebm-papst Landshut GmbH
(11) EP3688835	(47) 19.07.2023	(72) GOLDNER, Robert
(21) EP18792677.9	(51) H02J 3/00	HOLZNER, Markus
(22) 28.09.2018	H02J 3/02	(74) ir. W.J.J.M. Kempes
(54) ANTENNA MODULE CONFIGURATIONS	(11) EP3832828	(31) 102019120888
(73) Qualcomm Incorporated	(21) EP19212874.2	(32) 02.08.2019
(72) WILBER, Clinton James	(22) 02.12.2019	(33) Germany
WANG, Kevin Hsi Huai	(54) POWER SUPPLY GRID SYSTEM	(47) 24.05.2023
KUMAR, Rajneesh	(73) TenneT TSO GmbH	(51) H02S 40/32
MYERS, Thomas	(72) Lebioda, Thomas Jan	(11) EP3692630
KIM, Jeong Il	Wehling, Frank	(21) EP18812332.7
SZABO, Jordan	Michelsen, Sönke	(22) 02.10.2018
JEONG, Seong Heon	Wolf, Matthias	(54) INSULATION PIERCING CABLE CONNECTION SYSTEM
YANG, Taesik	(74) ir. W.J.J.M. Kempes	(73) Nederlandse Organisatie voor toegepast-natuurwetenschappelijk Onderzoek TNO
BURNS, Neil	(47) 10.05.2023	(72) HAKKESTEEGT, Hendrik Cornelis
JESSIE, Darryl	(51) H02M 1/10	KLERKS, Stan Anton Willem
ZEGARRA, Julio	H02M 1/10	(74) ir. H.A. Witmans c.s.
SAHOTA, Gurkanwal	H02J 7/00	(31) 17194299
TASSOUDJI, Mohammad Ali	H02M 7/797	(32) 02.10.2017
(74) dr. R.C. van Duijvenbode c.s.	H02J 7/14	(33) European Patent Office (EPO)
(31) 201816145100	(11) EP3878086	(47) 05.07.2023
201862688995 P	(21) EP19805416.5	(51) H03F 1/02
201762586839 P	(22) 06.11.2019	H03F 3/19
201762566318 P	(54) CONTROLLING UNIT	H03F 3/21
(32) 27.09.2018	(73) Vetus B.V.	(11) EP3675355
22.06.2018	(72) ROELING, Arthur Johannes Maria	(21) EP18248077.2
15.11.2017	Wilhelmus	(22) 27.12.2018
30.09.2017	SCHMIDT, Frederik Ferdinand	(54) DIGITAL ENVELOP TRACKER FOR POWER AMPLIFIER
(33) United States of America	(74) dr. T. Wittop Koning PhD	(73) INTEL Corporation
United States of America	(31) 2021974	(72) SCHUMACHER, Otto
United States of America	(32) 11.11.2018	KRANZ, Christian
United States of America	(33) Netherlands	HENZLER, Stephan
(47) 05.07.2023	(47) 07.06.2023	SOGL, Bernhard
(51) H01Q 1/44	(51) H02M 1/42	(74) ir. W.J.J.M. Kempes
G06F 3/01	H02M 1/12	(47) 05.07.2023
G06F 1/16	(11) EP3965276	(51) H03K 19/00
H04M 1/02	(21) EP21164285.5	H03K 19/094
H01Q 1/24	(22) 23.03.2021	G11C 7/10
(11) EP3994871	(54) FILTER CIRCUIT WITH HARMONIC COMPENSATION	(11) EP3934102
(21) EP19756363.8	(73) Delta Electronics, Inc.	(21) EP19943007.5
(22) 21.08.2019	(72) CHEN, Wei-Ting	(22) 22.11.2019
(54) DISPLAY STACK FOR ELECTRONIC DEVICE	HSU, Chia-Chang	(54) MULTI-STAGE DRIVE DATA TRANSMISSION CIRCUIT AND DATA TRANSMISSION METHOD
(73) Huawei Technologies Co., Ltd.	CHEN, Sheng-Jian	(73) Changxin Memory Technologies, Inc.
(72) MÁKI, Jouni, Tapio	(74) dr. A. Ellens c.s.	(72) JI, Kangling
MAATTANEN, Sami	(31) 202010914355	
(74) ir. W.J.J.M. Kempes	(32) 03.09.2020	
(47) 31.05.2023	(33) China	
(51) H01Q 1/48	(47) 05.07.2023	
H01Q 5/307	(51) H02M 3/07	
H01Q 9/04		

(74) ir. H.A. Witmans c.s. (31) 201910786276 (32) 23.08.2019 (33) China (47) 05.07.2023	(72) MU, Qin (74) J.M.H. Duyver lic. (47) 05.07.2023	(22) 28.08.2020 (54) AGGREGATING MESSAGES INTO A SINGLE TRANSMISSION
(51) H04B 7/0417 H04L 5/00 H04B 7/06 (11) EP3692643 (21) EP18792517.7 (22) 02.10.2018 (54) EFFICIENT SRS RESOURCE INDICATION METHODS	(51) H04L 5/00 H04W 72/04 H04W 72/23 (11) EP3661095 (21) EP18838254.3 (22) 06.07.2018 (54) BWP CONTROL METHOD, RELATED DEVICE, AND SYSTEM	(73) BlackBerry Limited (72) MONTEMURRO, Michael Peter LEPP, James Randolph Winter McCann, Stephen (74) ir. W.J.J.M. Kempes (31) 201916677813 (32) 08.11.2019 (33) United States of America (47) 12.07.2023
(73) Telefonaktiebolaget LM Ericsson (publ) (72) HARRISON, Robert Mark PETERSSON, Sven FAXÉR, Sebastian NILSSON, Andreas (74) dr. R.C. van Duijvenbode c.s. (31) 201762567156 P (32) 02.10.2017 (33) United States of America (47) 12.07.2023	(73) Vivo Mobile Communication Co., Ltd. (72) JIANG, Lei LU, Zhi SUN, Peng BAO, Wei (74) J.M.H. Duyver lic. (31) 201710619628 (32) 26.07.2017 (33) China (47) 26.07.2023	(51) H04L 51/212 H04L 61/4511 G06F 15/16 H04L 101/33 (11) EP3764623 (21) EP20186464.2 (22) 29.01.2016 (54) CENTRALIZED VALIDATION OF EMAIL SENDERS VIA EHLO NAME AND IP ADDRESS TARGETING
(51) H04B 7/06 H04B 7/08 H04W 76/28 (11) EP3337055 (21) EP17203456.3 (22) 24.11.2017 (54) METHOD AND APPARATUS FOR BEAM MANAGEMENT IN A WIRELESS COMMUNICATION SYSTEM	(51) H04L 7/00 (11) EP3596897 (21) EP18711895.5 (22) 14.03.2018 (54) AUTHENTICATED CONFIRMATION AND ACTIVATION MESSAGE	(73) Valimail Inc. (72) GOLDSTEIN, Peter, Martin (74) dr. R.C. van Duijvenbode c.s. (31) 201562116409 P (32) 14.02.2015 (33) United States of America (47) 28.06.2023
(73) ASUSTek Computer Inc. (72) GUO, Yu-Hsuan KUO, Richard Lee-Chee OU, Meng-Hui TSAI, Hsin-Hsi (74) dr. ir. G.J.C. Verdijck c.s. (31) 201662433444 P (32) 13.12.2016 (33) United States of America (47) 05.07.2023	(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. (72) KILIAN, Gerd BERNHARD, Josef KNEISSL, Jakob SOLLER, Dominik OBERNOSTERER, Frank WECHSLER, Johannes MEYER, Raimund (74) ir. F.A. Geurts c.s. (31) 102017204184 (32) 14.03.2017 (33) Germany (47) 24.05.2023	(51) H04L 67/568 (11) EP4000240 (21) EP20750140.4 (22) 16.07.2020 (54) EXTENSION FOR TARGETED INVALIDATION OF CACHED ASSETS
(51) H04L 5/00 H04L 27/26 (11) EP3272051 (21) EP15712297.9 (22) 17.03.2015 (54) METHOD, APPARATUS, SYSTEM AND COMPUTER PROGRAM FOR LTE CARRIER BANDWIDTH EXTENSION USING INCREASED SUBCARRIER SPACING	(51) H04L 7/00 H04J 14/02 H04L 25/14 H04J 7/00 H04B 10/40 (11) EP3080943 (21) EP14819225.5 (22) 08.12.2014 (54) OPTICAL TRANSCEIVER AND METHOD WITH CHANNEL BINDING, CLOCK FORWARDING, AND INTEGRATE-AND-DUMP RECEIVERS	(73) Netflix, Inc. (72) NEWTON, Christopher (74) dr. R.C. van Duijvenbode c.s. (31) 202016926555 201962875475 P (32) 10.07.2020 17.07.2019 (33) United States of America United States of America (47) 28.06.2023
(73) Nokia Solutions and Networks Oy (72) HOOLI, Kari Juhani LAHETKANGAS, Eeva TIIROLA, Esa Tapani PAJUKOSKI, Kari Pekka (74) ir. W.J.J.M. Kempes (47) 19.07.2023	(73) Ciena Corporation (72) FRANKEL, Michael, Y. PELEKHATY, Vladmir (74) J.M.H. Duyver lic. (31) 201314104534 (32) 12.12.2013 (33) United States of America (47) 19.07.2023	(51) H04M 1/02 G06F 1/16 E05B 47/00 (11) EP3905863 (21) EP19904395.1 (22) 26.12.2019 (54) TERMINAL DEVICE (73) VIVO MOBILE COMMUNICATION CO., LTD. (72) LI, Yaohui (74) J.M.H. Duyver lic. (31) 201811635759 (32) 29.12.2018 (33) China (47) 19.07.2023
(51) H04L 5/00 H04W 4/70 H04L 5/14 (11) EP3826208 (21) EP18926721.4 (22) 17.07.2018 (54) DATA TRANSMISSION METHOD AND APPARATUS, AND STORAGE MEDIUM	(51) H04L 47/41 H04L 47/283 H04L 47/2441 H04L 47/2416 H04L 47/24 (11) EP3820093 (21) EP20193497.3	(51) H04N 5/77 G06F 3/01 G06F 3/02 G06F 3/04845 G06F 3/04883 G06F 3/04886 (11) EP3253043 (21) EP15906018.5
(73) Beijing Xiaomi Mobile Software Co., Ltd.		

(22) 13.10.2015	SUNG, Jaewon	(51) H04W 4/50
(54) SHOOTING METHOD AND MOBILE DEVICE	JEON, Byeongmoon	H04W 4/70
(73) Huawei Technologies Co., Ltd.	KIM, Jungsun	H04W 60/00
(72) WANG, Kongqiao	(74) J.M.H. Duyver lic.	(11) EP3714611
(74) ir. W.J.J.M. Kempes	(31) 20110032376	(21) EP19776784.1
(47) 24.05.2023	201161466446 P	(22) 01.04.2019
(51) H04N 11/04	201161454995 P	(54) METHOD AND APPARATUS FOR PROVIDING CELLULAR IOT SERVICE IN MOBILE COMMUNICATION SYSTEM
H04N 19/176	201161432202 P	(73) Samsung Electronics Co., Ltd.
H04N 19/119	201061424681 P	(72) KIM, Sunghoon
H04N 19/109	37328610 P	BAEK, Youngkyo
H04N 19/157	32230110 P	SON, Jungje
H04N 19/577	(32) 07.04.2011	(74) dr. R.C. van Duijvenbode c.s.
H04N 19/513	22.03.2011	(31) 20180072996
G06T 9/00	21.03.2011	20180037769
H04N 19/117	13.01.2011	(32) 25.06.2018
H04N 19/186	20.12.2010	30.03.2018
H04N 19/523	13.08.2010	(33) Korea (Republic)
H04N 19/59	09.04.2010	Korea (Republic)
(11) EP3672238	(33) Korea (Republic)	(47) 19.07.2023
(21) EP20156188.3	United States of America	(51) H04W 8/30
(22) 08.11.2011	United States of America	H04W 60/04
(54) IMAGE DECODING METHOD AND IMAGE ENCODING METHOD	United States of America	H04W 76/38
(73) Kabushiki Kaisha Toshiba	United States of America	H04W 76/30
(72) YAMAKAGE, Tomoo	(47) 26.07.2023	(11) EP3879897
CHUJJOH, Takeshi	(51) H04N 19/70	(21) EP19881758.7
(74) ir. H.A. Witmans c.s.	(11) EP3123726	(22) 04.11.2019
(47) 07.06.2023	(21) EP15768859.9	(54) WIRELESS COMMUNICATION METHODS, TERMINAL DEVICE AND NETWORK DEVICE
(51) H04N 19/102	(22) 24.03.2015	(73) VIVO MOBILE COMMUNICATION CO., LTD.
H04N 19/13	(54) GENERIC USE OF HEVC SEI MESSAGES FOR MULTI-LAYER CODECS	(72) WANG, Wen
H04N 19/51	(73) Qualcomm Incorporated	KANG, Yanchao
H04N 19/583	(72) RAMASUBRAMONIAN, Adarsh Krishnan	(74) J.M.H. Duyver lic.
H04N 19/70	HENDRY, Fnu	(31) 201811320312
H04N 19/105	WANG, Ye-Kui	(32) 07.11.2018
H04N 19/134	(74) dr. R.C. van Duijvenbode c.s.	(33) China
H04N 19/577	(31) 201514665999	(47) 19.07.2023
(11) EP4007276	201461969797 P	(51) H04W 12/06
(21) EP22152651.0	(32) 23.03.2015	H04W 12/041
(22) 24.05.2012	24.03.2014	H04W 12/122
(54) APPARATUS, METHOD AND PROGRAM FOR CODING MOVING PICTURES	(33) United States of America	H04W 12/00
(73) Sun Patent Trust	United States of America	H04L 9/32
(72) TANIKAWA, Kyoko	(47) 12.07.2023	H04L 9/08
SASAI, Hisao	(51) H04R 7/04	H04L 9/12
NISHI, Takahiro	G09F 9/00	H04W 12/106
SHIBAHARA, Youji	H04R 9/02	H04W 56/00
SUGIO, Toshiyasu	H04R 9/06	H04L 9/40
MATSUNOBU, Toru	H04R 1/02	(11) EP3912379
(74) ir. W.J.J.M. Kempes	(11) EP3565275	(21) EP20707902.1
(31) 201161490777 P	(21) EP17885758.7	(22) 18.01.2020
(32) 27.05.2011	(22) 10.11.2017	(54) IMPROVING THE PROTECTION OF SEQUENCE NUMBERS IN AUTHENTICATION AND KEY AGREEMENT PROTOCOL
(33) United States of America	(54) DISPLAY DEVICE	(73) QUALCOMM INCORPORATED
(47) 05.07.2023	(73) Sony Group Corporation	(72) LEE, Soo Bum
(51) H04N 19/52	(72) MATSUOKA, Hiroki	PALANIGOUNDER, Anand
H04N 19/61	KONDO, Shinpei	ESCOTT, Adrian Edward
(11) EP3982634	YOSHIOKA, Hiroshi	(74) dr. R.C. van Duijvenbode c.s.
(21) EP21210463.2	MASUDA, Toshihiko	(31) 202016746495
(22) 08.04.2011	TAGUCHI, Hideyuki	201962794191 P
(54) MOTION VECTOR PREDICTION IN VIDEO CODING	(74) ir. W.J.J.M. Kempes	(32) 17.01.2020
(73) LG Electronics, Inc.	(31) 2017099629	18.01.2019
(72) PARK, Joonyoung	2016253664	(33) United States of America
PARK, Seungwook	(32) 19.05.2017	United States of America
JEON, Yongjoon	27.12.2016	
CHOI, Younghee	(33) Japan	
LIM, Jaehyun	Japan	
	(47) 19.07.2023	

(47) 19.07.2023	HUANG, He	Japan
(51) H04W 24/00 H04W 52/02	(74) ir. A.R. Aalbers (47) 12.07.2023	(47) 02.08.2023
(11) EP3780693	(51) H04W 72/04	(51) H04W 72/12
(21) EP19784595.1	H04W 72/12	H04L 5/00
(22) 28.03.2019	(11) EP3678435	H04L 1/00
(54) MONITORING PHYSICAL DOWNLINK CONTROL CHANNEL BY A USER EQUIPMENT AND CONFIGURATION OF MONITORING MODE BY A NETWORK SIDE DEVICE	(21) EP18863419.0 (22) 10.05.2018 (54) SCHEDULING REQUEST CONFIGURATION METHOD, TRANSMISSION METHOD AND CORRESPONDING DEVICE	H04L 1/16 (11) EP3253144 (21) EP15879750.6 (22) 28.12.2015 (54) PUCCH METHODS AND APPARATUSES OF ENHANCED CA IN UE AND BASE STATION
(73) Vivo Mobile Communication Co., Ltd.	(73) Huawei Technologies Co., Ltd.	(73) Sisvel International S.A.
(72) JIANG, Dajie JI, Zichao QIN, Fei	(72) XU, Haibo PANG, Gaokun CAO, Zhenzhen WANG, Jian XIAO, Xiao	(72) ZHANG, Xiaobo (74) ir. C.G.C. Veldman-Dijkers (31) 201510040667 (32) 27.01.2015 (33) China
(74) J.M.H. Duyver lic. (31) 201810331798 (32) 13.04.2018 (33) China (47) 14.06.2023	(74) ir. W.J.J.M. Kempes (31) 201710911558 (32) 29.09.2017 (33) China (47) 24.05.2023	(47) 31.05.2023
(51) H04W 52/02 H04W 74/08 H04W 74/00 H04L 27/26	(32) 29.09.2017 (33) China (47) 24.05.2023	(51) H04W 72/56 (11) EP3793297 (21) EP19800065.5 (22) 26.04.2019 (54) OPERATION CONTROL METHOD, MOBILE COMMUNICATION TERMINAL AND NETWORK SIDE DEVICE
(11) EP3641408 (21) EP18817872.7 (22) 12.06.2018 (54) SYSTEM INFORMATION TRANSMISSION METHOD, TERMINAL AND NETWORK DEVICE	(51) H04W 72/23 H04W 72/23 (11) EP3646652 (21) EP18743301.6 (22) 28.06.2018 (54) METHOD AND APPARATUS FOR DISCONTINUOUS SCHEDULING	(73) Vivo Mobile Communication Co., Ltd. (72) WU, Yumin (74) J.M.H. Duyver lic. (31) 201810428587 (32) 07.05.2018 (33) China (47) 14.06.2023
(73) Vivo Mobile Communication Co., Ltd. (72) YANG, Xiaodong CHEN, Li (74) J.M.H. Duyver lic. (31) 201710454492 (32) 14.06.2017 (33) China (47) 28.06.2023	(73) Qualcomm Incorporated (72) HUANG, Yi WANG, Renqiu PARK, Seyong GAAL, Peter AKKARAKARAN, Sony WANG, Xiao Feng MONTOJO, Juan LUO, Tao	(31) 201810428587 (32) 07.05.2018 (33) China (47) 14.06.2023
(51) H04W 52/14 H04W 52/24 H04W 52/26 H04W 52/36 H04W 88/02	(74) dr. R.C. van Duijvenbode c.s. (31) 201816020915 201762527951 P (32) 27.06.2018 30.06.2017 (33) United States of America United States of America (47) 12.07.2023	(51) H04W 74/08 H04L 1/1812 H04L 1/1867 H04L 5/00 H04W 56/00 (11) EP3871466 (21) EP19804965.2 (22) 24.10.2019 (54) MESSAGE 2 OF A TWO-STEP RANDOM ACCESS PROCEDURE AND COEXISTENCE WITH FOUR-STEP RANDOM ACCESS PROCEDURE
(11) EP3761724 (21) EP19756852.0 (22) 20.02.2019 (54) POWER CONFIGURATION METHOD AND TERMINAL	(32) 27.06.2018 30.06.2017 (33) United States of America United States of America (47) 12.07.2023	(73) QUALCOMM Incorporated (72) ZHANG, Xiaoxia SUN, Jing FAKOORIAN, Seyed Ali Akbar OZTURK, Ozcan DAMNJANOVIC, Aleksandar YERRAMALLI, Srinivas (74) dr. R.C. van Duijvenbode c.s. (31) 201916661609 201862750070 P (32) 23.10.2019 24.10.2018 (33) United States of America United States of America (47) 12.07.2023
(73) Vivo Mobile Communication Co., Ltd. (72) ZHOU, Shuai FENG, Sanjun PAN, Xueming JIANG, Dajie (74) J.M.H. Duyver lic. (31) 201810160268 (32) 26.02.2018 (33) China (47) 19.07.2023	(51) H04W 72/0453 H04W 74/08 H04W 72/04 H04W 4/70 (11) EP3217746 (21) EP15856467.4 (22) 09.10.2015 (54) USER TERMINAL, WIRELESS BASE STATION, AND WIRELESS COMMUNICATION METHOD	(72) ZHANG, Xiaoxia SUN, Jing FAKOORIAN, Seyed Ali Akbar OZTURK, Ozcan DAMNJANOVIC, Aleksandar YERRAMALLI, Srinivas (74) dr. R.C. van Duijvenbode c.s. (31) 201916661609 201862750070 P (32) 23.10.2019 24.10.2018 (33) United States of America United States of America (47) 12.07.2023
(51) H04W 56/00 H04W 48/16 H04W 48/00	(73) NTT DOCOMO, INC. (72) YASUKAWA, Shimpei TAKEDA, Kazuaki MOROGA, Hideyuki NAGATA, Satoshi	(51) H04W 74/08 H04W 16/14 H04W 74/04 (11) EP3335514 (21) EP16754116.8 (22) 12.08.2016
(11) EP3753301 (21) EP18906275.5 (22) 13.02.2018 (54) CELL INFORMATION ACQUISITION METHOD AND APPARATUS	(74) ir. A. Blokland c.s. (31) 2015080327 2014226412 (32) 09.04.2015 06.11.2014 (33) Japan	
(73) ZTE Corporation (72) LIU, Jing		

(54) CONTENTION-BASED CO-EXISTENCE ON A SHARED COMMUNICATION MEDIUM	H04W 76/22 H04W 88/08 H04W 92/12	201962929294 P (32) 05.11.2019 01.11.2019
(73) Qualcomm Incorporated	H04W 92/20	(33) United States of America
(72) SADEK, Ahmed Kamel RADULESCU, Andrei Dragos VALLIAPPAN, Nachiappan KADOUS, Tamer Adel	H04W 76/15 (11) EP3908073 (21) EP21181626.9 (22) 04.05.2018	United States of America (47) 14.06.2023
(74) dr. R.C. van Duijvenbode c.s.	(54) METHODS AND DEVICES FOR TRANSFERRING SUPPLEMENTARY UPLINK CARRIER CONFIGURATION INFORMATION	(47) H04W 76/34 H04W 80/02 H04W 88/02
(31) 201615234959 201562204303 P	(73) Samsung Electronics Co., Ltd.	(11) EP3804455 (21) EP19731842.1 (22) 30.05.2019
(32) 11.08.2016 12.08.2015	(72) Wang, Hong Xu, Lixiang Ke, Xiaowan Wang, Weiwei	(54) RADIO LINK FAILURE (RLF) PROCEDURE WITH GENERIC CELL GROUP MANAGEMENT (73) QUALCOMM INCORPORATED (72) HORN, Gavin Bernard YU, Yu-Ting PALADUGU, Karthika KUBOTA, Keiichi
(33) United States of America United States of America	(74) dr. R.C. van Duijvenbode c.s.	(74) dr. R.C. van Duijvenbode c.s.
(47) 12.07.2023	(31) 201810028304 201810024386 201710461700 201710316543	(31) 201916425146 201862679438 P
(51) H04W 74/08 H04W 28/02 H04W 56/00	(32) 11.01.2018 10.01.2018 16.06.2017 05.05.2017	(32) 29.05.2019 01.06.2018
(11) EP3531789 (21) EP19161706.7 (22) 03.09.2014	(33) China China China China	(33) United States of America United States of America
(54) COMMUNICATIONS DEVICE FOR IMPROVING THE TRANSMISSION OF RANDOM ACCESS MESSAGES	(47) 12.07.2023	(47) 12.07.2023
(73) Sony Group Corporation (72) MARTIN, Brian Alexander (74) ir. W.J.J.M. Kempes	(51) H04W 76/27 (11) EP3791687 (21) EP19733124.2 (22) 10.05.2019	(51) H04W 84/04 H04W 40/12 H04W 40/22 H04W 40/34 H04L 45/00 H04L 45/28 H04W 40/20
(31) 13185460 (32) 20.09.2013	(54) RELEASE CAUSE FOR TRANSITION FROM CONNECTED STATE	(11) EP3745776 (21) EP19754168.3 (22) 29.01.2019
(33) European Patent Office (EPO)	(73) Telefonaktiebolaget LM Ericsson (publ)	(54) RETURN PATH CONVERSION METHOD, WIRELESS RELAY, NETWORK-SIDE NODE AND TERMINAL
(47) 12.07.2023	(72) LINDHEIMER, Christofer MILDH, Gunnar DA SILVA, Icaro L. J. SUSITAIVAL, Riikka ARSHAD, Malik Wahaj	(73) Vivo Mobile Communication Co., Ltd. (72) KIMBA DIT ADAMOU, Boubacar (74) J.M.H. Duyver lic.
(51) H04W 74/08 H04W 84/12 H04W 28/06 H04W 74/00	(74) dr. R.C. van Duijvenbode c.s.	(31) 201810152153 (32) 14.02.2018 (33) China (47) 21.06.2023
(11) EP3968728 (21) EP21205561.0 (22) 09.01.2018	(31) 201862669804 P (32) 10.05.2018 (33) United States of America (47) 12.07.2023	(51) H05B 3/14 H05B 3/34 D04B 21/16
(54) WIRELESS COMMUNICATION USING TXOP	(74) dr. R.C. van Duijvenbode c.s.	(11) EP3794905 (21) EP19724479.1 (22) 15.05.2019
(73) SK TELECOM CO., LTD. Wilus Institute of Standards and Technology Inc.	(51) H04W 76/27 H04W 72/04 H04W 74/04 H04W 72/12 H04W 36/08 H04W 74/00 H04W 74/08	(54) HEATING TEXTILE, ITS MANUFACTURING PROCESS AND ITS USE
(72) AHN, Woojin KWAK, Jinsam KO, Geonjung SON, Juhyung	(11) EP3817506 (21) EP20201931.1 (22) 15.10.2020	(73) Browa, Mario Jahn, Thorsten (72) BROWA, Mario (74) ir. W.J.J.M. Kempes
(74) dr. R.C. van Duijvenbode c.s.	(54) METHOD AND APPARATUS FOR RELEASEING PRECONFIGURED UPLINK RESOURCES (PUR) IN A WIRELESS COMMUNICATION SYSTEM	(33) China (47) 21.06.2023
(31) 20170057098 20170024265 20170008306 20170003137	(73) ASUSTek Computer Inc. (72) GUO, Yu-Hsuan SHIH, Tun-Huai OU, Meng-Hui	(31) 102018111893 102018111861 (32) 17.05.2018 17.05.2018
(32) 05.05.2017 23.02.2017 17.01.2017 09.01.2017	(74) dr. ir. G.J.C. Verdijck c.s.	(33) Germany Germany
(33) Korea (Republic) Korea (Republic) Korea (Republic) Korea (Republic)	(31) 201962931000 P	
(47) 24.05.2023		
(51) H04W 76/12 H04W 28/02 H04W 28/06 H04W 24/02 H04L 1/08 H04L 5/00		

(47) 24.05.2023	(74) ir. W.J.J.M. Kempes
(51) H05B 6/10	(31) 1760899
A24D 1/20	(32) 20.11.2017
A24F 40/465	(33) France
(11) EP4037504	(47) 07.06.2023
(21) EP20780239.8	(51) H05K 7/14
(22) 01.10.2020	H01P 1/04
(54) SUSCEPTOR HEATING ELEMENT	H01R 24/40
FORMED FROM SHAPE MEMORY	(11) EP3679772
MATERIAL FOR AEROSOL	(21) EP18759275.3
GENERATING DEVICE	(22) 16.08.2018
(73) Philip Morris Products, S.A.	(54) FIELD DEVICE IN MEASUREMENT
(72) BUEHLER, Frederic Ulysse	AND AUTOMATION TECHNOLOGY
(74) dr. W.A.H.M. Van Born	COMPRISING A GALVANIC ISOLATION
(31) 19201073	DEVICE
(32) 02.10.2019	(73) Endress+Hauser Flowtec AG
(33) European Patent Office (EPO)	(72) PAETZOLD, Marita
(47) 05.07.2023	TANNER, Werner
(51) H05B 6/64	BOSSE, Lüder
A47J 43/07	TANNER, Lukas
(11) EP3818781	KOLLMER, Daniel
(21) EP19733822.1	(74) ir. W.J.J.M. Kempes
(22) 02.07.2019	(31) 102017120266
(54) AN OVEN, AS WELL AS A METHOD	(32) 04.09.2017
FOR STIRRING FOODSTUFF	(33) Germany
CONTAINED IN A VESSEL DISPOSED	(47) 14.06.2023
IN THE COOKING CAVITY OF SUCH	(51) H10N 60/10
AN OVEN	H10N 60/01
(73) Eggciting Products B.V.	H10N 69/00
(72) BIVERT, Marcel Alexander	G06N 10/00
SLURINK, Oscar	B82Y 10/00
HIJMA, Herman	B82Y 40/00
KASBERGEN, Michael	(11) EP3912192
GIEZEMAN, Dennis	(21) EP20702717.8
(74) ir. C.G.C. Veldman-Dijkers	(22) 04.01.2020
(31) 2021239	(54) FABRICATION OF A DEVICE
(32) 04.07.2018	(73) Microsoft Technology Licensing, LLC
(33) Netherlands	(72) KALLAHER, Raymond Leonard
(47) 26.07.2023	GRONIN, Sergei Vyatcheslavovich
(51) H05K 5/00	GARDNER, Geoffrey Charles
H05K 5/02	(74) dr. R.C. van Duijvenbode c.s.
(11) EP3735115	(31) 201916252237
(21) EP20158205.3	(32) 18.01.2019
(22) 19.02.2020	(33) United States of America
(54) INPUT CONNECTION DEVICE	(47) 12.07.2023
(73) Delta Electronics, Inc.	
(72) Yeh, Chia-Hao	
Lin, Xin-Hung	
Lin, Sheng-Kuo	
(74) ir. H.A. Witmans c.s.	
(31) 201910616740	
201962842632 P	
(32) 09.07.2019	
03.05.2019	
(33) China	
United States of America	
(47) 07.06.2023	
(51) H05K 7/14	
(11) EP3714666	
(21) EP18803677.6	
(22) 17.11.2018	
(54) METHOD FOR INSERTING, LOCKING	
AND EXTRACTING AN ELECTRONIC	
MODULE AND HOUSING STRUCTURE	
FOR IMPLEMENTING SAME	
(73) Latelec	
(72) BOUSQUET, Jean,François	
PUERTOLAS, Bastien	

EP4

**Voor Nederland verleende gewijzigde Europese octrooien.
Contains data concerning European patents granted in amended form (B2 or B3 publications).**

(51) A61J 7/00	(22) 30.04.2008	(54) ERROR SUPPRESSION IN SEQUENCED DNA FRAGMENTS USING REDUNDANT READS WITH UNIQUE MOLECULAR INDICES (UMIS)
A61K 47/10	(54) METHOD AND TOOL FOR EXPANDING A PIPE END	
A61K 9/08	(73) Uponsor Innovation AB	(73) Illumina, Inc.
A61K 31/198	(72) ADELMAN, Duane, L.	(74) ir. J.D. de Zeeuw
A61J 1/00	SCHRAMM, Ervin, Willy	(72) JUNG, Byoungsok
(11) EP3056187	KNAPP, Randall, J.	GNERRE, Sante
(21) EP16154717.9	EKLUND, Janne	KOSTEM, Emrah
(22) 13.11.2012	GOMEZ, Amalia, Barragan	ARAVANIS, Alex
(54) SINGLE-DOSE PHARMACEUTICAL PREPARATION OF THYROID HORMONES T3 AND/OR T4	(31) 945972 P	ZHANG, Zhihong
(73) Altergon S.a.	(32) 25.06.2007	SO, Alex
(74) dr. A. Ellens c.s.	(33) United States of America	CAI, Xuyu
(72) PIZZUTTI, Marco	(47) 03.07.2013	STEEMERS, Frank J.
BERNAREGGI, Alberto	(51) C07D 401/06	(31) 201562269485 P
BELLORINI, Lorenzo	A61P 35/00	201562193469 P
(31) MI20112066	A61K 31/4439	201562153699 P
(32) 14.11.2011	(11) EP2134702	(32) 18.12.2015
(33) Italy	(21) EP08719405.6	16.07.2015
(47) 22.08.2018	(22) 25.03.2008	28.04.2015
(51) A61K 31/44	(54) CRYSTALLINE FORMS OF 6-[2-(METHYLCARBAMOYL)PHENYLSULFANYL]-2-(PYRIDIN-2-YL)ETHENYL]INDAZOLE SUITABLE FOR THE TREATMENT OF ABNORMAL CELL GROWTH IN MAMMALS	(73) United States of America
(11) EP1732548		United States of America
(21) EP05732613.4		United States of America
(22) 11.04.2005		(47) 18.03.2020
(54) METHODS OF USING SUSTAINED RELEASE AMINOPYRIDINE COMPOSITIONS	(73) Pfizer Products Inc.	(51) D21H 17/67
(73) Acorda Therapeutics, Inc.	(72) SINGER, Robert, Alan	(11) EP1704282
(72) MARINUCCI, Lawrence	CAMPETA, Anthony, Michael	(21) EP04809143.3
COHEN, Ron	CHEKAL, Brian, Patrick	(22) 20.12.2004
BLIGHT, Andrew, R.	MCLAUGHLIN, Robert, William	(54) FILLER FOR PAPERMAKING PROCESS
(31) 102559	(31) 31554	(73) Akzo Nobel Chemicals International B.V.
560894 P	976546 P	(74) ir. M. van Gent
(32) 08.04.2005	910379 P	(72) SANNE, Erik
09.04.2004	(32) 26.02.2008	WÄNNSTRÖM, Sune
(33) United States of America	01.10.2007	GARCIA-LINDGREN, Cherryleen
United States of America	05.04.2007	WALLBERG, Marie-Louise
(47) 08.06.2011	(33) United States of America	ANDERSSON, Kjell, Rune
(51) A61M 16/00	United States of America	VAN DER HORST, Peter, Marten
A61M 15/00	United States of America	(31) 03445149
(11) EP3501584	(47) 31.05.2017	(32) 22.12.2003
(21) EP19155324.7	(51) C12N 15/117	(33) European Patent Office (EPO)
(22) 28.08.2015	(11) EP2655623	(47) 25.04.2018
(54) COMPLIANCE MONITORING MODULE FOR A BREATH-ACTUATED INHALER	(21) EP11805869.2	(51) H01R 4/48
(73) Norton (Waterford) Limited	(22) 23.12.2011	H01R 9/24
(74) dr. A. Krebs	(54) NON-CODING IMMUNOMODULATORY DNA CONSTRUCT	H01R 9/26
(72) Morrison, Mark, Steven	(73) Gilead Sciences, Inc.	H01R 11/07
Calderon Oliveras, Enrique	(74) ir. M.F.J.M. Ketelaars c.s.	H01R 11/09
Weitzel, E, Douglas	(72) KAPP, Kerstin	H01R 13/514
Buck, Daniel	KLEUSS, Christiane	(11) EP3275049
(31) 201462043120 P	SCHROFF, Matthias	(21) EP16709800.3
(32) 28.08.2014	(31) 201021867	(22) 14.03.2016
(33) United States of America	(32) 23.12.2010	(54) CLAMPING ASSEMBLY, SPRING TERMINAL AND SWITCH DEVICE COMPRISING SUCH CLAMPING ASSEMBLY
(47) 30.09.2020	(33) United Kingdom	(73) Eaton Intelligent Power Limited
(51) B21D 41/02	(47) 22.02.2017	(74) J.M.H. Duyver lic.
B29C 57/04	(51) C12Q 1/6869	(72) GERVING, Karsten
(11) EP2167255	C12Q 1/6806	ECK, Sergei
(21) EP08761637.1	(11) EP3289097	THAR, Ralf
	(21) EP16720269.6	
	(22) 20.04.2016	

(31) 102015104268
(32) 23.03.2015
(33) Germany
(47) 29.07.2020

EP5

Voor Nederland verleende gewijzigde Europese octrooien waarvoor een gewijzigde vertaling is ingediend .

Contains data concerning European patents granted for Netherlands and republished in amended form (B2 or B3 applications) in English and for which a translation in Dutch, was filed under the Dutch Patent Laws.

(51) A23C 19/068 C12R 1/00 C12R 1/46 C12N 1/20 A23C 19/032	(54) Needle cover assembly (73) SHL Medical AG (72) Olson, Stephan (74) ir. F.A. Geurts c.s. (47) 03.05.2017	Phillips, Steven, D. Light, Barbara (74) dr. R.C. van Duijvenbode c.s. (31) 755485 P (32) 03.01.2006 (33) United States of America (47) 26.09.2018
(11) EP3068232 (21) EP14796493.6 (22) 10.11.2014 (54) LACTIC ACID BACTERIAL CULTURE (73) Chr. Hansen A/S (72) JANNIK TORBEN, Vindeloev (74) ir. J.C. Volmer c.s. (31) PCT/EP2013/073499 (32) 11.11.2013 (33) World Intellectual Property Office (WIPO) (47) 08.01.2020	(51) B65B 69/00 B65B 39/00 (11) EP3041749 (21) EP14761559.5 (22) 02.09.2014 (54) APPARATUS FOR TRANSFERRING PROCESS MATERIAL BETWEEN A FIRST CONTAINER AND A SECOND CONTAINER, AND METHOD FOR THIS PURPOSE (73) Rubitec AG (72) RUBITSCHUNG, Christoph (74) dr. R.C. van Duijvenbode c.s. (31) 14852013 (32) 02.09.2013 (33) Switzerland (47) 02.08.2017	(32) 03.01.2006 (33) United States of America (47) 26.09.2018 (51) C09C 1/44 C09C 1/50 C09C 1/52 C09C 1/54 C08K 3/04 C09D 11/037 C09D 11/324 (11) EP2350208 (21) EP09783891.6 (22) 09.10.2009 (54) CARBON BLACK, METHOD FOR THE PRODUCTION THEREOF, AND USE THEREOF (73) Orion Engineered Carbons GmbH (72) FRÖHLICH, Joachim MEINERZHAGEN, Gernot MESSER, Paul STANYSCHÖFSKY, Michael (74) ir. F.A. Geurts c.s. (31) 102008051886 (32) 16.10.2008 (33) Germany (47) 24.07.2019
(51) A61K 39/00 C07K 16/18 C07K 16/22 C12N 15/63 C07K 14/51 (11) EP2295448 (21) EP10014372.6 (22) 28.04.2006 (54) SCLEROSTIN EPITOPES (73) Amgen Inc. (72) Winters, Aaron George Lu, Hsieng Sen Latham, John Paszty, Christopher Winkler, David Lawson, Alastair Hoffmann, Kelly Sue Henry, Alistair James Robinson, Martyn Kim (74) dr. R.C. van Duijvenbode c.s. (31) 410540 792645 P 782244 P 776847 P 677583 P (32) 25.04.2006 17.04.2006 13.03.2006 24.02.2006 03.05.2005 (33) United States of America United States of America United States of America United States of America United States of America (47) 18.01.2017	(51) B65D 30/20 B65D 30/10 B65D 77/06 B65D 75/00 B65B 51/10 B65D 25/16 B65B 1/04 (11) EP2935032 (21) EP13815489.3 (22) 19.12.2013 (54) FLEXIBLE POUCH WITH A LARGER OPENING (73) Société des Produits Nestlé S.A. (72) VARBANOV, Petar (74) ir. F.A. Geurts c.s. (31) 12198357 (32) 20.12.2012 (33) European Patent Office (EPO) (47) 21.02.2018 (51) C07C 17/087 C07C 21/18 (11) EP2546224 (21) EP12178208.0 (22) 03.01.2007 (54) METHOD FOR PRODUCING FLUORINATED ORGANIC COMPOUNDS (73) Honeywell International Inc. (72) Ma, Jing, Ji Merkel, Daniel, C. Mukhopahyay, Sudip Dubey Rajesh Tung, Hsueh, Sung Bortz, Cheryl Van der Puy, Michael	(54) CARBON BLACK, METHOD FOR THE PRODUCTION THEREOF, AND USE THEREOF (73) Orion Engineered Carbons GmbH (72) FRÖHLICH, Joachim MEINERZHAGEN, Gernot MESSER, Paul STANYSCHÖFSKY, Michael (74) ir. F.A. Geurts c.s. (31) 102008051886 (32) 16.10.2008 (33) Germany (47) 24.07.2019 (51) C09D 4/00 C08F 222/10 (11) EP3158008 (21) EP15733833.6 (22) 15.06.2015 (54) MULTIFUNCTIONAL ACRYLIC OLIGOMERS OF BRANCHED STRUCTURE, BY POLYADDITION BETWEEN MULTIFUNCTIONAL AMINES AND ACRYLATES (73) Arkema France (72) LEROY, Catherine CICERON, Philippe BOURROUSSE, Charles (74) dr. R.C. van Duijvenbode c.s. (31) 1455789 (32) 23.06.2014 (33) France (47) 25.12.2019 (51) E05B 47/00 (11) EP3317480 (21) EP16830921.9 (22) 23.06.2016 (54) AN ELECTRONIC LOCK DEVICE AND AN OPERATING METHOD THEREFORE (73) ASSA ABLOY Global Solutions AB
(51) A61M 5/32 A61M 5/00 (11) EP2255842 (21) EP09161062.6 (22) 26.05.2009	(54) Needle cover assembly (73) SHL Medical AG (72) Olson, Stephan (74) ir. F.A. Geurts c.s. (47) 03.05.2017	Phillips, Steven, D. Light, Barbara (74) dr. R.C. van Duijvenbode c.s. (31) 755485 P (32) 03.01.2006 (33) United States of America (47) 26.09.2018 (51) C09C 1/44 C09C 1/50 C09C 1/52 C09C 1/54 C08K 3/04 C09D 11/037 C09D 11/324 (11) EP2350208 (21) EP09783891.6 (22) 09.10.2009 (54) CARBON BLACK, METHOD FOR THE PRODUCTION THEREOF, AND USE THEREOF (73) Orion Engineered Carbons GmbH (72) FRÖHLICH, Joachim MEINERZHAGEN, Gernot MESSER, Paul STANYSCHÖFSKY, Michael (74) ir. F.A. Geurts c.s. (31) 102008051886 (32) 16.10.2008 (33) Germany (47) 24.07.2019 (51) C09D 4/00 C08F 222/10 (11) EP3158008 (21) EP15733833.6 (22) 15.06.2015 (54) MULTIFUNCTIONAL ACRYLIC OLIGOMERS OF BRANCHED STRUCTURE, BY POLYADDITION BETWEEN MULTIFUNCTIONAL AMINES AND ACRYLATES (73) Arkema France (72) LEROY, Catherine CICERON, Philippe BOURROUSSE, Charles (74) dr. R.C. van Duijvenbode c.s. (31) 1455789 (32) 23.06.2014 (33) France (47) 25.12.2019 (51) E05B 47/00 (11) EP3317480 (21) EP16830921.9 (22) 23.06.2016 (54) AN ELECTRONIC LOCK DEVICE AND AN OPERATING METHOD THEREFORE (73) ASSA ABLOY Global Solutions AB

- (72) HÖRBERG, Johan
CLAESSON, Göran
BLIDING, Olle
- (74) dr. R.C. van Duijvenbode c.s.
(31) 1550929
(32) 01.07.2015
(33) Sweden
(47) 29.01.2020
-
- (51) F01D 15/00
F01D 15/04
F02C 1/05
F02C 6/14
- (11) EP1989400
(21) EP07712790.0
(22) 27.02.2007
- (54) A METHOD OF STORING ENERGY
AND A CRYOGENIC ENERGY
STORAGE SYSTEM
- (73) Highview Enterprises Limited
- (72) DING, Yulong
BERGER, Ferdinand
PETERS, Toby
CHEN, Haisheng
- (74) dr. R.C. van Duijvenbode c.s.
(31) 0621972
0608959
0603895
(32) 03.11.2006
05.05.2006
27.02.2006
- (33) United Kingdom
United Kingdom
United Kingdom
- (47) 05.04.2017
-
- (51) F24C 15/20
- (11) EP3411631
(21) EP17704319.7
(22) 26.01.2017
- (54) COOKER HOOD AND POWER SUPPLY
ARRANGEMENT THEREOF
- (73) Intell Properties B.V.
- (72) HOEFSMIT, Marcel
- (74) dr. R.C. van Duijvenbode c.s.
(31) 2016214
(32) 03.02.2016
(33) Netherlands
(47) 22.01.2020
-

SPC

Ingeschreven en verleende certificaten.

Contains data concerning applications for- or granted Supplementary Protection Certificates.

VB1**Rechten waarvoor een verzoek of bezwaarschrift is ingediend conform Octrooiwet 1995 en de Algemene Wet Bestuursrecht.****Contains data concerning requests and notices of opposition under the General administrative law.**

(11) EP2464962	(11) EP3723722
(51) G01N 23/20	(51) A61K 8/73
(00) 21.08.2023	(00) 46/22
(00) 2014/09	16.11.2022
26.02.2014	<hr/>
(00) Restoration of rights	(11) EP3736566
(00) Con-Boys OY	(51) G01N 27/622
<hr/>	H01J 49/00
(11) EP3169741	(00) 45/22
(51) C09J 101/26	09.11.2022
B27N 3/00	<hr/>
C09J 103/02	(11) EP3883606
C08L 3/02	(51) A61K 39/395
(00) 44/22	C07K 14/54
02.11.2022	(00) 28/23
<hr/>	12.07.2023
(11) EP3352768	
(51) A61K 31/56	
A61K 31/575	
A61P 1/16	
(00) 44/22	
02.11.2022	
<hr/>	
(11) EP3475621	
(51) F24C 15/20	
(00) 44/22	
02.11.2022	
<hr/>	
(11) EP3578173	
(51) A61K 9/28	
A61K 31/485	
A61P 25/04	
(00) 43/22	
26.10.2022	
<hr/>	
(11) EP3606484	
(51) A61F 13/00	
A61F 13/36	
A61L 15/22	
A61L 15/42	
A61L 15/60	
(00) 45/22	
09.11.2022	
<hr/>	
(11) EP3629995	
(51) A61C 7/08	
A63B 71/08	
A61F 5/56	
B32B 7/02	
B32B 7/12	
B32B 27/08	
B32B 27/28	
B32B 27/30	
B32B 27/32	
B32B 27/34	
B32B 27/36	
B32B 27/40	
(00) 43/22	
26.10.2022	
<hr/>	
(11) EP3721040	
(51) E06B 3/22	
(00) 46/22	
16.11.2022	
<hr/>	

VB2

Rechten waarvoor een beslissing is genomen op een verzoek- of bezwaarschrift conform de Octrooiwet 1995.

Contains data concerning requests and notices of opposition under the General administrative law in respect of which a decision has been taken or in respect for which a report has been made.

(11) 1039057	H05B 3/34	(11) EP3562605
(51) G01N 29/07	(11) EP3152956	(51) B21C 51/00
(00) 34/23	(51) H04W 28/18	B21F 23/00
23.08.2023	(00) 05/20	(00) 47/21
(00) 24.08.2023	29.01.2020	24.11.2021
(00) Positive	(11) EP3161751	(11) EP3575668
(11) EP2234617	(51) G06Q 10/08	(51) F17C 13/04
(51) A61K 31/519	B65G 1/04	(00) 32/21
A61P 25/18	(11) EP3289903	11.08.2021
(00) 18/21	(51) A41G 3/00	(11) EP3623444
12.05.2021	A45D 44/22	(51) C07C 251/24
(11) EP2243385	(00) 15/23	C07D 207/20
(51) A24C 5/34	12.04.2023	C07D 213/22
A24D 3/02	(00) 23.08.2023	C07D 213/53
A24D 3/06	(00) Positive	C07D 213/74
(00) 17/18	(11) EP3293129	C07D 239/48
18.04.2018	(51) B65G 1/04	C07D 471/04
(11) EP2597969	(11) EP3299316	C07F 15/00
(51) A23L 2/52	(51) B65G 1/04	C09K 11/06
A61K 36/752	(00) 34/20	H01L 51/00
A61Q 19/00	23.08.2020	H01L 51/50
C11D 3/382	(11) EP3364119	H01L 51/52
A23K 10/37	(51) F16L 25/14	(00) 14/22
A23L 19/00	F16L 43/00	06.04.2022
A23L 29/206	F24C 15/20	(11) EP3649223
A23L 33/22	F24F 13/02	(51) C11D 1/72
A61K 8/9789	F24F 13/08	H05K 3/26
(00) 33/21	(11) EP3390980	C25D 5/34
18.08.2021	(51) B65D 51/24	C25D 3/38
(11) EP2613682	G01F 23/00	C11D 3/04
(51) A47L 9/14	G01F 23/26	C11D 1/825
(00) 27/17	G01F 23/292	C11D 1/722
05.07.2017	G01F 23/296	C23C 18/16
(11) EP2715825	(00) 10/23	C23C 18/18
(51) H01L 51/50	08.03.2023	C23C 18/36
(00) 36/18	(00) 25.08.2023	C23C 18/40
29.08.2018	(00) Positive	C23C 18/54
(11) EP2847105	(11) EP3423164	C23G 1/06
(51) B65G 1/04	(51) A62C 35/13	C23G 1/10
(11) EP2887821	A62C 37/40	C25D 3/12
(51) A21D 15/02	B65G 1/04	C25D 5/50
A21D 13/24	A62C 3/00	C25D 7/00
A21D 13/28	A62C 27/00	(11) EP3653540
A21D 13/60	(11) EP3434166	(51) B65G 1/04
(11) EP3104724	(51) A47L 9/28	
(51) A24F 47/00	A47L 13/51	
A61M 11/00	(11) EP3470896	
A61M 11/04	(51) G02B 5/18	
A61M 15/00	G02B 6/124	
A61M 15/06	G09F 3/02	
B32B 3/26	B42D 25/328	
B32B 5/02	(11) EP3483576	
B32B 27/06	(51) B60G 17/019	
B32B 27/12	G01B 7/16	
B32B 27/28	G01G 1/00	
H05B 3/14	G01L 1/22	

MED**Overige mededelingen.****Contains data concerning other communications.**

(11) EP1704282

(51) D21H 17/67

(11) EP1732548

(51) A61K 31/44

(11) EP2100615

(51) A61K 39/00

A61P 35/00

G01N 33/574

G01N 33/68

(11) EP2134702

(51) C07D 401/06

A61P 35/00

A61K 31/4439

(11) EP2167255

(51) B21D 41/02

B29C 57/04

(11) EP2655623

(51) C12N 15/117

(11) EP3056187

(51) A61J 7/00

A61K 47/10

A61K 9/08

A61K 31/198

A61J 1/00

(11) EP3275049

(51) H01R 4/48

H01R 9/24

H01R 9/26

H01R 11/07

H01R 11/09

H01R 13/514

(11) EP3289097

(51) C12Q 1/6869

C12Q 1/6806

(11) EP3501584

(51) A61M 16/00

A61M 15/00

VRV

Verval of nietigverklaring.

Contains data concerning lapse or annulment.

(11) 1024160	(00) Patent Expired	(00) Patent Expired
(00) 25.08.2023	(11) EP1530417	(11) EP1547755
(00) Patent Expired	(00) 26.08.2023	(00) 29.08.2023
(11) 300379	(00) Patent Expired	(00) Patent Expired
(00) 26.08.2023	(11) EP1531934	(11) EP1550425
(00) SPC Expired	(00) 26.08.2023	(00) 28.08.2023
(11) 300391	(00) Patent Expired	(00) Patent Expired
(00) 25.08.2023	(11) EP1532677	(11) EP1551819
(00) SPC Expired	(00) 26.08.2023	(00) 27.08.2023
(11) 300753	(00) Patent Expired	(00) Patent Expired
(00) 24.08.2023	(11) EP1533322	(11) EP1553641
(00) SPC Application Rejected	(00) 26.08.2023	(00) 28.08.2023
(11) 300822	(00) Patent Expired	(00) Patent Expired
(00) 24.08.2023	(11) EP1534139	(11) EP1553845
(00) SPC Application Rejected	(00) 25.08.2023	(00) 27.08.2023
(11) EP1393662	(00) Patent Expired	(00) Patent Expired
(00) 26.08.2023	(11) EP1534842	(11) EP1555111
(00) Patent Expired	(00) 26.08.2023	(00) 29.08.2023
(11) EP1393674	(00) Patent Expired	(00) Patent Expired
(00) 27.08.2023	(11) EP1535495	(11) EP1556336
(00) Patent Expired	(00) 28.08.2023	(00) 25.08.2023
(11) EP1394024	(00) Patent Expired	(00) Patent Expired
(00) 28.08.2023	(11) EP1537173	(11) EP1558408
(00) Patent Expired	(00) 26.08.2023	(00) 28.08.2023
(11) EP1394028	(00) Patent Expired	(00) Patent Expired
(00) 29.08.2023	(11) EP1537250	(11) EP1569460
(00) Patent Expired	(00) 28.08.2023	(00) 28.08.2023
(11) EP1394460	(00) Patent Expired	(00) Patent Expired
(00) 27.08.2023	(11) EP1537668	(11) EP1578581
(00) Patent Expired	(00) 27.08.2023	(00) 26.08.2023
(11) EP1394627	(00) Patent Expired	(00) Patent Expired
(00) 25.08.2023	(11) EP1539817	(11) EP1590479
(00) Patent Expired	(00) 27.08.2023	(00) 29.08.2023
(11) EP1396309	(00) Patent Expired	(00) Patent Expired
(00) 29.08.2023	(11) EP1540505	(11) EP1597051
(00) Patent Expired	(00) 29.08.2023	(00) 26.08.2023
(11) EP1396504	(00) Patent Expired	(00) Patent Expired
(00) 29.08.2023	(11) EP1541585	(11) EP1635461
(00) Patent Expired	(00) 26.08.2023	(00) 27.08.2023
(11) EP1396510	(00) Patent Expired	(00) Patent Expired
(00) 27.08.2023	(11) EP1545548	(11) EP1642963
(00) Patent Expired	(00) 29.08.2023	(00) 25.08.2023
(11) EP1398279	(00) Patent Expired	(00) Patent Expired
(00) 25.08.2023	(11) EP1546017	(11) EP1643642
(00) Patent Expired	(00) 26.08.2023	(00) 27.08.2023
(11) EP1400348	(00) Patent Expired	(00) Patent Expired
(00) 27.08.2023	(11) EP1546185	(11) EP1832179
(00) Patent Expired	(00) 26.08.2023	(00) 28.06.2023
(11) EP1410981	(00) Patent Expired	(00) European Patent got Revoked
(00) 25.08.2023	(11) EP1546227	(11) EP1909505
(00) Patent Expired	(00) 29.08.2023	(00) 28.08.2023
(11) EP1447806	(00) Patent Expired	(00) Patent Expired
(00) 27.08.2023	(11) EP1546340	(11) EP1912410
(00) Patent Expired	(00) 29.08.2023	(00) 26.08.2023
(11) EP1522211	(00) Patent Expired	(00) Patent Expired
(00) 27.08.2023	(11) EP1546458	(11) EP1986321
(00) Patent Expired	(00) 28.08.2023	(00) 27.08.2023
(11) EP1527517	(00) Patent Expired	(00) Patent Expired
(00) 27.08.2023	(11) EP1547358	(11) EP2028561
	(00) 28.08.2023	(00) 26.04.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2154721	(11) EP2642723	(11) EP2849260
(00) 28.08.2023	(00) 26.08.2023	(00) 26.04.2023
(00) Patent Expired	(00) Patent Expired	(00) EPV Ceased Effect
(11) EP2239847	(11) EP2660261	(11) EP2850462
(00) 27.08.2023	(00) 26.04.2023	(00) 26.04.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2249579	(11) EP2667732	(11) EP2853695
(00) 28.08.2023	(00) 24.07.2023	(00) 26.04.2023
(00) Patent Expired	(00) European Patent got Revoked	(00) EPV Ceased Effect
(11) EP2258163	(11) EP2667892	(11) EP2856739
(00) 26.04.2023	(00) 04.07.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) European Patent got Revoked	(00) EPV Ceased Effect
(11) EP2292764	(11) EP2694296	(11) EP2860311
(00) 29.08.2023	(00) 26.04.2023	(00) 28.08.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) Patent Expired
(11) EP2292765	(11) EP2697126	(11) EP2863501
(00) 29.08.2023	(00) 26.04.2023	(00) 26.04.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2293305	(11) EP2701439	(11) EP2878108
(00) 28.08.2023	(00) 26.04.2023	(00) 26.04.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2295062	(11) EP2711612	(11) EP2881725
(00) 29.08.2023	(00) 26.04.2023	(00) 26.04.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2330282	(11) EP2716375	(11) EP2894513
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2356914	(11) EP2734364	(11) EP2905711
(00) 08.03.2023	(00) 26.04.2023	(00) 26.04.2023
(00) European Patent got Revoked	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2359128	(11) EP2735196	(11) EP2912270
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2362251	(11) EP2737402	(11) EP2915491
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2385859	(11) EP2740517	(11) EP2919465
(00) 26.04.2023	(00) 26.04.2023	(00) 28.08.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) Patent Expired
(11) EP2402939	(11) EP2747861	(11) EP2921422
(00) 26.04.2023	(00) 26.04.2023	(00) 18.07.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) European Patent got Revoked
(11) EP2430424	(11) EP2769948	(11) EP2942488
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2482576	(11) EP2801801	(11) EP2943559
(00) 26.08.2023	(00) 26.04.2023	(00) 26.04.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2515297	(11) EP2815069	(11) EP2946437
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2527515	(11) EP2819155	(11) EP2949806
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2547404	(11) EP2823280	(11) EP2950122
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2588485	(11) EP2830496	(11) EP2966345
(00) 29.06.2023	(00) 26.04.2023	(00) 26.04.2023
(00) European Patent got Revoked	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2591499	(11) EP2838196	(11) EP2966433
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2617509	(11) EP2845532	(11) EP2969243
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2975444	(11) EP3043098	(11) EP3110122
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2977114	(11) EP3053758	(11) EP3112523
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2977807	(11) EP3062741	(11) EP3112888
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2978201	(11) EP3062849	(11) EP3113832
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2979079	(11) EP3067675	(11) EP3114317
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2979082	(11) EP3070317	(11) EP3117248
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2981246	(11) EP3071265	(11) EP3117622
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2985375	(11) EP3073839	(11) EP3121358
(00) 10.07.2023	(00) 26.04.2023	(00) 26.04.2023
(00) European Patent got Revoked	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2989509	(11) EP3084598	(11) EP3127257
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2989861	(11) EP3084731	(11) EP3130584
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2993430	(11) EP3088112	(11) EP3133255
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2996754	(11) EP3092567	(11) EP3136130
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3002613	(11) EP3094755	(11) EP3142078
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3002621	(11) EP3095001	(11) EP3142779
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3004035	(11) EP3095003	(11) EP3143902
(00) 26.04.2023	(00) 26.04.2023	(00) 08.01.2020
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3005104	(11) EP3097576	(11) EP3146217
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3005971	(11) EP3099336	(11) EP3147627
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3026277	(11) EP3103534	(11) EP3148932
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3026516	(11) EP3104963	(11) EP3156066
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3033177	(11) EP3107455	(11) EP3157881
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3041479	(11) EP3107464	(11) EP3159686
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3041568	(11) EP3108223	(11) EP3161348
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3164275	(11) EP3196460	(11) EP3242145
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3165849	(11) EP3196935	(11) EP3243049
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3166386	(11) EP3198981	(11) EP3243240
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3167107	(11) EP3200068	(11) EP3245362
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3169825	(11) EP3202455	(11) EP3247503
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3170052	(11) EP3203289	(11) EP3248876
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3170495	(11) EP3204516	(11) EP3252642
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3172396	(11) EP3207495	(11) EP3253363
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3174244	(11) EP3209631	(11) EP3253529
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3176445	(11) EP3214260	(11) EP3253807
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3178129	(11) EP3214616	(11) EP3254972
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3179288	(11) EP3215172	(11) EP3257904
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3179467	(11) EP3218515	(11) EP3258872
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3182275	(11) EP3220487	(11) EP3259164
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3185189	(11) EP3223011	(11) EP3260107
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3185662	(11) EP3223994	(11) EP3260142
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3187583	(11) EP3224208	(11) EP3261478
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3188060	(11) EP3224686	(11) EP3264328
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3189501	(11) EP3227225	(11) EP3265425
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3192853	(11) EP3229034	(11) EP3265879
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3193096	(11) EP3232691	(11) EP3266581
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3196348	(11) EP3235899	(11) EP3269676
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3273483	(11) EP3312616	(11) EP3351501
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3273585	(11) EP3314081	(11) EP3352146
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3274172	(11) EP3315345	(11) EP3352208
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3275144	(11) EP3319163	(11) EP3352937
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3282496	(11) EP3323954	(11) EP3353436
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3284134	(11) EP3324772	(11) EP3355685
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3287896	(11) EP3332326	(11) EP3356916
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3289321	(11) EP3332753	(11) EP3357169
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3296010	(11) EP3335757	(11) EP3357585
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3297565	(11) EP3336308	(11) EP3357858
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3298131	(11) EP3337143	(11) EP3359104
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3298762	(11) EP3337889	(11) EP3359497
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3298996	(11) EP3342793	(11) EP3359623
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3299382	(11) EP3343351	(11) EP3360203
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3301124	(11) EP3343376	(11) EP3360395
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3301727	(11) EP3344277	(11) EP3365657
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3302894	(11) EP3345719	(11) EP3366244
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3305594	(11) EP3345878	(11) EP3367136
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3306634	(11) EP3346282	(11) EP3367463
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3306701	(11) EP3348677	(11) EP3368047
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3307223	(11) EP3348927	(11) EP3368520
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3310136	(11) EP3350908	(11) EP3370409
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3370900	(11) EP3396239	(11) EP3420359
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3371381	(11) EP3397660	(11) EP3420842
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3374156	(11) EP3399379	(11) EP3422091
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3376246	(11) EP3400727	(11) EP3424768
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3378846	(11) EP3401455	(11) EP3425093
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3379781	(11) EP3402067	(11) EP3425693
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3380317	(11) EP3403413	(11) EP3425775
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3380726	(11) EP3404230	(11) EP3428709
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3381544	(11) EP3404924	(11) EP3429213
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3382282	(11) EP3404997	(11) EP3429388
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3385486	(11) EP3405013	(11) EP3429518
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3386016	(11) EP3406225	(11) EP3429563
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3387025	(11) EP3406651	(11) EP3429625
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3388218	(11) EP3407051	(11) EP3431869
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3389033	(11) EP3407606	(11) EP3432177
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3389877	(11) EP3408701	(11) EP3433469
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3389959	(11) EP3409834	(11) EP3433541
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3391007	(11) EP3413439	(11) EP3433677
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3391247	(11) EP3419117	(11) EP3433697
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3391556	(11) EP3419182	(11) EP3434235
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3392966	(11) EP3419504	(11) EP3434905
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3394144	(11) EP3419609	(11) EP3436180
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3439425	(11) EP3466360	(11) EP3488176
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3441279	(11) EP3466532	(11) EP3489507
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3441874	(11) EP3467712	(11) EP3490307
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3442011	(11) EP3468381	(11) EP3491824
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3443136	(11) EP3471783	(11) EP3491855
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3444224	(11) EP3472596	(11) EP3492811
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3445751	(11) EP3472709	(11) EP3493361
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3448957	(11) EP3474116	(11) EP3494647
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3449913	(11) EP3476478	(11) EP3496220
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3450109	(11) EP3477835	(11) EP3496390
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3450483	(11) EP3480456	(11) EP3496439
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3452164	(11) EP3481921	(11) EP3496561
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3452877	(11) EP3482288	(11) EP3497032
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3453769	(11) EP3482542	(11) EP3498659
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3456159	(11) EP3483974	(11) EP3499142
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3456377	(11) EP3484254	(11) EP3499383
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3457200	(11) EP3484632	(11) EP3501812
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3458075	(11) EP3484745	(11) EP3502945
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3459449	(11) EP3485857	(11) EP3503135
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3463188	(11) EP3486308	(11) EP3503237
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3464317	(11) EP3486332	(11) EP3503291
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3465722	(11) EP3487357	(11) EP3504026
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3505457	(11) EP3514307	(11) EP3531635
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3505554	(11) EP3514726	(11) EP3531669
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3505926	(11) EP3514822	(11) EP3532493
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3505927	(11) EP3515988	(11) EP3533504
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3505928	(11) EP3516363	(11) EP3533740
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3506029	(11) EP3516770	(11) EP3534297
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3506092	(11) EP3517974	(11) EP3535061
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3507275	(11) EP3519886	(11) EP3536084
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3507866	(11) EP3520920	(11) EP3536394
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3508024	(11) EP3522298	(11) EP3536901
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3508275	(11) EP3522451	(11) EP3537110
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3508986	(11) EP3522656	(11) EP3537857
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3509881	(11) EP3523363	(11) EP3538735
(00) 26.04.2023	(00) 18.01.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) European Patent got Revoked	(00) EPV Ceased Effect
(11) EP3510628	(11) EP3525238	(11) EP3538886
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3510710	(11) EP3525510	(11) EP3539407
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3512841	(11) EP3525795	(11) EP3539589
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3512888	(11) EP3526072	(11) EP3539754
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3512916	(11) EP3526658	(11) EP3539766
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3513356	(11) EP3528395	(11) EP3539866
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3513460	(11) EP3530311	(11) EP3540089
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3513491	(11) EP3530429	(11) EP3540258
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3513737	(11) EP3530572	(11) EP3540523
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3540632	(11) EP3555644	(11) EP3568433
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3542840	(11) EP3556015	(11) EP3568510
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3542943	(11) EP3556538	(11) EP3568511
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3543516	(11) EP3557246	(11) EP3569439
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3545266	(11) EP3557412	(11) EP3569635
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3545346	(11) EP3557665	(11) EP3569908
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3545907	(11) EP3558267	(11) EP3569988
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3546079	(11) EP3558449	(11) EP3570164
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3546104	(11) EP3559374	(11) EP3571463
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3546309	(11) EP3559545	(11) EP3571544
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3547107	(11) EP3560538	(11) EP3571983
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3548261	(11) EP3561641	(11) EP3573936
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3549004	(11) EP3561950	(11) EP3573957
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3549363	(11) EP3562687	(11) EP3574639
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3550119	(11) EP3562723	(11) EP3574716
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3551399	(11) EP3563547	(11) EP3575958
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3552256	(11) EP3563857	(11) EP3577053
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3552403	(11) EP3564176	(11) EP3580014
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3553017	(11) EP3565378	(11) EP3580427
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3553854	(11) EP3565553	(11) EP3582017
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3553891	(11) EP3567780	(11) EP3582038
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3554917	(11) EP3567801	(11) EP3582607
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3583069	(11) EP3595800	(11) EP3608195
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3584241	(11) EP3596143	(11) EP3608328
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3584853	(11) EP3596598	(11) EP3609041
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3585139	(11) EP3597251	(11) EP3609566
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3585979	(11) EP3597538	(11) EP3610310
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3586267	(11) EP3597577	(11) EP3610633
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3586333	(11) EP3598156	(11) EP3613310
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3586406	(11) EP3598454	(11) EP3613331
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3586708	(11) EP3599165	(11) EP3613353
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3586713	(11) EP3599441	(11) EP3613926
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3588266	(11) EP3599594	(11) EP3614128
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3588456	(11) EP3600509	(11) EP3614709
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3589096	(11) EP3601963	(11) EP3614815
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3589260	(11) EP3602300	(11) EP3615118
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3589833	(11) EP3603202	(11) EP3615863
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3590316	(11) EP3603704	(11) EP3615995
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3591498	(11) EP3603883	(11) EP3616039
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3592024	(11) EP3603891	(11) EP3616521
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3593378	(11) EP3604196	(11) EP3617479
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3593681	(11) EP3605077	(11) EP3618173
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3595232	(11) EP3605826	(11) EP3618323
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3595702	(11) EP3607323	(11) EP3619565
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3621484	(11) EP3632955	(11) EP3650097
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3621864	(11) EP3633976	(11) EP3650717
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3622042	(11) EP3636899	(11) EP3651091
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3623450	(11) EP3637068	(11) EP3651255
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3623594	(11) EP3637133	(11) EP3652968
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3623875	(11) EP3637686	(11) EP3652979
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3624204	(11) EP3639680	(11) EP3653212
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3626366	(11) EP3640401	(11) EP3654029
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3626565	(11) EP3641513	(11) EP3654042
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3626642	(11) EP3641838	(11) EP3655125
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3626694	(11) EP3642709	(11) EP3655126
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3626789	(11) EP3643220	(11) EP3655298
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3627167	(11) EP3643763	(11) EP3655982
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3627295	(11) EP3643807	(11) EP3656018
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3627330	(11) EP3643977	(11) EP3656021
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3628180	(11) EP3644493	(11) EP3656247
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3628620	(11) EP3647364	(11) EP3656498
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3629323	(11) EP3647594	(11) EP3656975
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3629619	(11) EP3648101	(11) EP3657018
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3632154	(11) EP3648269	(11) EP3657184
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3632696	(11) EP3648703	(11) EP3657590
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3632726	(11) EP3650073	(11) EP3657882
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3658523	(11) EP3673525	(11) EP3683505
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3658946	(11) EP3674170	(11) EP3684151
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3659344	(11) EP3674718	(11) EP3684950
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3660267	(11) EP3674772	(11) EP3685018
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3662364	(11) EP3674887	(11) EP3685028
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3662527	(11) EP3675090	(11) EP3685512
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3663942	(11) EP3675325	(11) EP3688824
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3664049	(11) EP3675769	(11) EP3690193
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3664648	(11) EP3675782	(11) EP3690197
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3665443	(11) EP3675858	(11) EP3691100
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3666239	(11) EP3675983	(11) EP3691210
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3666589	(11) EP3677509	(11) EP3691211
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3666716	(11) EP3677908	(11) EP3692028
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3667340	(11) EP3677994	(11) EP3692890
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3667387	(11) EP3678337	(11) EP3693103
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3667839	(11) EP3680496	(11) EP3693570
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3668215	(11) EP3682123	(11) EP3693639
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3668289	(11) EP3682235	(11) EP3693886
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3669935	(11) EP3683003	(11) EP3694152
(00) 26.04.2023	(00) 12.03.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) Patent Expired	(00) EPV Ceased Effect
(11) EP3670874	(11) EP3683201	(11) EP3694160
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3671359	(11) EP3683202	(11) EP3694763
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3671946	(11) EP3683425	(11) EP3694799
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3694812	(11) EP3705797	(11) EP3714564
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3695025	(11) EP3706392	(11) EP3714589
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3695164	(11) EP3707216	(11) EP3714975
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3695689	(11) EP3708056	(11) EP3715388
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3696540	(11) EP3708110	(11) EP3715414
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3697502	(11) EP3708281	(11) EP3715417
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3697535	(11) EP3708803	(11) EP3715593
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3698032	(11) EP3708925	(11) EP3715684
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3701230	(11) EP3709598	(11) EP3715862
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3701629	(11) EP3709631	(11) EP3716086
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3701734	(11) EP3710148	(11) EP3716244
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3701871	(11) EP3710412	(11) EP3716827
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3702057	(11) EP3712044	(11) EP3717382
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3702284	(11) EP3712388	(11) EP3717934
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3702597	(11) EP3712469	(11) EP3717945
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3703242	(11) EP3712550	(11) EP3718010
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3703863	(11) EP3713013	(11) EP3718052
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3703894	(11) EP3713161	(11) EP3718217
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3704477	(11) EP3713209	(11) EP3718503
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3705189	(11) EP3713353	(11) EP3718937
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3705261	(11) EP3713788	(11) EP3719053
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3705699	(11) EP3713862	(11) EP3719249
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3719452	(11) EP3730946	(11) EP3740407
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3719603	(11) EP3731462	(11) EP3740680
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3721055	(11) EP3731991	(11) EP3741039
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3721595	(11) EP3732516	(11) EP3741284
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3721831	(11) EP3732938	(11) EP3741628
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3721925	(11) EP3732945	(11) EP3741745
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3722242	(11) EP3733043	(11) EP3742140
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3722558	(11) EP3733440	(11) EP3742635
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3722684	(11) EP3733465	(11) EP3742689
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3722756	(11) EP3734095	(11) EP3742779
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3723349	(11) EP3734169	(11) EP3744372
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3723432	(11) EP3734909	(11) EP3744544
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3724614	(11) EP3735159	(11) EP3745058
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3725310	(11) EP3736298	(11) EP3745305
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3725362	(11) EP3736422	(11) EP3747562
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3725645	(11) EP3738117	(11) EP3748921
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3726894	(11) EP3738940	(11) EP3749013
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3726906	(11) EP3739358	(11) EP3749251
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3727286	(11) EP3739431	(11) EP3749442
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3727823	(11) EP3739997	(11) EP3749540
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3728542	(11) EP3740051	(11) EP3749864
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3730699	(11) EP3740054	(11) EP3750344
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3750642	(11) EP3763546	(11) EP3772689
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3750676	(11) EP3763973	(11) EP3773350
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3751533	(11) EP3764316	(11) EP3774292
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3751714	(11) EP3765381	(11) EP3774493
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3751971	(11) EP3765828	(11) EP3774965
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3752684	(11) EP3766181	(11) EP3775071
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3752804	(11) EP3766726	(11) EP3775616
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3754039	(11) EP3767042	(11) EP3776036
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3754361	(11) EP3767236	(11) EP3777211
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3754917	(11) EP3767741	(11) EP3778018
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3755393	(11) EP3768139	(11) EP3778071
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3755537	(11) EP3768214	(11) EP3778409
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3756390	(11) EP3768561	(11) EP3778629
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3758304	(11) EP3769961	(11) EP3778748
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3758343	(11) EP3770589	(11) EP3779055
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3760290	(11) EP3771108	(11) EP3779061
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3760844	(11) EP3771119	(11) EP3779231
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3760922	(11) EP3771263	(11) EP3779335
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3761380	(11) EP3771271	(11) EP3779704
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3762087	(11) EP3771384	(11) EP3780878
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3762609	(11) EP3772422	(11) EP3782320
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3763284	(11) EP3772522	(11) EP3782777
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3782917	(11) EP3794409	(11) EP3804267
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3783302	(11) EP3794688	(11) EP3805031
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3783386	(11) EP3795391	(11) EP3805189
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3783919	(11) EP3795696	(11) EP3805515
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3784558	(11) EP3795817	(11) EP3805530
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3785971	(11) EP3795826	(11) EP3805621
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3786409	(11) EP3795877	(11) EP3805704
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3786701	(11) EP3796185	(11) EP3806591
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3786763	(11) EP3796462	(11) EP3807167
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3787228	(11) EP3796589	(11) EP3807797
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3787301	(11) EP3797676	(11) EP3808147
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3788536	(11) EP3798416	(11) EP3808780
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3788749	(11) EP3799205	(11) EP3809636
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3789123	(11) EP3799287	(11) EP3809798
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3789647	(11) EP3799324	(11) EP3810558
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3789874	(11) EP3800873	(11) EP3810815
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3790255	(11) EP3800915	(11) EP3810896
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3790613	(11) EP3802669	(11) EP3811279
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3792099	(11) EP3802922	(11) EP3811699
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3792131	(11) EP3803109	(11) EP3812444
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3793209	(11) EP3803402	(11) EP3813324
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3793218	(11) EP3804039	(11) EP3813706
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3814157	(11) EP3823246	(11) EP3833169
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3815194	(11) EP3823353	(11) EP3833219
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3816184	(11) EP3825568	(11) EP3833576
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3816311	(11) EP3825716	(11) EP3833999
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3817098	(11) EP3825888	(11) EP3834087
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3817431	(11) EP3826357	(11) EP3834337
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3817436	(11) EP3826757	(11) EP3834734
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3818831	(11) EP3826813	(11) EP3835778
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3819068	(11) EP3826928	(11) EP3835897
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3819339	(11) EP3827541	(11) EP3836138
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3819495	(11) EP3828331	(11) EP3836196
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3819742	(11) EP3828651	(11) EP3836212
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3819823	(11) EP3828740	(11) EP3836441
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3820091	(11) EP3829130	(11) EP3836526
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3820893	(11) EP3829907	(11) EP3837422
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3821011	(11) EP3829950	(11) EP3837637
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3821805	(11) EP3829956	(11) EP3838417
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3822080	(11) EP3831627	(11) EP3838626
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3822087	(11) EP3832510	(11) EP3838746
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3822088	(11) EP3832792	(11) EP3839085
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3822131	(11) EP3832853	(11) EP3839290
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3822699	(11) EP3833058	(11) EP3839388
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3840345	(11) EP3853147	(11) EP3867004
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3841507	(11) EP3854067	(11) EP3868243
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3841891	(11) EP3854521	(11) EP3868726
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3842583	(11) EP3855286	(11) EP3869175
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3842762	(11) EP3855390	(11) EP3869874
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3842787	(11) EP3856427	(11) EP3871886
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3842907	(11) EP3856547	(11) EP3871917
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3843619	(11) EP3858635	(11) EP3871975
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3844314	(11) EP3858739	(11) EP3873758
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3845800	(11) EP3859233	(11) EP3873779
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3846034	(11) EP3859268	(11) EP3874194
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3846364	(11) EP3859351	(11) EP3874270
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3846521	(11) EP3861338	(11) EP3874286
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3848284	(11) EP3863093	(11) EP3874652
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3848286	(11) EP3863312	(11) EP3874979
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3848524	(11) EP3863872	(11) EP3875236
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3848771	(11) EP3863979	(11) EP3875278
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3849862	(11) EP3864491	(11) EP3875529
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3849863	(11) EP3864755	(11) EP3877044
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3849869	(11) EP3865364	(11) EP3877286
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3851318	(11) EP3865672	(11) EP3878650
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3853091	(11) EP3866333	(11) EP3878779
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3878809	(11) EP3896727	(11) EP3912874
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3880842	(11) EP3899074	(11) EP3913240
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3881162	(11) EP3899308	(11) EP3914060
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3882639	(11) EP3899550	(11) EP3916071
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3885494	(11) EP3900614	(11) EP3916235
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3885664	(11) EP3902057	(11) EP3919308
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3885709	(11) EP3904638	(11) EP3919327
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3886324	(11) EP3904663	(11) EP3919395
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3887214	(11) EP3904696	(11) EP3919845
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3887249	(11) EP3904743	(11) EP3922200
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3887837	(11) EP3904789	(11) EP3922407
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3888817	(11) EP3905213	(11) EP3922670
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3889398	(11) EP3906078	(11) EP3922835
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3889468	(11) EP3906649	(11) EP3923116
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3889539	(11) EP3907121	(11) EP3923258
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3889688	(11) EP3907791	(11) EP3923850
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3890265	(11) EP3907850	(11) EP3924136
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3890406	(11) EP3907930	(11) EP3924239
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3894302	(11) EP3908424	(11) EP3925000
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3894728	(11) EP3909113	(11) EP3926830
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3896275	(11) EP3910738	(11) EP3926898
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3896496	(11) EP3911537	(11) EP3928152
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3929005	(11) EP3938146	(11) EP3947874
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3929565	(11) EP3938564	(11) EP3947918
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3929598	(11) EP3938939	(11) EP3948036
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3929978	(11) EP3939891	(11) EP3948608
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3931600	(11) EP3940095	(11) EP3948611
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3931646	(11) EP3941711	(11) EP3948616
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3931688	(11) EP3941761	(11) EP3949066
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3932136	(11) EP3941926	(11) EP3949283
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3932609	(11) EP3942133	(11) EP3950607
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3932835	(11) EP3942379	(11) EP3951527
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3934215	(11) EP3942583	(11) EP3952704
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3934335	(11) EP3942705	(11) EP3953100
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3934482	(11) EP3943050	(11) EP3953113
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3935282	(11) EP3943400	(11) EP3953654
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3935760	(11) EP3943422	(11) EP3954912
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3935808	(11) EP3943873	(11) EP3956292
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3936358	(11) EP3945545	(11) EP3956536
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3936361	(11) EP3945763	(11) EP3956741
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3936595	(11) EP3946093	(11) EP3957093
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3937402	(11) EP3946620	(11) EP3957915
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3937606	(11) EP3947070	(11) EP3957952
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3937727	(11) EP3947832	(11) EP3957987
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3958158	(11) EP3970648	(11) EP3979798
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3958958	(11) EP3971059	(11) EP3979895
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3959859	(11) EP3971310	(11) EP3980338
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3960951	(11) EP3971443	(11) EP3980428
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3961040	(11) EP3971448	(11) EP3980432
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3961379	(11) EP3971604	(11) EP3981655
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3961559	(11) EP3972897	(11) EP3982138
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3962002	(11) EP3973218	(11) EP3983268
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3963358	(11) EP3973579	(11) EP3983653
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3963880	(11) EP3974655	(11) EP3983714
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3964436	(11) EP3974744	(11) EP3983743
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3964995	(11) EP3976380	(11) EP3983822
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3965881	(11) EP3976412	(11) EP3984848
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3966467	(11) EP3977605	(11) EP3985275
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3967023	(11) EP3977655	(11) EP3987441
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3967115	(11) EP3978298	(11) EP3988052
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3967517	(11) EP3978325	(11) EP3988624
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3967595	(11) EP3978468	(11) EP3990352
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3967739	(11) EP3978745	(11) EP3991891
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3968379	(11) EP3978793	(11) EP3992226
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3968397	(11) EP3979535	(11) EP3993001
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3969783	(11) EP3979574	(11) EP3993899
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3994223	(11) EP4014942	(11) EP4071941
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3994997	(11) EP4018106	(11) EP4072065
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3995049	(11) EP4019290	(11) EP4075004
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3995336	(11) EP4020082	(11) EP4079581
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3995484	(11) EP4024239	(11) EP4095516
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3996239	(11) EP4026208	(11) EP4095639
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3996785	(11) EP4026962	(11) EP4098559
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3996973	(11) EP4033513	(11) EP4100083
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3997353	(11) EP4037641	(11) EP4103828
(00) 26.04.2023	(00) 26.04.2023	(00) 26.04.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3997929	(11) EP4037967	
(00) 26.04.2023	(00) 26.04.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3998991	(11) EP4040117	
(00) 26.04.2023	(00) 26.04.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3999923	(11) EP4049878	
(00) 26.04.2023	(00) 26.04.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP4001214	(11) EP4049931	
(00) 26.04.2023	(00) 26.04.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP4002967	(11) EP4050358	
(00) 26.04.2023	(00) 26.04.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP4004391	(11) EP4051461	
(00) 26.04.2023	(00) 26.04.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP4004392	(11) EP4056475	
(00) 26.04.2023	(00) 26.04.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP4006531	(11) EP4059779	
(00) 26.04.2023	(00) 26.04.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP4008213	(11) EP4064526	
(00) 26.04.2023	(00) 26.04.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP4011520	(11) EP4065191	
(00) 26.04.2023	(00) 26.04.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP4012541	(11) EP4070407	
(00) 26.04.2023	(00) 26.04.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP4014782	(11) EP4070631	
(00) 26.04.2023	(00) 26.04.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP4014918	(11) EP4071940	
(00) 26.04.2023	(00) 26.04.2023	

VRB

**Verbeteringen op eerdere publicaties.
Contains data concerning corrections.**

(11) 2029848
(48) 30.08.2023
(00) Inventor details
(51) G01C 21/34
 G01C 21/36
 G06N 20/00

CO**Ingeschreven overdrachten.****Contains data concerning registered assignments or change of owners.**

(71) IQIP Holding B.V.

(73) IQIP Holding B.V.

(11) 2016840

(00) 23.08.2023

(51) F03D 13/20

E02D 27/42

E02D 27/52

F03D 13/25

(00) Assignment

(71) Biotallys NV

(73) Katholieke Universiteit Leuven, of KU
Leuven Research & Development

(11) EP2992101

(00) 24.08.2023

(51) A01N 37/46

A01N 63/02

C07K 16/14

C12N 15/82

(00) Change of owner(s) name

(71) Katholieke Universiteit Leuven, of KU
Leuven Research & Development

(73) Katholieke Universiteit Leuven, of KU
Leuven Research & Development

(11) EP2992101

(00) 24.08.2023

(51) A01N 37/46

A01N 63/02

C07K 16/14

C12N 15/82

(00) Assignment

(71) Katholieke Universiteit Leuven, of KU
Leuven Research & Development

(73) Katholieke Universiteit Leuven, of KU
Leuven Research & Development

(11) EP2992100

(00) 24.08.2023

(51) A01N 37/46

A01N 63/02

C07K 16/14

C12N 15/82

(00) Assignment

(71) Biotallys NV

(73) Katholieke Universiteit Leuven, of KU
Leuven Research & Development

(11) EP2992100

(00) 24.08.2023

(51) A01N 37/46

A01N 63/02

C07K 16/14

C12N 15/82

(00) Change of owner(s) name

TVH

**Topografieën van halfgeleiderproducten.
Contains data concerning Semiconductors.**

UP1

**Bevat gegevens over Europese octrooien met geregistreerde eenheidswerking.
Contains data concerning European patents with registered Unitary Effect.**

(11) EP3648927	(11) EP3948196	(11) EP3403212
(11) EP2875797	(11) EP3917590	(11) EP3481877
(11) EP3194677	(11) EP3788220	(11) EP3437062
(11) EP3337378	(11) EP3677686	(11) EP3941196
(11) EP3499299	(11) EP3862753	(11) EP3781746
(11) EP3423072	(11) EP3708622	(11) EP3957291
(11) EP3316831	(11) EP4068363	(11) EP3746879
(11) EP3308763	(11) EP3970858	(11) EP3866988
(11) EP3460532	(11) EP3935053	(11) EP3542172
(11) EP3573528	(11) EP3990776	(11) EP3933493
(11) EP2635683	(11) EP3886880	(11) EP3634657
(11) EP3535838	(11) EP3637951	(11) EP3704317
(11) EP2763697	(11) EP3903861	(11) EP3899474
(11) EP3478822	(11) EP3971074	(11) EP3677304
(11) EP2739589	(11) EP3786982	(11) EP3786363
(11) EP3158381	(11) EP3222783	(11) EP3975218
(11) EP3063338	(11) EP3969936	(11) EP3849213
(11) EP3508666	(11) EP3882773	(11) EP3509714
(11) EP3024310	(11) EP3900802	(11) EP3908394
(11) EP3574164	(11) EP3662208	(11) EP3966399
(11) EP3064341	(11) EP3863553	(11) EP4034457
(11) EP3461959	(11) EP3954598	(11) EP4009810
(11) EP3477197	(11) EP3714801	(11) EP3762947
(11) EP3801801	(11) EP3134159	(11) EP3882375
(11) EP3592670	(11) EP3099338	(11) EP3739145
(11) EP3316954	(11) EP3188966	(11) EP3827839
(11) EP3595500	(11) EP3294763	(11) EP3824918
(11) EP3658349	(11) EP3319502	(11) EP4063927
(11) EP3584373	(11) EP3276615	(11) EP2992040
(11) EP3334871	(11) EP3670494	(11) EP3969436
(11) EP3359016	(11) EP3722548	(11) EP3721390
(11) EP3704938	(11) EP3901903	(11) EP3852975
(11) EP3720522	(11) EP3509447	(11) EP2999375
(11) EP3380050	(11) EP3523657	(11) EP3885215
(11) EP3758763	(11) EP3454850	(11) EP3976446
(11) EP3788832	(11) EP3805244	(11) EP3809105
(11) EP3824551	(11) EP3516394	(11) EP2526676
(11) EP3723943	(11) EP3558544	(11) EP3124712
(11) EP3623334	(11) EP4014875	(11) EP2652688
(11) EP3429611	(11) EP3502064	(11) EP2568511
(11) EP3884481	(11) EP3921447	(11) EP3124244
(11) EP3648057	(11) EP3600829	(11) EP3969179
(11) EP3475249	(11) EP4008583	(11) EP3246501
(11) EP3807568	(11) EP2772532	(11) EP3155989
(11) EP3986278	(11) EP2996192	(11) EP3268192
(11) EP3893698	(11) EP3679247	(11) EP3468813
(11) EP3702970	(11) EP3945967	(11) EP3374510
(11) EP3563861	(11) EP3700463	(11) EP3236947
(11) EP3897982	(11) EP3677885	(11) EP3416794
(11) EP3593108	(11) EP3733373	(11) EP3386501
(11) EP3891099	(11) EP3581727	(11) EP4016777
(11) EP3549650	(11) EP3762683	(11) EP4053838
(11) EP3623232	(11) EP3761874	(11) EP3544513
(11) EP3799997	(11) EP3256520	(11) EP3386655
(11) EP3967469	(11) EP3302615	(11) EP3429683
	(11) EP3345863	(11) EP3468942

(11) EP3498297	(11) EP3997162	(11) EP3447534
(11) EP3483768	(11) EP3746659	(11) EP3478504
(11) EP3499915	(11) EP3256650	(11) EP3754237
(11) EP3585792	(11) EP3867201	(11) EP3590869
(11) EP3566043	(11) EP3808116	(11) EP3554958
(11) EP3539701	(11) EP3908745	(11) EP3571462
(11) EP3631090	(11) EP3784456	(11) EP3591611
(11) EP3258178	(11) EP3820345	(11) EP3413060
(11) EP3646109	(11) EP3337307	(11) EP3622600
(11) EP3675941	(11) EP3820346	(11) EP3738799
(11) EP3606474	(11) EP3796429	(11) EP3653017
(11) EP3659125	(11) EP3754887	(11) EP3653946
(11) EP3476294	(11) EP3726217	(11) EP3660653
(11) EP3481586	(11) EP3799093	(11) EP3569343
(11) EP3426172	(11) EP3751729	(11) EP3666831
(11) EP3597183	(11) EP3296095	(11) EP3550147
(11) EP3716967	(11) EP3756944	(11) EP3611254
(11) EP3777527	(11) EP3805074	(11) EP3597385
(11) EP3839669	(11) EP3837934	(11) EP3740682
(11) EP3554301	(11) EP3474185	(11) EP3713768
(11) EP3802956	(11) EP3848790	(11) EP3630213
(11) EP3788120	(11) EP3504042	(11) EP3631376
(11) EP3836794	(11) EP3791715	(11) EP3804025
(11) EP3860767	(11) EP3991595	(11) EP3740923
(11) EP3864193	(11) EP3906182	(11) EP3762675
(11) EP3809824	(11) EP3641878	(11) EP3774569
(11) EP3819518	(11) EP4062440	(11) EP3755465
(11) EP3857104	(11) EP3946990	(11) EP3767687
(11) EP3866256	(11) EP3515221	(11) EP3857304
(11) EP3748103	(11) EP3987322	(11) EP3720752
(11) EP3534682	(11) EP3955767	(11) EP3844365
(11) EP3742165	(11) EP3970088	(11) EP3566580
(11) EP3799292	(11) EP3970199	(11) EP3810342
(11) EP3779977	(11) EP3966643	(11) EP3794293
(11) EP3703287	(11) EP4066719	(11) EP3788309
(11) EP3908910	(11) EP3458307	(11) EP3863584
(11) EP3485907	(11) EP3574482	(11) EP3569068
(11) EP3931381	(11) EP4060161	(11) EP3863791
(11) EP3660733	(11) EP3885108	(11) EP3752496
(11) EP4004287	(11) EP3627855	(11) EP3791544
(11) EP3661231	(11) EP3501605	(11) EP3843538
(11) EP3925480	(11) EP3893095	(11) EP3885210
(11) EP3602763	(11) EP3919342	(11) EP3802379
(11) EP3542792	(11) EP3668117	(11) EP3908122
(11) EP3599191	(11) EP3943308	(11) EP3827312
(11) EP4041949	(11) EP3596399	(11) EP3844398
(11) EP3706550	(11) EP3922467	(11) EP3963603
(11) EP4046525	(11) EP3569205	(11) EP3996596
(11) EP3893180	(11) EP3658085	(11) EP3837010
(11) EP3971092	(11) EP2926907	(11) EP3747756
(11) EP3530215	(11) EP4081534	(11) EP3754306
(11) EP3940175	(11) EP2890631	(11) EP3811404
(11) EP3817070	(11) EP3589155	(11) EP3916074
(11) EP2934694	(11) EP2905849	(11) EP3943667
(11) EP2941128	(11) EP2992765	(11) EP3829839
(11) EP3718933	(11) EP3599947	(11) EP3689265
(11) EP3524214	(11) EP3864359	(11) EP4004867
(11) EP3628612	(11) EP3392045	(11) EP3984054
(11) EP3119573	(11) EP3678485	(11) EP3930564
(11) EP3786998	(11) EP3508013	(11) EP3979388
(11) EP3803204	(11) EP3398437	(11) EP3956243
(11) EP3224489	(11) EP3698197	(11) EP3977483

(11) EP3976366	(11) EP3792829	(11) EP4039924
(11) EP3885851	(11) EP3906225	(11) EP3529022
(11) EP3975707	(11) EP3740082	(11) EP3975354
(11) EP4008014	(11) EP3743991	(11) EP3580622
(11) EP4047211	(11) EP3837979	(11) EP4094655
(11) EP3981293	(11) EP3749623	(11) EP2740771
(11) EP4011481	(11) EP3880931	(11) EP4095395
(11) EP4060698	(11) EP3752679	(11) EP3206614
(11) EP3793345	(11) EP3775763	(11) EP3577145
(11) EP2509513	(11) EP3747788	(11) EP2810769
(11) EP3972578	(11) EP3749207	(11) EP3115072
(11) EP4092199	(11) EP3754398	(11) EP3313407
(11) EP3916257	(11) EP3824488	(11) EP3407890
(11) EP3954568	(11) EP3985152	(11) EP3639073
(11) EP3251121	(11) EP3824925	(11) EP3313967
(11) EP3922611	(11) EP3803028	(11) EP3716784
(11) EP3922149	(11) EP3743723	(11) EP3678105
(11) EP3977921	(11) EP3983170	(11) EP3504027
(11) EP2237738	(11) EP3873546	(11) EP3535169
(11) EP3625188	(11) EP3890944	(11) EP3572232
(11) EP2934454	(11) EP3962830	(11) EP3656909
(11) EP3545902	(11) EP3908176	(11) EP3704690
(11) EP3949291	(11) EP3830018	(11) EP3608539
(11) EP3406985	(11) EP3875953	(11) EP3502604
(11) EP3060717	(11) EP3965567	(11) EP3657062
(11) EP3501958	(11) EP3831197	(11) EP3563670
(11) EP3158767	(11) EP3975956	(11) EP3382142
(11) EP3067815	(11) EP3851923	(11) EP3620193
(11) EP3615288	(11) EP3698961	(11) EP3554912
(11) EP3349931	(11) EP3941923	(11) EP3369607
(11) EP3374487	(11) EP3982719	(11) EP3722265
(11) EP3620022	(11) EP3972864	(11) EP3749404
(11) EP3566540	(11) EP3816370	(11) EP3615485
(11) EP3324959	(11) EP3924675	(11) EP3685170
(11) EP3421180	(11) EP3912703	(11) EP3700811
(11) EP3746595	(11) EP3885578	(11) EP3542641
(11) EP3552300	(11) EP4091514	(11) EP3695056
(11) EP3606761	(11) EP3929380	(11) EP3816293
(11) EP3423368	(11) EP4019414	(11) EP3664919
(11) EP3463842	(11) EP3839310	(11) EP3691860
(11) EP3740940	(11) EP3823279	(11) EP3747478
(11) EP3423429	(11) EP3936208	(11) EP3851455
(11) EP3496803	(11) EP2900316	(11) EP3693652
(11) EP3534706	(11) EP3875796	(11) EP3748533
(11) EP3502026	(11) EP3132686	(11) EP3890185
(11) EP3729643	(11) EP3875756	(11) EP3768659
(11) EP3622630	(11) EP3206611	(11) EP3598328
(11) EP3599189	(11) EP3952800	(11) EP3882870
(11) EP3779269	(11) EP3983146	(11) EP3680856
(11) EP3600130	(11) EP4084038	(11) EP3674033
(11) EP3666937	(11) EP3969305	(11) EP3974072
(11) EP3616359	(11) EP3983669	(11) EP3854125
(11) EP3530202	(11) EP3259228	(11) EP3774799
(11) EP3530207	(11) EP3916258	(11) EP3828885
(11) EP3547789	(11) EP4094848	(11) EP3848274
(11) EP3659407	(11) EP3370416	(11) EP3882590
(11) EP3684458	(11) EP3865716	(11) EP3953527
(11) EP3598407	(11) EP3929381	(11) EP4025105
(11) EP3567269	(11) EP3945084	(11) EP3990705
(11) EP3727858	(11) EP4012122	(11) EP3886700
(11) EP3868775	(11) EP3911956	(11) EP4024606
(11) EP3626127	(11) EP3943248	(11) EP4031457

(11) EP3815079	(11) EP3801174	(11) EP4108413
(11) EP3826425	(11) EP3801172	(11) EP4022131
(11) EP3730546	(11) EP3747096	(11) EP3997285
(11) EP3764320	(11) EP3672823	(11) EP4041977
(11) EP3827729	(11) EP3760942	(11) EP3969155
(11) EP3718649	(11) EP3689279	(11) EP4027814
(11) EP3958445	(11) EP3895412	(11) EP3879612
(11) EP3879730	(11) EP3670774	(11) EP4127310
(11) EP3981665	(11) EP3783929	(11) EP3901401
(11) EP4054937	(11) EP3908009	(11) EP4134702
(11) EP3912880	(11) EP3839395	(11) EP3915815
(11) EP4028878	(11) EP3737806	(11) EP4092186
(11) EP4069118	(11) EP3778403	(11) EP4100723
(11) EP4024574	(11) EP3795326	(11) EP4078003
(11) EP4019173	(11) EP3798908	(11) EP3233340
(11) EP3970509	(11) EP3723004	(11) EP3120560
(11) EP3984468	(11) EP3935864	(11) EP3295264
(11) EP3772844	(11) EP3793840	(11) EP3140392
(11) EP3778041	(11) EP3660183	(11) EP3350798
(11) EP3967671	(11) EP3877388	(11) EP3464572
(11) EP3783340	(11) EP3891368	(11) EP3659058
(11) EP3988395	(11) EP4022242	(11) EP3431999
(11) EP4047127	(11) EP3706238	(11) EP3457114
(11) EP3831569	(11) EP3875005	(11) EP3539341
(11) EP3831570	(11) EP3871178	(11) EP3709732
(11) EP3839401	(11) EP3849386	(11) EP3462598
(11) EP3976436	(11) EP3894745	(11) EP3479977
(11) EP4021883	(11) EP3715265	(11) EP3737006
(11) EP4048738	(11) EP3791981	(11) EP3852344
(11) EP3860070	(11) EP3942751	(11) EP3626302
(11) EP4099114	(11) EP3946145	(11) EP3818198
(11) EP3996121	(11) EP4001138	(11) EP3794794
(11) EP3902326	(11) EP3992054	(11) EP3820673
(11) EP3917214	(11) EP3715101	(11) EP3875939
(11) EP4024248	(11) EP4015189	(11) EP3862388
(11) EP4136748	(11) EP4030053	(11) EP3909203
(11) EP3967978	(11) EP3872583	(11) EP3748224
(11) EP3985745	(11) EP3897013	(11) EP3876123
(11) EP3981897	(11) EP3730451	(11) EP3871881
(11) EP4002644	(11) EP3848065	(11) EP3770845
(11) EP3237510	(11) EP4074805	(11) EP3806048
(11) EP4016765	(11) EP3910216	(11) EP4038235
(11) EP4060124	(11) EP3974576	(11) EP4031606
(11) EP3415278	(11) EP3970900	(11) EP4072798
(11) EP2579423	(11) EP3953356	(11) EP4083657
(11) EP3322482	(11) EP3896838	(11) EP3988471
(11) EP3616325	(11) EP4072797	(11) EP4116532
(11) EP3202363	(11) EP4081376	(11) EP4041620
(11) EP3285900	(11) EP3796497	(11) EP4026655
(11) EP3311267	(11) EP3805116	
(11) EP3294472	(11) EP3933159	
(11) EP3617199	(11) EP3974073	
(11) EP3243915	(11) EP4118318	
(11) EP3559696	(11) EP4108848	
(11) EP3425130	(11) EP3839494	
(11) EP3816573	(11) EP3912002	
(11) EP3688836	(11) EP3935222	
(11) EP3634170	(11) EP3949571	
(11) EP3799275	(11) EP3994466	
(11) EP3542755	(11) EP4108849	
(11) EP3614372	(11) EP3994518	
(11) EP3784285	(11) EP4031047	

UP2

Bevat gegevens over Europese octrooien met geregistreerd verzoek ex. artikel 52a (herstel recht op validatie).

Contains data concerning European patents with registered request ex article 52a (restoration of validation right).

UP3

Bevat gegevens over Europese octrooien met geaccepteerd verzoek ex. artikel 52a (herstel recht op validatie) en complete validatie.

Contains data concerning European patents with accepted ex article 52a (restoration of validation right) and validation completed.

UP4

Bevat gegevens over Europese octrooien met geaccepteerd verzoek ex. artikel 52a (herstel recht op validatie) en geen complete validatie.

Contains data concerning European patents with accepted request ex article 52a (restoration of validation right) and incomplete validation.

UP5

Bevat gegevens over Europese octrooien met afgewezen verzoek ex. artikel 52a (herstel recht op validatie).

Contains data concerning European patents with rejected request ex article 52a (restoration of validation right).

UP6

Bevat gegevens over Europese octrooien met ingetrokken verzoek ex. artikel 52a (herstel recht op validatie).

Contains data concerning European patents with withdrawn request ex article 52a (restoration of validation right).