



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
<p>Rubriek NP1 Bevat gegevens betreffende octrooiaanvragen die zijn ingeschreven op grond van de Octrooiwet 1995.</p>	<p>8 Heading NP1 Contains data concerning Netherlands patent applications which have been entered in the patent register under the Patents Act 1995.</p>	8
<p>Rubriek NP2 Bevat gegevens betreffende ingeschreven en verleende octrooien op grond van de Octrooiwet 1995.</p>	<p>13 Heading NP2 Contains data concerning Netherlands patents which have been entered in the patent register under the Patents Act 1995.</p>	13
<p>Rubriek NP3 Bevat gegevens betreffende Nederlandse octrooien na gedeeltelijke afstand conform artikel 63 van de Octrooiwet 1995.</p>	<p>18 Heading NP3 Contains data concerning Netherlands patents after partial renunciation confirm Article 63 of the Patents Act 1995.</p>	18
<p>Rubriek EP1 Bevat gegevens betreffende vertaalde conclusies van Europese octrooiaanvragen.</p>	<p>19 Heading EP1 Contains data concerning translations of the conclusions of European patent applications.</p>	19
<p>Rubriek EP2 Bevat gegevens betreffende voor Nederland verleende Europese octrooien.</p>	<p>20 Heading EP2 Contains data concerning European patents granted for The Netherlands.</p>	20
<p>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.</p>	<p>274 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.</p>	274
<p>Rubriek EP4 Bevat gegevens betreffende voor Nederland verleende gewijzigde Europese octrooien.</p>	<p>319 Heading EP4 Contains data concerning European patents granted in amended form for the Netherlands.</p>	319
<p>Rubriek EP5 Bevat gegevens betreffende voor Nederland verleende gewijzigde</p>	<p>321 Heading EP5 Contains data concerning European patents granted in amended form for</p>	321

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

322Heading SPC

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

322

Rubriek VB1

Bevat gegevens betreffende rechten waarvoor een verzoek of bezwaarschrift is ingediend conform de Octrooiwet 1995.

323Heading VB1

Contains data concerning requests and notices of opposition under the General administrative law.

323

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.

324Heading 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.

324

Rubriek MED

Bevat gegevens betreffende overige mededelingen.

325Heading MED

Contains data concerning other communications.

325

Rubriek VRV

Bevat gegevens betreffende verval of nietigverklaring.

326Heading VRV

Contains data concerning lapse or annulment.

326

Rubriek VRB

Bevat gegevens betreffende verbeteringen op eerdere publicaties.

344Heading VRB

Contains data concerning corrections on earlier publications.

344

Rubriek CO

Bevat gegevens betreffende wijzigingen in het octrooiregister.

345Heading CO

Contains data concerning changes in the Netherland patent register.

345

Rubriek TVH

Bevat gegevens betreffende topografieën van halfgeleiderproducten.

348Heading TVH

Contains data concerning depots of original topographies of semi-conductor products.

348

Rubriek UP1 Bevat gegevens over Europese octrooien met geregistreerde eenheidswerking.	349Heading UP1 Contains data concerning European patents with registered Unitary Effect.	349
Rubriek UP2 Bevat gegevens over Europese octrooien met geregistreerd verzoek ex. artikel 52a (herstel recht op validatie).	352Heading UP2 Contains data concerning European patents with registered request ex article 52a (restoration of validation right).	352
Rubriek UP3 Bevat gegevens over Europese octrooien met geaccepteerd verzoek ex. artikel 52a (herstel recht op validatie) en complete validatie.	353Heading UP3 Contains data concerning European patents with accepted ex article 52a (restoration of validation right) and validation completed.	353
Rubriek UP4 Bevat gegevens over Europese octrooien met geaccepteerd verzoek ex. artikel 52a (herstel recht op validatie) en geen complete validatie.	354Heading UP4 Contains data concerning European patents with accepted request ex article 52a (restoration of validation right) and incomplete validation.	354
Rubriek UP5 Bevat gegevens over Europese octrooien met afgewezen verzoek ex. artikel 52a (herstel recht op validatie).	355Heading UP5 Contains data concerning European patents with rejected request ex article 52a (restoration of validation right).	355
Rubriek UP6 Bevat gegevens over Europese octrooien met ingetrokken verzoek ex. artikel 52a (herstel recht op validatie).	356Heading UP6 Contains data concerning European patents with withdrawn request ex article 52a (restoration of validation right).	356

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) A01K 67/033 A01K 5/02	(72) Ermeng Yu Jingjing Tian Wangbao Gong	B33Y 70/10 B33Y 80/00
(21) 2030520	Hongyan Li	(21) 2030539
(22) 13.01.2022	Kai Zhang	(22) 13.01.2022
(54) A method of preparing and supplying humidified feed to insects and a system for preparing and supplying humidified feed to insects	Jun Xie Xinyu Zheng Zhifei Li Guangjun Wang Yun Xia	(54) GRADIENT OSTEOCHONDRAL BIONIC SCAFFOLD FOR INTEGRATED DIAGNOSIS AND TREATMENT AND PREPARATION METHOD THEREOF
(71) VDL Agrotech B.V.	(31) 202210033459.6	(71) Dongguan University Of Technology
(74) ir. A. Blokland c.s.	(32) 12.01.2022	(74) ir. M.B. Plaggenborg
(72) Tim van Heertum Marinus Lambertus Maria Beniers	(33) China	(72) Jiahua Liang Nan Li Shenggui Chen
(41) 25.07.2023	(51) A47F 5/00	(41) 25.07.2023
(51) A01K 67/033 C12N 15/113	(21) 2030536	(51) B01J 38/48
(21) 2030573	(22) 13.01.2022	B01J 29/90
(22) 17.01.2022	(54) BOOK DISPLAY STAND	F23G 7/07
(54) METHOD FOR PRODUCTION OF ALL-MALE OFFSPRING OF PRAWN MACROBRACHIUM ROSENBERGII BY RNA-INTERFERING ON SEX-DETERMINING GENE DOUBLESEX (MRDSX) EXPRESSION	(71) Peking University	B01J 29/48
(71) SHANGHAI OCEAN UNIVERSITY	(74) ir. M.B. Plaggenborg	B01J 38/02
(74) ir. M.B. Plaggenborg	(72) Yanqi Liu	B01J 38/14
(72) Gaofeng Qiu Xue Liu Qiliang Wang Yaoting Dong	(41) 19.07.2023	(21) 2030526
(51) A23K 20/121 A23K 50/10	(51) A61K 9/16 A61K 9/107 A61K 9/14	(22) 13.01.2022
(21) 2033943	(21) 2030822	(54) METHOD FOR ACTIVATING AND REGENERATING DEACTIVATED CATALYST IN CHLORINE-CONTAINING VOCS CATALYTIC COMBUSTION PROCESS
(22) 11.01.2023	(22) 04.02.2022	(71) Zhejiang University ZHEJIANG SCI-TECH UNIVERSITY
(54) USE OF BIOCHANIN A IN PROMOTING PRODUCTION PERFORMANCE OF RUMINANT	(54) Method for producing a CBD comprising liquid or solid and use thereof	(74) ir. W.J.J.M. Kempes
(71) Institute of Animal Sciences, Chinese Academy of Agricultural Sciences	(71) Food4Innovations Ventures B.V.	(72) Xiaoping Dong Xiaole Weng Lujun Cheng Pengfei Sun
(74) ir. W.J.J.M. Kempes	(74) dr. A. Ellens c.s.	(41) 19.07.2023
(72) Shengguo Zhao Yangdong Zhang Nan Zheng Jiaqi Wang	(72) Jolieke Monica Johanna Willems Karen Elisabeth Brink Wouter Bernardus Cornelius de Heij	(51) B09C 1/10
(31) 202210029865.5	(31) 2030552	(21) 2030576
(32) 12.01.2022	(32) 14.01.2022	(22) 17.01.2022
(33) China	(33) Netherlands	(54) BIOCHAR FOR REMEDYING MERCURY, LEAD AND COPPER POLLUTED SOIL AND PREPARATION METHOD AND SYSTEM THEREOF
(51) A23K 50/80 A23K 20/137	(51) A61L 2/08	(71) Nanjing Agricultural University
(21) 2031017	(21) 2030577	(74) ir. M.B. Plaggenborg
(22) 21.02.2022	(22) 17.01.2022	(72) Hemei Yang Bingkun Min Ping Liu Kunquan Li
(54) Separation and Purification Method of vicine and Product and Application Thereof	(54) INSTRUMENT DISINFECTION DEVICE FOR INFECTIOUS DISEASE DEPARTMENT	(51) B23K 26/362
(71) Pearl River Fisheries Research Institute, Chinese Academy of Fishery Sciences	(71) The Second Affiliated Hospital and Yuying Children's Hospital of Wenzhou Medical University	(21) 2030542
(74) dr. T. Wittop Koning PhD	(74) ir. M.B. Plaggenborg	(22) 13.01.2022
	(72) Guangyao Zhou Jie Li Peipei Fang Gelu Zhu Chenwei Pan Shanshan Huang Shaoxun Li	(54) INTELLIGENT ELECTRIC ACTUATOR MANUFACTURING PRODUCTION LINE
	(41) 25.07.2023	(71) Tianjin Sino-German University of Applied Sciences
	(51) A61L 27/54 A61L 27/12 A61F 2/82	(74) ir. M.B. Plaggenborg
		(72) Zhili Zhang

Lifeng Du Qiming Fan Xiangbin Zhao Yizhu Liu Yunlong Li Chunping Liu (41) 25.07.2023	(54) Werkwijze en systeem voor het meten van spoorspatting van een deel van een spoorrails. (71) Dual Inventive Holding B.V. (74) ir. A. Blokland c.s. (72) Lex Josephus Maria van der Poel (41) 25.07.2023	THEREOF, AND METHOD FOR DETECTING BOVINE LACTOFERRIN (71) Beijing Meizheng Biotechnology Co., Ltd. Shandong Meizheng Biotechnology Co., Ltd. (74) ir. M.B. Plaggenborg (72) Dongxia Wu Hao Gu Jiapeng Liu Xiumei Tian (41) 25.07.2023 (31) 202210034444.1 (32) 13.01.2022 (33) China
(51) B23K 37/00 B23K 37/02 B41J 3/407 B41J 3/44 B23K 31/02 (21) 2030578 (22) 17.01.2022 (54) BUNDLED-BAR LABEL WELDING SYSTEM BASED ON MACHINE VISION (71) GUANGDONG UNIVERSITY OF PETROCHEMICAL TECHNOLOGY (74) ir. M.B. Plaggenborg (72) Xingang Wang Qian Wang Yinqing Chen Huawei Zhang Yebin Cai Dacheng Wang Baoyan Wang (51) B25J 19/00 B25J 11/00 (21) 2030524 (22) 13.01.2022 (54) MOUNTING BASE FOR AUTOMATIC FEEDING MECHANICAL ARM (71) Dezhou University (74) ir. W.J.J.M. Kempes (72) Juan Yang Haorui Liu (51) B41J 15/00 B41J 11/00 B41J 15/16 (21) 2030547 (22) 14.01.2022 (54) ROLL PRINTER WITH LOOP FORMING DEVICE SUITABLE FOR STIFF MEDIA (71) CANON PRODUCTION PRINTING HOLDING B.V. (74) ir. M.J. Groen (72) Jeroen M. van Willigen (41) 25.07.2023 (51) B41M 5/00 (21) 2030551 (22) 14.01.2022 (54) Printing primer composition for adjusting a substrate (71) Xeikon Manufacturing N.V. (74) dr. ir. G.J.C. Verdijck c.s. (72) Yolanda Justo Zarraquiños Sylwia Szwed-Furmanska Wouter Jeroom Maria Van Gaens Frank De Voeght Lode Erik Dries Deprez Werner Jozef Johan Op de Beeck (41) 25.07.2023 (51) B61K 9/08 (21) 2030518 (22) 13.01.2022	(51) C04B 38/06 C04B 35/105 C04B 35/106 C04B 35/64 (21) 2030582 (22) 17.01.2022 (54) ALUMINIUM-MAGNESIUM-BASED POROUS CERAMIC COMPONENT FOR METAL LIQUID PURIFIER AND PREPARATION METHOD OF ALUMINIUM-MAGNESIUM-BASED POROUS CERAMIC COMPONENT (71) Luoyang Kechuang New Materials Co., Ltd. (74) ir. M.B. Plaggenborg (72) Junqiang Ma (41) 25.07.2023 (51) C05F 3/00 (21) 2030659 (22) 24.01.2022 (54) METHOD FOR PREPARING ORGANIC FERTILIZER BY MIXING DEER DUNG WITH CORN STRAWS (71) Northeast Normal University (74) dr. T. Wittop Koning PhD (72) Difu Yao Hanxi Wang Xinyu Wang Jianling Xu (31) 202210033272.6 (32) 12.01.2022 (33) China (51) C07K 1/36 C12P 21/00 C12P 39/00 C07K 1/34 C07K 1/16 (21) 2030556 (22) 14.01.2022 (54) METHOD FOR BIOSYNTHESIZING CYCLOALIPHATIC PEPTIDE SURFACTANT (71) Zhejiang Academy of Agricultural Sciences (74) ir. W.J.J.M. Kempes (72) Xingning Xiao Wentao Lv Jiang Zhu Hua Yang Caihong Hu Wen Wang Lingyan Ma Yingping Xiao (41) 25.07.2023 (51) C07K 14/79 G01N 30/06 (21) 2031571 (22) 13.04.2022 (54) BINDING BUFFER FOR LACTOFERRIN EXTRACTION, PREPARATION METHOD AND APPLICATION	(71) C08F 222/20 C08F 2/48 C08K 5/08 C08K 7/26 C08K 9/06 A61K 6/69 (21) 2030558 (22) 14.01.2022 (54) HYDROPHOBIC SELF-CLEANING RESIN SLURRY, HYDROPHOBIC SELF-CLEANING RESIN DENTAL MATERIAL AND APPLICATION THEREOF (71) Anhui Medical University (74) ir. W.J.J.M. Kempes (72) Ying Cao Quanli Li Le Zhang Wenjuan Zhang Jialong Chen Siyuan Chen Xiangyang Li Shunli Zheng Qin Rao Ling Weng Xiaowei Wang (41) 25.07.2023 (51) C09K 3/18 C11D 3/00 A01N 31/02 C11D 1/00 (21) 2032698 (22) 08.08.2022 (54) ANTIBACTERIAL AND ANTI-FOG CLEANING SOLUTION FOR SPECTACLE LENSES, AND ANTIBACTERIAL AND ANTI-FOG CLEANING CLOTH FOR SPECTACLE LENSES (71) Beijing Institute of Technology (74) dr. R.C. van Duijvenbode c.s. (72) Yang Bai (41) 25.07.2023 (31) N2030531 (32) 13.01.2022 (33) Netherlands (51) C12Q 1/6895 (21) 2032070 (22) 02.06.2022 (54) MOLECULAR MARKER PRIMER PAIR FOR FLESH COLOR OF LOQUAT, KIT, DETECTION METHOD AND USE (71) Institute of Horticulture, Sichuan Academy of Agricultural Sciences (74) ir. W.J.J.M. Kempes

- (72) Dong Chen
Haiyan Song
Shuxia Sun
Jing Li
Guoliang Jiang
Meiyan Tu
Hongjiang Xie
(41) 25.07.2023
(31) 202210034428.2
(32) 13.01.2022
(33) China

(51) E01C 13/04
E01C 5/20
E01C 13/06
(21) 2030565
(22) 17.01.2022
(54) A method for installing an outdoor gravel-based playing surface
(71) RECREATIONAL SYSTEMS INTERNATIONAL B.V.
(74) ir. A. Blokland c.s.
(72) Hans Marcel Martha Borgers
Arnoud Frederik Fiolet

(51) E04B 2/74
(21) 2030530
(22) 13.01.2022
(54) ROOM DIVIDER SYSTEM AND METHOD OF ASSEMBLY
(71) Decoriginals B.V.
(74) ir. H.A. Witmans c.s.
(72) Arnoldus Adrianus Josephus Maria de Leijer
(41) 25.07.2023

(51) E21B 43/24
E21B 49/00
(21) 2030575
(22) 17.01.2022
(54) SIMULATION EXPERIMENT DEVICE FOR ROCK FORMATION FRACTURING UNDER HIGH TEMPERATURE CONDITIONS
(71) China University of Petroleum (East China)
(74) ir. M.B. Plaggenborg
(72) Peng Jia
Feng Sun
Qing Dong
Shifeng Xue
Bingbing Zhao
Wei Huang

(51) F03B 13/00
F04B 1/00
(21) 2030522
(22) 13.01.2022
(54) HYDRAULIC AND HYDROELECTRIC POWER GENERATION DEVICE
(71) Linyi Hedong Dongfang Shengshi Energy Research Institute
(74) ir. W.J.J.M. Kempes
(72) Hongting Liu
Lei Liu

(51) F03D 13/25
B66C 23/52
B66C 23/18
F03D 13/10
(21) 2030555
(22) 14.01.2022
- (54) Crane and method for handling of one or more wind turbine components
(71) Itrec B.V.
(74) ir. J.C. Volmer c.s.
(72) Joop Roodenburg
Ronny Lambertus Waltherus Nouwens

(51) F16K 17/10
G05D 16/06
F16K 31/383
F16K 31/126
F16K 1/42
F16K 17/04
(21) 2030554
(22) 14.01.2022
(54) Safety switch valve for a gas shut-off valve assembly of a pressure gas line
(71) gAvilar B.V.
(74) ir. A. Blokland c.s.
(72) Petrus Jacobus Maria Klijs
Frank Daniël Eisenga

(51) G01N 15/08
G01N 5/02
(21) 2033583
(22) 21.11.2022
(54) INSTRUMENT FOR DETERMINING OIL ABSORPTION RATE OF FIBERS IN ASPHALT MIXTURE
(71) Jilin Jianzhu University
(74) ir. M.B. Plaggenborg
(72) Yong Wang
Ruize Zhao
Jianan Wang
Chenglin Shi
Dongye Lv
(31) 202220101802.1
(32) 16.01.2022
(33) China

(51) G01N 15/08
G01N 33/24
(21) 2030523
(22) 13.01.2022
(54) EXPERIMENTAL DEVICE FOR SOLUTE TRANSPORT IN CONFINED AQUIFER
(71) Chinese Academy of Geological Sciences
(74) ir. W.J.J.M. Kempes
(72) Ying Sun
Liping Du
Zhenhua Zhao
Guozhang Xing
Yaoyao Zhang
Kai Liu
Peng Li
Zhenhao Xu
Shanshan Wang

(41) 25.07.2023
(51) G01N 21/45
(21) 2032418
(22) 07.07.2022
(54) PROBE-TYPE HYDROGEN CONCENTRATION SENSOR FOR F-P INTERFEROMETERS BASED ON HOLLOW-CORE FIBERS
(71) Zhuhai MUST Science and Technology Research Institute
(74) ir. M.B. Plaggenborg
(72) Jianqing Li
Yingfang Zhang
- (31) 202220088233.1
(32) 14.01.2022
(33) China

(51) G01N 21/552
(21) 2030544
(22) 13.01.2022
(54) OPTICAL MICROSCOPE BASED ON SURFACE PLASMON RESONANCE
(71) Wenzhou Medical University
(74) ir. M.B. Plaggenborg
(72) Qingwen Zhang
Yi Wang
(41) 25.07.2023

(51) G01N 33/38
G01N 11/06
(21) 2030581
(22) 17.01.2022
(54) GAP FLUIDITY TEST DEVICE FOR FILLING MORTAR
(71) Changsha University
(74) ir. M.B. Plaggenborg
(72) Ailifeila Aierken
Shilin Luo
Linlin Chong
Ju Yi
Jin Chang
(41) 25.07.2023

(51) G01V 3/10
(21) 2030579
(22) 17.01.2022
(54) INDOOR PHYSICAL SIMULATION TEST DEVICE FOR SEMI-AIRBORNE TRANSIENT ELECTROMAGNETIC EXPLORATION TECHNOLOGY
(71) Chengdu University of Technology
(74) ir. M.B. Plaggenborg
(72) Song Gao
Ruochen Liu
Hu He
Dengke Li
Ziyue Liu
Xuben Wang
(41) 25.07.2023

(51) G03F 7/30
(21) 2030535
(22) 13.01.2022
(54) Method to control the solid content of a development liquid for developing a relief precursor, associated washer apparatus, and associated system
(71) XSYS PREPRESS N.V.
(74) dr. ir. G.J.C. Verdijck c.s.
(72) Bart Marc Luc Wattyn
(41) 25.07.2023

(51) G05D 1/02
(21) 2030519
(22) 13.01.2022
(54) Werkwijze voor het toepassen van een systeem voor het transporteren van producten alsmede dergelijk systeem op zich.
(71) Vanderlande Industries B.V.
(74) ir. A. Blokland c.s.
(72) Karlijn Johanna Catharina Fransen
Jozef Antonius Wilhelmus Maria van Eekelen
(41) 25.07.2023

(51) G06F 16/901	(72) Bo Liu	(72) Adel A. Elsherbini
(21) 2033754	Xiangqun Xu	Johanna Swan
(22) 19.12.2022	(41) 25.07.2023	Shawna M. Liff
(54) METHOD FOR INTERCONNECTING DATA LAKE AND RELATIONAL DATABASE	(51) G08C 19/00	Julien Sebot
(71) Nanhu laboratory	(21) 2033955	(31) 17/354,773
Beijing Big Data Advanced Technology Research Institute	(22) 12.01.2023	(32) 22.06.2021
(74) drs. C.M.A. Quintelier	(54) CONTROLEMODULE VOOR EEN ENERGIEBEHEERSYSTEEM EN EEN WERKWIJZE VOOR HET AANSTUREN VAN EEN ENERGIEBEHEERSYSTEEM MET BEHULP VAN DE CONTROLEMODULE	(33) United States of America
(72) Wei Chen	(71) QBUS NV	(51) H01L 31/0224
Tao Zhang	(74) ir. M.B. Plaggenborg	(21) 2033599
Chenxi Yu	(72) Tom Vanden Bussche	(22) 23.11.2022
Zhiling Chen	(31) 2022/5026	(54) SOLAR MODULE
Lei Zhang	(32) 14.01.2022	(71) Zhejiang Jinko Solar Co., Ltd.
Hao Liu	(33) Belgium	JINKO SOLAR CO., LTD.
Qiuye Wang	(51) G16B 20/00	(74) ir. J.C. Volmer c.s.
Yinlong Liu	G16B 25/10	(72) Shiliang Huang
Peng Wang	C12Q 1/6809	Zhiqiu Guo
Zhefeng Liu	(21) 2030574	Hengshuo Zhang
(31) 202210029283.7	(22) 17.01.2022	Ningbo Zhang
(32) 12.01.2022	(54) DIFFERENTIALLY EXPRESSED GENES (DEGS) OF PAEONIA OSTII WATERLOGGING TOLERANCE AND MINING METHOD BASED ON RNA SEQUENCING (RNA-SEQ)	Guohui Hao
(33) China	(71) Zhejiang Institute of Landscape Plants and Flowers (Zhejiang Xiaoshan Institute of Cotton and Bast Fiber Crops Research)	(31) 202210037575.5
(51) G06K 19/077	(74) ir. M.B. Plaggenborg	(32) 13.01.2022
(21) 2030540	(72) Huichun Liu	(33) China
(22) 13.01.2022	Jianghua Zhou	(51) H01L 31/0224
(54) PREPARATION METHOD FOR VEHICLE-MOUNTED RFID ELECTRONIC TAG	Jiaqiang Zhang	(21) 2033600
(71) Dongguan Yonghuahao Information Technology Co., Ltd.	Wenting Xu	(22) 23.11.2022
(74) ir. M.B. Plaggenborg	Kaiyuan Zhu	(54) SOLAR MODULE
(72) Linyi Chen	(51) H01L 25/065	(71) JINKO SOLAR CO., LTD.
Guangxue Chen	H01L 21/60	Zhejiang Jinko Solar Co., Ltd.
Chen Chen	H01L 23/538	(74) ir. J.C. Volmer c.s.
Haozhi Chen	H01L 23/498	(72) Shiliang Huang
(41) 19.07.2023	(21) 2034848	Zhiqiu Guo
(51) G06N 3/04	(22) 04.11.2021	Hengshuo Zhang
G06K 9/62	(54) MICROELECTRONIC STRUCTURES INCLUDING GLASS CORES	Guohui Hao
G06F 18/24	(62) 2029640 (04.11.2021)	Ningbo Zhang
(21) 2032560	(71) Intel Corporation	(31) 202210037606.7
(22) 21.07.2022	(74) dr. A. Krebs	(32) 13.01.2022
(54) DEEP LEARNING MODEL PERFORMANCE EVALUATION METHOD AND SYSTEM	(72) Srinivas V. Pietambaram	(33) China
(71) The Third Geoinformation Mapping Institute of Ministry of Natural Resources	Sai Vadlamani	(51) H01M 4/1395
(74) ir. W.J.J.M. Kempes	Gang Duan	H01M 4/70
(72) Li Liu	Bharat Prasad Penmecha	H01M 4/38
Xuehu Wen	Tarek A. Ibrahim	H01M 4/04
Qi Zhou	(31) 17/124,352	H01M 4/66
Weiqing Li	(32) 16.12.2020	H01M 10/052
Xianmin Dong	(33) United States of America	H01M 10/0562
(31) 202210034162.1	(51) H01L 25/065	H01M 10/0585
(32) 13.01.2022	H01L 23/00	H01M 10/0565
(33) China	H01L 25/00	H01M 4/134
(51) G06N 3/04	H01L 21/683	(21) 2030534
G06Q 10/06	(21) 2034918	(22) 13.01.2022
G06N 3/08	(22) 20.05.2022	(54) ELECTRODE WITH CARBON NANOTUBE SCAFFOLD
(21) 2030583	(54) QUASI-MONOLITHIC HIERARCHICAL INTEGRATION ARCHITECTURE	(71) LionVolt B.V.
(22) 17.01.2022	(62) 2031953 (20.05.2022)	(74) ir. H.A. Witmans c.s.
(54) A METHOD AND DEVICE FOR EVALUATING BEHAVIORAL ETIQUETTE DIMENSIONS FOR INTELLIGENT INTERVIEWS	(71) Intel Corporation	(72) Mahmoud Ameen
(71) Shandong Women's University	(74) dr. A. Krebs	Sathiyaraj Kandhasamy
Qilu University of Technology		Bihag Anothumakkool
(74) ir. M.B. Plaggenborg		Sandeep Unnikrishnan
		Freddy Roozeboom
		(41) 25.07.2023
		(51) H01Q 1/38
		H01Q 1/48
		H01Q 5/28
		H01Q 5/10
		H01Q 1/50
		(21) 2030548
		(22) 14.01.2022
		(54) TRI-BAND MINIATURE PATCH ANTENNA WITH OMNIDIRECTIONAL

AND DIRECTIONAL RADIATION
CHARACTERISTICS

(71) Synergy Innovation Institute of GDUT,
Heyuan

(74) ir. M.B. Plaggenborg

(72) Jianfeng Li
Hao Tang
Guohao Zhang
Guohong Huang

(41) 25.07.2023

(51) H05K 1/02

H05K 3/22

H05K 1/05

H05K 3/00

(21) 2030543

(22) 13.01.2022

(54) FLEXIBLE AND STRETCHABLE
TRANSPARENT COPPER CLAD
LAMINATE AND PREPARATION
METHOD THEREOF

(71) Wenzhou Medical University

(74) ir. M.B. Plaggenborg

(72) Qingwen Zhang
Changshun Xu
Yi Wang

(41) 25.07.2023

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) A01G 17/00 C05G 3/00	(47) 25.07.2023 (22) 17.01.2022	(51) A61L 2/08 (11) 2030577
(11) 2031455 (47) 21.07.2023 (22) 30.03.2022	(54) METHOD FOR PRODUCTION OF ALL-MALE OFFSPRING OF PRAWN MACROBRACHIUM ROSENBERGII BY RNA-INTERFERING ON SEX- DETERMINING GENE DOUBLESEX (MRDSX) EXPRESSION	(47) 25.07.2023 (22) 17.01.2022
(54) ORGANIC-INORGANIC COMPOUND FERTILIZER FOR MULBERRY TREES AND PREPARATION METHOD THEREOF	(73) SHANGHAI OCEAN UNIVERSITY (72) Gaofeng Qiu Xue Liu Qiliang Wang Yaoting Dong	(54) INSTRUMENT DISINFECTION DEVICE FOR INFECTIOUS DISEASE DEPARTMENT (73) The Second Affiliated Hospital and Yuying Children's Hospital of Wenzhou Medical University
(73) Institute of Economic Crops, Hubei Academy of Agricultural Sciences	(74) ir. M.B. Plaggenborg	(72) Guangyao Zhou Jie Li Peipei Fang Gelu Zhu Chenwei Pan Shanshan Huang Shaoxun Li
(72) Die Hu Zhaoxia Dong Cheng Zhang Yong Li Cui Yu Rongli Mo Xingming Hu Zhixian Zhu Wen Deng	(51) A01M 29/18 A01M 29/20 A01M 29/10 A01M 29/16	(74) ir. M.B. Plaggenborg
(74) ir. M.B. Plaggenborg	(11) 2033655 (47) 21.07.2023 (22) 02.12.2022	(51) A61L 27/54 A61L 27/12 A61F 2/82 B33Y 70/10 B33Y 80/00
(31) 202111651732.3 (32) 30.12.2021 (33) China	(54) A LASER SHOCK WAVE ANTI-BIRD DEVICE (73) HUANENG RENEWABLES CORPORATION LIMITED HEBEI BRANCH	(11) 2030539 (47) 25.07.2023 (22) 13.01.2022
(51) A01H 4/00 (11) 2034256 (47) 21.07.2023 (22) 02.03.2023	(72) Hongsheng Yang Guipeng Li Haiyu Zhao Tao Wu Qiang Qiao Yi Liu	(54) GRADIENT OSTEOCHONDRAL BIONIC SCAFFOLD FOR INTEGRATED DIAGNOSIS AND TREATMENT AND PREPARATION METHOD THEREOF (73) Dongguan University Of Technology (72) Jiahua Liang Nan Li Shenggui Chen
(54) A METHOD FOR RAPID PROPAGATION OF HIPPEASTRUM RUTILUM BY TISSUE CULTURE AND A CULTURE MEDIUM	(74) dr. R.C. van Duijvenbode c.s.	(74) ir. M.B. Plaggenborg
(73) CHONGQING THREE GORGES VOCATIONAL COLLEGE	(31) 2022112709916 (32) 17.10.2022 (33) China	(51) A63F 13/214 A63F 13/218 A63F 13/235 A63F 13/814
(72) Jian Yan Jiyu Chen Xia Xiao Yuan Li Jiyu Chen	(51) A47F 5/00 (11) 2030536 (47) 19.07.2023 (22) 13.01.2022	(11) 2033010 (47) 21.07.2023 (22) 13.09.2022
(74) dr. R.C. van Duijvenbode c.s.	(54) BOOK DISPLAY STAND (73) Peking University (72) Yanqi Liu	(54) Wireless dance mat, base device and method of communication
(31) 2022102644898 (32) 17.03.2022 (33) China	(74) ir. M.B. Plaggenborg	(51) L-TEK SPÓLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA
(51) A01K 67/033 A01K 5/02	(51) A61K 9/16 A61K 9/107 A61K 9/14	(72) Katarzyna Krupnik Tomasz Krupnik Piotr Chmiel
(11) 2030520 (47) 25.07.2023 (22) 13.01.2022	(11) 2030822 (47) 25.07.2023 (22) 04.02.2022	(74) ir. W.J.J.M. Kempes (31) P.438937 (32) 13.09.2021 (33) Poland
(54) A method of preparing and supplying humidified feed to insects and a system for preparing and supplying humidified feed to insects	(54) Method for producing a CBD comprising liquid or solid and use thereof (73) Food4Innovations Ventures B.V. (72) Jolieke Monica Johanna Willems Karen Elisabeth Brink Wouter Bernardus Cornelius de Heij	(51) B01J 38/48 B01J 29/90 F23G 7/07 B01J 29/48 B01J 38/02 B01J 38/14
(73) VDL Agrotech B.V. (72) Tim van Heertum Marinus Lambertus Maria Beniers	(74) dr. A. Ellens c.s.	(11) 2030526
(74) ir. A. Blokland c.s.	(31) 2030552 (32) 14.01.2022 (33) Netherlands	
(51) A01K 67/033 C12N 15/113		
(11) 2030573		

- (47) 19.07.2023
(22) 13.01.2022
(54) METHOD FOR ACTIVATING AND REGENERATING DEACTIVATED CATALYST IN CHLORINE-CONTAINING VOCS CATALYTIC COMBUSTION PROCESS
(73) Zhejiang University
ZHEJIANG SCI-TECH UNIVERSITY
(72) Xiaoping Dong
Xiaole Weng
Lujun Cheng
Pengfei Sun
(74) ir. W.J.J.M. Kempes
(51) B23K 26/362
(11) 2030542
(47) 25.07.2023
(22) 13.01.2022
(54) INTELLIGENT ELECTRIC ACTUATOR MANUFACTURING PRODUCTION LINE
(73) Tianjin Sino-German University of Applied Sciences
(72) Zhili Zhang
Lifeng Du
Qiming Fan
Xiangbin Zhao
Yizhu Liu
Yunlong Li
Chunping Liu
(74) ir. M.B. Plaggenborg
(51) B23K 37/00
B23K 37/02
B41J 3/407
B41J 3/44
B23K 31/02
(11) 2030578
(47) 25.07.2023
(22) 17.01.2022
(54) BUNDLED-BAR LABEL WELDING SYSTEM BASED ON MACHINE VISION
(73) GUANGDONG UNIVERSITY OF PETROCHEMICAL TECHNOLOGY
(72) Xingang Wang
Qian Wang
Yinqing Chen
Huawei Zhang
Yebin Cai
Dacheng Wang
Baoyan Wang
(74) ir. M.B. Plaggenborg
(51) B25J 19/00
B25J 11/00
(11) 2030524
(47) 25.07.2023
(22) 13.01.2022
(54) MOUNTING BASE FOR AUTOMATIC FEEDING MECHANICAL ARM
(73) Dezhou University
(72) Juan Yang
Haorui Liu
(74) ir. W.J.J.M. Kempes
(51) B41J 15/00
B41J 11/00
B41J 15/16
(11) 2030547
(47) 25.07.2023
(22) 14.01.2022
- (54) ROLL PRINTER WITH LOOP FORMING DEVICE SUITABLE FOR STIFF MEDIA
(73) CANON PRODUCTION PRINTING HOLDING B.V.
(72) Jeroen M. van Willigen
(74) ir. M.J. Groen
(51) B41M 5/00
(11) 2030551
(47) 25.07.2023
(22) 14.01.2022
(54) Printing primer composition for adjusting a substrate
(73) Xeikon Manufacturing N.V.
(72) Yolanda Justo Zarraquiños
Sylwia Szwed-Furmanska
Wouter Jeroom Maria Van Gaens
Frank De Voeght
Lode Erik Dries Deprez
Werner Jozef Johan Op de Beeck
(74) dr. ir. G.J.C. Verdijck c.s.
(51) B61K 9/08
(11) 2030518
(47) 25.07.2023
(22) 13.01.2022
(54) Werkwijze en systeem voor het meten van spoorspatting van een deel van een spoorrails.
(73) Dual Inventive Holding B.V.
(72) Lex Josephus Maria van der Poel
(74) ir. A. Blokland c.s.
(51) B62H 3/00
B62H 3/04
B62H 5/00
(11) 2028292
(47) 21.07.2023
(22) 26.05.2021
(54) Rijwielparkeerinrichting voorzien van een aanbindelement
(73) Kooymans Beheer BV
(72) Antonius Gerardus Petrus Johannes Kooijmans
(74) ir. G.J.M. Verhees
(31) 2025674
(32) 26.05.2020
(33) Netherlands
(51) B65G 33/24
B65G 65/46
(11) 2031604
(47) 21.07.2023
(22) 15.04.2022
(54) FEEDING STRUCTURE OF SCREW CONVEYOR AND SCREW CONVEYOR
(73) Wuhu Aide Transportation Machinery Co., Ltd
(72) Yong Zhou
Kailing Li
Xiaohua Fang
Shasha Cao
Bingjie Cao
Jiurong Yang
Zhen Jia
(74) dr. R.C. van Duijvenbode c.s.
(31) 202111542155.4
(32) 16.12.2021
(33) China
(51) C01B 3/04
(11) 2032782
- (47) 25.07.2023
(22) 17.08.2022
(54) WERKWIJZE VOOR HET BEREIDEN VAN M-MOF NANOMATERIALEN MET ELEKTROKATALYTISCHE ACTIVITEIT
(73) HENAN AGRICULTURAL UNIVERSITY
(72) Hui Li
Meirong Song
Xiaoyu Liang
Chaoyang Lu
Guangce Jiang
Xianfu Zheng
Xin Li
Xiangmeng Chen
(74) ir. M.B. Plaggenborg
(51) C04B 38/06
C04B 35/105
C04B 35/106
C04B 35/64
(11) 2030582
(47) 25.07.2023
(22) 17.01.2022
(54) ALUMINIUM-MAGNESIUM-BASED POROUS CERAMIC COMPONENT FOR METAL LIQUID PURIFIER AND PREPARATION METHOD OF ALUMINIUM-MAGNESIUM-BASED POROUS CERAMIC COMPONENT
(73) Luoyang Kechuang New Materials Co., Ltd.
(72) Junqiang Ma
(74) ir. M.B. Plaggenborg
(51) C07K 1/36
C12P 21/00
C12P 39/00
C07K 1/34
C07K 1/16
(11) 2030556
(47) 25.07.2023
(22) 14.01.2022
(54) METHOD FOR BIOSYNTHESIZING CYCLOALIPHATIC PEPTIDE SURFACTANT
(73) Zhejiang Academy of Agricultural Sciences
(72) Xingning Xiao
Wentao Lv
Jiang Zhu
Hua Yang
Caihong Hu
Wen Wang
Lingyan Ma
Yingping Xiao
(74) ir. W.J.J.M. Kempes
(51) C07K 14/79
G01N 30/06
(11) 2031571
(47) 25.07.2023
(22) 13.04.2022
(54) BINDING BUFFER FOR LACTOFERRIN EXTRACTION, PREPARATION METHOD AND APPLICATION THEREOF, AND METHOD FOR DETECTING BOVINE LACTOFERRIN
(73) Beijing Meizheng Biotechnology Co., Ltd.
Shandong Meizheng Biotechnology Co., Ltd.
(72) Dongxia Wu

Hao Gu	CLEANING CLOTH FOR SPECTACLE	(74) ir. H.A. Witmans c.s.
Jiapeng Liu	LENSES	(51) F03B 13/00
Xiumei Tian	(73) Beijing Institute of Technology	F04B 1/00
(74) ir. M.B. Plaggenborg	(72) Yang Bai	(11) 2030522
(31) 202210034444.1	(74) dr. R.C. van Duijvenbode c.s.	(47) 25.07.2023
(32) 13.01.2022	(31) N2030531	(22) 13.01.2022
(33) China	(32) 13.01.2022	(54) HYDRAULIC AND HYDROELECTRIC
(51) C08F 222/20	(33) Netherlands	POWER GENERATION DEVICE
C08F 2/48	(51) C12M 1/00	(73) Linyi Hedong Dongfang Shengshi Energy
C08K 5/08	A23L 33/22	Research Institute
C08K 7/26	A23L 2/38	(72) Hongting Liu
C08K 9/06	C12G 3/025	Lei Liu
A61K 6/69	C12G 3/024	(74) ir. W.J.J.M. Kempes
(11) 2030558	(11) 2032346	(51) F03D 13/25
(47) 25.07.2023	(47) 25.07.2023	B66C 23/52
(22) 14.01.2022	(22) 30.06.2022	B66C 23/18
(54) HYDROPHOBIC SELF-CLEANING	(54) SYSTEM FOR PREPARING LOW GI	F03D 13/10
RESIN SLURRY, HYDROPHOBIC SELF-	FERMENTATION PRODUCT AND	(11) 2030555
CLEANING RESIN DENTAL MATERIAL	USE THEREOF FOR STABILIZING	(47) 25.07.2023
AND APPLICATION THEREOF	GLYCEMIC INDEX	(22) 14.01.2022
(73) Anhui Medical University	(73) Greenyn Biotechnology Co., Ltd.	(54) Crane and method for handling of one or
(72) Ying Cao	(72) Pang-Kuei Hsu	more wind turbine components
Quanli Li	Yu-Cheng Lin	(73) Itrec B.V.
Le Zhang	Chia-Feng Wu	(72) Joop Roodenburg
Wenjuan Zhang	(74) G.R. Sach	Ronny Lambertus Waltherus Nouwens
Jialong Chen	(51) C12Q 1/6895	(74) ir. J.C. Volmer c.s.
Siyuan Chen	(11) 2032070	(51) F16C 35/063
Xiangyang Li	(47) 25.07.2023	H05B 6/10
Shunli Zheng	(22) 02.06.2022	B25H 3/02
Qin Rao	(54) MOLECULAR MARKER PRIMER PAIR	(11) 2033413
Ling Weng	FOR FLESH COLOR OF LOQUAT, KIT,	(47) 21.07.2023
Xiaowei Wang	DETECTION METHOD AND USE	(22) 28.10.2022
(74) ir. W.J.J.M. Kempes	(73) Institute of Horticulture, Sichuan	(54) Carry box with integrated induction
(51) C08J 9/28	Academy of Agricultural Sciences	heater for annular bearing component
(11) 2027080	(72) Dong Chen	comprising a top box
(47) 21.07.2023	Haiyan Song	(73) Aktiebolaget SKF
(22) 09.12.2020	Shuxia Sun	(72) Alberto Javier Herrera Caballero
(54) METHOD FOR PREPARING	Jing Li	Jiaji Zhao
NANOCELLULOSE/POLYVINYL	Guoliang Jiang	Mitrut Ilie
ALCOHOL REINFORCED CHITOSAN	Meiyan Tu	(74) J. Hoekstra
AEROGEL	Hongjiang Xie	(31) 102021214235.4
(73) Jiangxi University of Science and	(74) ir. W.J.J.M. Kempes	(32) 13.12.2021
Technology	(31) 202210034428.2	(33) Germany
Ganjiang New Area Abler Particle	(32) 13.01.2022	(51) F16K 17/10
Technology Research Institute Co., Ltd.	(33) China	G05D 16/06
(72) Shixian Xiong	(51) E01C 13/04	F16K 31/383
Dianyu E	E01C 5/20	F16K 31/126
Sizhao Zhang	E01C 13/06	F16K 1/42
Zhengquan Li	(11) 2030565	F16K 17/04
Qi Xiao	(47) 25.07.2023	(11) 2030554
Ruiping Zou	(22) 17.01.2022	(47) 25.07.2023
Feng Ding	(54) A method for installing an outdoor gravel-	(22) 14.01.2022
(74) ir. F.A. Geurts c.s.	based playing surface	(54) Safety switch valve for a gas shut-off
(31) 202010274620.X	(73) RECREATIONAL SYSTEMS	valve assembly of a pressure gas line
(32) 09.04.2020	INTERNATIONAL B.V.	(73) gAvilar B.V.
(33) China	(72) Hans Marcel Martha Borgers	(72) Petrus Jacobus Maria Klijs
(51) C09K 3/18	Arnoud Frederik Fiolet	Frank Daniël Eisenga
C11D 3/00	(74) ir. A. Blokland c.s.	(74) ir. A. Blokland c.s.
A01N 31/02	(51) E04B 2/74	(51) G01N 15/08
C11D 1/00	(11) 2030530	G01N 33/24
(11) 2032698	(47) 25.07.2023	(11) 2030523
(47) 25.07.2023	(22) 13.01.2022	(47) 25.07.2023
(22) 08.08.2022	(54) ROOM DIVIDER SYSTEM AND	(22) 13.01.2022
(54) ANTIBACTERIAL AND ANTI-	METHOD OF ASSEMBLY	(54) EXPERIMENTAL DEVICE FOR SOLUTE
FOG CLEANING SOLUTION	(73) Decoriginals B.V.	TRANSPORT IN CONFINED AQUIFER
FOR SPECTACLE LENSES, AND	(72) Arnoldus Adrianus Josephus Maria de	(73) Chinese Academy of Geological
ANTIBACTERIAL AND ANTI-FOG	Leijer	Sciences

- (72) Ying Sun
Liping Du
Zhenhua Zhao
Guozhang Xing
Yaoyao Zhang
Kai Liu
Peng Li
Zhenhao Xu
Shanshan Wang
(74) ir. W.J.J.M. Kempes
-
- (51) G01N 21/552
(11) 2030544
(47) 25.07.2023
(22) 13.01.2022
(54) OPTICAL MICROSCOPE BASED ON SURFACE PLASMON RESONANCE
(73) Wenzhou Medical University
(72) Qingwen Zhang
Yi Wang
(74) ir. M.B. Plaggenborg
-
- (51) G01N 33/38
G01N 11/06
(11) 2030581
(47) 25.07.2023
(22) 17.01.2022
(54) GAP FLUIDITY TEST DEVICE FOR FILLING MORTAR
(73) Changsha University
(72) Ailifeila Aierken
Shilin Luo
Linlin Chong
Ju Yi
Jin Chang
(74) ir. M.B. Plaggenborg
-
- (51) G01S 7/35
G01S 13/42
G01S 13/58
G01S 13/88
G01S 13/95
G01S 13/931
(11) 2029890
(47) 21.07.2023
(22) 24.11.2021
(54) RADAR APPARATUS, SYSTEM, AND METHOD
(73) Intel Corporation
(72) Chulong Chen
Alon Cohen
Yaniv Avital
Thushara Hewavithana
Moshe Teplitsky
Iliia Yoffe
Adi Panzer
Ophir Shabtay
Lior Maor
(74) dr. A. Krebs
(31) PCT/US2020/066996
(32) 24.12.2020
(33) United States of America
-
- (51) G01S 7/40
G01S 13/931
G01S 13/58
G01S 13/88
G01S 13/42
G01S 13/02
(11) 2029866
(47) 21.07.2023
(22) 23.11.2021
- (54) RADAR APPARATUS, SYSTEM, AND METHOD
(73) Intel Corporation
(72) Thushara Hewavithana
Lior Maor
Ophir Shabtay
Hagay Barel
Arnaud Amadjikpe
Dan Ohev Zion
Moshe Teplitsky
Merav Sicron
Shengbo Xu
Solomon Goldgraber Casspi
Ofer Markish
Oren Shalita
Ran Hadad
Alon Cohen
(74) dr. A. Krebs
(31) PCT/US20/66997
(32) 24.12.2020
(33) United States of America
-
- (51) G01S 13/87
G01S 7/41
G01S 7/35
G01S 13/00
G01S 13/32
G01S 13/34
G01S 13/44
G01S 13/88
G01S 13/931
G01S 13/93
(11) 2030462
(47) 21.07.2023
(22) 07.01.2022
(54) RADAR APPARATUS, SYSTEM, AND METHOD
(73) Intel Corporation
(72) Leor Banin
Arnaud Amadjikpe
Tae-Young Yang
Matan Pessach
Ophir Shabtay
Baruch Schiffmann
Nati Dinur
Yuval Amizur
Hila Hazensprung
Nir Dvorecki
Oren Shalita
Alon Cohen
(74) dr. A. Krebs
(31) PCT/US2021/016983
(32) 07.02.2021
(33) United States of America
-
- (51) G01V 3/10
(11) 2030579
(47) 25.07.2023
(22) 17.01.2022
(54) INDOOR PHYSICAL SIMULATION TEST DEVICE FOR SEMI-AIRBORNE TRANSIENT ELECTROMAGNETIC EXPLORATION TECHNOLOGY
(73) Chengdu University of Technology
(72) Song Gao
Ruochen Liu
Hu He
Dengke Li
Ziyue Liu
Xuben Wang
- (74) ir. M.B. Plaggenborg
-
- (51) G03F 7/30
(11) 2030535
(47) 25.07.2023
(22) 13.01.2022
(54) Method to control the solid content of a development liquid for developing a relief precursor, associated washer apparatus, and associated system
(73) XSYS PREPRESS N.V.
(72) Bart Marc Luc Wattyng
(74) dr. ir. G.J.C. Verdijck c.s.
-
- (51) G05D 1/02
(11) 2030519
(47) 25.07.2023
(22) 13.01.2022
(54) Werkwijze voor het toepassen van een systeem voor het transporteren van producten alsmede dergelijk systeem op zich.
(73) Vanderlande Industries B.V.
(72) Karlijn Johanna Catharina Fransen
Jozef Antonius Wilhelmus Maria van Eekelen
(74) ir. A. Blokland c.s.
-
- (51) G06K 19/077
(11) 2030540
(47) 19.07.2023
(22) 13.01.2022
(54) PREPARATION METHOD FOR VEHICLE-MOUNTED RFID ELECTRONIC TAG
(73) Dongguan Yonghuahao Information Technology Co., Ltd.
(72) Linyi Chen
Guangxue Chen
Chen Chen
Haozhi Chen
(74) ir. M.B. Plaggenborg
-
- (51) G06N 3/04
G06Q 10/06
G06N 3/08
(11) 2030583
(47) 25.07.2023
(22) 17.01.2022
(54) A METHOD AND DEVICE FOR EVALUATING BEHAVIORAL ETIQUETTE DIMENSIONS FOR INTELLIGENT INTERVIEWS
(73) Shandong Women's University
Qilu University of Technology
(72) Bo Liu
Xiangqun Xu
(74) ir. M.B. Plaggenborg
-
- (51) G16B 20/00
G16B 25/10
C12Q 1/6809
(11) 2030574
(47) 25.07.2023
(22) 17.01.2022
(54) DIFFERENTIALLY EXPRESSED GENES (DEGS) OF PAEONIA OSTII WATERLOGGING TOLERANCE AND MINING METHOD BASED ON RNA SEQUENCING (RNA-SEQ)
(73) Zhejiang Institute of Landscape Plants and Flowers (Zhejiang Xiaoshan

Institute of Cotton and Bast Fiber Crops Research)	Edwin Verplanke
(72) Huichun Liu	Valerie Parker
Jianghua Zhou	Stephen Palermo
Jiaqiang Zhang	(74) dr. A. Krebs
Wenting Xu	(31) US 63/241,900
Kaiyuan Zhu	PCT/US22/42791
(74) ir. M.B. Plaggenborg	(32) 08.09.2021
(51) H01M 4/1395	07.09.2022
H01M 4/70	(33) United States of America
H01M 4/38	United States of America
H01M 4/04	(51) H05K 1/02
H01M 4/66	H05K 3/22
H01M 10/052	H05K 1/05
H01M 10/0562	H05K 3/00
H01M 10/0585	(11) 2030543
H01M 10/0565	(47) 25.07.2023
H01M 4/134	(22) 13.01.2022
(11) 2030534	(54) FLEXIBLE AND STRETCHABLE
(47) 25.07.2023	TRANSPARENT COPPER CLAD
(22) 13.01.2022	LAMINATE AND PREPARATION
(54) ELECTRODE WITH CARBON NANOTUBE SCAFFOLD	METHOD THEREOF
(73) LionVolt B.V.	(73) Wenzhou Medical University
(72) Mahmoud Ameen	(72) Qingwen Zhang
Sathiyaraj Kandhasamy	Changshun Xu
Bihag Anothumakkool	Yi Wang
Sandeep Unnikrishnan	(74) ir. M.B. Plaggenborg
Freddy Roozeboom	
(74) ir. H.A. Witmans c.s.	
(51) H01Q 1/38	
H01Q 1/48	
H01Q 5/28	
H01Q 5/10	
H01Q 1/50	
(11) 2030548	
(47) 25.07.2023	
(22) 14.01.2022	
(54) TRI-BAND MINIATURE PATCH ANTENNA WITH OMNIDIRECTIONAL AND DIRECTIONAL RADIATION CHARACTERISTICS	
(73) Synergy Innovation Institute of GDUT, Heyuan	
(72) Jianfeng Li	
Hao Tang	
Guohao Zhang	
Guohong Huang	
(74) ir. M.B. Plaggenborg	
(51) H04L 67/02	
G06F 9/48	
G06F 9/50	
H04L 47/125	
H04L 67/1001	
(11) 2032986	
(47) 21.07.2023	
(22) 08.09.2022	
(54) SYSTEMS, APPARATUS, AND METHODS TO IMPROVE WEBSERVERS USING DYNAMIC LOAD BALANCERS	
(73) Intel Corporation	
(72) Vrinda Khirwadkar	
Rahul Shah	
Amruta Misra	
Mrittika Ganguli	
Pushpendra Kumar	
Niall McDonnell	

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 15/04	A01B 63/111	(33) Germany
A01B 23/02	G05G 1/04	(51) A01B 79/00
(11) EP3760019	(11) EP3841858	A01C 1/04
(21) EP20169184.7	(21) EP20209533.7	A01C 7/04
(47) 26.07.2023	(47) 26.07.2023	A01C 11/02
(22) 10.04.2020	(22) 24.11.2020	A01C 21/00
(54) COULTER FOR A SOIL WORKING IMPLEMENT	(54) WORK VEHICLE	(11) EP3726952
(73) BOEHLERIT GmbH & Co.KG.	(73) Kubota Corporation	(21) EP18833213.4
(72) Bärnthaler, Walter	(72) TANIGAWA, Takuya	(47) 26.07.2023
Burböck, Hannes	MUKAI, Hisao	(87) EP2018085996
(31) 506022019	ODA, Takashi	27.06.2019
(32) 02.07.2019	SERA, Takashi	(22) 19.12.2018
(33) Austria	(31) 2019234516	(54) DEVICES AND METHOD FOR PROTECTING CROP PLANTS AND/OR SOWN SEEDS AGAINST UNWANTED PLANTS
(51) A01B 35/24	(32) 2019234515	(73) Büchel, Patrick
A01B 19/04	(32) 25.12.2019	Ehlers, Robert
A01B 39/22	(32) 25.12.2019	(72) Ehlers, Robert
A01B 39/18	(33) Japan	Büchel, Patrick
(11) EP3808163	(33) Japan	(31) 202017107894 U
(21) EP20000371.3	(51) A01B 69/04	102017131112
(47) 26.07.2023	A01B 79/00	201762610122 P
(22) 12.10.2020	(11) EP3794919	(32) 22.12.2017
(54) HARROW	(21) EP20196050.7	22.12.2017
(73) Pöttinger Landtechnik GmbH	(47) 26.07.2023	(33) Germany
(72) Glassner, Rudolf	(22) 14.09.2020	Germany
(31) 3332019	(54) METHOD AND SYSTEM FOR PLANNING A PATH OF A VEHICLE	United States of America
(32) 16.10.2019	(73) Deere & Company	(51) A01B 79/00
(33) Austria	(72) ANDERSON, Noel W	G01C 3/08
(51) A01B 59/06	(31) 201916577673	G01S 17/88
A01B 69/00	(32) 20.09.2019	G01S 17/89
A01B 76/00	(33) United States of America	G01B 11/14
(11) EP3616486	(51) A01B 73/06	(11) EP3555562
(21) EP19188837.9	(11) EP3466234	(21) EP17882012.2
(47) 26.07.2023	(21) EP17805425.0	(47) 26.07.2023
(22) 29.07.2019	(47) 26.07.2023	(87) AU2017051400
(54) REMOTE TRACTOR CONTROL SYSTEM	(87) BR2017000058	21.06.2018
(73) Deere & Company	07.12.2017	(22) 15.12.2017
(72) McCord, Christopher	(22) 31.05.2017	(54) CROP SCANNER
Voelp IV, Harry	(54) IMPROVEMENTS TO THE FOLDABILITY OF THE ARTICULATED LATERAL CHASSIS OF FARMING MACHINES	(73) Commonwealth Scientific and Industrial Research Organisation
Lampley, Clint	(73) Crucianelli Maquinas Agricolas Do Brasil	(72) JIMENEZ BERNI, Jose Antonio
McCormick, Chris	Comércio, Importação E Exportação LTDA	SALIM, Michael
(31) 201816114653	Talleres Metalurgicos Crucianelli S.A.	SIRAULT, Xavier Raymond Richard
(32) 28.08.2018	(72) CRUCIANELLI, Gustavo	KUFFNER, Peter
(33) United States of America	(31) P160101584	(31) 2017903379
(51) A01B 61/04	(32) 31.05.2016	2016905220
A01B 3/42	(33) Argentina	(32) 22.08.2017
(11) EP3820266	(51) A01B 79/00	16.12.2016
(21) EP19752565.2	A01B 76/00	(33) Australia
(47) 26.07.2023	(11) EP3797570	Australia
(87) IT2019000052	(21) EP20190914.0	(51) A01C 1/08
16.01.2020	(47) 26.07.2023	A01C 7/04
(22) 02.07.2019	(22) 13.08.2020	(11) EP3957144
(54) DIGGING PLOUGH	(54) METHOD FOR TERRAIN MAPPING	(21) EP21185153.0
(73) Moro Aratri S.R.L.	(73) 365FarmNet Group KGaA mbh & Co KG	(47) 26.07.2023
(72) MORO, Andrea	(72) Krudewig, Karl-Heinz	(22) 12.07.2021
(31) 201800007058	(31) 102019125896	(54) SYSTEM FOR DETECTING VIABILITY OF SEEDS
(32) 10.07.2018	(32) 26.09.2019	
(33) Italy		
(51) A01B 63/10		
G05G 11/00		

(73) Deere & Company	(22) 20.09.2017	(54) AGRICULTURAL BALING PRESS AND METHOD FOR OPERATING SAME
(72) Bartelson, Matt D. Johnson, Scott C. Rhodes, Michael L.	(54) CUTTING MEANS FOR LAWNMOWER MACHINE	(73) Usines Claas France S.A.S
(31) 202117301133 202062706264 P	(72) CUCCHI, Cesare	(72) Arnould, Cyrille Leseur, Florentin Rongvaux, Laurent
(32) 26.03.2021 07.08.2020	(31) 201600094956	(31) 102019119872
(33) United States of America United States of America	(32) 21.09.2016	(32) 23.07.2019
(51) A01C 7/10	(33) Italy	(33) Germany
A01C 7/08	(51) A01D 46/253	(51) A01F 15/07
(11) EP3908097	A01D 46/30	A01F 15/08
(21) EP19806094.9	B64C 39/02	(11) EP3706548
(47) 26.07.2023	B64D 1/22	(21) EP18876757.8
(87) EP2019000310	G05D 1/00	(47) 26.07.2023
16.07.2020	B64U 101/00	(87) NO2018050271
(22) 11.11.2019	(11) EP3500086	16.05.2019
(54) METHOD FOR PERFORMING OPEN-LOOP AND/OR CLOSED-LOOP CONTROL OF A METERING WHEEL OF A DISTRIBUTION MACHINE WHILE CARRYING OUT CALIBRATION TESTS AND DISTRIBUTION MACHINE SUITABLE FOR SAME	(21) EP17841224.3	(22) 12.11.2018
(73) RAUCH Landmaschinenfabrik GmbH	(47) 26.07.2023	(54) METHOD AND DEVICE FOR WRAPPING AND TAGGING OF ROUND BALES
(72) RAUCH, Norbert	(87) IL2017050917	(73) Orkel Development AS
(31) 102019000047	22.02.2018	(72) LERVIK, Magnus Nordaas SKRAASTAD, Halvor
(32) 08.01.2019	(22) 17.08.2017	(31) 20171787
(33) Germany	(54) SYSTEM AND METHOD FOR DRONE FLEET MANAGEMENT FOR HARVESTING AND DILUTION	(32) 10.11.2017
(51) A01C 7/20	(73) TEVEL AEROBOTICS TECHNOLOGIES LTD	(33) Norway
A01C 5/06	(72) MAOR, Yaniv	(51) A01F 15/08
(11) EP4037460	(31) 201762465965 P	(11) EP3721702
(21) EP20781629.9	201662376713 P	(21) EP20167793.7
(47) 26.07.2023	(32) 02.03.2017	(47) 26.07.2023
(87) IB2020058834	18.08.2016	(22) 02.04.2020
08.04.2021	(33) United States of America United States of America	(54) AGRICULTURAL BALER WITH BALE FORMATION CONTROL BASED ON POWER REQUIREMENTS AND USAGE
(22) 22.09.2020	(51) A01D 57/04	(73) CNH Industrial Belgium N.V.
(54) AGRICULTURAL TRENCH DEPTH ADJUSTMENT FOR ROW UNIT	(11) EP3811764	(72) McClure, John R.
(73) Precision Planting LLC	(21) EP20203971.5	(31) 201916380346
(72) HODEL, Jeremy	(47) 26.07.2023	(32) 10.04.2019
SCHLIPF, Ben	(22) 26.10.2020	(33) United States of America
SLONEKER, Dillion	(54) STAGGERED HARVESTER HEAD REEL POSITION ADJUSTMENT	(51) A01F 15/08
(31) 201962934826 P	(73) CNH Industrial Belgium N.V.	(11) EP3760031
201962934816 P	(72) Martin, Jethro	(21) EP20181671.7
201962934796 P	Hunt, Cory Douglas	(47) 26.07.2023
201962910271 P	(31) 201916664006	(22) 23.06.2020
201962910254 P	(32) 25.10.2019	(54) AGRICULTURAL BALER AND METHOD FOR OPERATING SAME
201962910240 P	(33) United States of America	(73) Deere & Company
(32) 13.11.2019	(51) A01D 90/14	(72) Gresset, Pascal Perrotin, Frederic Lebeau, Jonathan
13.11.2019	(11) EP3834602	(31) 102019209345
13.11.2019	(21) EP21153238.7	(32) 27.06.2019
03.10.2019	(47) 26.07.2023	(33) Germany
03.10.2019	(22) 21.10.2019	(51) A01F 25/13
03.10.2019	(54) AGRICULTURAL HARVESTING MACHINE	A01F 25/16
(33) United States of America	(73) PÖTTINGER Landtechnik GmbH	(11) EP3223596
United States of America	(72) Hehenberger, Robert	(21) EP15794659.1
United States of America	Prechtl, Wolfgang	(47) 26.07.2023
United States of America	Würzl, Andreas	(87) NL2015050641
United States of America	Weissenböck, Thomas	02.06.2016
United States of America	Pfeiffer, Stefan	(22) 17.09.2015
United States of America	Harrer, Martin	(54) COVERING SYSTEM FOR COVERING A SPACE, FOR INSTANCE FOR STORING BULK MATERIALS, FOR INSTANCE SILAGE, MOUNTING MEANS FOR THE COVERING SYSTEM AND A METHOD FOR FORMING A
(51) A01D 34/73	(31) 102018129598	
(11) EP3515170	(32) 23.11.2018	
(21) EP17767856.2	(33) Germany	
(47) 26.07.2023	(51) A01F 15/04	
(87) EP2017073734	A01F 15/08	
29.03.2018	(11) EP3769606	
	(21) EP20169607.7	
	(47) 26.07.2023	
	(22) 15.04.2020	

COVERING SYSTEM FOR COVERING THE SPACE	(31) 2019143476 (32) 05.08.2019 (33) Japan	(54) METHOD FOR EX VIVO LUNG VENTILATION WITH A VARYING EXTERIOR PRESSURE
(73) Brokers Covering B.V.		(73) TEVOSOL, INC.
(72) SCHROOTEN, Stephanus Gerardus Johannes	(51) A01K 61/00 A01K 63/04	(72) FREED, Darren
HEEZEN, Jan-Willem	(11) EP3422844	(31) 201662343076 P
(31) 2013881	(21) EP17760370.1	(32) 30.05.2016
(32) 26.11.2014	(47) 26.07.2023	(33) United States of America
(33) Netherlands	(87) NO2017050056	
(51) A01G 9/12	08.09.2017	(51) A01N 1/02
(11) EP3501265	(22) 01.03.2017	(11) EP3612026
(21) EP17382883.1	(54) BUOYANCY SYSTEM FOR A FISH PEN	(21) EP18730441.5
(47) 26.07.2023	(73) Akvadesign AS	(47) 26.07.2023
(22) 21.12.2017	(72) JOHNSEN, Trond Otto	(87) IB2018053438
(54) STRIP COMPRISING MULTIPLE PLANT SUPPORT UNITS FOR SUPPORTING A PLANT STEM OF A PLANT	NÆSS, Anders	22.11.2018
(73) A. Raymond et Cie	(31) 20160358	(22) 16.05.2018
(72) Pérez Miñarro, Miquel Romera Beltran, Francesc	(32) 02.03.2016 (33) Norway	(54) SYSTEM FOR SCALE-DOWN THE PROCESSES OF FREEZING AND THAWING AQUEOUS SOLUTIONS OF THERMO-SENSITIVE PHARMACEUTICALS
(51) A01G 23/06	(11) EP3797587	(73) Smartfreez Lda
(11) EP3984354	(21) EP20198465.5	(72) DE BRITO ESTRELA, Rui
(21) EP20201655.6	(47) 26.07.2023	SENA REGO, Pedro Gil
(47) 26.07.2023	(22) 25.09.2020	SILVESTRE DUARTE, Andreia Filipa
(22) 14.10.2020	(54) ADHESIVE PLATE FOR INSECT CATCHING LAMPS	(31) 2017110076
(54) STUMP CRUSHER	(73) Fasmi Srl	(32) 16.05.2017
(73) Dipperfox OÜ	(72) SPINA, Giuseppe	(33) Portugal
(72) KÜLM, Jaana	(31) 201900017315	
(51) A01J 25/12	(32) 26.09.2019	(51) A01N 37/46
A01J 25/15	(33) Italy	A01N 63/00
(11) EP3613281	(51) A01M 7/00	A01P 7/00
(21) EP19191639.4	(11) EP4014732	A01P 3/00
(47) 26.07.2023	(21) EP21211124.9	(11) EP3413714
(22) 14.08.2019	(47) 26.07.2023	(21) EP17704204.1
(54) APPARATUS FOR CHEESE PRODUCTION	(22) 29.11.2021	(47) 26.07.2023
(73) Kalt Maschinenbau AG	(54) AGRICULTURAL DISTRIBUTOR AND METHOD FOR CONTROL AND/OR REGULATION OF AN AGRICULTURAL DISTRIBUTOR	(87) EP2017052532
(72) Grüniger, Siegfried	(73) HORSCH Leeb Application Systems GmbH	17.08.2017
(31) 10072018	(72) Leeb, Theodor	(22) 06.02.2017
(32) 20.08.2018	(31) 102020134151	(54) MIXTURES AND COMPOSITIONS COMPRISING PAENIBACILLUS STRAINS OR FUSARICIDINS AND CHEMICAL PESTICIDES
(33) Switzerland	(32) 18.12.2020	(73) BASF SE
(51) A01J 25/16	(33) Germany	(72) SCHUSTER, Annette
A01J 27/00	(51) A01M 29/08	LIEBMANN, Burghard
(11) EP4014727	(11) EP3541181	JABS, Thorsten
(21) EP21213395.3	(21) EP17794952.6	SIEPE, Isabella
(47) 26.07.2023	(47) 26.07.2023	(31) 16154807
(22) 09.12.2021	(87) EP2017078530	(32) 09.02.2016
(54) SMEARING DEVICE FOR SMEARING THE SIDES OF CHEESE WHEELS	24.05.2018	(33) European Patent Office (EPO)
(73) Kaesaro AG	(22) 08.11.2017	
(72) Nussbaumer, Hanno Lässer, Franz	(54) TRANSPARENT PANE	(51) A01N 43/02
(31) 16382020	(73) Glaswerke Arnold GmbH & Co. KG	(11) EP2552202
(32) 21.12.2020	(72) ARNOLD, Hans-Joachim	(21) EP11760306.8
(33) Switzerland	DEHNER, Hermann	(47) 26.07.2023
(51) A01K 15/02	(31) 102016122030	(87) US2011029988
A61D 9/00	(32) 16.11.2016	29.09.2011
A61H 3/04	(33) Germany	(22) 25.03.2011
(11) EP3970482	(51) A01N 1/02	(54) METHODS AND COMPOSITIONS FOR WEIGHT LOSS
(21) EP20850415.9	(11) EP3462861	(73) SDG, Inc.
(47) 26.07.2023	(21) EP17805438.3	(72) LAU, John, R.
(87) JP2020029594	(47) 26.07.2023	GEHO, Blair, W.
11.02.2021	(87) CA2017050643	(31) 816009
(22) 01.08.2020	07.12.2017	732952
(54) FOUR-LEGGED ANIMAL WHEELCHAIR	(22) 26.05.2017	(32) 15.06.2010
(73) Koreeda, Hiroaki		26.03.2010
(72) Koreeda, Hiroaki		(33) United States of America
		United States of America
		(51) A01N 43/58

A01N 43/60	(31) 10201607858V	C02F 1/76
A01N 47/40	(32) 20.09.2016	C02F 5/14
A01N 43/36	(33) Singapore	C02F 103/02
A01N 43/40	(51) A21C 1/02	(11) EP3986143
(11) EP3923724	A21C 1/14	(21) EP20732941.8
(21) EP20703413.3	B01F 27/2322	(47) 26.07.2023
(47) 26.07.2023	B01F 27/85	(87) EP2020066998
(87) EP2020052340	B01F 27/96	24.12.2020
20.08.2020	B01F 35/212	(22) 18.06.2020
(22) 30.01.2020	B01F 35/221	(54) METHOD FOR OPERATING A
(54) HERBICIDAL COMPOSITIONS	(11) EP3868209	PASTEURIZATION DEVICE
(73) Syngenta Crop Protection AG	(21) EP21156250.9	(73) Red Bull GmbH
(72) SONAWANE, Ravindra	(47) 26.07.2023	(72) THONHAUSER, Philip
NG, Sean	(22) 10.02.2021	RINDERER, Christian
PHADTE, Mangala	(54) KNEADING MACHINE AND METHOD	EDER, Harald
ARMSTRONG, Sarah	FOR PREPARING DOUGH	HANS, Klemens
MCGRANAGHAN, Andrea	(73) SANCASSIANO S.p.A.	CONCIN, Roland
SCUTT, James, Nicholas	(72) DROCCO, Mr. Davide	HERZOG, Daniel
HALL, Gavin, John	(31) 202000003413	(31) 19180981
KANDUKURI, Sandeep, Reddy	(32) 19.02.2020	(32) 18.06.2019
THOMSON, Niall, Rae	(33) Italy	(33) European Patent Office (EPO)
MOORHOUSE, Sian	(51) A22B 5/00	(51) A23G 1/48
WUERFFEL, Raymond, Joseph	A22C 18/00	A23G 3/48
WILLETTS, Nigel, James	(11) EP3945832	A23G 1/50
FELLMANN, Julia	(21) EP20714178.9	A23G 3/50
(31) 201911006079	(47) 26.07.2023	A23G 1/00
(32) 15.02.2019	(87) EP2020057973	A23G 3/34
(33) India	01.10.2020	(11) EP3855928
(51) A01N 43/78	(22) 23.03.2020	(21) EP19772711.8
A01N 43/50	(54) REMOVAL OF ABDOMINAL FAT FROM	(47) 26.07.2023
C07D 277/00	A SLAUGHTERED ANIMAL	(87) EP2019075052
C07D 233/00	(73) Teknologisk Institut	02.04.2020
A61K 31/426	(72) THAARUP, Klaus	(22) 18.09.2019
A61P 35/00	HANSEN, Niels Worsøe	(54) METHODS AND APPARATUS FOR
(11) EP3128842	ANDERSEN, Peter	MANUFACTURING CONFECTIONERY
(21) EP15767925.9	JOHANSEN, Simon Nybo	PIECES
(47) 26.07.2023	HANSEN, Kurt	(73) Kraft Foods Schweiz Holding GmbH
(87) US2015022809	BOCK, Mikkel	(72) DINGLEY, Thomas James
01.10.2015	(31) PA201900356	TWILLEY, Bethan
(22) 26.03.2015	(32) 25.03.2019	ANDRIUSKEVICIUS, Dalius
(54) TREATMENT OF BRCA1-DEFECTIVE	(33) Denmark	VALENTINAS, Ramunas
CANCER OR RESISTANT CANCERS	(51) A22C 13/00	GREWENIG, Heike
(73) City of Hope	A23B 4/10	CAMBIER, Eloise
(72) YEN, Yun	A23B 4/22	(31) 201815689
(31) 201461970737 P	A23L 13/60	(32) 26.09.2018
(32) 26.03.2014	B65D 81/28	(33) United Kingdom
(33) United States of America	(11) EP3510870	(51) A23G 1/54
(51) A01N 59/16	(21) EP18382015.8	A23G 1/50
A01N 25/34	(47) 26.07.2023	(11) EP3451848
A01N 59/20	(22) 16.01.2018	(21) EP16831931.7
C08K 3/22	(54) FOOD CASING WITH ANTIFUNGAL	(47) 26.07.2023
C08K 3/20	PROPERTIES AND METHOD FOR	(87) TR2016050457
C09D 7/61	PRODUCTION THEREOF	12.10.2017
C09D 5/14	(73) VISCOFAN S.A.	(22) 24.11.2016
B82Y 30/00	(72) DE LA FUENTE MELIDA, Clara	(54) FIGURED EGG-SHAPED CHOCOLATE
(11) EP3515193	POHL, Matthias	FOOD PRODUCT WHICH HAS A
(21) EP17853550.6	JAUREGUI ARBIZU, Blanca	SUPPORTIVE NON-EDIBLE INNER
(47) 26.07.2023	(51) A23C 3/027	HOUSING
(87) SG2017050472	A23L 3/358	(73) Solen Cikolata Gida Sanayi Ve Ticaret
29.03.2018	A23L 2/46	Anonim Sirketi
(22) 19.09.2017	A23L 3/00	(72) COBAN, Erdogan
(54) CELL RUPTURE-BASED	A23L 3/02	(31) 201604416
ANTIMICROBIAL SURFACES COATED	C02F 1/44	(32) 05.04.2016
WITH METAL OXIDE NANO-ARRAYS	A23L 3/04	(33) Türkiye
(73) Agency for Science, Technology and	C02F 1/50	(51) A23L 2/54
Research	C02F 9/00	F25D 31/00
(72) ZHANG, Yugen	C12H 1/00	B67D 1/08
YI, Guangshun	C02F 1/00	A47J 31/00

B67D 1/00	A24F 40/10	(22) 02.06.2020
(11) EP3915393	A24F 40/70	(54) ELECTRONIC CIGARETTE
(21) EP20177511.1	(11) EP3700373	PREHEATING METHOD AND
(47) 26.07.2023	(21) EP18795770.9	PREHEATING SYSTEM
(22) 29.05.2020	(47) 26.07.2023	(73) Huizhou Happy Vaping Technology
(54) TANK SYSTEM FOR COOLING	(87) GB2018053029	Limited
A LIQUID WITH THERMAL	02.05.2019	(72) ZHENG, Xianbin
STRATIFICATION	(22) 19.10.2018	ZHANG, Xiyong
(73) Aquis Systems AG	(54) ELECTRONIC AEROSOL PROVISION	LIN, Guangrong
(72) Wawrla, Andreas	DEVICE	(31) 201910562931
(51) A24B 13/00	(73) Nicoventures Trading Limited	(32) 26.06.2019
A24B 15/28	(72) WRIGHT, Jeremy	(33) China
A24B 15/18	(31) 201717489	(51) A24F 40/57
(11) EP3518691	(32) 24.10.2017	A24F 40/65
(21) EP17781279.9	(33) United Kingdom	(11) EP3939452
(47) 26.07.2023	(51) A24F 40/10	(21) EP20832817.9
(87) US2017053449	A24F 40/20	(47) 26.07.2023
05.04.2018	A24F 40/46	(87) CN2020094007
(22) 26.09.2017	(11) EP3831221	30.12.2020
(54) TOBACCO BEADS	(21) EP19212923.7	(22) 02.06.2020
(73) Altria Client Services LLC	(47) 26.07.2023	(54) ELECTRONIC CIGARETTE
(72) CARROLL, Andrew Nathan	(22) 02.12.2019	PREHEATING CONTROL METHOD
SUN, Yan Helen	(54) AEROSOL GENERATING DEVICE	AND PREHEATING CONTROL SYSTEM
(31) 201662400409 P	WITH POROUS CONVECTION HEATER	(73) Huizhou Happy Vaping Technology
(32) 27.09.2016	(73) JT International S.A.	Limited
(33) United States of America	(72) WRIGHT, Alec	(72) LIN, Guangrong
(51) A24B 15/28	(51) A24F 40/57	ZHANG, Xiyong
A24B 13/00	(11) EP3939451	ZHENG, Xianbin
A23G 3/48	(21) EP20831832.9	(31) 201910563768
A23G 3/54	(47) 26.07.2023	(32) 26.06.2019
A61K 31/465	(87) CN2020094081	(33) China
(11) EP3057453	30.12.2020	(51) A24F 47/00
(21) EP14790446.0	(22) 03.06.2020	(11) EP3797614
(47) 26.07.2023	(54) ELECTRONIC CIGARETTE	(21) EP20205073.8
(87) US2014060335	PREHEATING CONTROL METHOD	(47) 26.07.2023
23.04.2015	(73) Huizhou Happy Vaping Technology	(22) 24.10.2014
(22) 14.10.2014	Limited	(54) APPARATUS FOR HEATING
(54) SMOKELESS TOBACCO PASTILLE	(72) ZHANG, Xiyong	SMOKABLE MATERIAL
(73) R. J. Reynolds Tobacco Company	ZHENG, Xianbin	(73) Nicoventures Trading Limited
(72) CANTRELL, Daniel Verdin	LIN, Guangrong	(72) TIAN, Feng
MOLDOVEANU, Serban C.	(31) 201910562913	WILKE, Andrew Paul
MARSHALL, Jerry Wayne	(32) 26.06.2019	PAPROCKI, Benjamin John
(31) 201314055449	(33) China	ROBEY, Raymond John
(32) 16.10.2013	(51) A24F 40/57	ROBINSON, Jesse Eugene
(33) United States of America	(11) EP3939453	(31) 201361897193 P
(51) A24D 3/02	(21) EP20833401.1	(32) 29.10.2013
(11) EP3550995	(47) 26.07.2023	(33) United States of America
(21) EP17821492.0	(87) CN2020094080	(51) A24F 47/00
(47) 26.07.2023	30.12.2020	A24F 40/10
(87) EP2017081479	(22) 03.06.2020	A24F 40/42
21.06.2018	(54) ELECTRONIC CIGARETTE	(11) EP3574775
(22) 05.12.2017	PREHEATING METHOD	(21) EP17895985.4
(54) FILTER SEGMENT ASSEMBLING	(73) Huizhou Happy Vaping Technology	(47) 26.07.2023
DEVICE AND METHOD FOR	Limited	(87) JP2017004487
ASSEMBLING FILTER SEGMENTS	(72) ZHANG, Xiyong	16.08.2018
OF THE TOBACCO PROCESSING	LIN, Guangrong	(22) 08.02.2017
INDUSTRY	ZHENG, Xianbin	(54) SUPPLY METHOD FOR LIQUIDS
(73) Körber Technologies GmbH	(31) 201910562926	(73) Japan Tobacco Inc.
(72) WUTTKE, Nikolai	(32) 26.06.2019	(72) WATANABE, Tomoichi
DIEDRICH, Daniel	(33) China	NAKANO, Takuma
DEPPE, Oliver	(51) A24F 40/57	MATSUMOTO, Hirofumi
EGGERS, Carsten	A24F 40/50	OISHI, Kei
HARTMANN, Florian	A24F 40/65	(51) A41D 13/008
(31) 102016124052	(11) EP3939450	A41D 31/26
(32) 12.12.2016	(21) EP20830815.5	(11) EP3723530
(33) Germany	(47) 26.07.2023	(21) EP18825601.0
(51) A24F 15/01	(87) CN2020094006	(47) 26.07.2023
A24F 40/40	30.12.2020	(87) EP2018084438

20.06.2019	(54) SKI BOOT	(54) MANUFACTURING PROCESS OF
(22) 12.12.2018	(73) OBER ALP S.P.A.	PADDED UPPERS FOR WINTER
(54) PERSONAL EQUIPMENT FOR	(72) CASTELLET, Josep	SHOES AND PADDED UPPER
PROTECTING AGAINST EVENTS	DALVIT, Matteo	OBTAINED ACCORDING TO SAID
ATTRIBUTABLE TO LIGHTNING	SACCHI, Massimiliano	PROCESS
STRIKES	PEGHETTI, Davide	(73) Santoni Societa' Per Azioni
(73) DEHN SE	(31) 201800010517	(72) SANTONI, Giuseppe
(72) SEGER, Siegfried	(32) 22.11.2018	(31) 201900002865
(31) 102017129652	(33) Italy	(32) 27.02.2019
(32) 12.12.2017	(51) A43B 7/10	(33) Italy
(33) Germany	A43B 7/06	(51) A43B 23/17
(51) A41D 13/11	A43B 13/12	(11) EP3571951
(11) EP3217824	A43B 7/08	(21) EP19183283.1
(21) EP15858365.8	(11) EP3752023	(47) 26.07.2023
(47) 26.07.2023	(21) EP19705511.4	(22) 14.05.2015
(87) US2015060228	(47) 26.07.2023	(54) ARTICLE OF FOOTWEAR HAVING A
19.05.2016	(87) EP2019053798	HEEL SYSTEM
(22) 11.11.2015	22.08.2019	(73) NIKE Innovate C.V.
(54) CICAL METAL OR CICAL METAL	(22) 15.02.2019	(72) SMITH, Timothy J.
ALLOY MASK	(54) VENTILATED ARTICLE OF FOOTWEAR	ADAMI, Giovanni
(73) Kuhn, Phyllis	(73) C. & J. Clark International Limited	CAVALIERE, Sergio
(72) Kuhn, Phyllis	(72) LOCKE, Adrian	(31) 201414449699
(31) 201462078656 P	(31) 201802662	(32) 01.08.2014
(32) 12.11.2014	(32) 19.02.2018	(33) United States of America
(33) United States of America	(33) United Kingdom	(51) A43D 8/32
(51) A41D 13/12	(51) A43B 7/12	A43D 95/00
A41D 27/10	(11) EP3614872	A43D 95/02
(11) EP3500120	(21) EP18717964.3	A43D 95/16
(21) EP17754661.1	(47) 26.07.2023	A43D 95/20
(47) 26.07.2023	(87) EP2018060480	A43D 95/22
(87) EP2017070142	01.11.2018	A43D 95/24
22.02.2018	(22) 24.04.2018	A43D 95/26
(22) 09.08.2017	(54) SHOE WITH UPPER AT LEAST	(11) EP4030958
(54) MEDICAL GARMENT TOP	PARTIALLY RENDERED	(21) EP20781683.6
(73) Paul Hartmann AG	IMPERMEABLE	(47) 26.07.2023
(72) LINKE, Markus	(73) Geox S.p.A.	(87) US2020051016
VEIT, Ramona	(72) POLONI, Livio	25.03.2021
GROSSMANN, David	POLEGATO MORETTI, Mario	(22) 16.09.2020
LEISTENSCHNEIDER, Denise	(31) 201700044532	(54) BUFFING SYSTEM FOR FOOTWEAR
ZIEGENTHALER, Martina	(32) 24.04.2017	(73) NIKE Innovate C.V.
KUHTZ, Henry	(33) Italy	(72) WU, Hung-Yu
ENK, Jörg	(51) A43B 13/41	LIN, Chia-Hung
THUY, Lismarie	A43B 23/02	WU, Hsien-Kuang
LUFT, Alexandra	A43B 13/12	CHEN, Chun-Chieh
FICKER, Frank	(11) EP4003085	CHEN, Yi-Min
(31) 1020161115341	(21) EP20754439.6	(31) 201962900983 P
(32) 18.08.2016	(47) 26.07.2023	(32) 16.09.2019
(33) Germany	(87) US2020042784	(33) United States of America
(51) A43B 3/10	28.01.2021	(51) A44B 11/06
A43B 3/12	(22) 20.07.2020	A44B 11/12
(11) EP3750443	(54) ARTICLE OF FOOTWEAR	(11) EP3737255
(21) EP19750677.7	(73) NIKE Innovate C.V.	(21) EP18899598.9
(47) 26.07.2023	(72) LINKFIELD, Brian	(47) 26.07.2023
(87) BR2019050035	HOFFER, Kevin W.	(87) CN2018110401
15.08.2019	LEVY, Cassidy R.	18.07.2019
(22) 07.02.2019	(31) 201962923658 P	(22) 16.10.2018
(54) SANDAL	201962878682 P	(54) STRAP ADJUSTMENT SYSTEM
(73) TESS INDÚSTRIA E COMÉRCIO LTDA.	(32) 21.10.2019	(73) Duraflex Hong Kong Limited
Simon, Peter	25.07.2019	(72) WONG, Ying Kwan
(72) SIMON, Peter	(33) United States of America	CHAN, Yick Fai
(31) 202018002676 U	United States of America	(31) 201815867861
(32) 08.02.2018	(51) A43B 23/02	(32) 11.01.2018
(33) Brazil	A43B 23/07	(33) United States of America
(51) A43B 5/04	A43B 9/02	(51) A45C 7/00
(11) EP3656238	(11) EP3701826	A45C 13/10
(21) EP19210695.3	(21) EP20157457.1	A45C 13/42
(47) 26.07.2023	(47) 26.07.2023	A45C 9/00
(22) 21.11.2019	(22) 14.02.2020	A45F 3/04

A45F 4/02	(72) YE, Caiyun	HAIST, Brandon James Lee
A45C 5/03	(31) 201821623270 U	(51) A46B 3/00
A45C 5/14	(32) 08.10.2018	A46B 9/04
A45C 13/00	(33) China	A46D 1/00
A45C 13/26	(51) A45D 33/00	(11) EP3616560
A45C 13/02	(11) EP3793400	(21) EP19204029.3
(11) EP3905917	(21) EP19719482.2	(47) 26.07.2023
(21) EP20702556.0	(47) 26.07.2023	(22) 12.12.2016
(47) 26.07.2023	(87) EP2019060188	(54) ORAL CARE IMPLEMENT
(87) US2020012404	21.11.2019	(73) Colgate-Palmolive Company
09.07.2020	(22) 18.04.2019	(72) MOSKOVICH, Robert A.
(22) 06.01.2020	(54) COMPACT HAVING UNCOATED	(31) 201514968607
(54) LUGGAGE SYSTEM	VANITY MIRROR	(32) 14.12.2015
(73) Yeti Coolers, LLC	(73) Bakic Design GmbH	(33) United States of America
(72) CIESZKO, Michael Christopher	(72) QIU, Lin	(51) A46B 9/02
ROGERS, Kyle Edward	(31) 201820736404 U	(11) EP3484322
BONDHUS, Andy	(32) 17.05.2018	(21) EP17751839.6
NICHOLS, Steve Charles	(33) China	(47) 26.07.2023
LOMBARDI, Nicholas James	(51) A45D 34/06	(87) IB2017053977
(31) 201962788888 P	A45D 40/24	18.01.2018
201962788886 P	B65D 81/32	(22) 30.06.2017
(32) 06.01.2019	B01F 35/71	(54) BRUSH FOR THE APPLICATION OF
06.01.2019	(11) EP3986203	COSMETIC PRODUCTS
(33) United States of America	(21) EP20825999.4	(73) PENNELLI FARO S.r.l.
United States of America	(47) 26.07.2023	(72) SERPOSI, Gianluca
(51) A45C 13/00	(87) US2020039028	(31) 201600074568
A45C 5/14	24.12.2020	(32) 15.07.2016
(11) EP4088613	(22) 22.06.2020	(33) Italy
(21) EP21819160.9	(54) CONTAINER SYSTEM FOR MIXING	(51) A46B 9/04
(47) 26.07.2023	AND DISPENSING	(11) EP3928659
(87) ES2021070736	(73) ELC Management LLC	(21) EP21181032.0
14.04.2022	(72) LAMB-KORSAVIDIS, Stephanie Astrid	(47) 26.07.2023
(22) 08.10.2021	HILTON, Jill Marie	(22) 20.04.2016
(54) PROTECTIVE PACKAGING FOR	MARTINS, Agostinho	(54) ELECTRIC APPLIANCE FOR
SUITCASES	CURTISS, Charles Aaron	PERSONAL CARE
(73) Vingbox Ibérica, S.L.	(31) 201916447361	(73) Trisa Holding AG
(72) GÓMEZ NÚÑEZ, José Ignacio	(32) 20.06.2019	(72) Schär, Michael
FERNÁNDEZ CARMONA, Jorge	(33) United States of America	Fischer, Herbert
(31) 202032200 U	(51) A45D 40/26	Bärtschi, Armin
(32) 09.10.2020	A45D 34/04	(31) 15166214
(33) Spain	(11) EP3248500	(32) 04.05.2015
(51) A45C 13/30	(21) EP17167598.6	(33) European Patent Office (EPO)
A45C 13/28	(47) 26.07.2023	(51) A46B 9/04
A45C 5/06	(22) 21.04.2017	A61C 9/00
A45C 13/10	(54) BOTTLE FOR A COSMETIC PRODUCT,	A61C 17/00
(11) EP3740097	AND APPLICATOR ASSEMBLY	A46B 15/00
(21) EP19740726.5	COMPRIASING A BOTTLE OF THIS	(11) EP3713446
(47) 26.07.2023	KIND AND AN APPLICATOR FOR SAID	(21) EP18881533.6
(87) US2019013607	COSMETIC PRODUCT	(47) 26.07.2023
25.07.2019	(73) Albéa Services	(87) IL2018051286
(22) 15.01.2019	(72) SCHREIBER, Camille	31.05.2019
(54) TRAVEL ACCESSORY AND METHOD	(31) 1654594	(22) 26.11.2018
(73) Katz, Menachem	(32) 23.05.2016	(54) HANDHELD DENTAL TRACKING
Juhasz, Anna	(33) France	DEVICE
(72) Katz, Menachem	(51) A45F 3/04	(73) Dentlytec G.P.L. Ltd.
Juhasz, Anna	A63F 13/40	(72) LEHR, Blanc Zach
(31) 201862617769 P	(11) EP3609365	REUVENNY, Amitai
(32) 16.01.2018	(21) EP17905640.3	PESACH, Benny
(33) United States of America	(47) 26.07.2023	GRAD, Ygael
(51) A45D 19/00	(87) US2017026797	GOLDENTOUCH, Lev
(11) EP3791749	18.10.2018	(31) 201762590613 P
(21) EP18936523.2	(22) 10.04.2017	(32) 26.11.2017
(47) 26.07.2023	(54) ADJUSTABLE BACKPACKS	(33) United States of America
(87) CN2018112337	(73) Hewlett-Packard Development Company,	(51) A46B 11/00
16.04.2020	L.P.	A45D 40/04
(22) 29.10.2018	(72) CLARK, Alexander Wayne	(11) EP3244772
(54) SHAMPOO BEAUTY BED	BURKS, Ricky Thomas	(21) EP15720852.1
(73) Ou, Wenwei		

(47) 26.07.2023	(54) STORAGE CABINET WITH AN	(87) US2018037266
(87) US2015026698	OVERTURN DEVICE	03.01.2019
11.08.2016	(73) Shenzhen Hive Box Technology Co., Ltd	(22) 13.06.2018
(22) 20.04.2015	(72) LEI, Honggang	(54) POCKETED SPRING ASSEMBLY
(54) ORAL CARE MATERIAL DISPENSER	(31) 201820687067 U	(73) L&P Property Management Company
(73) Colgate-Palmolive Company	(32) 09.05.2018	(72) JEWETT, Jason
(72) ROONEY, Michael	(33) China	RICHMOND, Darrell A.
SPROSTA, AI	(51) A47B 88/427	(31) 201816003809
(31) 201562110909 P	A47B 88/483	201762525384 P
(32) 02.02.2015	(11) EP3968814	(32) 08.06.2018
(33) United States of America	(21) EP20724779.2	27.06.2017
(51) A46B 15/00	(47) 26.07.2023	(33) United States of America
B29C 45/16	(87) EP2020062307	United States of America
B29K 105/04	26.11.2020	(51) A47C 29/00
B29L 31/42	(22) 04.05.2020	A47D 15/00
(11) EP3111799	(54) DRAWER AND METHOD FOR	(11) EP3945947
(21) EP16165701.0	INSTALLING A DRAWER	(21) EP20717802.1
(47) 26.07.2023	(73) Paul Hettich GmbH & Co. KG	(47) 26.07.2023
(22) 18.04.2016	(72) PETKER, Waldemar	(87) EP2020059222
(54) ORAL CARE IMPLEMENT AND	(31) 102019113107	08.10.2020
METHOD OF FORMING AN ORAL	(32) 17.05.2019	(22) 01.04.2020
CARE IMPLEMENT	(33) Germany	(54) A FOLDABLE CANOPY AND METHOD
(73) Colgate-Palmolive Company	(51) A47C 1/032	OF USING SAME
(72) HOHLBEIN, Douglas, Joseph	(11) EP4000464	(73) Enfant Terrible Design AB
(31) 201514755230	(21) EP21020542.3	(72) FURULAND KOTSIANIS, Lisa
(32) 30.06.2015	(47) 26.07.2023	(31) 201962828631 P
(33) United States of America	(22) 03.11.2021	(32) 03.04.2019
(51) A47B 9/12	(54) PIVOTING MECHANISM	(33) United States of America
(11) EP3406162	(73) Bock 1 GmbH & Co. KG	(51) A47D 7/02
(21) EP18173765.1	(72) Bock, Hermann	A47D 7/04
(47) 26.07.2023	(31) 102020129708	A47D 9/00
(22) 23.05.2018	(32) 11.11.2020	(11) EP3975798
(54) PIECE OF FURNITURE ADJUSTABLE	(33) Germany	(21) EP20742910.1
IN HEIGHT AND CABLE GUIDE FOR	(51) A47C 1/032	(47) 26.07.2023
SAME	(11) EP3817628	(87) IB2020055130
(73) Vitra AG	(21) EP19745041.4	10.12.2020
(72) Keller, Stefan	(47) 26.07.2023	(22) 29.05.2020
Schütt, Helmut	(87) DE2019100604	(54) SIDE SLEEPING CRIB AND RELATIVE
(31) 17172607	09.01.2020	FRAME
(32) 24.05.2017	(22) 28.06.2019	(73) Artsana S.p.A.
(33) European Patent Office (EPO)	(54) CHAIR	(72) VAN ASCH, Bastiaan
(51) A47B 43/02	(73) König + Neurath AG	PEDRETTI, Luciano
A47F 5/11	(72) MICHELSEN, Thomas	(31) 201900007896
(11) EP3697259	(31) 102018115925	(32) 03.06.2019
(21) EP18795284.1	(32) 02.07.2018	(33) Italy
(47) 26.07.2023	(33) Germany	(51) A47D 13/02
(87) AT2018060246	(51) A47C 27/07	(11) EP3821767
25.04.2019	A47C 27/06	(21) EP20215113.0
(22) 18.10.2018	A47C 7/34	(47) 26.07.2023
(54) CONSTRUCTION KIT FOR	A47C 7/35	(22) 18.04.2019
ASSEMBLING A HONEYCOMB	B29C 65/00	(54) CHILD CARRIER
STRUCTURE FROM COMPONENTS	B29C 65/08	(73) Wonderland Switzerland AG
(73) Papertown E.U.	B32B 21/10	(72) Fan, Meifeng
(72) BLUME, Philipp	B32B 27/12	(31) 201810549110
(31) 601132017	B32B 7/02	201810355370
(32) 20.10.2017	B32B 5/26	(32) 31.05.2018
(33) Austria	B29L 31/00	19.04.2018
(51) A47B 49/00	B32B 3/12	(33) China
A47B 97/00	B32B 37/20	China
B25J 15/00	B32B 5/06	(51) A47G 9/10
G07F 11/16	B32B 5/24	A47G 9/02
G07F 17/12	D04H 3/007	B68G 1/00
(11) EP3622855	D04H 3/14	C08G 101/00
(21) EP18917852.8	B32B 5/18	(11) EP3677153
(47) 26.07.2023	B32B 37/00	(21) EP20150578.1
(87) CN2018113022	(11) EP3644794	(47) 26.07.2023
14.11.2019	(21) EP18824381.0	(22) 07.01.2020
(22) 31.10.2018	(47) 26.07.2023	(54) ANTIMICROBIAL WASHABLE PILLOW

(73) Tempur World, LLC	202020058271 U	(51) A47J 31/44
(72) TUROSO, Anthony G. RUSSELL, Sarah WALLACE, Stephen SIMONSEN, Simon	(32) 16.12.2020 15.06.2020 13.01.2020	(11) EP4076108 (21) EP20821263.9 (47) 26.07.2023
(31) 201916695933 201962789076 P	(33) China China China	(87) EP2020086076 24.06.2021
(32) 26.11.2019 07.01.2019	(51) A47J 31/00 A47J 31/44	(22) 15.12.2020
(33) United States of America United States of America	(11) EP3571964	(54) A MIXING APPARATUS
(51) A47J 17/18 A23N 7/02	(21) EP19172190.1	(73) Koninklijke Philips N.V.
(11) EP4101350	(47) 26.07.2023	(72) LOUWSMA, Hendrik, Klaas TIBBE, Tim, Gerard BAKKER-VAN DER KAMP, Gertrude, Riëtte NOORDHUIS, Joeke ZWART, Bart-Jan
(21) EP22158305.7	(22) 02.05.2019	(31) 19217889
(47) 26.07.2023	(54) AIRCRAFT GALLEY BREWING APPARATUS	(32) 19.12.2019
(22) 23.02.2022	(73) Rockwell Collins, Inc.	(33) European Patent Office (EPO)
(54) POTATO PEELING DISC, KITCHEN APPLIANCE AND METHOD	(72) DEVLIN, Byron A. KELLY, Luke E. MILLS, Brian P.	(51) A47J 31/46
(73) Vorwerk & Co. Interholding GmbH	(31) 201815970633	(11) EP3735876
(72) IRNICH, Lukas SCHMITZ, Dr., Kevin MÜLLER-TÖNISSEN, Lars THIES, Felix SICKERT, Dr., Michael KLODT, Maximilian BECKER, Malte JANSEN, Dr., Sebastian THIELE, Tobias STOLZE, Svenja HEYNEN, Andreas	(32) 03.05.2018 (33) United States of America	(21) EP19173308.8 (47) 26.07.2023
(31) 21186949	(51) A47J 31/36	(22) 08.05.2019
(32) 21.07.2021	(11) EP3855986	(54) COFFEE MACHINE WITH STEAM RELIEF UNIT
(33) European Patent Office (EPO)	(21) EP19786910.0	(73) BSH Hausgeräte GmbH
(51) A47J 27/00	(47) 26.07.2023	(72) Lemez, Samo Studenčnik, Simon
(11) EP3415045	(87) EP2019076139 02.04.2020	(51) A47J 31/46
(21) EP17899225.1	(22) 27.09.2019	A47J 31/057
(47) 26.07.2023	(54) BEVERAGE MACHINE WITH AN ACTUATION DISTRIBUTION	A47J 31/36
(87) CN2017117262 04.10.2018	(73) Société des Produits Nestlé S.A.	(11) EP3808233
(22) 19.12.2017	(72) BENES, Harald HACK, Gottfried OLBERT, Felix	(21) EP20199786.3 (47) 26.07.2023
(54) SEPARABLE RICE COOKER	(31) 18197101	(22) 02.10.2020
(73) Foshan Shunde Midea Electrical Heating Appliances Manufacturing Co., Limited	(32) 27.09.2018	(54) COFFEE MACHINE
(72) CHEN, Wei LUO, Zhixiao CHEN, Xianhuai ZHU, Linbo ZHU, Chuanbin FU, Zhengting WU, Yuquan YUAN, Wei	(33) European Patent Office (EPO)	(73) BSH Hausgeräte GmbH (72) Huber, Michael Henz, Manuel Einsiedler, Thomas
(31) 201720340884 U	(51) A47J 31/44	(31) 102019216099
(32) 31.03.2017	(11) EP3687347	(32) 18.10.2019
(33) China	(21) EP18769999.6	(33) Germany
(51) A47J 27/21	(47) 26.07.2023	(51) A47J 31/60
(11) EP4048125	(87) EP2018074846 28.03.2019	A47J 31/46
(21) EP21741885.4	(22) 14.09.2018	A47J 31/18
(47) 26.07.2023	(54) BEVERAGE MACHINES WITH A REMOVABLE MODULE	A47J 31/00
(87) CN2021071305 22.07.2021	(73) Société des Produits Nestlé S.A.	(11) EP4044877
(22) 12.01.2021	(72) RESTELLI, Marco SACHE, Laurent CHIODA, Sergio	(21) EP20788899.1 (47) 26.07.2023
(54) ELECTRIC KETTLE	(31) 17192910	(87) IB2020059207 22.04.2021
(73) Top Electric Appliances Industrial Limited	(32) 25.09.2017	(22) 01.10.2020
(72) ZHONG, Yewu LI, Weizhong	(33) European Patent Office (EPO)	(54) INFUSION MODULE AND COFFEE MACHINE PROVIDED WITH SAID INFUSION MODULE
(31) 202023060338 U 202021093026 U	(51) A47J 31/44	(73) Rancilio Group S.p.A.
	(11) EP3970579	(72) BECK, Pascal HÄFLIGER, Pascal
	(21) EP21195658.6	(31) 201900019211
	(47) 26.07.2023	(32) 17.10.2019
	(22) 09.09.2021	(33) Italy
	(54) AUTOMATIC COFFEE MACHINE EQUIPPED WITH A NON-TILT DEVICE OF A CAKE TRAY	(51) A47J 37/07
	(73) SEB S.A.	A47J 37/06
	(72) DUTERTRE, Thierry	(11) EP3875005
	(31) 2009444	(21) EP20161014.4
	(32) 17.09.2020	(47) 26.07.2023
	(33) France	(22) 04.03.2020

(54) GRILL	KÖNNINGS, Maximilian	G08B 21/24
(73) TEST RITE tepro GmbH	YAN, Wenjie	G09B 19/00
(72) Shih, Yu-Yi	(31) 102016110710	(11) EP3708051
(51) A47J 37/08	(32) 10.06.2016	(21) EP19163232.2
(11) EP4104724	(33) Germany	(47) 26.07.2023
(21) EP21184718.1	(51) A47J 45/10	(22) 15.03.2019
(47) 26.07.2023	(11) EP3454703	(54) FLUID DISPENSER AND METHOD
(22) 09.07.2021	(21) EP17722433.4	FOR GUIDING A BODY CLEANING
(54) TOASTER	(47) 26.07.2023	PROCEDURE
(73) Jiangmen City Xinhui Henglong	(87) EP2017061025	(73) Op-Hygiene IP GmbH
Innovative Housewares Co., Ltd.	16.11.2017	Ophardt Hygiene-Technik GmbH + Co.
(72) NIE, Huayao	(22) 09.05.2017	KG
(31) 202121322395 U	(54) POT GRIPPER AND COOKING	(72) Ophardt, Heiner
(32) 15.06.2021	SYSTEM COMPRISING THE POT	Knaack, Dennis
(33) China	GRIPPER AND A POT	Becker, Karsten
(51) A47J 37/12	(73) Primus AB	Steltenkamp, Siegfried
A47J 27/08	(72) LILJEDAHL, Niklas	Harmes, Martin
A47J 27/092	SVARTSTRÖM, Eric	Ruhnau, Anna
A47J 27/14	(31) 102016207933	Stressler, Patrick
(11) EP3405079	(32) 09.05.2016	Klar, Kristin
(21) EP17741996.7	(33) Germany	(51) A47K 10/36
(47) 26.07.2023	(51) A47J 47/14	(11) EP3895588
(87) US2017014298	A45C 11/20	(21) EP21163066.0
27.07.2017	(11) EP3692874	(47) 26.07.2023
(22) 20.01.2017	(21) EP19155801.4	(22) 17.03.2021
(54) PRESSURE ASSIST FEATURE FOR	(47) 26.07.2023	(54) DEVICE FOR DISPENSING A SECTION
PRESSURE FRYER	(22) 06.02.2019	OF PAPER SHEET
(73) Henny Penny Corporation	(54) VESSEL COMPRISING A HOUSING, A	(73) ILLE Papier-Service GmbH
(72) MERCER, Gary, L.	LID AND AT LEAST ONE CONTAINER	(72) GOTTSCHALK, Eric
LANDWEHR, Tim, A.	AND CONTAINER ADAPTED TO SUCH	(31) 102020110251
LAMBERT, Keith	A VESSEL	(32) 15.04.2020
LOASE, Bradley	(73) The Côtelette Sàrl	(33) Germany
KRUPP, Ben	(72) PERUSSET, Frédéric	(51) A47K 10/38
CASEY, William, M.	PERUSSET, Grégory	(11) EP3573508
WINTER, David, B.	(51) A47K 3/28	(21) EP18701014.5
(31) 201662281503 P	E03B 1/04	(47) 26.07.2023
(32) 21.01.2016	E03C 1/04	(87) EP2018051185
(33) United States of America	(11) EP3562362	02.08.2018
(51) A47J 43/07	(21) EP17886625.7	(22) 18.01.2018
A47J 43/046	(47) 26.07.2023	(54) PAPER DISPENSER
(11) EP3468432	(87) SE2017051337	(73) Essity Hygiene and Health Aktiebolag
(21) EP17728561.6	05.07.2018	(72) ALLARD, Bryan Fitzgerald
(47) 26.07.2023	(22) 22.12.2017	TEDESCO, Daniele Salvatore
(87) EP2017063984	(54) METHOD FOR ADAPTING A WATER	BILLMAN, Craig
14.12.2017	RECYCLING DEVICE TO EXTERNAL	DOTSEY, Michael Austin
(22) 08.06.2017	CONDITIONS	(31) 201715415908
(54) AUTOMATIC CONTROL FUNCTION	(73) Orbital Systems AB	(32) 26.01.2017
FOR WHIPPING CREAM	(72) MAHDJOURI NAMIN, Amir Mehrdad	(33) United States of America
(73) Vorwerk&Co. Interholding GmbH	(31) 1651759	(51) A47L 5/36
(72) YAN, Wenjie	(32) 30.12.2016	A47L 9/16
KÖNNINGS, Maximilian	(33) Sweden	A47L 9/10
RESENDE, Maria	(51) A47K 5/12	B04C 5/06
(31) 102016110687	F16B 21/06	B04C 5/26
(32) 10.06.2016	(11) EP3796820	(11) EP3773105
(33) Germany	(21) EP20700429.2	(21) EP19713089.1
(51) A47J 43/07	(47) 26.07.2023	(47) 26.07.2023
A47J 43/046	(87) EP2020050184	(87) EP2019058233
A47J 27/00	04.02.2021	17.10.2019
(11) EP3468435	(22) 07.01.2020	(22) 02.04.2019
(21) EP17732800.2	(54) DISPENSER UNIT FOR LIQUID	(54) SEPARATING DEVICE FOR DUST
(47) 26.07.2023	PRODUCTS	SUCTION DEVICE
(87) EP2017063990	(73) La Bottega Dell' Albergo S.p.A.	(73) Hilti Aktiengesellschaft
14.12.2017	(72) MARINELLI, Umberto Maria	(72) OHLENDORF, Oliver
(22) 08.06.2017	(31) 201900013149	(31) 18166277
(54) METHOD FOR OPERATING A FOOD	(32) 29.07.2019	(32) 09.04.2018
PROCESSOR	(33) Italy	(33) European Patent Office (EPO)
(73) Vorwerk&Co. Interholding GmbH	(51) A47K 5/12	(51) A47L 7/00
(72) RESENDE, Maria		A47L 9/24

A47L 11/40	(72) NGUYEN, Tom Minh	(31) 201910202088
(11) EP3902455	WIEDMAIER, Thomas	(32) 18.03.2019
(21) EP19836321.0	SCHOLTEN, Jeffrey A.	(33) China
(47) 26.07.2023	HALEY, Kevin	(51) A47L 13/22
(87) US2019065913	(31) 30462510 P	A47L 11/40
02.07.2020	(32) 15.02.2010	A47L 11/34
(22) 12.12.2019	(33) United States of America	(11) EP3595503
(54) PORTABLE EXTRACTOR	(51) A47L 9/28	(21) EP18767758.8
(73) Techtronic Floor Care Technology Limited	A47L 11/40	(47) 26.07.2023
(72) RUKAVINA, Douglas, M.	(11) EP3897329	(87) US2018022626
BODE, Donovan	(21) EP19856490.8	20.09.2018
QUINTERO, Juan, Aviles	(47) 26.07.2023	(22) 15.03.2018
(31) 201862786090 P	(87) US2019065925	(54) STEAM CLEANING APPARATUS
(32) 28.12.2018	25.06.2020	(73) Bissell Inc.
(33) United States of America	(22) 12.12.2019	(72) KREBS, Alan J.
(51) A47L 9/06	(54) FLOOR CLEANER	(31) 201762472235 P
A47L 11/40	(73) Techtronic Floor Care Technology Limited	(32) 16.03.2017
(11) EP3993683	(72) RUKAVINA, Douglas, M.	(33) United States of America
(21) EP21716766.7	BODE, Donovan	(51) A47L 13/258
(47) 26.07.2023	QUINTERO, Juan, Aviles	A47L 13/253
(87) EP2021059335	(31) 201862784075 P	(11) EP3801172
28.10.2021	(32) 21.12.2018	(21) EP19725113.5
(22) 09.04.2021	(33) United States of America	(47) 26.07.2023
(54) NOZZLE ARRANGEMENT	(51) A47L 9/28	(87) EP2019062578
CONFIGURED TO FACE A SURFACE	A47L 11/40	05.12.2019
TO BE CLEANED	B25F 5/00	(22) 16.05.2019
(73) Koninklijke Philips N.V.	B25B 21/00	(54) WIPE BOARD
(72) LUIJKX, Renee	(11) EP3071087	(73) Carl Freudenberg KG
LUBBERS, Matthijs, Hendrikus	(21) EP14812686.5	(72) BRUGORA, Alessandro
DE VRIND, Rogier	(47) 26.07.2023	(31) 102018112822
STEEMAN, Jonne	(87) US2014066865	(32) 29.05.2018
(31) 20170322	28.05.2015	(33) Germany
(32) 20.04.2020	(22) 21.11.2014	(51) A47L 13/58
(33) European Patent Office (EPO)	(54) BATTERY-POWERED CORDLESS	(11) EP3801174
(51) A47L 9/16	CLEANING SYSTEM	(21) EP19724804.0
(11) EP3796822	(73) Techtronic Industries Co., Ltd.	(47) 26.07.2023
(21) EP19746411.8	(72) REINDLE, Mark	(87) EP2019062425
(47) 26.07.2023	SEBASTIAN, Will	05.12.2019
(87) US2019042215	REED, Brett, A.	(22) 15.05.2019
23.01.2020	(31) 201361907725 P	(54) CLEANING SYSTEM
(22) 17.07.2019	(32) 22.11.2013	(73) Carl Freudenberg KG
(54) VACUUM CLEANER	(33) United States of America	(72) DINGERT, Uwe
(73) Techtronic Floor Care Technology Limited	(51) A47L 11/12	MESSINEO, Carlo
(72) BRADLEY, Jerald	A47L 11/14	(31) 102018112658
(31) 201862700493 P	A47L 11/16	(32) 28.05.2018
(32) 19.07.2018	A47L 11/162	(33) Germany
(33) United States of America	A47L 11/283	(51) A47L 15/42
(51) A47L 9/24	(11) EP3781009	(11) EP3863487
A47L 9/02	(21) EP19713823.3	(21) EP19779881.2
(11) EP3912539	(47) 26.07.2023	(47) 26.07.2023
(21) EP21174226.7	(87) EP2019058385	(87) EP2019076404
(47) 26.07.2023	24.10.2019	16.04.2020
(22) 18.05.2021	(22) 03.04.2019	(22) 30.09.2019
(54) ARTICULATED ELBOW FOR A DEVICE	(54) ORBITAL SINGLE-BRUSH MACHINE	(54) DOMESTIC APPLIANCE AND METHOD
FOR CLEANING A SWIMMING POOL	FOR TREATING FLOORS	FOR PRODUCING A DOMESTIC
(73) ABP - AQUILINA BOUVIER POOL	(73) T.M.B. S.r.l.	APPLIANCE
(72) Bouvier, Matthieu	(72) RUFFO, Giampaolo	(73) BSH Hausgeräte GmbH
Aquilina, Yann	(31) 201800004693	(72) SING, Alexander
(31) 2005376	(32) 19.04.2018	FRITZ, Heiko
(32) 20.05.2020	(33) Italy	(31) 102018217551
(33) France	(51) A47L 11/40	(32) 12.10.2018
(51) A47L 9/28	(11) EP3711649	(33) Germany
(11) EP3824785	(21) EP20163243.7	(51) A47L 15/42
(21) EP20208891.0	(47) 26.07.2023	(11) EP3863488
(47) 26.07.2023	(22) 16.03.2020	(21) EP19779883.8
(22) 14.02.2011	(54) FLOOR CLEANING APPARATUS	(47) 26.07.2023
(54) UPRIGHT DEEP CLEANER	(73) Ningbo Fujia Industrial Co., Ltd.	(87) EP2019076407
(73) Bissell Inc.	(72) FANG, Jianqiang	

16.04.2020	04.03.2014	(72) BLAZEJEWSKI, Reinhold
(22) 30.09.2019	06.02.2014	(31) 102017130905
(54) DOMESTIC APPLIANCE	04.02.2014	(32) 21.12.2017
(73) BSH Hausgeräte GmbH	13.01.2014	(33) Germany
(72) SING, Alexander	08.01.2014	<hr/>
(31) 102018217547	02.12.2013	(51) A61B 1/00
(32) 12.10.2018	04.11.2013	A61B 1/04
(33) Germany	31.10.2013	A61B 1/06
<hr/>	24.09.2013	A61B 1/07
(51) A47L 15/42	01.07.2013	(11) EP3355758
D06F 34/28	28.06.2013	(21) EP16852710.9
D06F 39/14	28.06.2013	(47) 26.07.2023
F24C 7/08	28.05.2013	(87) US2016054772
(11) EP4025111	17.05.2013	06.04.2017
(21) EP20760793.8	17.05.2013	(22) 30.09.2016
(47) 26.07.2023	16.05.2013	(54) TETHERED OPTICAL IMAGING PROBE
(87) EP2020073192	13.05.2013	WITH A CAPSULE ENCLOSING
11.03.2021	09.05.2013	A MOTOR AND A REFLECTIVE
(22) 19.08.2020	06.05.2013	SURFACE ROTATABLY COUPLED TO
(54) DOMESTIC DISHWASHER	29.04.2013	THE MOTOR
(73) BSH Hausgeräte GmbH	(33) United States of America	(73) The General Hospital Corporation
(72) ENGELHART, Matthias	United States of America	(72) TEARNEY, Guillermo J.
BALZER, Manuel	United States of America	GORA, Michalina J.
DUKEK, Klaus	United States of America	REDDY, Rohith K.
(31) 102019213456	United States of America	BEATTY, Matthew
(32) 04.09.2019	United States of America	CHU, Kengyeh K.
(33) Germany	United States of America	(31) 201562235175 P
<hr/>	United States of America	(32) 30.09.2015
(51) A61B 1/00	United States of America	(33) United States of America
(11) EP3649914	United States of America	<hr/>
(21) EP19216873.0	United States of America	(51) A61B 1/00
(47) 26.07.2023	United States of America	A61B 17/128
(22) 28.04.2014	United States of America	A61B 17/00
(54) VIDEO PROCESSING IN A COMPACT	United States of America	A61B 17/064
MULTI-VIEWING ELEMENT	United States of America	A61B 17/068
ENDOSCOPE SYSTEM	United States of America	A61B 5/00
(73) EndoChoice, Inc.	United States of America	(11) EP3695772
(72) Kirma, Yaniv	United States of America	(21) EP20166821.7
Gilreath, Mark	United States of America	(47) 26.07.2023
Wieth, Stephan	United States of America	(22) 18.11.2009
Ladd, Doug	United States of America	(54) ADAPTER FOR ATTACHING DEVICES
Ashery, Yoram	United States of America	TO ENDOSCOPES
Parks, Will	United States of America	(73) United States Endoscopy Group, Inc.
Krivopisk, Leonid	United States of America	(72) LaBombard, Denis
Gershov, Yuri	(51) A61B 1/00	(31) 26881309 P
Jacobs, Charlie	(11) EP3718465	19960608 P
(31) 201461968436 P	(21) EP20167943.8	(32) 17.06.2009
201461950696 P	(47) 26.07.2023	18.11.2008
201461948009 P	(22) 03.04.2020	(33) United States of America
201461936562 P	(54) MEDICAL INSTRUMENT CALIBRATION	United States of America
201461935647 P	(73) Biosense Webster (Israel) Ltd.	<hr/>
201461926732 P	(72) SITNITSKY, Ilya	(51) A61B 1/018
201461925080 P	ALGAWI, Yehuda	A61B 1/00
201361910863 P	GOVARI, Assaf	A61B 1/005
201361899465 P	(31) 202016797634	A61M 25/01
201361897896 P	201962829517 P	(11) EP3656277
201361881661 P	(32) 21.02.2020	(21) EP18834656.3
201361841863 P	04.04.2019	(47) 26.07.2023
201361840706 P	(33) United States of America	(87) JP2018022362
201361840691 P	United States of America	24.01.2019
201361828039 P	<hr/>	(22) 12.06.2018
201361824653 P	(51) A61B 1/00	(54) ENDOSCOPE
201361824863 P	A61B 1/018	(73) FUJIFILM Corporation
201361824236 P	(11) EP3727125	(72) OHKI, Tomohiro
201361822563 P	(21) EP18857387.7	IYAMA, Shozo
201361821579 P	(47) 26.07.2023	HARADA, Takashi
201361820100 P	(87) DE2018101032	(31) 2017139140
201361817237 P	27.06.2019	(32) 18.07.2017
(32) 21.03.2014	(22) 19.12.2018	(33) Japan
10.03.2014	(54) ENDOSCOPE	<hr/>
	(73) Blazejewski Medi-Tech GmbH	(51) A61B 1/06
		A61B 1/07

A61B 1/307	(22) 06.12.2013	A61B 5/08
A61B 1/12	(54) SYSTEM AND METHOD FOR	A61N 1/05
A61B 1/00	EVALUATING INTRAOCULAR LENS	A61N 1/36
(11) EP3125740	PERFORMANCE	(11) EP3104768
(21) EP15717357.6	(73) Johnson & Johnson Surgical Vision, Inc.	(21) EP15706127.6
(47) 26.07.2023	(72) PIERS, Patricia Ann	(47) 26.07.2023
(87) US2015024233	KASTHURIRANGAN, Sanjeev	(87) US2015015508
08.10.2015	WEEBER, Hendrick A.	20.08.2015
(22) 03.04.2015	(31) 201261734240 P	(22) 11.02.2015
(54) MEDICAL SYSTEM AND RELATED	(32) 06.12.2012	(54) SYSTEMS FOR DETECTING AND
METHODS FOR DIAGNOSIS AND	(33) United States of America	TREATING OBSTRUCTIVE SLEEP
TREATMENT	(51) A61B 3/11	APNEA
(73) Boston Scientific Scimed, Inc.	A61B 3/024	(73) Cyberonics, Inc.
(72) ZAPPIA, Thomas, M.	A61B 3/08	(72) BOLEA, Stephen, L.
SUKTHANKAR, Sujat	A61B 3/12	(31) 201461942616 P
MACLEAN, Brian, C.	A61B 3/10	201461940764 P
OSKIN, Christopher, L.	A61B 3/15	201461940314 P
OLIVIERI, Steven, A.	A61B 3/00	201461938615 P
BROMANDER, Roy	(11) EP3675709	(32) 20.02.2014
(31) 201461975489 P	(21) EP18876930.1	17.02.2014
(32) 04.04.2014	(47) 26.07.2023	14.02.2014
(33) United States of America	(87) IL2018051172	11.02.2014
(51) A61B 3/024	16.05.2019	(33) United States of America
A61B 3/16	(22) 04.11.2018	United States of America
A61B 3/107	(54) SYSTEMS FOR ALIGNMENT OF	United States of America
(11) EP3638094	OPHTHALMIC IMAGING DEVICES	United States of America
(21) EP17730775.8	(73) Notal Vision Ltd.	(51) A61B 5/00
(47) 26.07.2023	(72) ALSTER, Yair	A61B 5/11
(87) EP2017064628	GOREN-GRATZYANI, Gidon	A61B 5/02
20.12.2018	PASCAL, Amit	G16H 50/20
(22) 14.06.2017	RAFAELI, Omer	G16H 50/30
(54) DEVICE AND METHODS FOR	(31) 201762582779 P	A61B 7/04
MONITORING A VISUAL FIELD	(32) 07.11.2017	(11) EP3313270
PROGRESSION OF A USER	(33) United States of America	(21) EP16742075.1
(73) Sensimed SA	(51) A61B 3/12	(47) 26.07.2023
(72) DE MORAES, Carlos Gustavo	A61B 3/00	(87) US2016038915
SCHLUND, Mario	(11) EP3669754	29.12.2016
FRITSCHI, Raphaël	(21) EP19183021.5	(22) 23.06.2016
VARIDEL, Thierry	(47) 26.07.2023	(54) EVENT DETECTION USING A
(51) A61B 3/032	(22) 27.06.2019	VARIABLE THRESHOLD
A61B 3/00	(54) ASSESSMENT OF FUNDUS IMAGES	(73) Cardiac Pacemakers, Inc.
H04N 7/18	(73) Welch Allyn, INC.	(72) THAKUR, Pramodsingh Hirasingh
G06T 7/70	(72) HART, Allen R	BHAT, Maya
A61B 3/06	WANG, Ynjiun, P	KRUEGER, Jonathan Walter
G02F 1/1335	WANG, Su	AVERINA, Viktoria A.
(11) EP3127471	KRAUSE, Hongying	(31) 201562184021 P
(21) EP15868657.6	(31) 201916443234	(32) 24.06.2015
(47) 26.07.2023	201862783689 P	(33) United States of America
(87) CN2015090276	(32) 17.06.2019	(51) A61B 5/00
08.12.2016	21.12.2018	A61B 5/145
(22) 22.09.2015	(33) United States of America	A61B 5/1486
(54) AUTOMATIC VISION TESTING DEVICE	United States of America	A61B 17/34
WITHOUT HUMAN MONITORING	(51) A61B 5/00	(11) EP4111949
(73) BOE Technology Group Co., Ltd.	(11) EP3598938	(21) EP22175672.9
(72) WU, Yanbing	(21) EP19188919.5	(47) 26.07.2023
LI, Wenbo	(47) 26.07.2023	(22) 22.06.2018
DONG, Yefei	(22) 29.07.2019	(54) TRANSCUTANEOUS ANALYTE
(31) 201510303652	(54) OPTICAL CONNECTOR FOR	SENSORS, APPLICATORS THEREFOR,
(32) 05.06.2015	OPTICALLY CONNECTING A	AND NEEDLE HUB COMPRISING ANTI-
(33) China	PROXIMAL OPTICAL FIBER TO	ROTATION FEATURE
(51) A61B 3/10	THE DISTAL OPTICAL FIBER OF A	(73) Dexcom, Inc.
A61B 3/028	GUIDEWIRE	(72) KOPLIN, Randall Scott
A61B 3/00	(73) LAKE REGION MANUFACTURING, INC.	NEALE, Paul V.
(11) EP2928358	(72) HAYES, John Michael	TERRY, Warren
(21) EP13811099.4	(31) 201862711131 P	HALAC, Jason
(47) 26.07.2023	(32) 27.07.2018	WONG, Jason C.
(87) US2013073514	(33) United States of America	SHAH, Neel
12.06.2014	(51) A61B 5/00	HEUVEL, Louise Emma van den

GAGNON, Remy E.	University Of Memphis Research	(22) 12.06.2019
KEMPKEY, Mark Douglas	Foundation	(54) EXTENDED REALITY ADJUSTMENTS
BALDWIN, Alan	(72) CHAUM, Edward	BASED ON PHYSIOLOGICAL
WELLS, Maria Noel Brown	LINDNER, Erno	MEASUREMENTS
CASTAGNA, Patrick John	GUO, Jidong	(73) Hewlett-Packard Development Company,
GEORGE, Christian Michael	CURLEY, Kenneth, C.	L.P.
REINHARDT, Andrew Michael	(31) 105604 P	(72) VANKIPURAM, Mithra
LEE, Young Woo	(32) 15.10.2008	BALLAGAS, Rafael
BARRY, John Charles	(33) United States of America	SMATHERS, Kevin
BLACKWELL, Jennifer	(51) A61B 5/00	(51) A61B 5/021
BROCK, Cameron	A61N 1/372	A61B 5/024
PIRONDINI, Kenneth	A61B 5/283	A61B 5/00
APACIBLE, Daniel E.	A61N 1/375	(11) EP3791780
KELLER, David A.	(11) EP3721789	(21) EP20178507.8
ENGLAND, Justen Deering	(21) EP19180299.0	(47) 26.07.2023
GRAY, John Michael	(47) 26.07.2023	(22) 05.06.2020
METZMAKER, Thomas	(22) 14.06.2019	(54) APPARATUS AND METHOD FOR
SIMPSON, Peter C.	(54) INTRA-CARDIAC COMMUNICATIONS	ESTIMATING BIO-INFORMATION
DERENZY, David	TO PROVIDE DIRECT TIMING	(73) Samsung Electronics Co., Ltd.
JONCICH, Andrew	INFORMATION WITHOUT ELECTRICAL	(72) JANG, Dae Geun
SUTHERLAND, Carol Wood	INTERFERENCES	YOON, Seung Keun
(31) 201862658486 P	(73) BIOTRONIK SE & Co. KG	PARK, Chang Soon
201762524247 P	(72) Freiberg, Karl-Heinz	(31) 20190113041
(32) 16.04.2018	Vijayagopal, Ramprasad	(32) 11.09.2019
23.06.2017	Swenson, Kurt	(33) Korea (Republic)
(33) United States of America	(31) 201962832888 P	(51) A61B 5/024
United States of America	(32) 12.04.2019	A61B 5/11
(51) A61B 5/00	(33) United States of America	(11) EP3064129
A61B 5/16	(51) A61B 5/00	(21) EP16159006.2
G16H 50/70	G01N 21/47	(47) 26.07.2023
(11) EP3493736	G01N 21/25	(22) 07.03.2016
(21) EP17837775.0	G01N 21/359	(54) WEARABLE ELECTRONIC DEVICE
(47) 26.07.2023	(11) EP3773204	AND METHOD FOR CONTROLLING
(87) US2017045541	(21) EP19781359.5	THE SAME
08.02.2018	(47) 26.07.2023	(73) Samsung Electronics Co., Ltd.
(22) 04.08.2017	(87) US2019026088	(72) PARK, Hyung-Jin
(54) SYSTEM FOR DETECTING ACUTE	10.10.2019	CHOI, Hyo-Sun
BRAIN FUNCTION IMPAIRMENT	(22) 05.04.2019	CHUN, Jae-Woong
(73) The General Hospital Corporation	(54) FREQUENCY DOMAIN DIFFUSE	PARK, Soo-Jin
(72) GILMAN, Jodi M.	OPTICAL SPECTROSCOPY AND	HWANG, Soo-Ji
EVINS, A. Eden	OPTICAL DETECTOR CALIBRATION	CHOI, Hyun-Chul
(31) 201662393405 P	METHOD	YOO, Na-Gyeom
201662370966 P	(73) University of Notre Dame du Lac	(31) 20150031871
(32) 12.09.2016	(72) O'SULLIVAN, Thomas D.	(32) 06.03.2015
04.08.2016	KITSMILLER, Vincent James	(33) Korea (Republic)
(33) United States of America	STILLWELL, Roy A.	(51) A61B 5/0535
United States of America	(31) 201862653364 P	A61B 5/282
(51) A61B 5/00	(32) 05.04.2018	A61B 5/053
A61L 29/16	(33) United States of America	A61B 5/0295
A61B 5/145	(51) A61B 5/00	(11) EP3993699
A61M 25/00	H02J 50/00	(21) EP20750021.6
A61M 31/00	(11) EP4082426	(47) 26.07.2023
A61B 5/1468	(21) EP21171562.8	(87) US2020040234
(11) EP2349442	(47) 26.07.2023	07.01.2021
(21) EP09821258.2	(22) 30.04.2021	(22) 30.06.2020
(47) 26.07.2023	(54) SELF-SUFFICIENT SIGNAL MONITOR	(54) DEVICE FOR SENSING SIGNALS
(87) US2009060852	(73) Celtra GmbH	FROM A BODY
22.04.2010	(72) TEEPE, Gerd	(73) BAXTER HEALTHCARE SA
(22) 15.10.2009	PIORKOWSKI, Judith	Baxter International Inc.
(54) METHOD AND DEVICE FOR	BUDNY, Jarek	(72) LEVY, Baruch
DETECTION OF BIOAVAILABLE DRUG	(51) A61B 5/0205	SCHUSMAN, Eliezer
CONCENTRATION IN A FLUID SAMPLE	A63F 13/285	KAPLAN, Yochay
(73) United States Of America, As	A63F 13/212	DINOOUR, Mordechai
Represented By The Secretary Of The	(11) EP3955807	(31) 201962869066 P
Army	(21) EP19933151.3	(32) 01.07.2019
University of Tennessee Research	(47) 26.07.2023	(33) United States of America
Foundation	(87) US2019036794	(51) A61B 5/055
	17.12.2020	G01R 33/56

G01R 33/565	CHAPELLE, Dominique	(11) EP3890606
G01R 33/48	IMPERIALE, Sébastien	(21) EP19828378.0
G01R 33/44	(31) 1651760	(47) 26.07.2023
G01R 33/46	(32) 02.03.2016	(87) US2019063565
G01R 33/485	(33) France	11.06.2020
(11) EP3398511	(51) A61B 5/11	(22) 27.11.2019
(21) EP15911837.1	A61B 5/00	(54) PHOTOACOUSTIC
(47) 26.07.2023	G01C 22/00	ELECTROCARDIOGRAM-GATED
(87) CN2015099923	G06F 1/16	KILOHERTZ VISUALIZATION
06.07.2017	G06F 3/01	(73) Fujifilm Sonosite, Inc.
(22) 30.12.2015	G06F 3/041	(72) FORBRICH, Alexander, Erich
(54) MAGNETIC RESONANCE CHEMICAL-SHIFT-ENCODED IMAGING METHOD AND DEVICE	G06F 3/0488	(31) 201862775113 P
(73) Shanghai United Imaging Healthcare Co., Ltd.	G07C 1/22	(32) 04.12.2018
(72) LIU, Xin	G08C 19/00	(33) United States of America
CHENG, Chuanli	G16H 20/30	(51) A61B 5/145
ZOU, Chao	H04M 1/72409	A61B 5/00
ZHENG, Hairong	A61B 5/22	A61B 5/1473
(51) A61B 5/08	A63B 22/00	H04L 67/12
A61B 5/11	A63B 22/02	(11) EP3777679
A61B 5/113	A63B 22/06	(21) EP18867137.4
A61B 5/18	A63B 24/00	(47) 26.07.2023
(11) EP3562394	A63B 71/06	(87) CN2018109283
(21) EP16829406.4	A63B 69/00	18.04.2019
(47) 26.07.2023	H04M 1/72412	(22) 08.10.2018
(87) EP2016082780	H04M 1/72442	(54) CLOUD BIG DATA-BASED SMART REAL-TIME DYNAMIC BLOOD SUGAR MONITORING SYSTEM AND METHOD
05.07.2018	(11) EP2265346	(73) Micro Tech Medical (Hangzhou) Co., Ltd.
(22) 28.12.2016	(21) EP09732567.4	(72) CHEN, Zhiyan
(54) RESPIRATORY SIGNAL EXTRACTION	(47) 26.07.2023	YU, Fei
(73) Ficoso Adas, S.L.U.	(87) US2009040834	(31) 201710947227
(72) MATEU MATEUS, Marc	22.10.2009	(32) 12.10.2017
RODRIGUEZ IBAÑEZ, Noelia	(22) 16.04.2009	(33) China
BAS PUJOLS, Bernat	(54) ATHLETIC PERFORMANCE USER INTERFACE FOR MOBILE DEVICE	(51) A61B 5/1455
FERNANDEZ CHIMENO, Mireya	(73) NIKE Innovate C.V.	(11) EP3703566
GUEDE FERNANDEZ, Federico	(72) NIMS, Jason	(21) EP18814717.7
ALVAREZ GOMEZ, Jose Maria	MOLL-CARRILLO, Hector	(47) 26.07.2023
GARCÍA GONZALEZ, Miguel Angel	TCHAO, Michael	(87) US2018058294
RAMOS CASTRO, Juan	(31) 45599	09.05.2019
(51) A61B 5/11	(32) 16.04.2008	(22) 30.10.2018
A61B 5/00	(33) United States of America	(54) SYSTEM FOR DISPLAYING OXYGEN STATE INDICATIONS
(11) EP3307160	(51) A61B 5/11	(73) Masimo Corporation
(21) EP16728109.6	A61B 5/0245	(72) SAMPATH, Anand
(47) 26.07.2023	A61B 5/352	MUHSIN, Bilal
(87) IB2016053106	A61B 5/355	FREY, Sebastian T.
15.12.2016	A61B 5/00	INDORF, Keith Ward
(22) 27.05.2016	A63B 24/00	CHANDRAN, Prashanth Rengaswamy
(54) SYSTEM AND METHOD FOR ESTIMATING CIRCADIAN PHASE	(11) EP3777669	(31) 201762579575 P
(73) Koninklijke Philips N.V.	(21) EP19786176.8	(32) 31.10.2017
(72) AUBERT, Xavier Louis Marie Antoine	(47) 26.07.2023	(33) United States of America
(31) 201562174162 P	(87) JP2019015577	(51) A61B 5/1455
(32) 11.06.2015	17.10.2019	A61B 5/00
(33) United States of America	(22) 10.04.2019	(11) EP2869764
(51) A61B 5/11	(54) ANAEROBIC THRESHOLD ESTIMATION METHOD AND DEVICE	(21) EP13736980.7
A61B 5/00	(73) NIPPON TELEGRAPH AND TELEPHONE CORPORATION	(47) 26.07.2023
(11) EP3422941	(72) MATSUURA, Nobuaki	(87) IL2013050557
(21) EP17711721.5	TOGO, Hiroyoshi	09.01.2014
(47) 26.07.2023	HIGUCHI, Yuichi	(22) 02.07.2013
(87) FR2017050468	(31) 2018076549	(54) SYSTEM AND METHOD FOR MEASURING BLOOD PARAMETERS
08.09.2017	(32) 12.04.2018	(73) Orsense Ltd.
(22) 01.03.2017	(33) Japan	(72) WEINSTEIN, Aharon
(54) CARDIAC DEVICE	(51) A61B 5/113	GANDELMAN, Yosef
(73) INRIA - Institut National de Recherche en Informatique et en Automatique	A61B 5/318	(31) 201261668719 P
(72) LAURIN, Alexandre	A61B 5/053	(32) 06.07.2012
MOIREAU, Philippe	A61B 8/08	(33) United States of America
	A61B 5/145	(51) A61B 5/1455
	A61B 5/0205	

A61B 5/1491	(54) NEEDLE ASSEMBLY	(54) CANTILEVERED X-RAY CT SYSTEM FOR MULTI-AXIS IMAGING
(11) EP3979911	(73) Greiner Bio-One GmbH	(73) Mobius Imaging, LLC
(21) EP20732155.5	(72) KNUTSSON, Per	(72) SEBRING, Paul
(47) 26.07.2023	(31) 1350137	CONNOR, Michael
(87) EP2020065523	(32) 05.02.2013	STANTON, Russell
17.12.2020	(33) Sweden	GREGERSON, Eugene A.
(22) 04.06.2020	(51) A61B 5/268	(31) 201715817672
(54) PORTABLE DEVICE FOR ESTIMATING THE PARTIAL PRESSURE OF BLOOD GAS	A61N 1/04	201662425746 P
(73) COMMISSARIAT À L'ÉNERGIE ATOMIQUE ET AUX ÉNERGIES ALTERNATIVES	(11) EP3791790	(32) 20.11.2017
(72) ACCENSI, Marc	(21) EP20188581.1	23.11.2016
GRATEAU, Henri	(47) 26.07.2023	(33) United States of America
GRANGEAT, Pierre	(22) 30.07.2020	United States of America
GHARBI, Sadok	(54) SOFT MULTI-SEGMENTED, FUNCTIONALIZED BODIES MADE FROM POLYMERS	(51) A61B 6/00
(31) 1906142	(73) Nextsense, Inc.	G06T 17/00
(32) 09.06.2019	(72) Dittmer, Robert	G09B 23/28
(33) France	Hendricks, Jeffrey	A61B 6/02
(51) A61B 5/1455	Stoica, Leonard	(11) EP3871606
A61B 5/16	(31) 201962881628 P	(21) EP21169662.0
G06F 3/01	(32) 01.08.2019	(47) 26.07.2023
G16H 20/70	(33) United States of America	(22) 04.07.2017
G16H 50/20	(51) A61B 5/352	(54) METHOD OF RADIOGRAPHY OF AN ORGAN OF A PATIENT
A61B 5/055	(11) EP3658017	(73) EOS Imaging
A61B 5/11	(21) EP18752989.6	(72) METZ, Camille
A61B 5/12	(47) 26.07.2023	DESAUTE, Pascal
G06V 40/20	(87) US2018043923	(51) A61B 6/00
(11) EP4111966	31.01.2019	G06T 17/00
(21) EP21202460.8	(22) 26.07.2018	G09B 23/28
(47) 26.07.2023	(54) GENERATING ACTIVATION TIMES	A61B 6/02
(22) 13.10.2021	(73) Medtronic Inc.	(11) EP3871607
(54) DIGITAL CONTENT-BASED DEVICE FOR PROVIDING THERAPEUTICS INFORMATION	(72) KLECKNER, Karen J.	(21) EP21169663.8
(73) Actibrain Bio, Inc.	GHOSH, Subham	(47) 26.07.2023
(72) KIM, Sung Yeun	(31) 201762538396 P	(22) 04.07.2017
(31) 20210085714	(32) 28.07.2017	(54) METHOD OF RADIOGRAPHY OF AN ORGAN OF A PATIENT
(32) 30.06.2021	(33) United States of America	(73) EOS Imaging
(33) Korea (Republic)	(51) A61B 5/372	(72) DESAUTE, Pascal
(51) A61B 5/15	A61B 5/00	METZ, Camille
A61B 5/154	(11) EP2704630	(51) A61B 6/02
B01L 3/00	(21) EP12781958.9	A61B 6/14
(11) EP3806741	(47) 26.07.2023	A61B 6/00
(21) EP19740436.1	(87) US2012036854	A61B 6/03
(47) 26.07.2023	15.11.2012	A61B 6/04
(87) US2019037017	(22) 07.05.2012	A61B 6/10
19.12.2019	(54) SYSTEM FOR TRACKING BRAIN STATES DURING ADMINISTRATION OF ANESTHESIA	(11) EP3111845
(22) 13.06.2019	(73) The General Hospital Corporation	(21) EP16177121.7
(54) ATMOSPHERIC-BALANCED VACUUM FOR BLOOD GAS SAMPLE STABILIZATION WITH AN EVACUATED CONTAINER	(72) PRERAU, Michael J.	(47) 26.07.2023
(73) Becton, Dickinson and Company	PURDON, Patrick, L.	(22) 30.06.2016
(72) BLAKE, Alexander, James	MUKAMEL, Eran A.	(54) METHOD AND APPARATUS FOR ACQUIRING PANORAMIC AND CBCT VOLUMETRIC RADIOGRAPHS
RAVERDY-WILSON, Sylvine	BROWN, Emery, N.	(73) CEFLA SOCIETA' COOPERATIVA
EDELHAUSER, Adam	CIMENSER, Aylin	(72) Zoccatelli, Giacomo
(31) 201862684800 P	(31) 201161483483 P	(31) UB20151800
(32) 14.06.2018	(32) 06.05.2011	(32) 02.07.2015
(33) United States of America	(33) United States of America	(33) Italy
(51) A61B 5/15	(51) A61B 6/00	(51) A61B 6/03
A61M 5/32	A61B 6/03	A61B 6/00
A61M 25/06	A61N 5/10	G06T 11/00
(11) EP2977005	A61B 6/02	(11) EP3247275
(21) EP15182942.1	A61B 6/04	(21) EP16740379.9
(47) 26.07.2023	A61B 6/10	(47) 26.07.2023
(22) 04.02.2014	(11) EP3544510	(87) KR2016000549
	(21) EP17873880.3	28.07.2016
	(47) 26.07.2023	(22) 19.01.2016
	(87) US2017062776	(54) TOMOGRAPHY IMAGING APPARATUS AND METHOD
	31.05.2018	
	(22) 21.11.2017	

(73) Samsung Electronics Co., Ltd.	(21) EP19762684.9	A61M 25/06
(72) HAN, Kwan-hee	(47) 26.07.2023	(11) EP3419526
RIFU, Toshihiro	(87) US2019047880	(21) EP17757421.7
JUNG, Jin-wook	27.02.2020	(47) 26.07.2023
CHO, Min-kook	(22) 23.08.2019	(87) US2017019700
SEO, Eun-ji	(54) SYSTEM AND METHOD FOR	31.08.2017
(31) 20150009337	MEASURING VIBRATIONAL SPECTRA	(22) 27.02.2017
(32) 20.01.2015	IN LIVING CELLS AND TISSUE OVER	(54) METHODS AND DEVICES FOR
(33) Korea (Republic)	TIME	FALLOPIAN TUBE DIAGNOSTICS
(51) A61B 8/00	(73) Digital Harmonic LLC	(73) Boston Scientific Scimed, Inc.
A61B 34/30	(72) COULTER, Jonathan B.	(72) SARNA, Surbhi
A61B 50/13	PRITCHARD, Eric K.	CHIN, Albert
(11) EP3344145	NELSON, William G.	SNOW, David, W.
(21) EP16767101.5	SLAY, Frederick M.	MAGANA, Jesus
(47) 26.07.2023	SZALAY, Sandor	(31) 201615053568
(87) US2016050233	MORRIS, Shane G. W.	(32) 25.02.2016
09.03.2017	SMITH, Paul Reed	(33) United States of America
(22) 02.09.2016	(31) 201862722302 P	(51) A61B 10/04
(54) STEERING MECHANISM FOR	(32) 24.08.2018	A61B 10/02
PORTABLE SURGICAL ROBOT	(33) United States of America	(11) EP3079597
(73) MAKO Surgical Corp.	(51) A61B 8/12	(21) EP14870446.3
(72) SHIELS, Paul	A61B 8/00	(47) 26.07.2023
ROSS, Alan	A61B 1/00	(87) US2014069959
(31) 201562214718 P	(11) EP3747369	18.06.2015
201562214696 P	(21) EP20188102.6	(22) 12.12.2014
(32) 04.09.2015	(47) 26.07.2023	(54) TELESCOPING BIOPSY NEEDLE
04.09.2015	(22) 25.03.2015	(73) Intuitive Surgical Operations, Inc.
(33) United States of America	(54) ULTRASONIC ENDOSCOPE	(72) GORDON, Lucas
United States of America	(73) FUJIFILM Corporation	(31) 201361915950 P
(51) A61B 8/00	(72) MORIMOTO, Yasuhiko	(32) 13.12.2013
H04N 19/10	(31) 2014071316	(33) United States of America
H04N 19/124	(32) 31.03.2014	(51) A61B 17/00
(11) EP3785639	(33) Japan	A61B 17/12
(21) EP19792612.4	(51) A61B 10/02	(11) EP3560430
(47) 26.07.2023	A61B 17/16	(21) EP19179823.0
(87) JP2019015113	A61L 27/36	(47) 26.07.2023
31.10.2019	A61L 27/38	(22) 14.09.2012
(22) 05.04.2019	A61J 1/14	(54) OCCLUSIVE DEVICES
(54) ULTRASOUND SYSTEM AND	A61J 1/20	(73) W. L. Gore & Associates, Inc.
CONTROL METHOD FOR	C12M 1/26	(72) MASTERS, Steven, J.
ULTRASOUND SYSTEM	C12M 1/33	SHAW, Edward, E.
(73) FUJIFILM Corporation	A61B 17/88	LARSEN, Coby C.
(72) MIYACHI Yukiya	A61M 1/00	(31) 201213615228
(31) 2018083744	(11) EP3294144	201161535830 P
(32) 25.04.2018	(21) EP16793326.6	(32) 13.09.2012
(33) Japan	(47) 26.07.2023	16.09.2011
(51) A61B 8/08	(87) US2016031490	(33) United States of America
A61B 8/12	17.11.2016	United States of America
A61B 8/13	(22) 09.05.2016	(51) A61B 17/04
A61B 8/14	(54) BONE FRAGMENT AND TISSUE	A61B 17/062
A61B 17/34	HARVESTING SYSTEM	A61B 17/122
A61B 90/00	(73) ForCyte Medical, LLC	(11) EP3679867
(11) EP3131471	Cleveland Clinic Foundation	(21) EP20155796.4
(21) EP14728634.8	(72) MUSCHLER, George	(47) 26.07.2023
(47) 26.07.2023	FREEMAN, Andy	(22) 30.06.2015
(87) IB2014060781	ASSELL, Robert	(54) HEMOSTATIC CLIP WITH NEEDLE
22.10.2015	(31) 201562193451 P	PASSER
(22) 16.04.2014	201562158574 P	(73) Boston Scientific Scimed, Inc.
(54) MULTI-PURPOSE INSTRUMENT GUIDE	(32) 16.07.2015	(72) MAY, Norman C.
(73) B-K Medical ApS	08.05.2015	SUON, Naroun
(72) NYGAARD, Per Ehrenreich	(33) United States of America	WHITNEY, Andrew James
ANTOL, John	United States of America	SMITH, Paul
SASADY, Niels-Christian	(51) A61B 10/02	GOLDEN, John
(51) A61B 8/08	A61M 25/10	JAGELSKI, Matthew
G01H 9/00	A61M 25/01	MCELWEE, Kevin James
G01N 15/14	A61B 90/00	TONG, Ray Hewenson
G01N 15/10	A61B 1/303	RAYBIN, Samuel
(11) EP3840664	A61M 25/00	(31) 201462019588 P

(32) 01.07.2014	(73) Ethicon, Inc.	(72) WILLIAMS, Ryan
(33) United States of America	(72) CARDINALE, Michael	CHOWANIEC, David
(51) A61B 17/04	SACK, Todd	MARCZYK, Stanislaw
A61B 17/94	SCHNEIDER, Jared	ZEMLOK, Michael
A61F 2/08	BRICKNER, Aaron J.	PATEL, Nihir
(11) EP2967552	MIKSZA, Anthony	(31) 201213484975
(21) EP14773767.0	SOULS, Doug	(32) 31.05.2012
(47) 26.07.2023	SCHIFF, David R.	(33) United States of America
(87) US2014021774	WENIG, Erin Elizabeth	(51) A61B 17/12
02.10.2014	(31) 201514979909	A61B 17/00
(22) 07.03.2014	(32) 28.12.2015	(11) EP3073936
(54) TISSUE CAPTURING BONE ANCHOR	(33) United States of America	(21) EP14820761.6
(73) ConMed Corporation	(51) A61B 17/072	(47) 26.07.2023
(72) TICKER, Jonathan, B.	(11) EP3831314	(87) EP2014075942
(31) 201361786168 P	(21) EP21154113.1	04.06.2015
(32) 14.03.2013	(47) 26.07.2023	(22) 28.11.2014
(33) United States of America	(22) 13.01.2012	(54) MEDICAL IMPLANT
(51) A61B 17/04	(54) SYSTEMS FOR INDICATING A	(73) Bentley InnoMed GmbH
A61F 2/24	CLAMPING PREDICTION	(72) OBRADOVIC, Milisav
(11) EP3116409	(73) Intuitive Surgical Operations, Inc.	(31) 102013019890
(21) EP15711384.6	(72) DUQUE, Grant	(32) 28.11.2013
(47) 26.07.2023	ZABINSKI, John	(33) Germany
(87) US2015019418	DURANT, Kevin	(51) A61B 17/12
17.09.2015	FLANAGAN, Patrick	A61B 17/00
(22) 09.03.2015	WEIR, David W.	(11) EP3258857
(54) DEVICES FOR POSITIONING AND	ROBINSON, David	(21) EP16707338.6
MONITORING TETHER LOAD FOR	NIXON, Margaret, M	(47) 26.07.2023
PROSTHETIC MITRAL VALVE	(31) 201161443159 P	(87) US2016018478
(73) Tendyne Holdings, Inc.	(32) 15.02.2011	25.08.2016
(72) EKVALL, Craig A.	(33) United States of America	(22) 18.02.2016
VIDLUND, Robert M.	(51) A61B 17/072	(54) VASCULAR OCCLUSION DEVICES
(31) 201461970887 P	A61B 17/068	(73) Boston Scientific Scimed, Inc.
201461970882 P	A61B 17/16	(72) GROFF, Joel, N.
201461950429 P	A61B 18/10	CONNOLLY, Joseph, Michael
(32) 26.03.2014	A61C 1/00	HAVERKOST, Patrick, A.
26.03.2014	A61B 50/30	(31) 201562117503 P
10.03.2014	A61B 17/00	(32) 18.02.2015
(33) United States of America	A61B 50/00	(33) United States of America
United States of America	A61B 90/00	(51) A61B 17/12
United States of America	A61B 17/29	A61B 17/10
(51) A61B 17/064	A61B 18/20	A61B 17/22
(11) EP3344160	A61B 46/10	A61M 25/09
(21) EP16778133.5	A61F 2/70	(11) EP3413808
(47) 26.07.2023	(11) EP3187121	(21) EP17750916.3
(87) US2016049810	(21) EP16206726.8	(47) 26.07.2023
09.03.2017	(47) 26.07.2023	(87) US2017017557
(22) 01.09.2016	(22) 23.12.2016	17.08.2017
(54) ELASTIC ORTHOPEDIC IMPLANT	(54) HAND-HELD ELECTROMECHANICAL	(22) 10.02.2017
AND METHOD OF MANUFACTURE	SURGICAL SYSTEM	(54) DEVICES FOR VASCULAR
THEREOF	(73) Covidien LP	OCCLUSION
(73) Biomedical Enterprises, Inc.	(72) CHOWANIEC, Matthew	(73) Microvention, Inc.
(72) CHENEY, Daniel F.	PRIBANIC, Russell	(72) MORANO, Maria
(31) 201562213774 P	RINALDI, Paul	BOWMAN, Heath
(32) 03.09.2015	BEARDSLEY, John	CORTEZ, Rogelio
(33) United States of America	(31) 201514983689	RETAREKAR, Rohini
(51) A61B 17/068	(32) 30.12.2015	SHIMIZU, Jared
A61F 2/00	(33) United States of America	LAM, Kiet
A61B 17/064	(51) A61B 17/072	(31) 201662293710 P
A61B 17/29	A61B 90/00	(32) 10.02.2016
A61B 90/00	(11) EP3593734	(33) United States of America
A61B 17/00	(21) EP19191418.3	(51) A61B 17/12
(11) EP3827756	(47) 26.07.2023	A61B 17/3205
(21) EP21151080.5	(22) 31.05.2013	A61B 17/06
(47) 26.07.2023	(54) SURGICAL ADAPTER FOR USE	A61B 17/00
(22) 15.12.2016	BETWEEN SURGICAL HANDLE	(11) EP3476314
(54) APPLICATOR INSTRUMENTS HAVING	ASSEMBLY AND SURGICAL END	(21) EP17819142.5
OFF-AXIS SURGICAL FASTENER	EFFECTORS WITH HEAT DISSIPATION	(47) 26.07.2023
DELIVERY	(73) Covidien LP	(87) CN2017089297

04.01.2018	(73) DePuy Ireland Unlimited Company	A61B 17/29
(22) 21.06.2017	(72) LIVORSI, Carl F.	A61B 90/00
(54) SELF-TIGHTENING ELASTIC LINE LIGATOR	FLAKNE, Kyle R.	(11) EP3851057
(73) Wellcare (WUHAN) Medical Technology Co., Ltd.	TSUKAYAMA, Craig S.	(21) EP21160482.2
(72) ZHANG, Hui	WYSS, Joseph G.	(47) 26.07.2023
(31) 201610488738	WOGOMAN, Thomas E.	(22) 24.03.2017
201610493124	BENNETT, Travis D.	(54) SURGICAL INSTRUMENT HAVING CUTTING ASSEMBLY WITH GRIP
201610493057	REEDER, Nathan C.	(73) Stryker European Operations Holdings LLC
(32) 28.06.2016	LASHURE, Daniel E.	(72) CURTIN, Damian Michael
28.06.2016	CLARY, Chadd W.	CUSHEN, Patrick
28.06.2016	CHANEY, Rebecca L.	(31) 201662312675 P
(33) China	(31) 201662338276 P	(32) 24.03.2016
China	(32) 18.05.2016	(33) United States of America
China	(33) United States of America	(51) A61B 17/285
(51) A61B 17/122	(51) A61B 17/285	(51) A61B 17/32
A61B 17/128	A61B 17/295	A61B 17/3207
A61B 17/12	(11) EP3294186	A61F 9/007
A61B 17/00	(21) EP16797006.0	(11) EP3310275
A61B 90/00	(47) 26.07.2023	(21) EP16731485.5
(11) EP3917414	(87) US2016032351	(47) 26.07.2023
(21) EP20753479.3	24.11.2016	(87) US2016037372
(47) 26.07.2023	(22) 13.05.2016	22.12.2016
(87) US2020037061	(54) SYSTEM FOR MINIMALLY INVASIVE CUTTING INSTRUMENT OPERATION	(22) 14.06.2016
24.12.2020	(73) Intuitive Surgical Operations Inc.	(54) SURGICAL INSTRUMENT WITH SUCTION CONTROL
(22) 10.06.2020	(72) WEIR, David W.	(73) Covidien LP
(54) HEMOSTASIS CLIP REDUCED LENGTH DEPLOYMENT MECHANISM	WU, Melody	(72) INAMDAR, Tejas Satish
(73) Boston Scientific Scimed, Inc.	WALDO, Michael	AKILIAN, Mireille
(72) CONGDON, Daniel	(31) 201562162217 P	CESARINI, Peter
ROBERTS, Alex	(32) 15.05.2015	(31) 201562181565 P
LEHTINEN, Laurie A.	(33) United States of America	(32) 18.06.2015
(31) 201962863320 P	(51) A61B 17/32	(33) United States of America
(32) 19.06.2019	(11) EP3917416	(51) A61B 17/32
(33) United States of America	(21) EP20704590.7	A61B 90/00
(51) A61B 17/15	(47) 26.07.2023	A61B 17/00
(11) EP3488799	(87) IB2020050713	(11) EP2883508
(21) EP18153150.0	06.08.2020	(21) EP14197213.3
(47) 26.07.2023	(22) 29.01.2020	(47) 26.07.2023
(22) 24.01.2018	(54) CONNECTOR FOR SURGICAL HANDPIECE	(22) 10.12.2014
(54) OSTEOTOMY DEVICE WITH AN IN-VITRO ALIGNMENT COMPONENT	(73) Integra LifeSciences Enterprises, LLLP	(54) Tissue shaving device having a fluid removal path
(73) A Plus Biotechnology Company Limited	(72) BERTORELLI, John	(73) Medos International Sàrl
(72) WU, Kai-Hsing	COTTER, Daniel J.	(72) Thistle, Robert C.
LIN, Kun-Jhih	NIESKOSKI, Michael	(31) 201314103200
LO, Hsiang Wei	KETELHOHN, Robert A.	(32) 11.12.2013
YU, Ping Sheng	SHEEHAN, James	(33) United States of America
(31) 106140619	(31) 201916262525	(51) A61B 17/34
(32) 22.11.2017	(32) 30.01.2019	A61B 10/00
(33) Taiwan, Chinese Taipei	(33) United States of America	A61B 90/00
(51) A61B 17/16	(51) A61B 17/32	(11) EP3858269
A61B 17/17	(11) EP3912574	(21) EP20202721.5
A61F 2/46	(21) EP21174920.5	(47) 26.07.2023
A61F 2/38	(47) 26.07.2023	(22) 20.10.2020
A61B 17/15	(22) 20.05.2021	(54) CANNULA, IN PARTICULAR FOR LUMBAR PUNCTURE AND INJECTION, AND METHOD FOR ITS MANUFACTURE
A61F 2/30	(54) ULTRASONIC TRANSDUCER ASSEMBLY FOR AN ULTRASONIC SURGICAL INSTRUMENT	(73) Pajunk GmbH Medizintechnologie
A61B 90/00	(73) Covidien LP	(72) Pajunk-Schelling, Simone
(11) EP3457958	(72) COWLEY, Matthew, S	Hauger, Martin
(21) EP17731333.5	VAN TOL, David, J	(31) 102020102119
(47) 26.07.2023	(31) 202117313063	(32) 29.01.2020
(87) US2017033278	202063027367 P	(33) Germany
23.11.2017	(32) 06.05.2021	(51) A61B 17/34
(22) 18.05.2017	20.05.2020	A61B 17/00
(54) SYSTEM FOR PREPARING A PATIENT'S FEMUR IN AN ORTHOPAEDIC JOINT REPLACEMENT PROCEDURE	(33) United States of America	(11) EP3991670
	United States of America	(21) EP21185832.9
	(51) A61B 17/32	
	A61B 17/00	

(47) 26.07.2023	(47) 26.07.2023	DALY, Charles
(22) 15.07.2021	(87) US2017056099	CONNOLLY, Aidan
(54) HAIR TRANSPLANTER HAVING CORE SHAFT CONVEYING PORTION	19.04.2018	(31) 201662322711 P
(73) OHDAE Corporation	(22) 11.10.2017	16165436
(72) Lee, Tae Seong	(54) SPINAL IMPLANT	(32) 14.04.2016
Kim, Byoung Sul	(73) K2M, Inc.	14.04.2016
(31) 20200143497	(72) MIZ, George	(33) United States of America
(32) 30.10.2020	KOYSH, Scott	European Patent Office (EPO)
(33) Korea (Republic)	(31) 201662406455 P	
(51) A61B 17/34	(32) 11.10.2016	(51) A61B 17/80
A61B 17/072	(33) United States of America	(11) EP3000423
A61B 90/00	(51) A61B 17/70	(21) EP15002760.5
A61B 17/00	A61B 17/88	(47) 26.07.2023
(11) EP3730076	(11) EP2755582	(22) 24.09.2015
(21) EP20171222.1	(21) EP12831730.2	(54) BONE PLATE LOCKING MECHANISM
(47) 26.07.2023	(47) 26.07.2023	(73) Stryker European Operations Holdings LLC
(22) 24.04.2020	(87) US2012055572	(72) Gilbert, Stephen
(54) SURGICAL SYSTEM AND SURGICAL LOADING UNITS THEREOF	21.03.2013	PAK, Chulho
(73) Covidien LP	(22) 14.09.2012	(31) 201462055184 P
(72) GEORGE, Sebastian Koduthully	(54) TETHER CLAMP AND IMPLANTATION SYSTEM	(32) 25.09.2014
(31) 202016812596	(73) OrthoPediatics Corp.	(33) United States of America
201962838744 P	(72) LINDQUIST, Stuart	(51) A61B 17/80
(32) 09.03.2020	KAPITAN, John M.	A61B 17/064
25.04.2019	ROOF, Randy	(11) EP3187134
(33) United States of America	ALBERT, Michael	(21) EP16175701.8
United States of America	(31) 201261595296 P	(47) 26.07.2023
(51) A61B 17/34	201161534453 P	(22) 22.06.2016
A61B 17/90	(32) 06.02.2012	(54) BONE PLATE AND BONE SYSTEM COMPRISING SUCH A BONE PLATE
A61B 17/04	14.09.2011	(73) Orthohelix Surgical Designs, Inc.
A61B 17/02	(33) United States of America	(72) LEITHER, Andrew
(11) EP3906870	United States of America	PRASAD, Priya
(21) EP21178336.0	(51) A61B 17/70	(31) 201615183361
(47) 26.07.2023	A61B 17/88	201562272435 P
(22) 17.02.2012	A61B 17/86	(32) 15.06.2016
(54) COMPUTER-IMPLEMENTED METHOD OF SIMULATING A COLLISION BETWEEN TWO VIRTUAL TEETH	A61B 17/04	29.12.2015
(73) 3M Innovative Properties Company	(11) EP3319528	(33) United States of America
(72) STARK, Nicholas A.	(21) EP16821956.6	United States of America
SEE, Peter	(47) 26.07.2023	(51) A61B 18/02
RABY, Richard E.	(87) US2016041268	A61B 18/00
(31) 201161444644 P	12.01.2017	(11) EP3741319
(32) 18.02.2011	(22) 07.07.2016	(21) EP20165024.9
(33) United States of America	(54) SPINAL CONSTRUCT WITH FLEXIBLE MEMBER	(47) 26.07.2023
(51) A61B 17/34	(73) K2M, Inc.	(22) 12.02.2016
A61F 2/10	(72) MUNDIS, Gregory	(54) CRYONEEDLE
A61B 17/00	KIM, Han Jo	(73) Boston Scientific Scimed Inc.
(11) EP3818953	BLAKEMORE, Laurel	(72) Zachmann, Andrew Kevin
(21) EP19830312.5	FERGUSON, John	Johnson, Mark Timothy
(47) 26.07.2023	BARRUS, Michael	Ramadhyan, Satish
(87) KR2019006203	(31) 201615135770	Bleiweis, Modechay
09.01.2020	201562189261 P	(31) 201514627568
(22) 23.05.2019	(32) 22.04.2016	(32) 20.02.2015
(54) NEEDLE CHANNEL USABLE IN HAIR TRANSPLANT DEVICE, AND NEEDLE CHANNEL BUNDLE COMPRISING SAME	07.07.2015	(33) United States of America
(73) OHDAE Corporation	(33) United States of America	(51) A61B 18/14
(72) KIM, Byoung Sul	United States of America	A61B 34/00
LEE, Tae Seong	(51) A61B 17/72	A61B 34/37
(31) 20180076789	(11) EP3448291	A61B 17/00
(32) 02.07.2018	(21) EP17720370.0	A61B 90/00
(33) Korea (Republic)	(47) 26.07.2023	A61B 18/08
(51) A61B 17/70	(87) EP2017058343	(11) EP3861955
(11) EP3525699	19.10.2017	(21) EP21154685.8
(21) EP17860758.6	(22) 07.04.2017	(47) 26.07.2023
	(54) INTRAMEDULLARY NAIL SYSTEM	(22) 02.02.2021
	(73) OrthoXel DAC	(54) DRIVE MECHANISMS FOR SURGICAL INSTRUMENTS
	(72) EASTWOOD, John	(73) Covidien LP
	DAILEY, Hannah	(72) HEILIGER, Zachary, S
	HARTY, James	(31) 202016785910

(32) 10.02.2020	(32) 07.11.2017	(72) FLEXMAN, Molly, Lara
(33) United States of America	(33) United States of America	BYDLON, Torre, Michelle
(51) A61B 18/14	(51) A61B 34/00	TORJESEN, Alyssa
A61B 90/30	A61B 90/20	PANSE, Ashish
A61B 18/00	G02B 21/00	(31) 201762550710 P
(11) EP3998033	G02B 21/36	(32) 28.08.2017
(21) EP21213551.1	G02B 21/24	(33) United States of America
(47) 26.07.2023	G06F 3/033	(51) A61B 50/34
(22) 18.04.2018	G06F 3/0346	A61B 90/98
(54) ELECTROSURGICAL INSTRUMENT	G06F 3/01	G16H 40/20
WITH ILLUMINATION ELEMENT	(11) EP3744281	G16H 40/40
(73) Brooke, Gerard Michael	(21) EP19176724.3	G16H 40/63
(72) Brooke, Gerard Michael	(47) 26.07.2023	A61B 90/90
(31) 201707193	(22) 27.05.2019	A61L 2/24
(32) 05.05.2017	(54) MICROSCOPE SYSTEM AND METHOD	A61L 2/26
(33) United Kingdom	FOR OPERATING A SURGICAL	G06K 19/077
(51) A61B 18/18	MICROSCOPE	(11) EP4076264
A61B 18/14	(73) Leica Instruments (Singapore) Pte. Ltd.	(21) EP21782475.4
(11) EP3808302	(72) Themelis, George	(47) 26.07.2023
(21) EP20212413.7	(51) A61B 34/20	(87) EP2021075773
(47) 26.07.2023	A61B 34/30	31.03.2022
(22) 13.04.2017	A61B 90/00	(22) 20.09.2021
(54) SYSTEM FOR ENERGY DELIVERY	A61B 17/14	(54) MODULAR DETECTION SYSTEM
(73) Neuwave Medical, Inc.	A61B 17/16	FOR STERILE CIRCUIT MONITORING
(72) ANDERSON, David	(11) EP3960111	AND METHOD FOR MONITORING A
JOHNSON, Scott	(21) EP21765820.2	STERILE MATERIAL CIRCUIT
SCHEFFELKER, Richard W.	(47) 26.07.2023	(73) Aesculap AG
BRACE, Christopher L.	(87) CN2021089231	(72) PFISTER, Ralf
MORAN, Patrick	06.01.2022	MATEUSZ, Daniol
(31) 201662323319 P	(22) 23.04.2021	BÖHLER, Lukas
(32) 15.04.2016	(54) PRECISE POSITIONING DEVICE AND	LENZENHUBER, Frederick
(33) United States of America	SYSTEM FOR MEDICAL INSTRUMENT	AUBER, Stephanie
(51) A61B 18/24	(73) BEIJING HURWA ROBOT MEDICAL	HÖGERLE, Roland-Alois
(11) EP3806770	TECHNOLOGY CO. LTD	(31) 102020125114
(21) EP19731977.5	(72) LI, Shugang	(32) 25.09.2020
(47) 26.07.2023	(31) 202010627367	(33) Germany
(87) EP2019065970	(32) 01.07.2020	(51) A61B 50/36
26.12.2019	(33) China	A61B 90/00
(22) 18.06.2019	(51) A61B 34/20	A61B 50/00
(54) CATHETER WITH MERGED OPTICAL	A61B 90/00	A61B 50/30
TISSUE EVALUATION AND LASER	(11) EP2811933	B09B 3/00
ABLATION	(21) EP13716384.6	(11) EP3644887
(73) Medlumics S.L.	(47) 26.07.2023	(21) EP18746357.5
(72) GREENE, James L.	(87) IB2013051050	(47) 26.07.2023
RUBIO GUIVERNAU, José Luis	15.08.2013	(87) US2018040359
JIMENEZ, Jorge H.	(22) 08.02.2013	03.01.2019
LLORET SOLER, Juan	(54) SHAFT TRACKER FOR REAL-TIME	(22) 29.06.2018
(31) 201916439946	NAVIGATION TRACKING	(54) WASTE DISPOSAL SYSTEM
201862686159 P	(73) Koninklijke Philips N.V.	AND WASTE RECEIVER FOR
(32) 13.06.2019	(72) KRUECKER, Jochen	RECEIVING AND DISPOSING OF
18.06.2018	DALAL, Sandeep, M.	PHARMACEUTICAL WASTE MATERIAL
(33) United States of America	LIU, Xin	(73) Stryker Corporation
United States of America	CHIU, William, Wing, Nin	(72) MYERS, Stephen
(51) A61B 34/00	(31) 201261596749 P	VANDERWOUDE, Brian
A61B 34/10	(32) 09.02.2012	ULMER, Bryan
B25J 9/16	(33) United States of America	BENOIT, Heather
(11) EP3479789	(51) A61B 34/20	MANESS, David, A.
(21) EP18204879.3	A61B 90/00	WADE, Lucas
(47) 26.07.2023	(11) EP3675763	MEYER, Dennis
(22) 07.11.2018	(21) EP18759302.5	CASTILLO, Logan
(54) ROBOTIC SYSTEM FOR SHOULDER	(47) 26.07.2023	(31) 201762527544 P
ARTHROPLASTY USING STEMLESS	(87) EP2018072738	(32) 30.06.2017
IMPLANT COMPONENTS	07.03.2019	(33) United States of America
(73) Howmedica Osteonics Corporation	(22) 23.08.2018	(51) A61B 90/00
(72) SINGH, Jetinder	(54) AUTOMATIC FIELD OF VIEW	A61B 6/00
RAO, Koustubh	UPDATING OF POSITION TRACKED	G06F 3/0488
YADAV, Rajan	INTERVENTIONAL DEVICE	A61B 90/13
(31) 201762582624 P	(73) Koninklijke Philips N.V.	A61B 17/00

A61B 34/10	(72) MINUTOLI, Saverio	Sirona Dental Systems GmbH
(11) EP3733111	(31) 201900014565	(72) Basler, Franz
(21) EP18897337.4	(32) 09.08.2019	Weiß, Daniel
(47) 26.07.2023	(33) Italy	Nowarra, Oliver
(87) KR2018016393	(51) A61C 1/00	(51) A61C 5/90
04.07.2019	A61C 3/02	(11) EP3981357
(22) 20.12.2018	A61C 17/18	(21) EP20200962.7
(54) LASER TARGET PROJECTION	G06K 19/077	(47) 26.07.2023
APPARATUS AND CONTROL METHOD	A61B 17/14	(22) 09.10.2020
THEREOF, AND LASER SURGERY	(11) EP4009900	(54) FILM CLAMPING ELEMENT
INDUCTION SYSTEM COMPRISING	(21) EP20764771.0	(73) Ivoclar Vivadent AG
LASER TARGET PROJECTION	(47) 26.07.2023	(72) Pokorny, Walter
APPARATUS	(87) IB2020057437	Lichtensteiger, Markus
(73) Kyungpook National University Industry-	18.02.2021	Müller, Frank
Academic Cooperation Foundation	(22) 06.08.2020	(51) A61C 7/08
(72) YU, Jihun	(54) INSERT ASSEMBLY WITH	A61C 7/12
PARK, Ilhyung	RADIOFREQUENCY IDENTIFIER FOR	A61C 7/00
JOUNG, Sanghyun	MEDICAL DEVICE	(11) EP2942030
PARK, Chulwoo	(73) Mectron S.p.A.	(21) EP13869945.9
PARK, Youngkyun	(72) MINUTOLI, Saverio	(47) 26.07.2023
LEE, Hyunwoo	(31) 201900014559	(87) ES2013000003
(31) 20170180581	(32) 09.08.2019	10.07.2014
(32) 27.12.2017	(33) Italy	(22) 02.01.2013
(33) Korea (Republic)	(51) A61C 1/05	(54) REMOVABLE LINGUAL-VESTIBULAR
(51) A61B 90/00	A61C 1/12	DENTAL ALIGNMENT DEVICE AND
A61B 34/10	A61C 1/14	METHOD FOR THE PRODUCTION
A61B 34/20	(11) EP3949893	THEREOF
A61B 6/00	(21) EP21189972.9	(73) Genova Technologies S. L.
G06T 5/50	(47) 26.07.2023	(72) JIMÉNEZ CARABALLO, Santiago
(11) EP3677212	(22) 05.08.2021	(51) A61C 8/00
(21) EP19150348.1	(54) DENTAL HANDPIECE	A61C 13/00
(47) 26.07.2023	(73) Beyes Dental Canada Inc.	(11) EP3219287
(22) 04.01.2019	(72) Yang, Hua	(21) EP17000382.6
(54) METHOD AND SYSTEM FOR	(31) 202010791147	(47) 26.07.2023
DETERMINING A NAVIGATION	(32) 07.08.2020	(22) 09.03.2017
PATHWAY FOR INVASIVE MEDICAL	(33) China	(54) OPTIMIZATION OF
INSTRUMENT IN BLOOD VESSELS	(51) A61C 5/62	SUPRASTRUCTURES OR MESIO
(73) Siemens Healthcare GmbH	A61C 5/66	STRUCTURES IN DENTAL
(72) Lonkadi, Sham S	A61C 3/00	PROSTHESES
(51) A61B 90/40	A61K 6/00	(73) CADFEM International GmbH
A61B 17/34	(11) EP3658065	(72) Müller, Christoph
A61B 42/00	(21) EP18782935.3	Bonitz, Lars
A61B 46/27	(47) 26.07.2023	Volf, Alexander
A61B 90/00	(87) EP2018076603	(31) 102016003084
(11) EP2943137	11.04.2019	(32) 14.03.2016
(21) EP14706347.3	(22) 01.10.2018	(33) Germany
(47) 26.07.2023	(54) MICRO-APPLICATOR FOR USE WITH	(51) A61C 8/02
(87) SE2014050031	DENTAL ADHESIVES	A61F 2/28
17.07.2014	(73) Kulzer GmbH	(11) EP3993731
(22) 14.01.2014	(72) KEMENY, Andrea	(21) EP20750575.1
(54) SURGICAL ASSISTING DEVICE	KONDZIELA, Mike	(47) 26.07.2023
(73) MedicalTree Patent Ltd.	(31) 102017122990	(87) DE2020100562
(72) FORSELL, Peter	(32) 04.10.2017	07.01.2021
(31) 1350042	(33) Germany	(22) 29.06.2020
(32) 14.01.2013	(51) A61C 5/77	(54) COVERING DEVICE FOR A BONE
(33) Sweden	A61C 13/00	DEFECT AND METHOD FOR
(51) A61C 1/00	B23Q 3/16	PRODUCING A COVERING DEVICE
A61B 17/00	B23C 3/16	FOR A BONE DEFECT
A61C 17/16	B23Q 15/00	(73) Reoss GmbH
(11) EP4009899	G05B 19/4093	(72) SEILER, Marcus
(21) EP20764765.2	(11) EP3804654	(31) 102019118134
(47) 26.07.2023	(21) EP19202011.3	(32) 04.07.2019
(87) IB2020057193	(47) 26.07.2023	(33) Germany
18.02.2021	(22) 08.10.2019	(51) A61C 9/00
(22) 30.07.2020	(54) METHOD OF MACHINING A DENTAL	A61C 13/00
(54) HANDPIECE ASSEMBLY FOR	BLOCK FOR MANUFACTURING A	A61C 13/08
MEDICAL DEVICE	DENTAL RESTORATION	A61C 13/09
(73) Mectron S.p.A.	(73) DENTSPLY SIRONA Inc.	

G01J 3/50	(31) 201715400369	(54) PHOSPHORYLATED POLY(ESTER-UREA) BASED DEGRADABLE BONE ADHESIVES
(11) EP3937839	(32) 06.01.2017	(73) The University of Akron
(21) EP20718400.3	(33) United States of America	(72) BECKER, Matthew
(47) 26.07.2023	(51) A61C 17/32	BHAGAT, Vrushali Dinkar
(87) NL2020050165	A61C 17/34	(31) 201662328653 P
17.09.2020	(11) EP3569191	(32) 28.04.2016
(22) 12.03.2020	(21) EP17891621.9	(33) United States of America
(54) METHOD FOR PROVIDING A NATURAL COLOUR AND OPTICAL DEPTH TO A DENTAL OBJECT	(47) 26.07.2023	(51) A61F 2/00
(73) Oralcol Assets Holding B.V.	(87) CN2017086825	B81C 1/00
(72) DANG, Hong-Vu	19.07.2018	A61F 2/12
(31) 2022738	(22) 01.06.2017	(11) EP3443933
(32) 14.03.2019	(54) MULTIFUNCTIONAL VISUAL ELECTRIC TOOTHBRUSH	(21) EP18207556.4
(33) Netherlands	(73) Zhou, Xing	(47) 26.07.2023
(51) A61C 13/00	(72) Zhou, Xing	(22) 16.02.2015
A61C 5/70	(31) 201710030761	(54) TEXTURED SURFACES FOR BREAST IMPLANTS
A61C 5/73	(32) 16.01.2017	(73) Establishment Labs S.A.
A61C 5/77	(33) China	(72) BAYAT, Ardeshir
(11) EP3967263	(51) A61C 19/06	HILL, Ernie
(21) EP21306234.2	(11) EP3399943	KYLE, Daniel
(47) 26.07.2023	(21) EP17701382.8	OIKONOMOU, Antonios
(22) 09.09.2021	(47) 26.07.2023	(31) 201402804
(54) UNIT MACHINABLE BY CAD/CAM FOR THE PRODUCTION OF A DENTAL PROSTHETIC ELEMENT	(87) US2017012412	(32) 17.02.2014
(73) Societe de Recherches Techniques Dentaires	13.07.2017	(33) United Kingdom
(72) CHU, Manh-Quynh	(22) 06.01.2017	(51) A61F 2/01
(31) 2009357	(54) COMPOSITIONS FOR USE IN TOOTH-WHITENING PROCESSES	A61B 17/50
(32) 15.09.2020	(73) The Procter & Gamble Company	A61B 17/00
(33) France	(72) RAJAI AH, Jayanth	A61B 17/22
(51) A61C 13/08	KEITH, Elizabeth, Lauren	A61B 17/221
A61C 13/20	NEWMAN, Matthew, Lloyd	(11) EP3398555
(11) EP3050533	SAGEL, Paul, Albert	(21) EP16880603.2
(21) EP14847856.3	ELLINGSON, Kimberly, Horn	(47) 26.07.2023
(47) 26.07.2023	(31) 201614990784	(87) CN2016095540
(87) JP2014071997	(32) 07.01.2016	06.07.2017
02.04.2015	(33) United States of America	(22) 16.08.2016
(22) 22.08.2014	(51) A61D 1/02	(54) CATCHER
(54) METHOD FOR MANUFACTURING DENTAL RESIN BLOCK	A61D 7/00	(73) Lifetech Scientific (Shenzhen) Co., Ltd.
(73) GC Corporation	A61D 3/00	(72) LUO, Hongbing
(72) TAKAGI, Nobuhito	(11) EP3618760	CHEN, Zhuo
NAKAYAMA, Mizuki	(21) EP18726291.0	(31) 201610638920
(31) 2013197115	(47) 26.07.2023	201511033591
(32) 24.09.2013	(87) US2018030782	(32) 04.08.2016
(33) Japan	08.11.2018	31.12.2015
(51) A61C 17/22	(22) 03.05.2018	(33) China
(11) EP3865088	(54) INJECTION SYSTEMS AND METHODS	China
(21) EP20157718.6	(73) Nova-Tech Engineering, LLC	(51) A61F 2/01
(47) 26.07.2023	(72) IMDIEKE, Jeremy, J.	A61F 2/95
(22) 17.02.2020	STARK, Christopher, J.	A61B 17/12
(54) PUSH-ON BRUSH DEVICE	HARKESS, Roger, A.	A61B 17/00
(73) Trisa Holding AG	BIEL, Matthew, R.	(11) EP4103105
(72) Scherzinger, Stefan	EID, Elliot, D.	(21) EP21712846.1
Keller, Fabian	(31) 201762502099 P	(47) 26.07.2023
(51) A61C 17/22	(32) 05.05.2017	(87) EP2021057223
A61C 17/34	(33) United States of America	30.09.2021
A46B 13/02	(51) A61F 2/00	(22) 22.03.2021
(11) EP3925571	A61K 31/74	(54) SYSTEM FOR THE IMPLANTATION OF A MEDICAL IMPLANT IN THE HUMAN OR ANIMAL BODY
(21) EP21190823.1	A61K 35/32	(73) PFM Medical AG
(47) 26.07.2023	A61K 47/42	(72) SCHÄFER, Joachim
(22) 22.03.2017	A61L 24/04	(31) 202000006286
(54) BRUSH HEAD FOR ELECTRIC TOOTHBRUSH	A61L 24/00	(32) 25.03.2020
(73) JS Holding Inc.	(11) EP3448307	(33) Italy
(72) Liu, Xinlan	(21) EP17790244.2	(51) A61F 2/04
	(47) 26.07.2023	A61F 2/06
	(87) US2017029342	A61B 17/11
	02.11.2017	
	(22) 25.04.2017	

(11) EP3135247	WANG, Yifei	(51) A61F 2/24
(21) EP16190534.4	SHU, Chang	A61B 17/12
(47) 26.07.2023	ZHANG, Deyuan	A61B 17/00
(22) 10.10.2008	(31) 201610812180	A61B 17/064
(54) IMPLANTABLE TISSUE CONNECTOR	(32) 07.09.2016	(11) EP4005533
(73) Implantica Patent Ltd.	(33) China	(21) EP21214615.3
(72) FORSELL, Peter	(51) A61F 2/08	(47) 26.07.2023
(31) 960791 P	A61F 2/38	(22) 18.04.2018
960767 P	(11) EP3542755	(54) HEART VALVE SEALING DEVICES AND
960765 P	(21) EP19170507.8	DELIVERY DEVICES THEREFOR
960764 P	(47) 26.07.2023	(73) Edwards Lifesciences Corporation
960766 P	(22) 03.08.2015	(72) CHEN, Jensen
960716 P	(54) SYSTEM FOR LOAD BALANCING IN	DIXON, Eric Robert
960715 P	KNEE REPLACEMENT PROCEDURES	MORATORIO, Guillermo W.
(32) 15.10.2007	(73) Cole, J. Dean	DELGADO, Sergio
12.10.2007	(72) Cole, J. Dean	DOMINICK, Douglas Thomas
12.10.2007	(31) 201462032458 P	FRESCHAUF, Lauren R.
12.10.2007	(32) 01.08.2014	CAO, Hengchu
12.10.2007	(33) United States of America	(31) 201815953283
11.10.2007	(51) A61F 2/16	201815953263
11.10.2007	(11) EP3979948	201815953220
(33) United States of America	(21) EP20731049.1	201815946604
United States of America	(47) 26.07.2023	201815927814
United States of America	(87) EP2020065512	201815914143
United States of America	10.12.2020	201815910951
United States of America	(22) 04.06.2020	201815909803
United States of America	(54) INJECTOR ASSEMBLY FOR	201815884193
United States of America	INSERTING AN INTRAOCULAR LENS	201762486835 P
(51) A61F 2/06	(73) Carl Zeiss Meditec AG	(32) 13.04.2018
A61B 17/11	(72) KELP, Martin	13.04.2018
A61F 5/44	(31) 102019115125	13.04.2018
A61F 5/445	(32) 05.06.2019	05.04.2018
A61M 1/00	(33) Germany	21.03.2018
A61F 2/00	(51) A61F 2/24	07.03.2018
A61F 2/04	(11) EP2967921	02.03.2018
(11) EP3973922	(21) EP14772614.5	01.03.2018
(21) EP21199128.6	(47) 26.07.2023	30.01.2018
(47) 26.07.2023	(87) US2014017946	18.04.2017
(22) 10.10.2008	02.10.2014	(33) United States of America
(54) AN OSTOMY ACCESSORY	(22) 24.02.2014	United States of America
(73) Implantica Patent Ltd.	(54) DYNAMIC ANNULOPLASTY RING	United States of America
(72) Forsell, Peter	SIZER	United States of America
(31) 96076707 P	(73) Edwards Lifesciences Corporation	United States of America
96076507 P	(72) CONKLIN, Brian, S.	United States of America
96076407 P	(31) 201414187084	United States of America
96076607 P	201361778086 P	United States of America
(32) 12.10.2007	(32) 21.02.2014	United States of America
12.10.2007	12.03.2013	United States of America
12.10.2007	(33) United States of America	United States of America
12.10.2007	United States of America	(51) A61F 2/24
(33) United States of America	(51) A61F 2/24	A61F 2/00
United States of America	(11) EP3471663	D03D 1/00
United States of America	(21) EP17729718.1	D03D 13/00
United States of America	(47) 26.07.2023	D03D 15/68
(51) A61F 2/07	(87) US2017035785	D03D 27/04
A61F 2/82	28.12.2017	(11) EP3664749
A61F 2/06	(22) 02.06.2017	(21) EP18844331.1
(11) EP3510972	(54) MODULAR VALVE PROSTHESIS	(47) 26.07.2023
(21) EP17847968.9	DELIVERY SYSTEM	(87) US2018046261
(47) 26.07.2023	(73) Medtronic Vascular Inc.	14.02.2019
(87) CN2017090592	(72) COSTELLO, Declan	(22) 10.08.2018
15.03.2018	DUFFY, Niall	(54) SEALING ELEMENT FOR
(22) 28.06.2017	HAREWOOD, Frank	PROSTHETIC HEART VALVE
(54) BRANCH LUMEN STENT AND LUMEN	BELL, Rodney	(73) Edwards Lifesciences Corporation
STENT SYSTEM	(31) 201615186593	(72) SHERMAN, Elena
(73) Lifetech Scientific (Shenzhen) Co., Ltd.	(32) 20.06.2016	MAROM, Liraz
(72) XIAO, Benhao	(33) United States of America	RUIZ, Delfin, Rafael
YIN, Chao		MIZRAHI, Noam
		PAWAR, Sandip, Vasant

PINHAS, Giolnara	14.12.2017	A61F 5/01
LEVI, Tamir, S.	(22) 06.06.2017	A61F 5/30
(31) 201762544704 P	(54) ELBOW REPLACEMENT APPARATUS	(11) EP3801402
(32) 11.08.2017	(73) Limacorporate SPA	(21) EP19734580.4
(33) United States of America	(72) LO, Darrick	(47) 26.07.2023
(51) A61F 2/28	HOTCHKISS, Robert N.	(87) US2019036480
A61F 2/30	PRESSACCO, Michele	19.12.2019
A61F 2/38	FIGGIE, Mark P.	(22) 11.06.2019
A61L 27/06	WRIGHT, Timothy M.	(54) ORTHOPEDIC DEVICE CONTAINING A
A61L 27/32	DEL NEGRO, Nicola	MULTI-COMPONENT FRAME
A61L 27/34	LIPMAN, Joseph D.	(73) Ossur Iceland EHF
A61L 27/56	FATTORI, Andrea	(72) OLIVO, Jared
A61L 27/58	(31) 201615174617	SELIGMAN, Scott
(11) EP3909549	(32) 06.06.2016	PRICE, Jane
(21) EP21173684.8	(33) United States of America	BAKKER, Ryan
(47) 26.07.2023	(51) A61F 2/40	(31) 201862683152 P
(22) 12.05.2021	A61B 17/15	(32) 11.06.2018
(54) BONE IMPLANT SYSTEM	(11) EP4032506	(33) United States of America
(73) Aesculap AG	(21) EP22158810.6	(51) A61F 2/80
(72) Stolinski, Elvira	(47) 26.07.2023	A61F 2/60
Grupp, Thomas	(22) 24.08.2017	A61F 2/50
Hettich, Georg	(54) HUMERAL HEAD IMPLANT SYSTEM	(11) EP3256080
Hoeffgen, Denis	(73) Howmedica Osteonics Corp.	(21) EP16749727.0
Baxmann, Marc	(72) GREIWE, Raymond Michael	(47) 26.07.2023
(31) 102020206098	(31) 201762531721 P	(87) US2016017178
(32) 14.05.2020	201762469425 P	18.08.2016
(33) Germany	201762463448 P	(22) 09.02.2016
(51) A61F 2/30	201662419905 P	(54) SKELETAL STABILIZATION LINER
A61F 2/28	201662378963 P	SYSTEM
A61F 2/46	(32) 12.07.2017	(73) Alley, Randall
A61F 2/44	09.03.2017	(72) Alley, Randall
A61B 17/80	24.02.2017	(31) 201562115142 P
A61B 17/064	09.11.2016	(32) 11.02.2015
(11) EP3344172	24.08.2016	(33) United States of America
(21) EP16843052.8	(33) United States of America	(51) A61F 2/966
(47) 26.07.2023	United States of America	(11) EP3946145
(87) US2016050064	United States of America	(21) EP20739270.5
09.03.2017	United States of America	(47) 26.07.2023
(22) 02.09.2016	United States of America	(87) EP2020065920
(54) IMPLANTABLE SYSTEMS AND	(51) A61F 2/40	16.12.2021
DEVICES	A61F 2/30	(22) 09.06.2020
(73) Globus Medical, Inc.	(11) EP3679899	(54) A CATHETER DEVICE FOR
(72) HANSELL, Noah	(21) EP19209370.6	TRANSLUMINALLY DELIVERING A
GOLDSMITH, Peter	(47) 26.07.2023	SELF-EXPANDING TUBULAR IMPLANT
GRAY, Jason	(22) 23.03.2016	TO A SITE IN A BODY
KLIMEK, Jennifer	(54) GLENOID IMPLANT	(73) Angiomed GmbH & Co. Medizintechnik
IOTT, Andrew	(73) Howmedica Osteonics Corp.	KG
(31) 201514842881	(72) GARGAC, Shawn M.	(72) GOEBBELER, Peter
(32) 02.09.2015	HODOREK, Brian C.	(51) A61F 5/00
(33) United States of America	(31) 201562157059 P	(11) EP3905994
(51) A61F 2/30	(32) 05.05.2015	(21) EP19700134.0
A61F 2/34	(33) United States of America	(47) 26.07.2023
(11) EP3954332	(51) A61F 2/78	(87) EP2019050112
(21) EP21189849.9	A61F 2/80	09.07.2020
(47) 26.07.2023	A61F 2/60	(22) 03.01.2019
(22) 05.08.2021	A61F 2/74	(54) GASTROINTESTINAL IMPLANT AND
(54) ACETABULAR CUP ASSEMBLY FOR	(11) EP3936087	POSITIONING DEVICE FOR SAME
HIP PROSTHESIS	(21) EP21194447.5	(73) Grablowitz, Viktor
(73) Melozzi, Alessandro	(47) 26.07.2023	Butz, Alexander
(72) Melozzi, Alessandro	(22) 01.11.2018	(72) Butz, Alexander
(31) 202000020107	(54) PROSTHETIC SOCKET SYSTEM	Grablowitz, Viktor
(32) 13.08.2020	(73) Össur Iceland EHF	(51) A61F 5/01
(33) Italy	(72) GRANZ, Dadi	(11) EP3448327
(51) A61F 2/38	HRINGSDDOTTIR, Hogna	(21) EP17719272.1
(11) EP3463199	(31) 201762579984 P	(47) 26.07.2023
(21) EP17727895.9	(32) 01.11.2017	(87) EP2017059894
(47) 26.07.2023	(33) United States of America	02.11.2017
(87) EP2017063691	(51) A61F 2/78	(22) 26.04.2017

(54) ORTHOSIS	(87) GB2021050391	05.03.2020
(73) Ottobock SE & Co. KGaA	26.08.2021	(22) 20.06.2019
(72) KRUCHEM, Tim	(22) 18.02.2021	(54) DRESSINGS FOR REDUCED TISSUE
SIEWERT, Gordon	(54) AN OUTLET VALVE FOR AN OSTOMY	INGROWTH
(31) 102016108049	APPLIANCE	(73) Systagenix Wound Management Limited
(32) 29.04.2016	(73) ConvaTec Limited	KCI Licensing, Inc.
(33) Germany	(72) HOLROYD, Simon	(72) KIESWETTER, Kristine M.
(51) A61F 5/01	TAAL, Stefan	KHARKAR, Prathamesh Madhav
B33Y 80/00	BAKER, Dominic	WAITE, Alexander
(11) EP3720396	(31) 202002316	(31) 201862723837 P
(21) EP18885596.9	202002314	(32) 28.08.2018
(47) 26.07.2023	(32) 19.02.2020	(33) United States of America
(87) CA2018051550	19.02.2020	(51) A61F 13/02
13.06.2019	(33) United Kingdom	A61F 13/00
(22) 04.12.2018	United Kingdom	A61L 15/42
(54) KNEE ORTHOSIS WITH HELICOIDAL	(51) A61F 5/56	A61L 15/60
AXIS AND METHOD OF DESIGN AND	(11) EP3852696	B26D 7/27
FABRICATION THEREOF	(21) EP19863052.7	B26D 3/28
(73) 2330-2029 Québec Inc.	(47) 26.07.2023	B26F 1/38
(72) HINSE, Sébastien	(87) SE2019050877	(11) EP3501466
LABELLE, Maxime	26.03.2020	(21) EP18213651.5
BLEAU, Jacinte	(22) 17.09.2019	(47) 26.07.2023
(31) 201762595654 P	(54) ANTI-SNORING DEVICE	(22) 18.12.2018
(32) 07.12.2017	(73) Sleptight AB	(54) METHOD FOR PROCESSING A
(33) United States of America	(72) WALLIN, Marianne	SUBSTRATE
(51) A61F 5/30	(31) 1851107	(73) Paul Hartmann AG
A61F 13/472	(32) 18.09.2018	(72) Bernd, Frank
(11) EP2958556	(33) Sweden	Sprick, Ralf
(21) EP14753589.2	(51) A61F 7/00	Frühe, Thomas
(47) 26.07.2023	(11) EP3192476	Knecht, Theresia
(87) US2014013507	(21) EP17150938.3	(31) 102017131014
28.08.2014	(47) 26.07.2023	(32) 21.12.2017
(22) 29.01.2014	(22) 11.01.2017	(33) Germany
(54) THREE DIMENSIONAL STRUCTURAL	(54) MEDICAL TEMPERATURE	(51) A61F 13/02
SUPPORT FOR FEMALE PELVIC	CONDITIONING APPARATUS	A61F 13/00
ORGANS IN THONG UNDERWEAR	(73) Hilotherm Holding AG	A61L 15/60
(73) Levelena Enterprises Inc.	(72) Janisch, Klaus	B26D 3/28
(72) ZALTSBERG, Lev	(31) 102016000345	A61L 15/42
ZALTSBERG, Elena	(32) 14.01.2016	B26D 7/27
(31) 201313771923	(33) Germany	B26F 1/38
(32) 20.02.2013	(51) A61F 9/08	(11) EP3501465
(33) United States of America	A61N 7/00	(21) EP18213647.3
(51) A61F 5/44	A61N 1/36	(47) 26.07.2023
(11) EP3709940	A61N 5/02	(22) 18.12.2018
(21) EP18816380.2	(11) EP4051195	(54) METHOD FOR PRODUCING A WOUND
(47) 26.07.2023	(21) EP21822324.6	DRESSING
(87) US2018061544	(47) 26.07.2023	(73) Paul Hartmann AG
23.05.2019	(87) IB2021055086	(72) Röttger, Marc
(22) 16.11.2018	16.12.2021	Kemmler, Julia
(54) RECEPTACLES HAVING TEAR-	(22) 10.06.2021	Frühe, Thomas
CONTROLLING FEATURES	(54) UNIT FOR NON-INVASIVE	Bernd, Frank
(73) Hollister Incorporated	STIMULATION OF THE VISUAL	Maier, Fabian
(72) FOLEY, Adam J.	CORTEX CELLS IN SEVERE VISUAL	Junginger, Martin
NAUGHTON, Vincent	IMPAIRMENT	Ward, James
HACKER, Dean W.	(73) České vysoké učené technické v Praze	(31) 102017131013
O'BRIEN, Daniel E.	(72) LESTAK, Jan	(32) 21.12.2017
MURRAY, Michael G.	CHOD, Jiri	(33) Germany
O'FLYNN, Pdraig M.	ROSINA, Jozef	(51) A61F 13/02
SHEREMETIEV, Dmitry	HANA, Karel	A61L 15/22
MEANEY, Richard	(31) 20200337	A61L 15/42
(31) 201762587682 P	(32) 10.06.2020	A61L 15/26
(32) 17.11.2017	(33) Czech Republic	A61L 15/44
(33) United States of America	(51) A61F 13/00	D04H 3/16
(51) A61F 5/445	A61F 13/02	D01D 5/00
A61F 5/44	(11) EP3843678	D04H 1/728
(11) EP4106692	(21) EP19736897.0	B32B 5/02
(21) EP21708314.6	(47) 26.07.2023	B32B 5/26
(47) 26.07.2023	(87) US2019038273	B32B 7/02

B32B 7/12	(22) 29.03.2018	(54) ASSISTIVE DRIVING SYSTEM FOR A WHEELCHAIR
A61L 15/64	(54) FEMININE ABSORBENT ARTICLES WITH BONDED SIDE FLAPS AND AN APPARATUS FOR PRODUCING THE SAME	(73) Max Mobility, LLC
A61L 27/18	(73) Johnson & Johnson Consumer Inc.	(72) RICHTER, Mark
A61L 27/54	(72) CAU, Jose Francisco	(31) 201514630007
A61L 27/60	(31) 201762479812 P	(32) 24.02.2015
A61L 27/58	(32) 31.03.2017	(33) United States of America
(11) EP3824853	(33) United States of America	(51) A61G 7/015
(21) EP20205022.5	(51) A61F 13/49	A47C 20/04
(47) 26.07.2023	A61F 13/537	A61G 7/07
(22) 21.09.2012	A61F 13/15	A61G 7/075
(54) BIOMEDICAL PATCHES WITH SPATIALLY ARRANGED FIBERS	D04H 1/732	(11) EP3466391
(73) Washington University	(11) EP3613394	(21) EP18198481.6
(72) MACEWAN, Matthew R	(21) EP18189974.1	(47) 26.07.2023
(51) A61F 13/14	(47) 26.07.2023	(22) 03.10.2018
A61B 17/135	(22) 21.08.2018	(54) APPARATUS FOR ADDING HOSPITAL BED FUNCTIONALITY TO AN AT-HOME BED
(11) EP3944843	(54) PROCESS FOR MAKING FIBROUS LAYERS HAVING CHANNELS FOR ABSORBENT ARTICLES	(73) Hill-Rom Services, Inc.
(21) EP20461557.9	(73) The Procter & Gamble Company	(72) MEYERSON, Craig M
(47) 26.07.2023	(72) BIANCHI, Ernesto Gabriel	RIBBLE, David Lance
(22) 30.07.2020	FRÖHLICH, Ute	LAWRENCE, Brian L
(54) PNEUMATIC COMPRESSION BANDAGE	VAN DER KLUGT, Walter Pieter Hendrik Laurentius	HEIL, Thomas F
(73) MediNice Spolka Akcyjna	(51) A61F 13/511	EMMONS, Kirsten M
(72) STEC, Sebastian	A61F 13/513	(31) 201762567995 P
CHODHARY, Sanjeev	B32B 5/02	(32) 04.10.2017
KWIETNIAK, Karol	B32B 5/06	(33) United States of America
(51) A61F 13/472	B32B 5/26	(51) A61G 7/05
A61F 13/535	B32B 7/02	A61G 7/015
A61F 13/537	D04H 1/54	A61G 7/018
A61F 13/15	D04H 3/14	(11) EP3744299
(11) EP3890670	(11) EP3755293	(21) EP20177420.5
(21) EP18819059.9	(21) EP19707997.3	(47) 26.07.2023
(47) 26.07.2023	(47) 26.07.2023	(22) 29.05.2020
(87) EP2018084022	(87) US2019017967	(54) PATIENT SUPPORT INTERFACE DEVICE
11.06.2020	29.08.2019	(73) Hill-Rom Services, Inc.
(22) 07.12.2018	(22) 14.02.2019	(72) WIGGERMANN, Neal
(54) INCONTINENCE PAD WITH VARYING THICKNESS PROFILE	(54) SUBSTRATES AND LAMINATES FOR ABSORBENT ARTICLES	TENG, Xuan
(73) Essity Hygiene and Health Aktiebolag	(73) The Procter & Gamble Company	(31) 201962854665 P
(72) KALENTUN, Pia	(72) ARORA, Kelyn A.	(32) 30.05.2019
KRISTENSSON, Marie	HILL, Donna R.	(33) United States of America
(51) A61F 13/475	HAMMONS, John L.	(51) A61G 13/10
A61F 13/532	(31) 201815903094	A61G 7/05
A61F 13/537	(32) 23.02.2018	G01G 19/52
(11) EP4014937	(33) United States of America	A61G 13/02
(21) EP21210468.1	(51) A61G 3/08	(11) EP3586807
(47) 26.07.2023	(11) EP3915534	(21) EP17897961.3
(22) 25.11.2021	(21) EP20177501.2	(47) 26.07.2023
(54) ABSORBENT ARTICLE WITH IMPROVED BOTTOM DISTRIBUTION ASSEMBLY	(47) 26.07.2023	(87) JP2017007334
(73) Drylock Technologies NV	(22) 29.05.2020	30.08.2018
(72) VAN MALDEREN, Bart	(54) STRETCHER PLATFORM FOR SUPPORTING A STRETCHER, IN PARTICULAR IN A VEHICLE	(22) 27.02.2017
DERYCKE, Tom	(73) Ambulanz Mobile GmbH & Co. KG	(54) MEDICAL DEVICE
SMET, Steven	(72) Schwarz, Hans-Jürgen	(73) MIZUHO Corporation
VAN INGELGEM, Werner	(51) A61G 5/02	(72) OBI, Takuya
(31) 2027163	A61G 5/04	NAKAKUKI, Tomoya
(32) 18.12.2020	(11) EP3970677	INOUE, Akihisa
(33) Netherlands	(21) EP21205601.4	(51) A61H 31/00
(51) A61F 13/476	(47) 26.07.2023	(11) EP3758665
A61F 13/551	(22) 23.02.2016	(21) EP19761531.3
A61F 13/56		(47) 26.07.2023
A61F 13/15		(87) US2019019534
(11) EP3600194		06.09.2019
(21) EP18725943.7		(22) 26.02.2019
(47) 26.07.2023		(54) MECHANICAL CARDIO PULMONARY RESUSCITATION MACHINE
(87) US2018025125		(73) STRYKER CORPORATION
04.10.2018		(72) HÄRDIG, Bjarne Madsen

LAGERSTRÖM, Jonas LINDROTH, Sara NILSSON, Anders VON SCHENCK, Erik FALK, Thomas (31) 201862636772 P (32) 28.02.2018 (33) United States of America	(54) A DEVICE FOR EQUALIZING THE PRESSURE INSIDE A BABY BOTTLE (73) Artsana S.p.A. (72) GATTI, Francesco MARTIGNONI, Sara (31) 201900006869 (32) 15.05.2019 (33) Italy	(54) DENTAL COMPOSITION (73) Vericom Co. Ltd. (72) KIM, Yun-Ki KANG, Jong-Ho OH, Myung-Hwan (31) 20170028689 (32) 07.03.2017 (33) Korea (Republic)
(51) A61H 37/00 (11) EP3741348 (21) EP20170765.0 (47) 26.07.2023 (22) 22.04.2020 (54) FACE REST COVER WITH A SLIT (73) Werner, Woldemar Maier, Maren-Theresa (72) Werner, Woldemar Maier, Maren-Theresa (31) 102019113544 (32) 21.05.2019 (33) Germany	(51) A61J 11/02 A61J 11/04 (11) EP3968936 (21) EP20731553.2 (47) 26.07.2023 (87) IB2020054434 19.11.2020 (22) 11.05.2020 (54) NUT FOR AFFIXING A NIPPLE TO A BABY BOTTLE (73) Artsana S.p.A. (72) GATTI, Francesco (31) 201900006870 (32) 15.05.2019 (33) Italy	(51) A61K 6/90 (11) EP3058932 (21) EP16155216.1 (47) 26.07.2023 (22) 11.02.2016 (54) SILICONE ELASTOMER COMPOSITION FOR USE AS DENTAL IMPRESSION MATERIAL (73) Shin-Etsu Chemical Co., Ltd. (72) YAMAZAKI, Toshio SUGAHARA, Hideki (31) 2015030613 (32) 19.02.2015 (33) Japan
(51) A61H 39/04 A61H 39/02 A61B 5/00 A61H 15/02 A61B 5/107 A61H 39/06 G16H 20/30 A61H 15/00 A61H 39/00 (11) EP3892252 (21) EP21176503.7 (47) 26.07.2023 (22) 21.09.2016 (54) A DRIVING MODULE FOR CONTROLLING A HUMAN BODY SCAN IN REAL TIME (73) Ceragem Co., Ltd. (72) PARK, Chang Su SONG, Han Rim PAEK, Keun Young HAN, Sang Cheol CHOI, Hui Won (31) 20150136424 (32) 25.09.2015 (33) Korea (Republic)	(51) A61K 6/40 A61K 6/30 A61C 13/00 A61K 6/887 (11) EP4035649 (21) EP22163124.5 (47) 26.07.2023 (22) 08.05.2018 (54) DENTAL ADHESIVE COMPOSITION (73) 3M Innovative Properties Company (72) Thalacker, Christoph Loll, Henry (31) 17170973 (32) 15.05.2017 (33) European Patent Office (EPO)	(51) A61K 8/06 A61Q 19/10 A61Q 5/02 A61K 8/44 A61K 8/46 (11) EP3664769 (21) EP18765485.0 (47) 26.07.2023 (87) FR2018052039 14.02.2019 (22) 09.08.2018 (54) HIGH OIL-CONTENT FOAMING EMULSION AND USES THEREOF, IN PARTICULAR FOR PERSONAL HYGIENE (73) Laboratoires De Biologie Vegetale Yves Rocher (72) BOUVET, Estelle LAURENT, Marie-Agnès (31) 1757660 (32) 11.08.2017 (33) France
(51) A61J 1/20 (11) EP3134056 (21) EP15721412.3 (47) 26.07.2023 (87) US2015026812 29.10.2015 (22) 21.04.2015 (54) SYSTEM FOR CLOSED TRANSFER OF FLUIDS (73) Becton Dickinson and Company Limited (72) SANDERS, Laurie ZACHEK, Matthew (31) 201461982072 P (32) 21.04.2014 (33) United States of America	(51) A61K 6/833 A61K 6/853 (11) EP3409261 (21) EP17743881.9 (47) 26.07.2023 (87) JP2017000092 03.08.2017 (22) 05.01.2017 (54) DENTAL INVESTMENT MATERIAL (73) GC Corporation (72) FUJIMOTO, Tatsuya HOSHINO, Tomohiro YOSHINAGA, Masatoshi MIYAKE, Takahiro MASHIO, Go MORI, Daizaburo YOKOHARA, Hayato (31) 2016012801 (32) 26.01.2016 (33) Japan	(51) A61K 8/31 A61K 8/34 A61K 8/41 A61K 8/49 A61K 8/891 A61K 8/892 A61Q 5/00 (11) EP4090308 (21) EP21701053.7 (47) 26.07.2023 (87) EP2021050417 22.07.2021 (22) 12.01.2021 (54) HAIR CARE COMPOSITION (73) Unilever IP Holdings B.V. (72) CAO, Qunhua QI, Lucheng (31) PCT/CN2020/072299 20157979 (32) 15.01.2020 18.02.2020 (33) World Intellectual Property Office (WIPO) European Patent Office (EPO)
(51) A61J 9/04 (11) EP3968935 (21) EP20731554.0 (47) 26.07.2023 (87) IB2020054437 19.11.2020 (22) 11.05.2020	(51) A61K 6/851 A61K 6/54 A61K 6/849 A61K 6/836 (11) EP3593785 (21) EP18763635.2 (47) 26.07.2023 (87) KR2018002598 13.09.2018 (22) 05.03.2018	(51) A61K 8/34

A61Q 1/02	(22) 05.12.2017	Korea (Republic)
A61K 8/02	(54) COSMETIC COMPOSITIONS	(51) A61K 9/00
(11) EP3570812	COMPRISING HYALURONIC ACID	A61K 9/70
(21) EP17816681.5	(73) ELC Management LLC	A61Q 3/00
(47) 26.07.2023	(72) WANG, Hua	A61K 8/58
(87) EP2017082156	BRATESCU, Daniela	A61K 8/60
26.07.2018	SMAIL, Mary Ann	A61Q 17/00
(22) 11.12.2017	SOJKA, Milan Franz	A61K 8/73
(54) COSMETIC PREPARATIONS	XU, Zhequan	A61K 8/81
CONTAINING SPHEREIC SILICONE	SHAH, Snehal	A61K 8/9789
MATERIALS COATED WITH TITANIUM	(31) 201662434717 P	A61K 31/7004
DIOXIDE AND IRON OXIDES AND	(32) 15.12.2016	A61K 31/715
MEDIUM-CHAINED ALIPHATIC DIOLES	(33) United States of America	A61K 31/728
(73) Beiersdorf AG	(51) A61K 8/88	A61K 33/00
(72) NISSEN, Bente	A61Q 5/06	A61K 36/22
RASCHKE, Thomas	A61K 8/81	A61P 31/10
CHANTY, Delphine	(11) EP3060309	(11) EP3863725
(31) 102017200921	(21) EP14793958.1	(21) EP20700649.5
(32) 20.01.2017	(47) 26.07.2023	(47) 26.07.2023
(33) Germany	(87) US2014061495	(87) EP2020050215
(51) A61K 8/49	30.04.2015	16.07.2020
A61K 8/46	(22) 21.10.2014	(22) 07.01.2020
A61K 8/73	(54) RINSE-OFF VOLUMIZING HAIR	(54) NAIL COMPOSITIONS HAVING
A61K 8/81	COMPOSITIONS CONTAINING	ANTIFUNGAL PROPERTIES
A61Q 5/02	STYLING POLYMERS AND	(73) Isdin, S. A.
A61Q 5/10	POLYCATIONIC POLYMERS	(72) GRANGER, Corinne Jeanne Rose
(11) EP3714871	(73) Kao USA, Inc.	TRULLAS CABANAS, Carlos Ramon
(21) EP18879282.4	(72) COX, Elisabeth	(31) 19382010
(47) 26.07.2023	SCHROTT, Adam	(32) 08.01.2019
(87) JP2018042678	(31) 201414518271	(33) European Patent Office (EPO)
23.05.2019	201361893412 P	(51) A61K 9/08
(22) 19.11.2018	(32) 20.10.2014	A61K 47/10
(54) HAIR COSMETIC	21.10.2013	A61K 47/14
(73) Kao Corporation	(33) United States of America	A61K 47/22
(72) FUJINAGA, Hiroki	United States of America	A61K 47/26
YOSHIDA, Hiroshi	(51) A61K 9/00	A61K 47/44
SAKAI, Yuta	A61K 9/70	(11) EP3582750
(31) 2017223221	A61K 47/38	(21) EP18706562.8
(32) 20.11.2017	A61K 47/32	(47) 26.07.2023
(33) Japan	A61K 33/40	(87) GB2018050404
(51) A61K 8/49	A61K 8/9789	23.08.2018
A61Q 5/04	A61K 8/9794	(22) 15.02.2018
A61Q 5/10	(11) EP3360533	(54) ORAL CANNABINOID FORMULATIONS
A61K 8/67	(21) EP16853815.5	(73) GW Research Limited
A61Q 5/02	(47) 26.07.2023	(72) WRIGHT, Stephen
A61Q 5/12	(87) KR2016009666	WILKHU, Jitinder
A45D 7/06	13.04.2017	(31) 201702613
(11) EP3714866	(22) 30.08.2016	(32) 17.02.2017
(21) EP18877676.9	(54) PATCH FOR TOOTH ATTACHMENT	(33) United Kingdom
(47) 26.07.2023	ABLE TO BE REMOVED BY TOOTH	(51) A61K 9/10
(87) JP2018042711	BRUSHING	A61K 45/06
23.05.2019	(73) LG Household & Health Care Ltd.	A61K 47/10
(22) 19.11.2018	(72) AHN, Jae-Hyun	A61K 47/38
(54) HAIR TREATMENT METHOD	OH, Kwang-Ho	A61K 31/496
(73) Kao Corporation	LEE, In-Ho	A61K 31/573
(72) NAGAYAMA, Ayami	KIM, Jong-Hoon	(11) EP3322482
(31) 2017223222	SHIM, Woo-Sun	(21) EP16824841.7
(32) 20.11.2017	(31) 20150157626	(47) 26.07.2023
(33) Japan	20150150249	(87) US2016033110
(51) A61K 8/72	20150146678	19.01.2017
A61K 8/73	20150140104	(22) 18.05.2016
A61K 8/02	(32) 10.11.2015	(54) TOPICAL CIPROFLOXACIN
A61Q 19/00	28.10.2015	COMPOSITIONS
(11) EP3554470	21.10.2015	(73) TAP Pharmaceuticals AG
(21) EP17881085.9	06.10.2015	(72) PARIKH, Nilesh
(47) 26.07.2023	(33) Korea (Republic)	HITE, William
(87) US2017064757	Korea (Republic)	(31) 201514799270
21.06.2018	Korea (Republic)	(32) 14.07.2015

(33) United States of America	PHOSPHATIDYLGLYCEROL	28.09.2017
(51) A61K 9/127	DERIVATIVES AND THIXOTROPIC	(22) 16.03.2017
(11) EP3520780	EXCIPIENTS FOR TREATING CARDIAC	(54) PATCH PREPARATION HAVING
(21) EP19161397.5	CHANNELOPATHIES CAUSED BY	MISUSE PREVENTION
(47) 26.07.2023	PHARMACOLOGICAL AGENTS	CHARACTERISTICS
(22) 12.04.2013	(73) Signpath Pharma, Inc.	(73) MEDRx Co., Ltd.
(54) VEHICLES FOR CONTROLLED	(72) MAJEED, Muhammed	(72) HAMAMOTO, Hidetoshi
DELIVERY OF DIFFERENT	SHOPP, George, M.	YAMANAKA, Katsuhiro
PHARMACEUTICAL AGENTS	HELSON, Lawrence	TATSUMI, Noboru
(73) Yale University	BOUCHARD, Annie	MIWA, Yasushi
(72) Fahmy, Tarek M	(31) 201715788683	(31) 2016060817
Park, Jason	(32) 19.10.2017	(32) 24.03.2016
Flavell, Richard A	(33) United States of America	(33) Japan
Siefert, Alyssa	(51) A61K 9/127	(51) A61K 9/70
Wrzesinski, Stephen H	A61M 25/00	A61K 47/34
Stern, Eric	A61P 35/00	A61K 47/02
(31) 201261747614 P	A61K 31/337	(11) EP3145504
201261747624 P	A61K 33/24	(21) EP15726887.1
201261623486 P	(11) EP3538074	(47) 26.07.2023
(32) 31.12.2012	(21) EP17869130.9	(87) EP2015061112
31.12.2012	(47) 26.07.2023	26.11.2015
12.04.2012	(87) US2017061047	(22) 20.05.2015
(33) United States of America	17.05.2018	(54) TRANSDERMAL DELIVERY SYSTEM
United States of America	(22) 10.11.2017	INCLUDING AN INTERFACE
United States of America	(54) METHODS OF TREATING UPPER	MEDIATOR
(51) A61K 9/127	TRACT UROTHELIAL CARCINOMAS	(73) LTS Lohmann Therapie-Systeme AG
A61K 9/00	(73) Tesorx Pharma, LLC	(72) EMGENBROICH, Marco
(11) EP2776013	Western University Of Health Sciences	KASSNER, Kristina
(21) EP12847165.3	(72) OEFELEIN, Michael, G.	LEONHARD, Johannes Josef
(47) 26.07.2023	BETAGERI, Guru, V.	LAPPERT, Aurélie
(87) US2012064087	VENKATESAN, Natarajan	(31) 14169031
16.05.2013	(31) 201662421055 P	(32) 20.05.2014
(22) 08.11.2012	(32) 11.11.2016	(33) European Patent Office (EPO)
(54) METHODS AND COMPOSITIONS FOR	(33) United States of America	(51) A61K 31/00
X-RAY INDUCED RELEASE FROM PH	(51) A61K 9/19	A61K 35/76
SENSITIVE LIPOSOMES	A61M 37/00	(11) EP3402468
(73) The Board of Trustees of the University	A61K 9/00	(21) EP17701004.8
of Arkansas	A61K 31/4174	(47) 26.07.2023
(72) SALAMO, Greg	A61K 31/675	(87) GB2017050051
MAZUR, Yuriy	A61K 47/10	20.07.2017
BORRELLI, Michael, J.	A61K 47/12	(22) 11.01.2017
FOLOGEA, Daniel	A61K 47/18	(54) INHIBITORS OF PI3K P-DELTA 110 FOR
HENRY, Ralph	A61K 47/36	USE IN DELIVERY OF VIRUSES IN THE
(31) 201161556936 P	A61K 38/00	TREATMENT OF CANCER
(32) 08.11.2011	(11) EP3586905	(73) Queen Mary University of London
(33) United States of America	(21) EP18756585.8	(72) LEMOINE, Nicholas R
(51) A61K 9/127	(47) 26.07.2023	WANG, Yaohe
A61K 9/00	(87) JP2018005985	FERGUSON, Mark
A61K 31/506	30.08.2018	(31) 201662277002 P
A61K 31/683	(22) 20.02.2018	(32) 11.01.2016
A61K 31/685	(54) METHOD FOR PRODUCING	(33) United States of America
A61K 31/445	MICRONEEDLE DEVICE	(51) A61K 31/05
A61K 31/12	(73) Hisamitsu Pharmaceutical Co., Inc.	A61K 31/045
A61K 31/4545	(72) MATSUDO Toshiyuki	A61K 31/15
A61P 9/00	KOBAYASHI Toru	C07C 245/00
A61P 9/02	TOKUMOTO Seiji	C07C 245/02
A61P 9/04	KUWAHARA Tetsuji	C07C 245/04
A61P 9/06	NISHIMURA Shinpei	A61K 31/426
A61P 35/00	(31) 2017033782	A61K 31/44
A61P 37/08	(32) 24.02.2017	A61K 31/4402
(11) EP3697386	(33) Japan	C07D 277/50
(21) EP18868801.4	(51) A61K 9/70	A61P 35/00
(47) 26.07.2023	A61K 31/485	(11) EP3347001
(87) US2018056721	A61P 25/04	(21) EP16845184.7
25.04.2019	(11) EP3434267	(47) 26.07.2023
(22) 19.10.2018	(21) EP17770126.5	(87) US2016051098
(54) LIQUID COMPOSITIONS FOR	(47) 26.07.2023	16.03.2017
PERORAL USE COMPRISING	(87) JP2017010779	(22) 09.09.2016

(54) AZOPHENOLS AS ERG ONCOGENE INHIBITORS	(47) 26.07.2023 (87) JP2018014999 25.10.2018	(73) Boon, Wah Chin (72) CHEUNG, Steve BOON, Wah Chin
(73) The Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc.	(22) 10.04.2018	(31) 2015905047
(72) SRIVASTAVA, Shiv DOBI, Albert L. DALGARD, Clifton	(54) OLANEXIDINE AS ANTI-INFLAMMATORY AGENT	(32) 04.12.2015 (33) Australia
(31) 201562216839 P	(73) Otsuka Pharmaceutical Factory, Inc.	(51) A61K 31/202
(32) 10.09.2015	(72) HAGI, Akifumi Nii, Takuya	A61K 47/54 A61K 47/69 A61P 9/00
(33) United States of America	TSUBOTANI, Yoshie	(11) EP3856170 (21) EP19791378.3 (47) 26.07.2023
(51) A61K 31/137	(31) 2017082793	(87) IT2019050208 02.04.2020
A61K 45/06	(32) 19.04.2017	(22) 24.09.2019
A61K 9/20	(33) Japan	(54) TREATMENT AND PROPHYLAXIS OF CARDIOVASCULAR DISORDERS WITH ERUCIC ACID
A61P 31/04	(51) A61K 31/167	(73) Università Degli Studi Di Ferrara Università Degli Studi Di Verona
A61P 37/06	A61K 31/192	(72) MARTINELLI, Nicola OLIVIERI, Oliviero BARONI, Marcello BERNARDI, Francesco GUARINI, Patrizia GIRELLI, Domenico
A61P 11/16	A61K 45/06	(31) 201800008940
A61P 37/00	A61P 25/04	(32) 26.09.2018
A61P 35/00	A61P 43/00	(33) Italy
A61P 31/00	A61P 29/00	(51) A61K 31/352
(11) EP3678648	(11) EP3292866	A61K 9/68
(21) EP18779156.1	(21) EP17193232.0	A61K 31/485
(47) 26.07.2023	(47) 26.07.2023	A61K 31/05
(87) US2018050223	(22) 17.10.2007	A61K 45/06
14.03.2019	(54) ACETAMINOPHEN / IBUPROFEN COMBINATIONS	A61P 25/36
(22) 10.09.2018	(73) Johnson & Johnson Consumer Inc.	(11) EP3528804
(54) METHODS OF USING DIPIVEFRIN	(72) CUMMINS, Peter	(21) EP17863114.9
(73) INSIGNIS THERAPEUTICS, INC.	SWANN, Jim	(47) 26.07.2023
(72) ZHANG, Mingbao	(31) 853509 P	(87) US2017057229 26.04.2018
(31) 201762555854 P	(32) 20.10.2006	(22) 18.10.2017
(32) 08.09.2017	(33) United States of America	(54) CHEWING GUM COMPOSITION COMPRISING CANNABINOIDS AND OPIOID AGONISTS AND/OR ANTAGONISTS
(33) United States of America	(51) A61K 31/196	(73) APIRX Pharmaceutical USA, LLC
(51) A61K 31/137	A61K 31/341	(72) ANASTASSOV, George CHANGOER, Lekhrum
A61P 43/00	A61K 31/381	(31) 201662410469 P
A61P 3/00	A61K 31/42	(32) 20.10.2016
A61P 25/00	A61K 31/44	(33) United States of America
(11) EP3923921	A61K 31/4704	(51) A61K 31/416
(21) EP20717996.1	A61P 27/02	A61K 31/555
(47) 26.07.2023	A61K 31/4402	A61K 33/24
(87) US2020018435	(11) EP3139914	C07F 15/00
20.08.2020	(21) EP15720340.7	A61P 35/02
(22) 14.02.2020	(47) 26.07.2023	A61K 9/19
(54) COMPOSITIONS FOR TREATING LYSOSOMAL STORAGE DISORDERS: AMBROXOL AS TREATMENT AGENT FOR MUCOPOLYSACCHARIDOSES III (SANFILIPPO SYNDROME)	(87) EP2015060166 12.11.2015	A61K 47/12 A61K 47/26 A61K 9/00 A61K 33/243
(73) Rare Cures Corporation Lysosomal and Rare Disorders Research and Treatment Center, Inc.	(54) COMPOUNDS FOR TREATING OPHTHALMIC DISEASES AND DISORDERS	(11) EP3618827 (21) EP18794220.6
(72) IVANOVA, Margarita, M. GOKER-ALPAN, Ozlem	(73) Kiara Pharmaceuticals GmbH	(47) 26.07.2023
(31) 201962806437 P	(72) OBERMAYR, Franz SPERL, Stefan	(87) IB2016001853 08.06.2017
(32) 15.02.2019	(31) 14170616 14167490	(22) 02.12.2016
(33) United States of America	(32) 30.05.2014 08.05.2014	(54) METHODS OF TREATING OR ALLEVIATING MENTAL DISORDERS AND ASSOCIATED SYMPTOMS
(51) A61K 31/155	(33) European Patent Office (EPO) European Patent Office (EPO)	(87) US2018031436 08.11.2018
A61K 47/10	(51) A61K 31/201	(22) 07.05.2018
A61P 1/02	A61P 25/22	
A61P 11/00	(11) EP3423049	
A61P 29/00	(21) EP16870056.5	
A61P 43/00	(47) 26.07.2023	
A61K 8/43	(87) IB2016001853 08.06.2017	
A61K 9/00	(22) 02.12.2016	
A61K 9/10	(54) METHODS OF TREATING OR ALLEVIATING MENTAL DISORDERS AND ASSOCIATED SYMPTOMS	
A61K 9/50		
A61P 39/00		
A61Q 11/00		
(11) EP3628314		
(21) EP18787649.5		

(54) MANUFACTURE OF TRANS- [TETRACHLOROBIS(1H- INDAZOLE)RUTHENATE (III)]AND COMPOSITIONS THEREOF	VICARIO DE LA TORRE, Marta SANZ MENÉNDEZ, Nuria VERGES MILANO, Josep	A61P 1/02 A61P 25/02 A61Q 19/08
(73) Bold Therapeutics Inc.	(31) 18382851	(11) EP3854406
(72) SILL, Kevin CARIE, Adam VOJKOVSKY, Tomas	(32) 26.11.2018 (33) European Patent Office (EPO) (51) A61K 31/472	(21) EP21162182.6 (47) 26.07.2023 (22) 11.03.2011
(31) 201762501984 P	A61K 31/4725	(54) TUBE FOR THE PREPARATION OF WOUND HEALANT COMPOSITION
(32) 05.05.2017	A61P 9/00	(73) Regen Lab SA
(33) United States of America	(11) EP3468557	(72) TURZI, Antoine
(51) A61K 31/444	(21) EP17732243.5	(31) 201004072
A61K 45/06	(47) 26.07.2023	(32) 11.03.2010
A61K 9/00	(87) JP2017021569	(33) United Kingdom
A61P 35/00	21.12.2017	(51) A61K 35/15
A61K 31/365	(22) 12.06.2017	C12N 5/0786
A61K 31/404	(54) COMPOSITIONS FOR TREATING OR PREVENTING VASOMOTOR SYMPTOMS	A61K 39/00
A61K 31/437	(73) Mitsubishi Tanabe Pharma Corporation	(11) EP3999080
A61K 31/44	(72) PALUMBO, Joseph M.	(21) EP20740038.3
A61K 31/4709	(31) 201662349179 P	(47) 26.07.2023
A61K 31/496	(32) 13.06.2016	(87) EP2020070379
A61K 31/497	(33) United States of America	28.01.2021
A61K 31/5025	(51) A61K 31/497	(22) 17.07.2020
A61K 31/53	A61K 9/00	(54) P21 EXPRESSING MONOCYTES FOR CANCER CELL THERAPY
A61K 31/5377	A61P 11/00	(73) Institut Gustave-Roussy
A61K 31/553	(11) EP3054937	(72) PERFETTINI, Jean-Luc
(11) EP3419594	(21) EP14852309.5	ALLOUCH, Awatef
(21) EP16819389.4	(47) 26.07.2023	DEUTSCH, Eric
(47) 26.07.2023	(87) US2014060039	(31) 19305963
(87) US2016064845	16.04.2015	(32) 19.07.2019
31.08.2017	(22) 10.10.2014	(33) European Patent Office (EPO)
(22) 02.12.2016	(54) SPRAY DRY FORMULATIONS	(51) A61K 35/32
(54) IVOSIDENIB FOR USE IN THE TREATMENT OF RELAPSED/ REFRACTORY AML	(73) Pulmokine, Inc.	A61L 27/36
(73) Celgene Corporation	Gilead Sciences, Inc.	A61L 27/38
Les Laboratoires Servier	(72) ZISMAN, Lawrence, S.	A61B 17/16
(72) AMATANGELO, Michael	(31) 201361889887 P	A61J 1/14
WU, Bin	(32) 11.10.2013	A61J 1/20
CHOE, Sung, Eun	(33) United States of America	C12M 1/26
THAKURTA, Anjan	(51) A61K 33/30	C12M 1/33
HU, Xiaolan	A61K 33/32	A61B 17/88
(31) 201662300673 P	A61K 33/34	A61M 1/00
(32) 26.02.2016	A61K 33/04	(11) EP3294306
(33) United States of America	A61K 33/24	(21) EP16793328.2
(51) A61K 31/47	A23K 20/174	(47) 26.07.2023
A61K 9/00	A23K 20/20	(87) US2016031498
A61K 9/20	A23K 50/10	17.11.2016
A61K 47/10	A61K 9/00	(22) 09.05.2016
A61K 47/12	A61K 31/714	(54) BONE FRAGMENT AND TISSUE PROCESSING SYSTEM
A61K 47/14	A61K 33/18	(73) ForCyte Medical, LLC
A61K 47/26	(11) EP3915569	Cleveland Clinic Foundation
A61K 47/38	(21) EP21178709.8	(72) ASSELL, Robert
A61P 19/02	(47) 26.07.2023	MUSCHLER, George
(11) EP3886857	(22) 14.05.2012	FREEMAN, Andy
(21) EP19805716.8	(54) METHOD FOR PREPARING A TRACE ELEMENT SOLUTION	(31) 201562193451 P
(47) 26.07.2023	(73) Warburton Technology Limited	201562158574 P
(87) EP2019082425	(72) SMITH, William, Alfred	(32) 16.07.2015
04.06.2020	(51) A61K 35/14	08.05.2015
(22) 25.11.2019	A61K 35/15	(33) United States of America
(54) MONTELUKAST FOR THE TREATMENT OF EROSIVE HAND OSTEOARTHRITIS	A61K 35/16	United States of America
(73) Farmalider, S.A.	A61K 38/48	(51) A61K 38/10
(72) MONFORT FAURE, Jordi	A61K 8/98	A61K 39/395
RAMENTOL MASSANA, Jordi	A61K 31/728	A61K 48/00
GARCÍA ALONSO, Fernando	A61K 38/36	A61P 35/00
SÁNCHEZ GARCÍA, José Ángel	A61L 26/00	(11) EP3335722
	A61K 35/19	(21) EP16842277.2
	A61M 1/02	(47) 26.07.2023

(87) KR2016009714 09.03.2017	30.12.2015	(72) WILSON, Nicholas, Stuart CHAND, Dhan, Sidhartha UNDERWOOD, Dennis, John MORIN, Benjamin, Maxime
(22) 31.08.2016	(22) 15.06.2015	(31) 201762500345 P
(54) COMPOSITION FOR INTRACELLULAR DELIVERY CONTAINING ADENOVIRUS PROTEIN VI-DERIVED PEPTIDE AND ANTICANCER PHARMACEUTICAL COMPOSITION CONTAINING SAME	(54) PROTEIN FORMULATIONS (73) Amgen Inc. (72) PARK, Sungae MCAULEY, Arnold J.	(32) 201762492829 P
(73) Genemedicine Co., Ltd.	(31) 201462017560 P	(32) 02.05.2017
(72) YUN, Chae Ok	(32) 26.06.2014	01.05.2017
(31) 20150122756	(33) United States of America	(33) United States of America
(32) 31.08.2015	(51) A61K 39/00	United States of America
(33) Korea (Republic)	A61K 35/17	(51) A61K 45/06
(51) A61K 38/17	C07K 14/725	A61K 9/28
A61K 9/00	(11) EP3294325	A61K 9/48
A61K 47/20	(21) EP16724861.6	A61K 36/287
A61K 47/22	(47) 26.07.2023	A61K 36/45
A61K 47/10	(87) EP2016060332	A61K 36/63
A61P 17/14	17.11.2016	A61K 36/67
(11) EP3578194	(22) 09.05.2016	A23L 33/105
(21) EP17894684.4	(54) ENHANCING THE EFFECT OF CAR- ENGINEERED T CELLS BY MEANS OF	(11) EP3982924
(47) 26.07.2023	NUCLEIC ACID VACCINATION	(21) EP20734655.2
(87) KR2017013759	(73) Biontech Cell&Gene Therapies GmbH	(47) 26.07.2023
09.08.2018	TRON - Translationale Onkologie an der Universitätsmedizin der	(87) EP2020066164
(22) 29.11.2017	Johannes Gutenberg- Universität Mainz	17.12.2020
(54) INJECTABLE COMPOSITION FOR PREVENTING HAIR LOSS OR STIMULATING HAIR GROWTH	gemeinnützige GmbH	(22) 11.06.2020
(73) Keramedix Inc.	(72) SAHIN, Ugur	(54) PLANT EXTRACT MIXTURE FOR USE IN THE PREVENTION AND/ OR TREATMENT OF CHRONIC INFLAMMATORY BOWEL DISEASES
(72) VAN, Se Young	MROZ, Karolina Anna	(73) Valbiotis
HWANG, Yu-Shik	REINHARD, Katharina	(72) SIRVENT, Pascal
KIM, So Yeon	HOBHOM, Kathleen	PELTIER, Sébastien
KWON, Il-Keun	SIMON, Petra	OTERO, Yolanda
(31) 20170142726	(31) PCT/EP2015/060356	(31) 1906165
20170014047	(32) 11.05.2015	(32) 11.06.2019
(32) 30.10.2017	(33) World Intellectual Property Office (WIPO)	(33) France
31.01.2017	(51) A61K 39/00	(51) A61K 47/10
(33) Korea (Republic)	C12N 5/07	A61K 48/00
Korea (Republic)	C12P 21/04	A61K 9/51
(51) A61K 38/17	C12P 21/08	A61K 47/59
C07K 14/47	C07K 16/00	A61K 47/69
A61P 35/00	C07K 16/46	A61K 9/127
(11) EP3737399	(11) EP3140392	(11) EP3784285
(21) EP19735723.9	(21) EP15789583.0	(21) EP19718760.2
(47) 26.07.2023	(47) 26.07.2023	(47) 26.07.2023
(87) US2019012148	(87) US2015029546	(87) EP2019060646
11.07.2019	12.11.2015	31.10.2019
(22) 03.01.2019	(22) 06.05.2015	(22) 25.04.2019
(54) ATF5 PEPTIDE VARIANTS AND USES THEREOF	(54) PRODUCTION OF HETEROMULTIMERIC PROTEINS USING MAMMALIAN CELLS	(54) CRYOPROTECTIVE AGENTS FOR PARTICULATE FORMULATIONS
(73) Sapience Therapeutics, Inc.	(73) F. Hoffmann-La Roche AG	(73) Ethris GmbH
(72) ROTOLO, Jimmy, Andrew	(72) SCHEER, Justin	(72) DOHMEN, Christian
MERUTKA, Gene	NG, Domingos	BECK, Philipp
KAPPEL, Barry, Jay	SHATZ, Whitney	(31) 18189010
(31) 201862613083 P	(31) 201461989509 P	18169325
(32) 03.01.2018	(32) 06.05.2014	(32) 14.08.2018
(33) United States of America	(33) United States of America	25.04.2018
(51) A61K 38/18	(51) A61K 39/395	(33) European Patent Office (EPO)
A61K 47/20	C07K 16/28	European Patent Office (EPO)
A61P 7/06	A61K 39/00	(51) A61K 47/60
A61P 37/02	(11) EP3618863	A61K 47/64
A61K 47/26	(21) EP18724768.9	A61P 27/02
A61K 9/19	(47) 26.07.2023	A61P 43/00
A61K 47/18	(87) US2018030453	A61P 9/10
(11) EP3160511	08.11.2018	A61P 9/00
(21) EP15738505.5	(22) 01.05.2018	A61P 3/10
(47) 26.07.2023	(54) ANTI-TIGIT ANTIBODIES AND METHODS OF USE THEREOF	A61K 47/69
(87) US2015035884	(73) Agenus Inc.	(11) EP2906246
		(21) EP13774165.8

(47) 26.07.2023	(47) 26.07.2023	A61M 39/10
(87) EP2013070959	(87) US2018014709	A61M 5/32
17.04.2014	26.07.2018	(11) EP3538179
(22) 08.10.2013	(22) 22.01.2018	(21) EP17804761.9
(54) VEGF NEUTRALIZING PRODRUGS	(54) COMPOSITIONS FOR REDUCING	(47) 26.07.2023
COMPRISING RANIBIZUMAB FOR	SARCOLIPIN EXPRESSION AND	(87) US2017061095
THE TREATMENT OF OCULAR	PREVENTING AND TREATING	17.05.2018
CONDITIONS CHARACTERIZED BY	MUSCULAR DYSTROPHY AND	(22) 10.11.2017
OCULAR NEOVASCULARIZATION	CARDIOMYOPATHY AND METHODS	(54) DRUG DELIVERY SYSTEMS WITH
(73) Ascendis Pharma Ophthalmology	OF USE	SEALED AND STERILE FLUID PATHS
Division A/S	(73) Rutgers, The State University of New	AND METHODS OF PROVIDING THE
(72) RAU, Harald	Jersey	SAME
WEISBROD, Samuel	(72) BABU, Gopal J.	(73) Insulet Corporation
STARK, Sebastian	(31) 201762589273 P	(72) MCLAUGHLIN, Ian
BISEK, Nicola	201762575089 P	(31) 201662422291 P
LAUFER, Burkhardt	201762449371 P	201662421648 P
KNAPPE, Thomas	(32) 21.11.2017	201662420736 P
SPROGØE, Kennett	20.10.2017	(32) 15.11.2016
REIMANN, Romy	23.01.2017	14.11.2016
VOIGT, Tobias	(33) United States of America	11.11.2016
(31) 12188226	United States of America	(33) United States of America
(32) 11.10.2012	United States of America	United States of America
(33) European Patent Office (EPO)	United States of America	United States of America
(51) A61K 47/69	(51) A61K 49/00	(51) A61L 2/08
A61K 47/54	A61N 2/00	B65G 25/02
A61L 27/38	A61P 35/00	(11) EP3983022
A61L 27/52	C01G 49/06	(21) EP19730360.5
A61P 19/00	(11) EP3655042	(47) 26.07.2023
A61P 19/02	(21) EP18716084.1	(87) EP2019065720
(11) EP3067069	(47) 26.07.2023	17.12.2020
(21) EP16158291.1	(87) US2018015926	(22) 14.06.2019
(47) 26.07.2023	24.01.2019	(54) SYSTEM FOR STERILISING
(22) 11.11.2010	(22) 30.01.2018	STERILISATION UNITS AND METHOD
(54) HYDROGELS BASED ON POLYMERS	(54) IRON OXIDE NANOPARTICLES DOPED	FOR OPERATING SUCH A SYSTEM
OF DEXTRAN TYRAMINE AND	WITH ALKALI METALS OR ALKALI	(73) BBF Sterilisationservice GmbH
TYRAMINE CONJUGATES OF	EARTH METALS	Framatome GmbH
NATURAL POLYMERS	(73) Neo-Nanomedics, Inc.	(72) SIEGELIN, Steffen
(73) Hy2Care B.V.	(72) JANG, Jung Tak	BIEBER, Oswald
(72) Karperien, Hermanus Bernardus	BAE, Seong Tae	JANDL, Johannes
Johannes	(31) 20170092955	(51) A61L 2/22
Jin, Rong	(32) 21.07.2017	A61L 2/20
Moreira Teixeira, Liliana Sofia	(33) Korea (Republic)	(11) EP3952930
Feijen, Jan	(51) A61K 51/04	(21) EP20721305.9
Dijkstra, Pieter Jelle	A61K 49/12	(47) 26.07.2023
(31) 09175723	A61K 51/12	(87) IB2020053149
(32) 11.11.2009	A61K 49/10	15.10.2020
(33) European Patent Office (EPO)	A61K 49/18	(22) 02.04.2020
(51) A61K 48/00	(11) EP3973998	(54) VAPORIZER OF DECONTAMINATING
A61K 49/00	(21) EP21207036.1	AGENTS
A61P 25/00	(47) 26.07.2023	(73) Tema Sinergie S.P.A.
(11) EP3708680	(22) 07.03.2016	(72) PIANCASTELLI, Stefano
(21) EP20153196.9	(54) METHODS FOR CELL LABELING AND	(31) 201900005314
(47) 26.07.2023	MEDICAL IMAGING	(32) 08.04.2019
(22) 15.04.2016	(73) Mayo Foundation for Medical Education	(33) Italy
(54) COMPOSITIONS AND METHODS FOR	and Research	(51) A61L 2/232
XI CHROMOSOME REACTIVATION	(72) DEGRADO, Timothy, R.	A61L 2/238
(73) The University of Massachusetts	PANDEY, Mukesh, K.	A61K 31/28
(72) Green, Michael, R.	BANSAL, Aditya	C01B 32/152
Bhatnagar, Sanchita	(31) 201562129406 P	C01B 32/156
(31) 201562148106 P	(32) 06.03.2015	B82Y 5/00
(32) 15.04.2015	(33) United States of America	C22C 26/00
(33) United States of America	(51) A61L 2/07	(11) EP3576798
(51) A61K 48/00	A61L 2/08	(21) EP18704843.4
C12N 15/11	A61L 2/20	(47) 26.07.2023
C12N 15/00	A61M 5/00	(87) US2018016598
C07H 21/04	A61M 5/24	09.08.2018
(11) EP3570896	C12Q 1/22	(22) 02.02.2018
(21) EP18741176.4	A61L 2/00	
	A61M 5/31	

(54) METHOD FOR THE MANUFACTURE OF FUNCTIONALIZED FULLERENE METAL NANOCOMPOSITES	(31) 201708733 (32) 21.12.2017 (33) South Africa	(11) EP3638334 (21) EP18745660.3 (47) 26.07.2023
(73) The Cleveland Clinic Foundation	(51) A61L 27/36	(87) GB2018051659
(72) KRISHNA, Vijay	(11) EP3854425	20.12.2018
(31) 201762453676 P	(21) EP19862226.8	(22) 15.06.2018
(32) 02.02.2017	(47) 26.07.2023	(54) BREAST PUMP SYSTEM
(33) United States of America	(87) CN2019105345	(73) Chiaro Technology Limited
(51) A61L 9/12	26.03.2020	(72) COGGINS, Jack
B60H 3/00	(22) 11.09.2019	PESTANA, Nestor
(11) EP3297688	(54) PRE-LOADABLE DRIED BIOLOGICAL HEART VALVE AND PREPARATION METHOD THEREOF	LEVY, Benjamin
(21) EP16724347.6	(73) Sichuan University	ROLLO, Adam
(47) 26.07.2023	Venus MedTech (HangZhou), Inc.	POOLE, Rebecca
(87) EP2016060847	(72) Li, Gaocan	CARR, Andrew
24.11.2016	YANG, Li	O'TOOLE, Jonathan
(22) 13.05.2016	WANG, Yunbing	ROSS, Clare
(54) DEVICE FOR RELEASING VOLATILE SUBSTANCES	YU, Jincheng	(31) 201809036
(73) Zobebe Holding SpA	LIM, Hou Sen	201709561
(72) GOBBER, Cedric	KUANG, Dajun	201709564
MASO SABATÉ, Jordi	LEI, Yang	201709566
LLORENTE ALONSO, Joaquín	(31) 201811096562	(32) 01.06.2018
GUIU PONT, Jordi	(32) 19.09.2018	15.06.2017
(31) 201530677	(33) China	15.06.2017
(32) 18.05.2015	(51) A61L 29/08	(33) United Kingdom
(33) Spain	A61L 31/10	United Kingdom
(51) A61L 15/22	A61L 27/34	United Kingdom
A61L 15/32	A61L 27/54	United Kingdom
A61L 15/42	A61L 29/16	(51) A61M 1/16
A61L 15/64	A61L 31/16	A61M 1/34
A61L 24/00	(11) EP3848065	A61M 1/36
A61L 24/04	(21) EP21158643.3	(11) EP3636295
A61L 24/10	(47) 26.07.2023	(21) EP18810635.5
(11) EP3996758	(22) 15.05.2018	(47) 26.07.2023
(21) EP20736383.9	(54) MEDICAL DEVICE WITH DRUG-ELUTING COATING AND INTERMEDIATE LAYER	(87) JP2018020762
(47) 26.07.2023	(73) C. R. Bard, Inc.	06.12.2018
(87) EP2020069442	(72) Schorn, Ian	(22) 30.05.2018
21.01.2021	Ryan, Kirsten	(54) BLOOD PURIFICATION APPARATUS
(22) 09.07.2020	Wang, Jeffrey	(73) Nikkiso Co., Ltd.
(54) HAEMOSTATIC POWDER	(31) 201762580676 P	(72) KATAYAMA, Yuki
(73) Cilag GmbH International	201762506575 P	TAKEUCHI, Satoshi
(72) OPSTEEN, Joost	(32) 02.11.2017	MAKI, Hideto
BENDER, Johannes Caspar Mathias	15.05.2017	(31) 2017109426
Elizabeth	(33) United States of America	(32) 01.06.2017
FÉLIX LANAO, Rosa Pilar	United States of America	(33) Japan
KEEREWEER, Abraham Reinier	(51) A61L 31/16	(51) A61M 1/16
(31) 19186028	A61L 15/46	A61M 1/36
(32) 12.07.2019	A61K 9/00	(11) EP3315149
(33) European Patent Office (EPO)	(11) EP3846869	(21) EP16814475.6
(51) A61L 27/18	(21) EP19774054.1	(47) 26.07.2023
A61L 27/22	(47) 26.07.2023	(87) JP2016068787
A61L 27/24	(87) EP2019073317	29.12.2016
A61L 27/26	12.03.2020	(22) 24.06.2016
A61L 27/56	(22) 02.09.2019	(54) BLOOD PURIFICATION APPARATUS AND BLOOD PURIFICATION SYSTEM
A61L 27/58	(54) FLAT PRODUCT FOR MICROBIOLOGICAL SANITATION OF THE UROGENITAL TRACT	(73) Nikkiso Company Limited
(11) EP3727485	(73) Tecuro Medical GmbH	(72) AOSHIMA, Masahiro
(21) EP18842658.9	(72) VON STETTEN, Otto	TAKEUCHI, Satoshi
(47) 26.07.2023	RIES, Gerd	KOGOSHI, Kentaro
(87) IB2018060345	HENGESBERGER, Corinna	(31) 2015126901
27.06.2019	(31) PCT/EP2018/073776	(32) 24.06.2015
(22) 19.12.2018	(32) 04.09.2018	(33) Japan
(54) PHARMACEUTICAL COMPOSITION	(33) World Intellectual Property Office (WIPO)	(51) A61M 1/18
(73) University of the Witwatersrand, Johannesburg	(51) A61M 1/06	A61M 1/16
(72) MODI, Girish		A61M 1/16
PILLAY, Viness		B01D 69/08
KUMAR, Pradeep		B29C 53/66
CHOONARA, Yahya Essop		B01D 63/02
		A61M 1/36

(11) EP3520838	(22) 25.08.2016	(11) EP3806930
(21) EP17856220.3	(54) FLOW SENSOR SYSTEM WITH CONNECTION ASSEMBLY	(21) EP19739390.3
(47) 26.07.2023	(73) Crisi Medical Systems, Inc.	(47) 26.07.2023
(87) JP2017034957	(72) BOCHENKO, Walter, John	(87) IB2019054805
05.04.2018	(31) 201562211287 P	26.12.2019
(22) 27.09.2017	(32) 28.08.2015	(22) 10.06.2019
(54) METHOD FOR PRODUCING HOLLOW FIBER FILM LAYER LAMINATE, AND HOLLOW FIBER FILM LAYER LAMINATE	(33) United States of America	(54) SAFETY QUICK-REFILL COMPACT PUMP FOR ADMINISTERING DRUGS
(73) Terumo Kabushiki Kaisha	(51) A61M 5/00	(73) CANE' S.P.A.
(72) HIRAGUCHI, Ryuji	A61M 39/16	(72) CANE', Claudio
GYOTEN, Akira	A61M 39/00	CANE', Mario
(31) 2016194542	A61M 39/10	CANE', Paolo
(32) 30.09.2016	(11) EP3806927	(31) 201800006427
(33) Japan	(21) EP19734207.4	(32) 18.06.2018
(51) A61M 1/28	(47) 26.07.2023	(33) Italy
A61M 39/10	(87) US2019036739	(51) A61M 5/145
(11) EP3648813	19.12.2019	A61M 5/20
(21) EP18735286.9	(22) 12.06.2019	A61M 5/32
(47) 26.07.2023	(54) SELF-CLEANING NEEDLELESS CONNECTOR	A61M 5/315
(87) EP2018067489	(73) Grove Group, LLC	A61M 5/142
10.01.2019	(72) GISH, Nathan	(11) EP3583966
(22) 28.06.2018	HUDSON, Ross	(21) EP19187890.9
(54) DEVICE FOR DETECTING THE STATE OF CONNECTION	LUTTRELL, Josh	(47) 26.07.2023
(73) Fresenius Medical Care Deutschland GmbH	(31) 201862684405 P	(22) 28.10.2016
(72) HEDMANN, Frank	(32) 13.06.2018	(54) SINGLE-USE AUTO-INJECTOR
SAAL, Stefan	(33) United States of America	(73) Amgen Inc.
HOCHREIN, Torsten	(51) A61M 5/14	(72) KNUDSEN, Hans Stenberg
(31) 102017114800	A61M 5/142	PLAMBECH, Christian
(32) 03.07.2017	A61B 5/00	ØHLENSCHLÆGER, Rasmus
(33) Germany	A61M 5/145	JØRGENSEN, Jørgen
(51) A61M 1/36	A61B 5/1473	(31) 15191929
G01L 9/00	A61M 5/00	(32) 28.10.2015
G01L 19/00	A61M 5/20	(33) European Patent Office (EPO)
G01L 27/00	A61M 5/158	(51) A61M 5/172
(11) EP3946510	A61M 5/172	A61M 5/145
(21) EP20714954.3	(11) EP3558421	A61M 5/142
(47) 26.07.2023	(21) EP17826095.6	(11) EP3337536
(87) EP2020057727	(47) 26.07.2023	(21) EP16754153.1
01.10.2020	(87) US2017066738	(47) 26.07.2023
(22) 20.03.2020	28.06.2018	(87) US2016047227
(54) METHOD AND DEVICE FOR MONITORING MEMBRANE COUPLING IN A PRESSURE MEASURING SYSTEM	(22) 15.12.2017	02.03.2017
(73) Fresenius Medical Care Deutschland GmbH	(54) MEDICATION FLUID INFUSION SET COMPONENT WITH INTEGRATED PHYSIOLOGICAL ANALYTE SENSOR, AND CORRESPONDING FLUID INFUSION DEVICE	(22) 16.08.2016
(72) KOPPERSCHMIDT, Pascal	(73) Medtronic MiniMed, Inc.	(54) INFUSION DEVICES AND RELATED PATIENT RATIO ADJUSTMENT METHODS
(31) 102019107604	(72) CHIU, Chia-Hung	(73) Medtronic MiniMed, Inc.
(32) 25.03.2019	GOTTLIEB, Rebecca K.	(72) ROY, Anirban
(33) Germany	WANG, Hsifu	(31) 201615096142
(51) A61M 5/00	VOSKANYAN, Gayane R.	201562208454 P
A61M 5/14	WARNOCK, Kenneth D.	(32) 11.04.2016
A61M 5/168	SCHULTZ, Peter	21.08.2015
A61M 5/172	JUAREZ MARTINEZ, Ricardo	(33) United States of America
A61M 39/10	(31) 201715842800	United States of America
G05D 7/00	201762503282 P	(51) A61M 5/20
G05D 7/06	201662437536 P	(11) EP3579901
G01F 1/66	(32) 14.12.2017	(21) EP18717985.8
G01F 1/667	08.05.2017	(47) 26.07.2023
G01F 11/02	21.12.2016	(87) IB2018000305
G01F 15/18	(33) United States of America	20.09.2018
(11) EP3804782	United States of America	(22) 08.03.2018
(21) EP20211059.9	United States of America	(54) APPARATUS FOR A SINGLE SENSOR ACTION PLATE
(47) 26.07.2023	United States of America	(73) Desvac
	(51) A61M 5/142	(72) GAUTREAU, Jeremy
	A61M 5/145	VEYRENT, Stephane
	A61M 5/172	(31) 201715458508
		(32) 14.03.2017
		(33) United States of America

(51) A61M 5/24	(32) 11.12.2017	(11) EP3551265
A61M 5/20	13.12.2016	(21) EP17877853.6
(11) EP3302649	(33) United States of America	(47) 26.07.2023
(21) EP16726347.4	United States of America	(87) AU2017051340
(47) 26.07.2023	<hr/>	14.06.2018
(87) EP2016062504	(51) A61M 5/32	(22) 06.12.2017
08.12.2016	A61M 25/06	(54) INHALER HOUSING
(22) 02.06.2016	A61M 5/158	(73) Rainbow, Heath
(54) DRUG DELIVERY DEVICE WITH	(11) EP3554594	(72) Rainbow, Heath
AUDIBLE INDICATOR SPRING	(21) EP17822933.2	(31) 2016905026
(73) Sanofi-Aventis Deutschland GmbH	(47) 26.07.2023	(32) 06.12.2016
(72) KEMP, Thomas Mark	(87) US2017065717	(33) Australia
MOSEBACH, Carsten	21.06.2018	<hr/>
(31) 15170583	(22) 12.12.2017	(51) A61M 15/06
(32) 03.06.2015	(54) SAFETY NEEDLE DEVICES	G01N 21/3504
(33) European Patent Office (EPO)	(73) Becton, Dickinson and Company	A24F 40/51
<hr/>	(72) SANDERS, Laurie	G01J 1/08
(51) A61M 5/315	NICHOLS, Eli B.	G01J 3/10
A61M 5/31	SMITH, Peter	G01J 3/42
(11) EP3565619	BROWKA, Edward P.	G01N 15/06
(21) EP18701619.1	(31) 201715837810	A24F 47/00
(47) 26.07.2023	201715837756	B05B 12/08
(87) US2018012284	201715837011	A24F 40/10
12.07.2018	201715837008	A24F 40/70
(22) 04.01.2018	201715837748	A61M 11/04
(54) SYRINGE PLUNGER WITH DYNAMIC	201762533786 P	G01N 15/00
SEAL	201762479507 P	(11) EP3509446
(73) Bayer Healthcare LLC	201662433350 P	(21) EP17746132.4
(72) MCDERMOTT, Michael	201662433294 P	(47) 26.07.2023
SWANTNER, Michael	(32) 11.12.2017	(87) EP2017069565
(31) 201762443302 P	11.12.2017	15.03.2018
(32) 06.01.2017	11.12.2017	(22) 02.08.2017
(33) United States of America	11.12.2017	(54) AEROSOL-GENERATING DEVICE
<hr/>	11.12.2017	WITH SPECTROMETER FOR
(51) A61M 5/32	11.12.2017	AEROSOL ANALYSIS
(11) EP3074065	18.07.2017	(73) Philip Morris Products S.A.
(21) EP13898176.6	31.03.2017	(72) BESSANT, Michel
(47) 26.07.2023	13.12.2016	(31) 16188321
(87) US2013072218	13.12.2016	(32) 12.09.2016
04.06.2015	(33) United States of America	(33) European Patent Office (EPO)
(22) 27.11.2013	United States of America	<hr/>
(54) FRONTAL ATTACHMENT DEVICE	United States of America	(51) A61M 16/00
FOR SYRINGE WITH ROTATIONALLY	United States of America	(11) EP2892596
ACTIVATED RETRACTABLE NEEDLE	United States of America	(21) EP13835539.1
(73) Retractable Technologies, Inc.	United States of America	(47) 26.07.2023
Shaw, Thomas J.	United States of America	(87) NZ2013000155
(72) ZHU, Ni	United States of America	13.03.2014
SHAW, Thomas J.	United States of America	(22) 03.09.2013
SMALL, Mark	<hr/>	(54) VALSALVA MASK
(31) 201314091113	(51) A61M 11/00	(73) Fisher & Paykel Healthcare Limited
(32) 26.11.2013	B05B 17/06	(72) BORNHOLDT, Melissa Catherine
(33) United States of America	B05B 17/00	STEPHENSON, Matthew Roger
<hr/>	(11) EP2949357	(31) 201261696756 P
(51) A61M 5/32	(21) EP14743039.1	(32) 04.09.2012
A61M 25/06	(47) 26.07.2023	(33) United States of America
A61M 5/158	(87) JP2014051270	<hr/>
(11) EP3554592	31.07.2014	(51) A61M 16/00
(21) EP17822924.1	(22) 22.01.2014	A61B 5/087
(47) 26.07.2023	(54) MESH FOR NEBULIZER, AND	(11) EP3448482
(87) US2017065689	METHOD FOR MANUFACTURING	(21) EP17788926.8
21.06.2018	SAME	(47) 26.07.2023
(22) 12.12.2017	(73) Tanaka Kikinzoku Kogyo K.K.	(87) IB2017052457
(54) SAFETY NEEDLE DEVICE	(72) ARIMOTO, Tasuku	02.11.2017
(73) Becton, Dickinson and Company	SAKAI, Makoto	(22) 28.04.2017
(72) NICHOLS, Eli, B.	WATANABE, Shingo	(54) APPARATUS FOR OXYGENATION
BROWKA, Edward P.	UCHIUMI, Yuji	AND/OR CO2 REMOVAL
MARICI, Paul	SHINDO, Yoshio	(73) Fisher & Paykel Healthcare Limited
SMITH, Peter	(31) 2013011130	(72) HERMEZ, Laith Adeeab
SANDERS, Laurie	(32) 24.01.2013	PAYTON, Matthew Jon
(31) 201715837011	(33) Japan	BARNES, Thomas Heinrich
201662433350 P	<hr/>	MAXWELL, Penelope Jane
	(51) A61M 15/00	

<p>SPENCE, Callum James Thomas OLDFIELD, Samantha Dale (31) 201662406809 P 201662329474 P (32) 11.10.2016 29.04.2016 (33) United States of America United States of America</p> <hr/> <p>(51) A61M 16/04 (11) EP3650069 (21) EP18205318.1 (47) 26.07.2023 (22) 09.11.2018 (54) TRACHEOSTOMY VALVE (73) Fogless International AB (72) BLOMQUIST, Inge EKEBERG, Daniel</p> <hr/> <p>(51) A61M 16/06 (11) EP3838324 (21) EP21157285.4 (47) 26.07.2023 (22) 17.06.2015 (54) PATIENT INTERFACES (73) Fisher & Paykel Healthcare Limited (72) PATEL, Roheet THOMPSON, Mark Andrew SINTIVE, Bruno MASHAL, Fadi MIDDELKOOOP, Kirstin BEARNE, Peter OLSEN, Gregory, James BETTERIDGE, Max COX, Michael MCLAREN, Mark GALGALI, Amit (31) 201462013445 P (32) 17.06.2014 (33) United States of America</p> <hr/> <p>(51) A61M 16/06 A61M 16/08 A61M 16/16 A61M 16/00 A61M 16/04 A61M 16/10 (11) EP3970773 (21) EP21207527.9 (47) 26.07.2023 (22) 28.05.2004 (54) BREATHING ASSISTANCE APPARATUS (73) Fisher & Paykel Healthcare Limited (72) O'DONNELL, Kevin Peter VAN BEURDEN, Jason Peter WHITE, Craig Karl (31) 52636203 (32) 30.05.2003 (33) New Zealand</p> <hr/> <p>(51) A61M 16/12 A61M 16/10 C01B 21/20 C01B 21/24 (11) EP3871727 (21) EP19875050.7 (47) 26.07.2023 (87) JP2019037661 30.04.2020 (22) 25.09.2019</p>	<p>(54) NITRIC OXIDE ADMINISTRATION DEVICE (73) Teijin Pharma Limited (72) TAMIYA, Rei MOTOHARA, Shosaku MATSUI, Jun IIDA, Naoyuki (31) 2018201147 (32) 25.10.2018 (33) Japan</p> <hr/> <p>(51) A61M 25/00 (11) EP2908898 (21) EP13717994.1 (47) 26.07.2023 (87) US2013030898 24.04.2014 (22) 13.03.2013 (54) VAPOR HYDRATED MEDICAL DEVICE WITH LOW SURFACE ENERGY SLEEVE (73) Hollister Incorporated (72) ROSTAMI, Shamsedin (31) 201261715370 P (32) 18.10.2012 (33) United States of America</p> <hr/> <p>(51) A61M 25/00 A61M 1/36 (11) EP3541459 (21) EP17794995.5 (47) 26.07.2023 (87) EP2017079219 24.05.2018 (22) 14.11.2017 (54) CANNULA, ECMO SUPPORT SYSTEM (73) Assistance Publique Hôpitaux de Paris (72) MORDANT, Pierre (31) 1661037 (32) 15.11.2016 (33) France</p> <hr/> <p>(51) A61M 25/00 A61M 25/01 A61M 29/02 A61M 25/10 (11) EP3801726 (21) EP19737878.9 (47) 26.07.2023 (87) IB2019054237 12.12.2019 (22) 22.05.2019 (54) DILATION CATHETER WITH REMOVABLE BULB TIP (73) Acclarent, Inc. (72) HAMLEKHAN, Azhang THINNES, JR., John H. PALUSHI, Jetmir (31) 201816003178 (32) 08.06.2018 (33) United States of America</p> <hr/> <p>(51) A61M 25/00 A61M 25/06 A61M 25/02 (11) EP3368118 (21) EP16781984.6 (47) 26.07.2023 (87) US2016055863 04.05.2017 (22) 06.10.2016</p>	<p>(54) SOFT PUSH TABS FOR CATHETER ADAPTER (73) Becton, Dickinson and Company (72) MITCHELL, Nathan GARRISON, Michael PETERSON, Bart D. SONDEREGGER, Ralph L. BURKHOLZ, Jonathan Karl (31) 201615286159 201662296385 P 201662296383 P 201562247626 P 201562247624 P 201562247621 P 201562247607 P 201562247617 P 201562247599 P 201562247596 P</p> <hr/> <p>(32) 05.10.2016 17.02.2016 17.02.2016 28.10.2015 28.10.2015 28.10.2015 28.10.2015 28.10.2015 28.10.2015 28.10.2015 28.10.2015 (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</p> <hr/> <p>(51) A61M 25/00 B29C 65/16 B29C 65/00 B29L 31/00 (11) EP3620200 (21) EP19205810.5 (47) 26.07.2023 (22) 05.06.2015 (54) CATHETER (73) BIOTRONIK AG (72) Schäfer, Tobias Westhoff, Felix (31) 102014011948 (32) 14.08.2014 (33) Germany</p> <hr/> <p>(51) A61M 25/01 A61M 25/06 (11) EP3442641 (21) EP17718282.1 (47) 26.07.2023 (87) US2017026213 19.10.2017 (22) 05.04.2017 (54) GUIDE EXTENSION CATHETER WITH HELICALLY-SHAPED ENTRY PORT (73) Medtronic Vascular Inc. (72) CONNOLLY, Colm GRIFFIN, Patrick (31) 201662322309 P (32) 14.04.2016</p>
--	--	--

(33) United States of America	EL KATERJI, Ahmad	(22) 08.03.2018
(51) A61M 25/06	KELLER, Steven	(54) ARTIFICIAL RETINA SYSTEM FOR IMPROVING CONTRAST SENSITIVITY
(11) EP3746167	JOSEPHY, Noam	(73) Korea University Research and Business Foundation
(21) EP19704221.1	EDELMAN, Elazer R.	Gachon University of Industry-Academic Cooperation Foundation
(47) 26.07.2023	(31) 201962863136 P	(72) KIM, Seong-woo
(87) EP2019051751	201962863146 P	KIM, Jungsuk
08.08.2019	201862687133 P	(31) 20170037035
(22) 24.01.2019	(32) 18.06.2019	(32) 23.03.2017
(54) PUNCTURE SYSTEM	18.06.2019	(33) Korea (Republic)
(73) Ebnnet Medical GmbH	19.06.2018	<hr/>
(72) Ebnnet, Jens	(33) United States of America	(51) A61N 1/05
(31) 102018102390	United States of America	A61N 1/36
(32) 02.02.2018	United States of America	A61N 1/372
(33) Germany	<hr/>	(11) EP3890822
(51) A61M 27/00	(51) A61M 60/178	(21) EP20705827.2
(11) EP3023119	A61M 60/232	(47) 26.07.2023
(21) EP15003395.9	A61M 60/237	(87) US2020013346
(47) 26.07.2023	A61M 60/422	13.08.2020
(22) 10.09.2013	A61M 60/538	(22) 13.01.2020
(54) ADJUSTABLE HYDROCEPHALUS VALVE WITH SPRING	A61M 60/585	(54) SYSTEM FOR DELIVERING PRESCRIBED NEUROMODULATION DOSE
(73) Christoph Miethke GmbH & Co. KG	A61M 60/871	(73) Boston Scientific Neuromodulation Corporation
(72) Miethke, Christoph	(11) EP3397298	(72) MOFFITT, Michael A
(31) 102012017886	(21) EP16826638.5	HUERTAS FERNANDEZ, Ismael
(32) 11.09.2012	(47) 26.07.2023	(31) 202016738786
(33) Germany	(87) US2016068817	201916657560
(51) A61M 39/10	06.07.2017	201962916958 P
A61J 1/20	(22) 28.12.2016	201916460655
(11) EP3626302	(54) PUMP MOTOR CONTROL WITH ADAPTIVE STARTUP	201916460640
(21) EP19207595.0	(73) Heartware, Inc.	201962803330 P
(47) 26.07.2023	(72) RUDSER, John	(32) 09.01.2020
(22) 04.11.2014	(31) 201562271618 P	18.10.2019
(54) SYSTEM FOR CLOSED TRANSFER OF FLUIDS WITH A LOCKING MEMBER	(32) 28.12.2015	18.10.2019
(73) Becton Dickinson and Company Limited	(33) United States of America	02.07.2019
(72) YEV MENENKO, Yan	<hr/>	02.07.2019
SANDERS, Laurie	(51) A61N 1/00	08.02.2019
(31) 201361900674 P	A61N 1/05	(33) United States of America
(32) 06.11.2013	A61N 1/36	United States of America
(33) United States of America	A61N 1/372	United States of America
(51) A61M 60/13	A61N 1/375	United States of America
A61M 60/216	A61N 1/378	United States of America
A61M 60/411	H01Q 9/26	United States of America
A61M 60/515	(11) EP3347085	United States of America
A61M 60/523	(21) EP16845235.7	<hr/>
A61M 60/531	(47) 26.07.2023	(51) A61N 1/36
A61M 60/538	(87) US2016051177	(11) EP3793673
A61B 5/029	16.03.2017	(21) EP19733211.7
A61B 5/02	(22) 09.09.2016	(47) 26.07.2023
A61B 5/0215	(54) APPARATUS FOR PERIPHERAL OR SPINAL STIMULATION	(87) US2019032856
A61B 5/021	(73) Nalu Medical, Inc.	21.11.2019
A61B 5/00	(72) MAKOUS, James C.	(22) 17.05.2019
(11) EP3809959	SCHLEICHER, Brett Daneil	(54) SYSTEM FOR CONTROLLING BLOOD PRESSURE
(21) EP19737944.9	PARTSCH, Michael J.	(73) Boston Scientific Scimed Inc.
(47) 26.07.2023	PIVONKA, Daniel	Regents of the University of Minnesota
(87) US2019038039	YAKOVLEV, Anatoly	(72) KELLER-ROSS, Manda L.
26.12.2019	HARTLEY, Lee Fason	CHANTIGIAN, Daniel P.
(22) 19.06.2019	MISHRA, Lakshmi, Narayan	STOLEN, Craig
(54) SYSTEMS FOR DETERMINING CARDIAC PERFORMANCE	(31) 201562217356 P	ASIRVATHAM-JEYARAJ, Ninitha Margret
(73) The Brigham and Women's Hospital, Inc.	(32) 11.09.2015	Julfiya
Abiomed, Inc.	(33) United States of America	CLARK, Bryan Allen
Massachusetts Institute of Technology	<hr/>	(31) 201862673017 P
(72) MOYER, Christian	(51) A61N 1/05	(32) 17.05.2018
CHANG, Brian Yale	A61N 1/36	(33) United States of America
SHIP, Alexander	A61F 2/14	<hr/>
BHAVSAR, Sonya Sanat	A61F 9/008	(51) A61N 1/36
TAN, Qing	(11) EP3597263	A61B 5/00
	(21) EP18771315.1	
	(47) 26.07.2023	
	(87) KR2018002740	
	27.09.2018	

<p>(11) EP3600529 (21) EP18709851.2 (47) 26.07.2023 (87) US2018019111 04.10.2018 (22) 22.02.2018 (54) SYSTEM FOR CLINICAL EFFECTS-BASED TARGETING OF NEUROSTIMULATION (73) Boston Scientific Neuromodulation Corporation (72) MOFFITT, Michael A. ZHANG, Tianhe CARCIERI, Stephen MUSTAKOS, Richard (31) 201762476952 P (32) 27.03.2017 (33) United States of America</p> <hr/> <p>(51) A61N 1/36 A61B 5/00 A61B 5/369 A61B 5/375 A61N 1/04 (11) EP3589356 (21) EP17781631.1 (47) 26.07.2023 (87) AU2017050314 19.10.2017 (22) 10.04.2017 (54) TRANSCRANIAL STIMULATION WITH REAL-TIME MONITORING (73) Monash University (72) FITZGERALD, Paul B. SULLIVAN, Caley THOMSON, Richard H. (31) 2016901342 (32) 11.04.2016 (33) Australia</p> <hr/> <p>(51) A61N 1/36 A61B 5/00 A61N 1/05 G16H 40/63 (11) EP3720545 (21) EP18807363.9 (47) 26.07.2023 (87) EP2018082939 13.06.2019 (22) 29.11.2018 (54) A SYSTEM FOR PLANNING AND/OR PROVIDING NEUROMODULATION (73) GTX medical B.V. Ecole Polytechnique Fédérale de Lausanne (EPFL) (72) COURTINE, Gregoire WAGNER, Fabien BROUNS, Robin BAKKER, Jurriaan KLEIBEUKER, André CAPOGROSSO, Marco DELATTRE, Vincent BAKKER, Bert MINASSIAN, Karen (31) 17205358 (32) 05.12.2017 (33) European Patent Office (EPO)</p> <hr/> <p>(51) A61N 1/36 A61F 2/26 A61B 17/12</p>	<p>(11) EP2214776 (21) EP08837498.8 (47) 26.07.2023 (87) SE2008000565 16.04.2009 (22) 10.10.2008 (54) APPARATUS FOR TREATING IMPOTENCE (73) Implantica Patent Ltd. (72) FORSELL, Peter (31) 960715 P (32) 11.10.2007 (33) United States of America</p> <hr/> <p>(51) A61N 1/36 A61N 1/04 G16H 50/30 A61B 8/08 A61B 8/00 A61B 5/20 A61B 5/00 (11) EP3706859 (21) EP18876833.7 (47) 26.07.2023 (87) US2018057776 16.05.2019 (22) 26.10.2018 (54) NOCTURIA REDUCTION SYSTEM (73) Neurostim Solutions LLC (72) TOONG, Hoo-min D. (31) 201816142258 201762590829 P 201762584790 P (32) 26.09.2018 27.11.2017 11.11.2017 (33) United States of America United States of America United States of America</p> <hr/> <p>(51) A61N 1/36 A61N 1/372 A61B 5/055 (11) EP3884995 (21) EP21169424.5 (47) 26.07.2023 (22) 15.03.2014 (54) SYSTEMS FOR DELIVERING SUB-THRESHOLD THERAPY TO A PATIENT (73) Boston Scientific Neuromodulation Corporation (72) WAHAB, Nazim ZHU, Changfang VANSICKLE, Dennis Allen KOTHANDARAMAN, Sridhar CARBUNARU, Rafael LEE, Dongchul DOAN, Que T. HERSHEY, Bradley GILLESPIE, Christopher E. HOLLEY, Justin PARRAMON, Jordi (31) 201361801917 P (32) 15.03.2013 (33) United States of America</p> <hr/> <p>(51) A61N 1/36 G16H 50/20 (11) EP3341073 (21) EP16757528.1 (47) 26.07.2023</p>	<p>(87) US2016048195 02.03.2017 (22) 23.08.2016 (54) MACHINE LEARNING TO OPTIMIZE SPINAL CORD STIMULATION (73) Boston Scientific Neuromodulation Corporation (72) BRILL, Natalie A. CARCIERI, Stephen MOFFITT, Michael A. ZHU, Changfang GU, Jianwen BOKIL, Hemant HINCAPIE ORDONEZ, Juan Gabriel (31) 201662277686 P 201562210221 P (32) 12.01.2016 26.08.2015 (33) United States of America United States of America</p> <hr/> <p>(51) A61N 1/37 A61N 1/368 A61B 5/00 A61B 5/347 A61B 5/349 (11) EP3789082 (21) EP19195857.8 (47) 26.07.2023 (22) 06.09.2019 (54) IMPLANTABLE ASSEMBLY FOR DETECTING ELECTRICAL SIGNALS OF A HUMAN OR ANIMAL HEART (73) BIOTRONIK SE & Co. KG (72) Becker, Frank</p> <hr/> <p>(51) A61N 1/372 A61N 1/362 A61N 1/368 (11) EP3906092 (21) EP19787530.5 (47) 26.07.2023 (87) US2019053587 09.07.2020 (22) 27.09.2019 (54) TERMINATING PACEMAKER MEDIATED TACHYCARDIA (PMT) IN DUAL CHAMBER LEADLESS PACEMAKER SYSTEM (73) Pacesetter, Inc. (72) FISHLER, Matthew G. JIANG, Chunlan (31) 201916238850 (32) 03.01.2019 (33) United States of America</p> <hr/> <p>(51) A61N 1/372 A61N 1/375 (11) EP4088775 (21) EP21173500.6 (47) 26.07.2023 (22) 12.05.2021 (54) MANUFACTURING METHODS FOR A HEADER ASSEMBLY AND FOR ITS IMPLANTABLE INTRACARDIAC DEVICE, A HEADER ASSEMBLY AND AN IMPLANTABLE INTRACARDIAC DEVICE COMPRISING IT (73) BIOTRONIK SE & Co. KG (72) HUGHES, Devan AUSTIN, Eric</p>
--	---	--

HENSCHTEL, Martin	(51) A61N 1/378	(11) EP3673956
(51) A61N 1/372	A61N 1/372	(21) EP19219614.5
A61N 1/378	(11) EP3275505	(47) 26.07.2023
(11) EP3432977	(21) EP16203786.5	(22) 24.12.2019
(21) EP17731727.8	(47) 26.07.2023	(54) SYSTEMS AND METHODS FOR
(47) 26.07.2023	(22) 12.10.2009	TREATMENT PLANNING USING
(87) US2017036835	(54) A METHOD FOR CONTROLLING	CONTINUOUS QUALITY METRICS
21.12.2017	WIRELESS TRANSMISSION OF	(73) Siemens Healthineers International AG
(22) 09.06.2017	ENERGY TO A MEDICAL DEVICE	(72) RUOKOKOSKI, Emmi
(54) EXTERNAL CHARGER FOR AN	(73) Implantica Patent Ltd.	HALKO, Lauri Jaakonpoiki
IMPLANTABLE MEDICAL DEVICE	(72) Forsell, Peter	PELTOLA, Jarkko
FOR DETERMINING POSITION AND	(31) 0900493	KUUSELA, Esa
OPTIMIZING POWER TRANSMISSION	0802147	(31) 201816237489
USING RESONANT FREQUENCY AS	PCT/SE2008/000585	(32) 31.12.2018
DETERMINED FROM AT LEAST ONE	PCT/SE2008/000563	(33) United States of America
SENSE COIL	(32) 14.04.2009	(51) A61N 5/10
(73) Boston Scientific Neuromodulation	10.10.2008	(11) EP3881895
Corporation	10.10.2008	(21) EP20163840.0
(72) AGHASSIAN, Daniel	10.10.2008	(47) 26.07.2023
FREIDIN, Lev	(33) Sweden	(22) 18.03.2020
STOUFFER, Thomas, W.	Sweden	(54) METHOD, COMPUTER PROGRAM
(31) 201715616508	World Intellectual Property Office (WIPO)	PRODUCT AND COMPUTER SYSTEM
201662350458 P	World Intellectual Property Office (WIPO)	FOR RADIOTHERAPY PLANNING, AND
(32) 07.06.2017	(51) A61N 1/39	RADIOTHERAPY DELIVERY SYSTEM
15.06.2016	(11) EP3525879	(73) RaySearch Laboratories AB
(33) United States of America	(21) EP17781116.3	(72) HÅRDEMARK, Björn
United States of America	(47) 26.07.2023	TRANEUS, Erik
(51) A61N 1/372	(87) EP2017075722	ERIKSSON, Kjell
A61N 1/378	19.04.2018	(51) A61N 5/10
A61N 1/375	(22) 10.10.2017	(11) EP3900785
(11) EP3813933	(54) SINGLE USE DETECTOR FOR	(21) EP20170924.3
(21) EP19744957.2	AN AUTOMATED EXTERNAL	(47) 26.07.2023
(47) 26.07.2023	DEFIBRILLATOR (AED)	(22) 22.04.2020
(87) US2019039679	(73) Koninklijke Philips N.V.	(54) TREATMENT PLANNING USING
02.01.2020	(72) OCHS, Dennis E.	MULTIPLE RELATIVE BIOLOGICAL
(22) 28.06.2019	LANCASTER, Gregory James	EFFECTIVENESS (RBE) MODELS
(54) RECEIVE COIL CONFIGURATIONS	(31) 201662407572 P	(73) RaySearch Laboratories AB
FOR IMPLANTABLE MEDICAL DEVICE	(32) 13.10.2016	(72) Fredriksson, Albin
(73) Medtronic, Inc.	(33) United States of America	Eriksson, Kjell
(72) NORTON, John D.	(51) A61N 5/06	Janson, Martin
YOUNG, Paul B.	A61M 1/36	Traneus, Erik
IYER, Rajesh V.	(11) EP3932479	(51) A61P 19/02
SCHMIDT, Craig L.	(21) EP19916662.0	A61P 27/02
MUNNS, Gordon O.	(47) 26.07.2023	A61P 37/02
(31) 201816021075	(87) JP2019007128	C07D 487/18
(32) 28.06.2018	03.09.2020	A61P 3/00
(33) United States of America	(22) 25.02.2019	A61P 9/00
(51) A61N 1/378	(54) PHOTODYNAMIC THERAPY DEVICE	A61P 25/00
A61N 1/36	(73) Otsuka Electronics Co., Ltd.	A61P 29/00
A61N 1/05	(72) KIKUCHI, Fumito	A61P 35/00
A61B 5/296	KAJIWARA, Shinpei	A61P 37/00
(11) EP3962593	(51) A61N 5/06	(11) EP3939980
(21) EP20729318.4	H05B 45/20	(21) EP21189378.9
(47) 26.07.2023	(11) EP3845033	(47) 26.07.2023
(87) US2020031389	(21) EP19756377.8	(22) 24.04.2018
05.11.2020	(47) 26.07.2023	(54) PROCESS FOR PREPARING
(22) 04.05.2020	(87) EP2019072674	FUSED PENTACYCLIC IMIDAZOLE
(54) SYSTEMS FOR IMPROVING SLEEP	05.03.2020	DERIVATIVES AND USES THEREOF
DISORDERED BREATHING	(22) 26.08.2019	AS MODULATORS OF TNF ACTIVITY
(73) The Cleveland Clinic Foundation	(54) CYAN ENRICHED WHITE LIGHT	(73) UCB Biopharma SRL
XII Medical, Inc.	(73) Signify Holding B.V.	SANOFI
(72) NICKOLS, Josh	(72) PEETERS, Martinus, Petrus, Joseph	(72) XUAN, Mengyang
CAPARSO, Anthony V.	BROERSMA, Remy, Cyrille	HUTCHINGS, Martin Clive
PAPAY, Francis A.	WEGH, René, Theodoros	FORICHER, Yann
EMERTON, Kelly	(31) 18191993	ZHU, Zhaoning
(31) 201962841978 P	(32) 31.08.2018	JOHNSON, James Andrew
(32) 02.05.2019	(33) European Patent Office (EPO)	BROOKINGS, Daniel Christopher
(33) United States of America	(51) A61N 5/10	MACCOSS, Malcolm

DE HARO GARCIA, Teresa	A61P 35/00	A61K 38/07
HORSLEY, Helen Tracey	C07D 279/18	A61P 17/02
(31) 17168027	A61P 17/00	(11) EP3980134
(32) 25.04.2017	A61P 25/28	(21) EP20731574.8
(33) European Patent Office (EPO)	(11) EP3792254	(47) 26.07.2023
(51) A61P 25/00	(21) EP20203173.8	(87) IB2020055291
A61P 31/00	(47) 26.07.2023	10.12.2020
A61P 35/00	(22) 23.09.2010	(22) 05.06.2020
A61P 37/02	(54) CRYSTALLINE METHYLTHIONINIUM	(54) BIOACTIVE PEPTIDES AND
C07C 69/017	CHLORIDE HYDRATES	COMPOSITIONS COMPRISING THEM
C07C 69/40	(73) WisTa Laboratories Ltd.	(73) Espikem S.r.l.
C07C 69/42	(72) RAGER, Timo	Universita' Degli Studi di Firenze
A61K 31/223	HILFIKER, Rolf	(72) GIOVANNELLI, Lisa
A61K 31/05	(31) 24539109 P	PAPINI, Anna Maria
A61K 31/225	(32) 24.09.2009	ROVERO, Paolo
C07C 229/08	(33) United States of America	ERRANTE, Fosca
C07C 229/24	(51) A61P 35/00	(31) 201900008364
C07C 233/24	A61K 35/17	(32) 07.06.2019
A61P 1/08	A61K 38/17	(33) Italy
A61P 1/16	A61K 39/00	(51) A61Q 19/08
C07C 233/56	C07K 16/28	A61Q 19/00
A61P 17/02	C07K 14/705	A61P 17/06
A61P 17/18	C07K 14/725	A61P 17/00
A61P 25/02	C12N 5/0783	A61K 8/9789
A61P 25/04	(11) EP3697426	A61K 36/33
(11) EP3407973	(21) EP18867942.7	A61P 17/10
(21) EP17744984.0	(47) 26.07.2023	A61P 17/18
(47) 26.07.2023	(87) US2018056011	(11) EP3389624
(87) US2017015366	25.04.2019	(21) EP16876544.4
03.08.2017	(22) 16.10.2018	(47) 26.07.2023
(22) 27.01.2017	(54) COMPOSITIONS AND METHODS FOR	(87) US2016066567
(54) BIOLOGICALLY ACTIVE CANNABIDIOL	TREATING CANCER WITH ANTI-CD22	22.06.2017
ANALOGS	IMMUNOTHERAPY	(22) 14.12.2016
(73) The University Of Mississippi	(73) The U.S.A. as represented by the	(54) TOPICAL COSMETIC COMPOSITIONS
(72) HARRIS, Hannah, Marie	Secretary, Department of Health and	(73) MARY KAY INC.
ASHFAQ, Mohammad, Khalid	Human Services	(72) CARLE, Tiffany
ELSOHLY, Mahmoud, A.	Lentigen Technology, Inc.	HINES, Michelle
SUFKA, Kenneth Joseph	(72) ZHU, Zhongyu	KALAHASTI, Geetha
MAJUMDAR, Soumyajit	DIMITROV, Dimitar S.	GAN, David
GUL, Waseem	DROPULIC, Boro	(31) 201562269509 P
(31) 201662289184 P	SCHNEIDER, Dina	(32) 18.12.2015
(32) 29.01.2016	ORENTAS, Rimas J.	(33) United States of America
(33) United States of America	(31) 201762572926 P	(51) A62B 1/18
(51) A61P 29/00	(32) 16.10.2017	A62B 35/00
A61K 31/69	(33) United States of America	E06C 7/18
A61P 35/00	(51) A61Q 11/00	E04G 21/32
C07F 5/02	A61K 8/23	A62B 35/04
(11) EP3921033	A61K 8/22	(11) EP3727604
(21) EP20709706.4	A61K 8/02	(21) EP18892803.0
(47) 26.07.2023	A61K 8/19	(47) 26.07.2023
(87) IB2020050982	(11) EP3484588	(87) US2018066180
13.08.2020	(21) EP16754096.2	27.06.2019
(22) 07.02.2020	(47) 26.07.2023	(22) 18.12.2018
(54) ARGINASE INHIBITORS AND	(87) US2016046543	(54) TOP BRACKET FOR FALL
METHODS OF USE THEREOF	15.02.2018	PROTECTION SAFETY SYSTEM
(73) AstraZeneca AB	(22) 11.08.2016	(73) 3M Innovative Properties Company
(72) MLYNARSKI, Scott Nathan	(54) PEROXYMONOSULFATE	(72) MILLER, Rick G.
KAWATKAR, Sameer	TOOTHPOWDER COMPOSITION FOR	MATTSON, Keith G.
FINLAY, Maurice Raymond Verschoyle	TENACIOUS STAINS	(31) 201762607409 P
GREBE, Tyler	(73) Colgate-Palmolive Company	(32) 19.12.2017
SIMPSON, Iain	(72) FEI, Lin	(33) United States of America
(31) 201962802765 P	CHOPRA, Suman	(51) A62B 9/02
(32) 08.02.2019	DOGO-ISONAGIE, Cajetan	A62B 21/00
(33) United States of America	GRONLUND, Jennifer	C01B 13/02
(51) A61P 31/00	(51) A61Q 19/08	A62B 7/14
A61P 31/12	A61K 8/64	(11) EP2679284
A61P 31/14	C07K 5/113	(21) EP13174001.1
A61P 31/18	A61K 38/00	(47) 26.07.2023

(22) 27.06.2013	(21) EP18915372.9	21.06.2018
(54) Chemical oxygen generator with bimetal reaction control	(47) 26.07.2023	(22) 15.12.2017
(73) Safran Aerotechnics	(87) CN2018083744	(54) FIRE SUPPRESSION SYSTEM
(72) Meckes, Rüdiger	24.10.2019	(73) Tyco Fire Products LP
Rittner, Wolfgang	(22) 19.04.2018	(72) MOFFA, Anthony, Philip
Hollm, Marco	(54) POLARIZED DECELERATION BRAKE	(31) 201615382391
Boomgaarden, Günter	FOR SELF RETRACTING DEVICE	201662435636 P
(31) 201261665486 P	(73) HONEYWELL INTERNATIONAL INC.	201615382322
(32) 28.06.2012	(72) ZHU, Xiaojuan	(32) 16.12.2016
(33) United States of America	ZHOU, Tingjun	16.12.2016
(51) A62B 9/04	LIN, Frank	16.12.2016
B05B 7/24	SUN, Anbo	(33) United States of America
(11) EP3185969	ZHOU, Peng	United States of America
(21) EP15778207.9	(51) A62C 2/06	(51) A63B 41/08
(47) 26.07.2023	A62C 27/00	A63B 45/02
(87) EP2015001728	A62C 8/08	(11) EP3843862
03.03.2016	A62C 2/08	(21) EP19763122.9
(22) 25.08.2015	(11) EP4046691	(47) 26.07.2023
(54) FASTENING UNIT AND MODULES	(21) EP20891037.2	(87) US2019045923
(73) SATA GmbH & Co. KG	(47) 26.07.2023	05.03.2020
(72) BROSE, Jens	(87) JP2020039095	(22) 09.08.2019
GEHRUNG, Ralf	27.05.2021	(54) SPORTS BALL
(31) 201420486221 U	(22) 16.10.2020	(73) NIKE Innovate C.V.
201420486168 U	(54) RADIANT HEAT PROTECTIVE	(72) MOLINARI, Arthur Parker
201420486205 U	APPARATUS AND METHOD, AND	(31) 201862725681 P
(32) 26.08.2014	TRAVELING WORK VEHICLE	(32) 31.08.2018
26.08.2014	(73) Mitsubishi Heavy Industries, Ltd.	(33) United States of America
26.08.2014	(72) AMANO, Hisanori	(51) A63B 47/02
(33) China	TAMURA, Yoshihiro	(11) EP3725382
China	FUJITA, Jun	(21) EP20170122.4
China	(31) 2019211645	(47) 26.07.2023
(51) A62B 17/00	(32) 22.11.2019	(22) 17.04.2020
D04B 1/16	(33) Japan	(54) BALL COLLECTING DRUM AND BALL
A41D 31/00	(51) A62C 5/00	PICKER
(11) EP3436160	A62C 27/00	(73) Yamabiko Corporation
(21) EP17715010.9	A62C 5/02	(72) Nakano, Kenji
(47) 26.07.2023	B01F 23/45	Yamada, Ryota
(87) US2017023569	B01F 23/40	(31) 2019080126
05.10.2017	B01F 25/31	(32) 19.04.2019
(22) 22.03.2017	B01F 25/314	(33) Japan
(54) FLAME AND PARTICULATE	B01F 25/51	(51) A63B 49/08
RESISTANT KNIT ARTICLE	(11) EP3980137	A63B 53/14
(73) DuPont Safety & Construction, Inc.	(21) EP20750164.4	A63B 60/06
(72) LEVIT, Natalia V.	(47) 26.07.2023	A63B 60/14
(31) 201662316642 P	(87) AT2020060227	A63B 60/18
(32) 01.04.2016	10.12.2020	(11) EP3980141
(33) United States of America	(22) 05.06.2020	(21) EP20732305.6
(51) A62B 35/00	(54) METHOD AND LIQUID-MIXING	(47) 26.07.2023
(11) EP3307399	SYSTEM FOR PROVIDING A LIQUID	(87) GB2020051388
(21) EP16730644.8	MIXTURE	10.12.2020
(47) 26.07.2023	(73) Rosenbauer International AG	(22) 08.06.2020
(87) US2016036201	(72) JUNGMAIR, Roland	(54) SPORTING APPARATUS AND
15.12.2016	HAMMER, Hannes	INDUSTRIAL PRODUCTS
(22) 07.06.2016	(31) 505142019	(73) McCuaig, Ronald
(54) D-RING KEEPER ASSEMBLY	(32) 06.06.2019	(72) McCuaig, Ronald
(73) D B Industries, LLC	(33) Austria	(31) 201912598
(72) PERNER, Judd J	(51) A62C 37/00	201908164
CASEBOLT, Scott C	A62C 37/36	(32) 02.09.2019
(31) 201514815018	A62C 37/50	07.06.2019
201562173823 P	A62C 3/00	(33) United Kingdom
(32) 31.07.2015	A62C 3/07	United Kingdom
10.06.2015	A62C 35/00	(51) A63F 1/06
(33) United States of America	A62C 35/13	A63F 1/12
United States of America	A62C 35/02	(11) EP3791941
(51) A62B 35/00	(11) EP3554651	(21) EP20204098.6
A62B 35/04	(21) EP17829416.1	(47) 26.07.2023
(11) EP3781268	(47) 26.07.2023	(22) 08.03.2019
	(87) US2017066757	

(54) TRADING CARD PACKAGE AND MANUFACTURING METHOD FOR TRADING CARD PACKAGE	ZHANG, Menghan (31) 201510863976 (32) 30.11.2015 (33) China	202010819141 (32) 14.08.2020 14.08.2020 (33) China China
(73) Angel Playing Cards Co., Ltd. (72) SHIGETA, Yasushi (31) 2018063103 (32) 11.03.2018 (33) Japan	(51) A63F 13/847 A63F 13/335 A63F 13/352 A63F 13/355 A63F 13/42 A63F 13/86 (11) EP3801795 (21) EP19726256.1 (47) 26.07.2023 (87) US2019031398 05.12.2019 (22) 09.05.2019 (54) BIFURCATION OF SHARED CONTROLS AND PASSING CONTROLS IN A VIDEO GAME	(51) B01D 15/16 G01N 30/34 G01N 30/86 (11) EP3638392 (21) EP18732731.7 (47) 26.07.2023 (87) EP2018066005 20.12.2018 (22) 15.06.2018 (54) METHOD AND APPARATUS FOR DETERMINING ONE OR MORE BUFFER COMPOSITION RECIPES
(11) EP3807746 (21) EP19822748.0 (47) 26.07.2023 (87) US2019037802 26.12.2019 (22) 18.06.2019 (54) HOLDING AND RELEASING VIRTUAL OBJECTS	(73) Sony Interactive Entertainment LLC (72) BELTRAN, Justin BUTLER, Dylan JARZEBINSKI, Alexander (31) 201815993603 (32) 31.05.2018 (33) United States of America (51) A63G 7/00 B60R 21/00 B60R 21/02 B60R 22/48 (11) EP3727625 (21) EP18830669.0 (47) 26.07.2023 (87) US2018066079 27.06.2019 (22) 17.12.2018 (54) PASSIVE RESTRAINT TECHNIQUES FOR AMUSEMENT PARK RIDES	(73) Cytiva Sweden AB (72) CARREDANO, Enrique, Napoleon (31) 201709531 (32) 15.06.2017 (33) United Kingdom (51) B01D 15/18 B01D 15/34 C07K 1/16 (11) EP3645139 (21) EP18711827.8 (47) 26.07.2023 (87) EP2018054478 03.01.2019 (22) 23.02.2018 (54) PERIODIC COUNTERCURRENT CHROMATOGRAPHY SEPARATION OF PLASMIDS
(73) Valve Corporation (72) SLOCUM, Jeremy NIETFELD, Scott, Douglas YANG, Lawrence BRADNER, Keith LEINBAUGH, Jeffrey, George (31) 201916389629 201862687806 P 201862687774 P (32) 19.04.2019 21.06.2018 20.06.2018 (33) United States of America United States of America United States of America	(73) Universal City Studios LLC (72) BLUM, Steven C. (31) 201816221134 201762607770 P (32) 14.12.2018 19.12.2017 (33) United States of America United States of America (51) A63G 21/02 (11) EP3787763 (21) EP19729433.3 (47) 26.07.2023 (87) AT2019000015 07.11.2019 (22) 03.05.2019 (54) SLIDE (73) Höllinger, Gerhard (72) Höllinger, Gerhard (31) 1242018 (32) 03.05.2018 (33) Austria (51) A63J 5/02 (11) EP4074392 (21) EP22171559.2 (47) 26.07.2023 (22) 16.06.2021 (54) SMOKE GENERATOR USING DRY ICE	(73) Cytiva BioProcess R&D AB (72) SENDABO, Sara BLOM, Hans SKOGLAR, Helena AKERBLOM, Anna (31) 201710130 (32) 26.06.2017 (33) United Kingdom (51) B01D 15/20 G01N 30/56 (11) EP3519072 (21) EP17780695.7 (47) 26.07.2023 (87) EP2017074902 05.04.2018 (22) 29.09.2017 (54) METHOD AND SYSTEM FOR TRANSFERRING SEPARATION RESIN
(51) A63F 13/49 A63F 13/5252 (11) EP3332849 (21) EP17185416.9 (47) 26.07.2023 (22) 08.08.2017 (54) INFORMATION PROCESSING PROGRAM, INFORMATION PROCESSING APPARATUS AND INFORMATION PROCESSING METHOD	(73) Nintendo Co., Ltd. (72) TSUKAHARA, Yuki OIWA, Ryota (31) 2016237235 (32) 07.12.2016 (33) Japan (51) A63F 13/56 A63F 13/358 (11) EP3173134 (21) EP16194958.1 (47) 26.07.2023 (22) 21.10.2016 (54) SYNCHRONIZATION OBJECT DETERMINING METHOD, APPARATUS, AND SYSTEM	(73) Cytiva Sweden AB (72) AVALLIN, Johan, Fredrik (31) 201701576 201616702 (32) 31.01.2017 30.09.2016 (33) United Kingdom United Kingdom (51) B01D 15/36 C07K 1/18 C07K 16/00 B01J 20/288 B01J 20/32 B01J 43/00 C07K 16/28 C07K 16/06
(73) Huawei Technologies Co., Ltd. (72) ZHOU, Chao	(73) Novacorp Inc. (72) Chang, Ming-Cheng (31) 202021702139 U	

(11) EP3993887	OSENDORF, Richard J.	LI, Jigang
(21) EP20734570.3	JOHNSON, Philip Edward	(31) 202110129295
(47) 26.07.2023	(31) 201361895197 P	(32) 29.01.2021
(87) EP2020068439	(32) 24.10.2013	(33) China
07.01.2021	(33) United States of America	(51) B01D 46/54
(22) 01.07.2020	(51) B01D 46/00	B01D 27/04
(54) GLYCOFORM PURIFICATION	B01D 46/12	B01D 46/00
(73) Merck Patent GmbH	B01D 46/16	B01D 46/30
(72) SKUDAS, Romas	F24F 8/99	B01D 46/42
HOLZGREVE, Annika	(11) EP3875164	(11) EP3740301
STROBEL, Alisa	(21) EP21158479.2	(21) EP18899942.9
(31) 20172272	(47) 26.07.2023	(47) 26.07.2023
19184130	(22) 22.02.2021	(87) CA2018051233
(32) 30.04.2020	(54) FILTER DEVICE, AIR GUIDE HOSE	18.07.2019
03.07.2019	WITH FILTER ELEMENT, TUNNEL AND	(22) 01.10.2018
(33) European Patent Office (EPO)	USE OF THE FILTER DEVICE	(54) AIR FILTRATION UNIT
European Patent Office (EPO)	(73) MANN+HUMMEL GmbH	(73) BLADE FILTERS INC.
(51) B01D 29/05	(72) TCHALE, Sylvain Michel	(72) FIDA, Joseph
B01D 29/085	HITTINGER, Marc	(31) 201862617465 P
B01D 63/08	MÜLLER, Dr. Thilo	(32) 15.01.2018
(11) EP3717095	EDER, Roman	(33) United States of America
(21) EP18786742.9	KORONAI-BAUER, Anja	(51) B01D 46/58
(47) 26.07.2023	BAUCH, Maximilian	B01D 46/00
(87) EP2018077789	SCHULZ, Dr. Christoph	B01D 46/24
31.05.2019	WARTH, Dr. Tobias	(11) EP3693598
(22) 11.10.2018	GUSEK, Jens	(21) EP20165010.8
(54) CONNECTION DEVICE FOR A	(31) 102020105750	(47) 26.07.2023
SUCTION APPARATUS OF A VACUUM	(32) 04.03.2020	(22) 13.03.2014
DIAPHRAGM FILTER	(33) Germany	(54) COALESCER FILTER
(73) Sartorius Stedim Biotech GmbH	(51) B01D 46/00	(73) Baldwin Filters, Inc.
(72) PRUEHL, Sebastian	B01D 46/24	(72) Seggern, Michael von
SCHUETZLER, Michael	(11) EP4026601	(31) 201361783054 P
GROSSMANN, Juliane	(21) EP21214489.3	(32) 14.03.2013
PFLANZ, Karl	(47) 26.07.2023	(33) United States of America
(31) 102017127969	(22) 14.12.2021	(51) B01D 53/18
(32) 27.11.2017	(54) LIQUID SEPARATOR, FILTER	B01D 53/74
(33) Germany	INSERT FOR INSTALLATION IN A	B01D 53/78
(51) B01D 35/147	LIQUID SEPARATOR, METHOD FOR	B01D 53/79
B01D 29/21	PROVIDING SAID FILTER INSERT	B01D 53/14
B01D 35/30	AND USE OF THE FILTER INSERT IN A	C12M 1/107
B01D 29/96	LIQUID SEPARATOR	C12M 1/00
(11) EP3643387	(73) MANN+HUMMEL GmbH	C10L 3/10
(21) EP19200521.3	(72) SAVADATTI, Pramod	(11) EP3341110
(47) 26.07.2023	DWORATZEK, Klemens	(21) EP16842678.1
(22) 30.09.2019	BANGALORE PANNEERSELVAM,	(47) 26.07.2023
(54) IMPROVED OIL FILTER ELEMENT	Mohan	(87) US2016048951
(73) Volvo Car Corporation	THONTARADHYA, Srinivasa	09.03.2017
(72) EKSTRAND, Jonatan	(31) 102021100413	(22) 26.08.2016
SÖDERSTRÖM, Thomas	(32) 12.01.2021	(54) METHOD AND APPARATUS FOR
(31) 18201930	(33) Germany	TREATING BIOGAS
(32) 23.10.2018	(51) B01D 46/18	(73) Energy Tech Innovations, LLC
(33) European Patent Office (EPO)	B01D 46/44	(72) JOHNSON, Bryan, R.
(51) B01D 46/00	B01D 46/681	(31) 201562211494 P
B01D 46/02	B01D 46/682	(32) 28.08.2015
B01D 46/52	B01D 46/69	(33) United States of America
B01D 29/11	B01D 46/72	(51) B01D 53/26
B01D 29/21	B01D 46/79	B01D 53/04
B01D 46/24	(11) EP4035758	H01F 27/14
(11) EP3714960	(21) EP22153454.8	(11) EP4025326
(21) EP19218711.0	(47) 26.07.2023	(21) EP20761869.5
(47) 26.07.2023	(22) 26.01.2022	(47) 26.07.2023
(22) 23.10.2014	(54) FILTER CLEANING SYSTEM, FILTER	(87) EP2020074469
(54) PLEATED FILTER MEDIA	CLEANING METHOD, AND DATA	11.03.2021
(73) Donaldson Company, Inc.	CENTER	(22) 02.09.2020
(72) PARSONS, Jonathan G.	(73) Huawei Digital Power Technologies Co.,	(54) A BREATHER DEVICE FOR
LAVALLEE, Gregory L.	Ltd.	DEHUMIDIFYING AIR TO BE SUPPLIED
ADAMEK, Daniel E.	(72) WU, Bingjin	TO AN EXPANSION VESSEL OF A
HAMPTON, Janelle M.	LUO, Long	POWER ELECTRICAL APPARATUS

(73) COMEM S.p.A.	B01D 65/00	(22) 28.02.2019
(72) NUCCI, Francesca UGOLIN, Gianmaria CAROLLO, Carlo	(11) EP3738664 (21) EP19000237.8 (47) 26.07.2023	(54) COMBINED FLUE OZONE DISTRIBUTION SYSTEM
(31) 19195300	(22) 15.05.2019	(73) INSTITUTE OF PROCESS ENGINEERING, CHINESE ACADEMY OF SCIENCES
(32) 04.09.2019	(54) DEVICE FOR FILTERING AND SEPARATING PRESSURISED LIQUID MIXTURES USING MEMBRANES	HBIS Group Co., Ltd.
(33) European Patent Office (EPO)		(72) WAN, Bin
(51) B01D 53/26	(73) R.T.S. ROCHEM Technical Services GmbH	ZHU, Tingyu
B01D 53/52	(72) Faiga, Ralf	ZHAO, Ruizhuang
F26B 17/02	(51) B01D 67/00	XU, Wenqing
F26B 25/00	B01D 69/12	YE, Meng
(11) EP3669969	C02F 1/00	WANG, Xindong
(21) EP19213391.6	(11) EP3228381	JIANG, Zichao
(47) 26.07.2023	(21) EP16164566.8	(31) 201810763514
(22) 04.12.2019	(47) 26.07.2023	(32) 12.07.2018
(54) DRYING SYSTEM AND METHOD FOR DRYING A WET GOOD	(22) 08.04.2016	(33) China
(73) Huber SE	(54) PREPARATION OF COATED POLYMER MEMBRANE WITH A PORE STRUCTURE FOR THE FILTRATION OF WATER	(51) B01F 23/40
(72) Ostermann, Stefan	(73) Aqua free Membrane Technology GmbH	(11) EP2978519
(31) 102018132641	(72) Sauer, Matthias Dr.	(21) EP14714656.7
(32) 18.12.2018	(51) B01D 71/02	(47) 26.07.2023
(33) Germany	B01D 69/10	(87) EP2014056080
(51) B01D 59/34	C01B 33/12	02.10.2014
H01S 3/00	C04B 35/10	(22) 26.03.2014
(11) EP3391956	C04B 35/14	(54) FILTRATION AND EMULSIFICATION DEVICE
(21) EP16875799.5	C04B 35/18	(73) MST Microsieve Technologies GmbH
(47) 26.07.2023	C04B 35/195	(72) LIEBERMANN, Franz
(87) JP2016087630	C04B 38/00	VAN RIJN, Cornelis Johannes Maria
22.06.2017	C04B 41/85	(31) 202013101302 U
(22) 16.12.2016	B01D 53/22	(32) 26.03.2013
(54) DEVICE AND METHOD FOR SELECTIVE IONIZATION OF PALLADIUM ISOTOPEs	B01D 67/00	(33) Germany
(73) Riken	C01B 33/145	(51) B01F 23/50
(72) MIDORIKAWA, Katsumi	C01B 33/155	B01F 35/71
(31) 2016215009	C04B 35/622	(11) EP3638410
2015246175	C04B 35/624	(21) EP18732881.0
(32) 02.11.2016	(11) EP2589428	(47) 26.07.2023
17.12.2015	(21) EP11800646.9	(87) IB2018053382
(33) Japan	(47) 26.07.2023	20.12.2018
Japan	(87) JP2011063967	(22) 15.05.2018
(51) B01D 61/14	05.01.2012	(54) IMPROVED MIXING DEVICE
A61K 35/19	(22) 17.06.2011	(73) ARAG S.R.L.
B01D 61/18	(54) SILICA FILM FILTER	(72) VEZZOSI, Cristian
B01D 63/02	(73) NGK Insulators, Ltd.	(31) 201700064652
B01D 69/08	(72) KAWAI, Masaaki	(32) 12.06.2017
B01D 71/38	SATOH, Aya	(33) Italy
B01D 71/68	MORI, Nobuhiko	(51) B01F 25/312
(11) EP3520883	TAKAGI, Mariko	F04F 5/24
(21) EP17856026.4	NODA, Kenichi	F04F 5/46
(47) 26.07.2023	(31) 2010151852	F25B 41/00
(87) JP2017034458	2010188468	(11) EP3858472
05.04.2018	(32) 02.07.2010	(21) EP20214609.8
(22) 25.09.2017	25.08.2010	(47) 26.07.2023
(54) MODULE FOR CONCENTRATING INCUBATED PLATELETS AND METHOD FOR PRODUCING PLATELET PREPARATION USING SAME	(33) Japan	(22) 16.12.2020
(73) Toray Industries, Inc.	Japan	(54) EJECTOR FOR A HEAT RECOVERY OR WORK RECOVERY SYSTEM AND FLUID MIXING METHOD
(72) HARIMOTO, Kenichi	(51) B01F 23/10	(73) Carrier Corporation
SAKAGUCHI, Hirokazu	B01F 25/41	(72) Parmesh, Verma
TANAHASHI, Kazuhiro	B01F 25/313	Wei, Zhang
HATTA, Kota	B01D 53/76	(31) 202010078559
(31) 2016193154	B01D 53/56	(32) 03.02.2020
(32) 30.09.2016	(11) EP3821970	(33) China
(33) Japan	(21) EP19834749.4	(51) B01J 3/00
(51) B01D 63/10	(47) 26.07.2023	C10G 1/10
	(87) CN2019076412	C10L 1/02
	16.01.2020	C10L 1/04
		C10G 1/06

C10G 1/08	NICOUD, Roger-Marc	(73) Katholieke Universiteit Leuven
B01J 19/20	SIMON, Marc-Olivier	VITO NV
B01J 19/24	(51) B01J 19/12	(72) VAN DEN BERGH, Matthias
B01J 3/02	C07C 29/80	DE VOS, Dirk
(11) EP3555231	C07C 31/04	(31) 19183163
(21) EP17881334.1	C07B 63/00	(32) 28.06.2019
(47) 26.07.2023	B01D 3/00	(33) European Patent Office (EPO)
(87) AU2017000278	B01D 9/00	(51) B01J 23/42
21.06.2018	B01D 15/38	B01J 23/44
(22) 14.12.2017	B01D 1/00	B01J 29/068
(54) METHOD FOR PRODUCING BIOFUEL	(11) EP3501636	B01J 37/02
BY CONVERTING A POLYMERIC	(21) EP17841527.9	B01J 37/03
MATERIAL MELT MIXED WITH	(47) 26.07.2023	B01J 35/00
SUPERCRITICAL WATER	(87) JP2017029450	B01J 20/18
(73) Mura Technology Limited	22.02.2018	B01D 53/94
(72) ROWLANDS, William, Neil	(22) 16.08.2017	B01J 29/74
HUMPHREYS, Leonard James	(54) METHOD FOR REFINING ORGANIC	B01J 29/06
(31) 2016905177	COMPOUND	B01J 29/76
(32) 14.12.2016	(73) NGK Insulators, Ltd.	B01J 35/04
(33) Australia	(72) ISOBE, Hiroaki	(11) EP3363526
(51) B01J 8/06	NIWA, Kousuke	(21) EP18161307.6
B01J 8/00	(31) 2016161435	(47) 26.07.2023
C01B 3/38	(32) 19.08.2016	(22) 05.10.2012
(11) EP2882527	(33) Japan	(54) EXHAUST SYSTEM FOR A LEAN-
(21) EP13745384.1	(51) B01J 20/04	BURN INTERNAL COMBUSTION
(47) 26.07.2023	B01J 20/28	ENGINE
(87) EP2013066061	B01J 20/32	(73) Johnson Matthey Public Limited
13.02.2014	C02F 1/28	Company
(22) 31.07.2013	C01C 3/08	Johnson Matthey Japan Godo Kaisha
(54) EXHAUST SYSTEM FOR A STEAM	C01C 3/12	(72) WANG, Lifeng
REFORMER WITH BEARINGS	G21F 9/12	CHATTERJEE, Sougato
(73) L'Air Liquide, Société Anonyme pour	C02F 101/00	SUMIYA, Satoshi
l'Etude et l'Exploitation des Procédés	C02F 101/20	GAST, Jane
Georges Claude	C02F 103/08	RAJARAM, Raj
(72) COSCIA, Antonio	(11) EP3509738	BROWN, Gavin Michael
SPIES, Lukas	(21) EP17768847.0	CHIFFEY, Andrew Francis
(31) 102012015667	(47) 26.07.2023	WALKER, Andrew
(32) 09.08.2012	(87) FR2017052356	OYAMADA, Hanako
(33) Germany	15.03.2018	PHILLIPS, Paul Richard
(51) B01J 8/18	(22) 06.09.2017	BLAKEMAN, Philip
B01J 8/44	(54) PROCESS FOR PREPARING	(31) 2011221896
(11) EP3959006	A SOLID NANOCOMPOSITE	201200786
(21) EP20724715.6	MATERIAL MADE FROM HEXA- OR	201261623736 P
(47) 26.07.2023	OCTACYANOMETALLATES OF ALKALI	201161569542 P
(87) US2020029661	METALS	(32) 06.10.2011
29.10.2020	(73) Orano Recyclage	18.01.2012
(22) 23.04.2020	Commissariat à l'énergie atomique et aux	13.04.2012
(54) FLUID DISTRIBUTION DEVICES	énergies alternatives	12.12.2011
(73) T.EN PROCESS TECHNOLOGY, INC.	(72) GRANDJEAN, Agnès	(33) Japan
(72) SINGH, Raj Kanwar	CHARLOT, Alexandre	United Kingdom
MARCHANT, Paul	FREMY, Virginie	United States of America
DHARIA, Dilip	BARRE, Yves	United States of America
(31) 201916393875	(31) 1658369	(51) B01J 23/42
(32) 24.04.2019	(32) 08.09.2016	B01J 23/44
(33) United States of America	(33) France	B01J 29/068
(51) B01J 19/00	(51) B01J 20/10	B01J 37/02
G16C 10/00	C02F 1/28	B01J 37/03
(11) EP3566769	C02F 101/30	B01J 35/00
(21) EP18171093.0	C02F 101/36	B01J 20/18
(47) 26.07.2023	(11) EP3990171	B01J 29/06
(22) 07.05.2018	(21) EP20734414.4	B01J 29/74
(54) METHOD AND DEVICE FOR	(47) 26.07.2023	B01J 29/76
SIMULATING AN INDUSTRIAL	(87) EP2020068275	B01J 35/04
FACILITY FOR EXPLOITING A	30.12.2020	(11) EP3363525
CHEMICAL OR BIOCHEMICAL	(22) 29.06.2020	(21) EP18161306.8
METHOD	(54) ADSORPTIVE REMOVAL OF	(47) 26.07.2023
(73) YF1	PERFLUORINATED OR PARTIALLY	(22) 05.10.2012
(72) BERGER, Etienne	FLUORINATED SURFACTANTS	

(54) EXHAUST SYSTEM FOR A LEAN-BURN INTERNAL COMBUSTION ENGINE	(21) EP14824185.4 (47) 26.07.2023 (87) US2014068134	(31) 2015229127 (32) 24.11.2015 (33) Japan
(73) Johnson Matthey Public Limited Company Johnson Matthey Japan Godo Kaisha	11.06.2015 (22) 02.12.2014 (54) SYNTHESIS OF AEI ZEOLITE	(51) B01L 3/00 A61B 5/15 A61B 5/154 G01N 33/49 B01L 3/02
(72) BLAKEMAN, Philip CHATTERJEE, Sougato CHIFFEY, Andrew Francis BROWN, Gavin Michael RAJARAM, Raj PHILLIPS, Paul Richard WALKER, Andrew GAST, Jane WANG, Lifeng OYAMADA, Hanako SUMIYA, Satoshi	(73) Johnson Matthey Public Limited Company (72) RIVAS-CARDONA, Alejandra FEDEYKO, Joseph Michael CHEN, Hai-Ying (31) 201361910629 P (32) 02.12.2013 (33) United States of America	(11) EP3634632 (21) EP18734726.5 (47) 26.07.2023 (87) US2018036511 13.12.2018 (22) 07.06.2018 (54) BIOLOGICAL FLUID SEPARATION DEVICE
(31) 2011221896 201200786 201261623736 P 201161569542 P	(51) B01J 29/76 C01B 39/48 F01N 3/08 F01N 3/10 B01D 53/94 (11) EP3597293 (21) EP18768288.5 (47) 26.07.2023 (87) JP2018009552	(22) 07.06.2018 (54) BIOLOGICAL FLUID SEPARATION DEVICE (73) Becton, Dickinson and Company (72) WENTZELL, Scott IVOSEVIC, Milan LI, Peng (31) 201762516833 P (32) 08.06.2017 (33) United States of America
(32) 06.10.2011 18.01.2012 13.04.2012 12.12.2011	(22) 12.03.2018 (54) TRANSITION METAL-CARRYING ZEOLITE AND PRODUCTION METHOD THEREFOR, AND NITROGEN OXIDE PURIFICATION CATALYST AND METHOD FOR USING SAME	(51) B01L 3/00 A61B 5/15 A61B 5/157 A61B 10/00 B01L 3/06 B01L 3/14 G01N 1/28 (11) EP3807000 (21) EP18922587.3 (47) 26.07.2023 (87) US2018045287 19.12.2019 (22) 03.08.2018 (54) DEVICE AND SYSTEM FOR PRESERVING ANALYTES IN BLOOD SAMPLES DURING STORAGE AND TRANSPORTATION
(33) Japan United Kingdom United States of America United States of America	(73) Mitsubishi Chemical Corporation (72) TANAKA, Manabu MATSUO, Takeshi TAKEWAKI, Takahiko HOTTA, Yuusuke (31) 2017216911 2017047094 (32) 10.11.2017 13.03.2017 (33) Japan Japan	(73) Kepler Diagnostics, Inc. Vdi Laboratory, LLC. (72) RINGOLD, Tyson RINGOLD, Randy (31) PCT/US2018/037302 (32) 13.06.2018 (33) World Intellectual Property Office (WIPO)
(51) B01J 23/75 B01J 27/22 C07C 1/04 C07C 11/04 C07C 11/06 C07C 11/08 (11) EP3441140 (21) EP16897723.9 (47) 26.07.2023 (87) CN2016100772 12.10.2017 (22) 29.09.2016	(51) B01J 31/22 B01J 37/04 C07C 201/12 C07C 205/16 C07C 205/32 C07C 205/54 C07B 61/00 C07C 237/04 C07C 237/22 C07F 7/00 (11) EP3381553 (21) EP16868516.2 (47) 26.07.2023 (87) JP2016084515 01.06.2017 (22) 21.11.2016 (54) CATALYST, PRODUCTION METHOD THEREFOR, AND METHOD FOR PRODUCING OPTICALLY ACTIVE ANTI-1,2-NITROALKANOL COMPOUND	(51) B01L 3/00 B01J 19/00 G01N 35/00 B81C 3/00 (11) EP2822689 (21) EP13711238.9 (47) 26.07.2023 (87) US2013030054 12.09.2013 (22) 08.03.2013 (54) MICRO-TUBE PARTICLES FOR MICROFLUIDIC ASSAYS AND METHODS OF MANUFACTURE
(73) Shanxi Lu'an Environmental Energy Development Co. Ltd. Shanghai Advanced Research Institute Chinese Academy Of Sciences	(73) Microbial Chemistry Research Foundation (72) HASHIMOTO, Kazuki KUMAGAI, Naoya SHIBASAKI, Masakatsu SAITO, Akira NONOYAMA, Akihito	(73) Cyvek, Inc. (72) BRANCIFORTE, Jeffrey T. TU, Jane M. PUTNAM, Martin A. STANWOOD, Charles O. (31) 201361754377 P 201213427857 201261608570 P
(72) LIN, Tiejun ZHONG, Liangshu SUN, Yuhan LIU, Bin QI, Xingzhen XIAO, Yaning YU, Fei WANG, Dongfei AN, Yunlei LI, Zhengjia		
(31) 201610210920 (32) 06.04.2016 (33) China		
(51) B01J 29/76 B01J 29/80 B01D 53/00 C01B 39/48 (11) EP3077107		

(32) 18.01.2013 22.03.2012 08.03.2012	(54) TREATMENT PLANT, IN PARTICULAR CRUSHING PLANT, IN PARTICULAR ROCK CRUSHER	PROCESS OF RECYCLING ELECTRIC OR ELECTRONIC DEVICES
(33) United States of America United States of America United States of America	(73) KLEEMANN GMBH (72) WELLER, Christian BERGER, Stefan SCHMID, Wolfgang	(73) Schons, Georg (72) SCHONS, Georg RESKE, Henrik SCHONS, Marc
(51) B02C 9/00 B02C 19/06 F26B 17/10 B04C 9/00 B02C 19/00 F26B 1/00 F26B 3/10	(31) 102019108345 (32) 29.03.2019 (33) Germany	(31) 102020108204 (32) 25.03.2020 (33) Germany
(11) EP3941636 (21) EP20773537.4 (47) 26.07.2023 (87) SE2020050286 24.09.2020 (22) 18.03.2020	(51) B02C 21/02 B02C 25/00 B07B 1/42 (11) EP2858761 (21) EP13733025.4 (47) 26.07.2023 (87) FI2013050576 12.12.2013 (22) 27.05.2013	(51) B03B 9/06 B07C 5/34 B09B 5/00 G01N 21/64 H01J 9/52 B07C 5/342 C09K 11/01 (11) EP3669991 (21) EP19211313.2 (47) 26.07.2023 (22) 25.11.2019
(54) METHOD AND APPARATUS FOR GRINDING AND DRYING A MATERIAL OR A MIXTURE OF MATERIALS	(54) A METHOD FOR CONTROLLING A MINERAL MATERIAL PROCESSING PLANT AND A MINERAL MATERIAL PROCESSING PLANT	(54) METHOD FOR RECYCLING OF LED- COMPONENTS FROM A MIXTURE OF USED LAMPS
(73) Airgrinder AB (72) BÄCKLUND, Erik (31) 1900051 (32) 19.03.2019 (33) Sweden	(73) Metso Outotec Finland Oy (72) JOKIRANTA, Mikko RANTANEN, Jukka-Pekka MAUNULA, Erno	(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. (72) Gassmann, Andrea Zimmermann, Jörg
(51) B02C 15/02 B02C 23/30 B02C 23/32	(31) 20125628 (32) 08.06.2012 (33) Finland	(31) 102018222185 (32) 18.12.2018 (33) Germany
(11) EP2222407 (21) EP08849163.4 (47) 26.07.2023 (87) US2008083489 22.05.2009 (22) 14.11.2008	(51) B02C 25/00 B07B 13/18 (11) EP2906364 (21) EP13795541.5 (47) 26.07.2023 (87) FI2013050954 10.04.2014 (22) 02.10.2013	(51) B03C 1/28 B01D 35/06 B03C 1/033 C02F 1/48 F24D 19/00 F28F 19/01 (11) EP3280536 (21) EP16716645.3 (47) 26.07.2023 (87) GB2016050963 13.10.2016 (22) 06.04.2016
(54) FINE GRINDING ROLLER MILL	(54) A METHOD FOR CONTROLLING A MINERAL MATERIAL PROCESSING PLANT AND A MINERAL MATERIAL PROCESSING PLANT	(54) MAGNETIC FILTER WITH DRAIN AND REMOVABLE EXTERNAL MAGNETIC ELEMENT
(73) Schenck Process LLC (72) CHEN, Michael, M. (31) 939621 (32) 14.11.2007 (33) United States of America	(73) Metso Outotec Finland Oy (72) KONTTILA, Juha YLÄ-OUTINEN, Kai RANTANEN, Jukka-Pekka PERMI, Sami NIEMINEN, Paavo TIRANEN, Juho KUJALA, Toni	(73) Adey Holdings (2008) Limited (72) ADEY, Christopher ALBROW, Robert Charles DOWNIE, Simon (31) 201506054 (32) 09.04.2015 (33) United Kingdom
(51) B02C 18/00 B02C 18/14 B02C 18/16 B02C 18/18	(31) 20126028 (32) 02.10.2012 (33) Finland	(51) B04B 5/04 B04B 7/08 B04B 1/02 B04B 11/04 A61M 1/36 B01D 21/26 B01D 21/34
(11) EP3453460 (21) EP17189856.2 (47) 26.07.2023 (22) 07.09.2017	(51) B03B 9/06 B02C 17/10 B07B 1/28 B07B 1/50 B07B 1/54 (11) EP4084910 (21) EP21716966.3 (47) 26.07.2023 (87) EP2021056457 30.09.2021 (22) 15.03.2021	(54) MAGNETIC FILTER WITH DRAIN AND REMOVABLE EXTERNAL MAGNETIC ELEMENT (73) Adey Holdings (2008) Limited (72) ADEY, Christopher ALBROW, Robert Charles DOWNIE, Simon (31) 201506054 (32) 09.04.2015 (33) United Kingdom
(54) A COMMINUTION APPARATUS AND A METHOD FOR PERFORMING SERVICE OF SUCH AN APPARATUS	(54) METHOD AND SYSTEM FOR SEPARATING DUST-CONTAINING MATERIAL MIXTURES FROM THE	(54) METHOD FOR RECYCLING OF LED- COMPONENTS FROM A MIXTURE OF USED LAMPS
(73) M&J Denmark A/S (72) Langelund Jakobsen, Tommy Kjaersgaard, Johannes	(73) Metso Outotec Finland Oy (72) KONTTILA, Juha YLÄ-OUTINEN, Kai RANTANEN, Jukka-Pekka PERMI, Sami NIEMINEN, Paavo TIRANEN, Juho KUJALA, Toni	(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. (72) Gassmann, Andrea Zimmermann, Jörg
(51) B02C 21/02 B02C 23/02 B02C 23/08 B02C 23/14 B02C 23/16 B02C 25/00	(31) 102019108345 (32) 29.03.2019 (33) Germany	(31) 102020108204 (32) 25.03.2020 (33) Germany
(11) EP3714981 (21) EP20158307.7 (47) 26.07.2023 (22) 19.02.2020	(51) B02C 21/02 B02C 25/00 B07B 1/42 (11) EP2858761 (21) EP13733025.4 (47) 26.07.2023 (87) FI2013050576 12.12.2013 (22) 27.05.2013	(51) B03B 9/06 B07C 5/34 B09B 5/00 G01N 21/64 H01J 9/52 B07C 5/342 C09K 11/01 (11) EP3669991 (21) EP19211313.2 (47) 26.07.2023 (22) 25.11.2019

(31) 201313766528 201213447008 201213396600	C23C 4/123 B05B 7/04 B05B 12/06	CORRESPONDING CLEANING METHOD
(32) 13.02.2013 13.04.2012 15.02.2012	B05B 1/08 (11) EP2588242 (21) EP11799980.5	(73) Fricke Abfülltechnik GmbH & Co. KG BASF Coatings GmbH
(33) United States of America United States of America United States of America	(47) 26.07.2023 (87) AU2011000820 05.01.2012	(72) BLASER, Alexander OESTERMANN, Olaf (31) 18174816 (32) 29.05.2018 (33) European Patent Office (EPO)
(51) B05B 1/18 E03C 1/04 B05B 12/00	(22) 30.06.2011 (54) DROPLET GENERATION SYSTEM AND METHOD	(51) B05D 5/08 B05C 1/02 B41F 17/00
(11) EP3834945 (21) EP20209985.9 (47) 26.07.2023 (22) 26.11.2020	(73) Commonwealth Scientific and Industrial Research Organisation Korea Institute of Geoscience and Mineral Resources	(11) EP3055077 (21) EP14787327.7 (47) 26.07.2023 (87) US2014059032 16.04.2015
(54) DEVICE FOR DISPENSING AND / OR DISTRIBUTING A VOLUMETRIC FLOW OF WATER AND WATER SUPPLY SYSTEM	(72) CHANG, Han Kwon LIM, Kok Seng JANG, Hee Dong NIKOLOV, Jonian	(22) 03.10.2014 (54) PROCESS FOR TRANSFERRING A MATERIAL IN A SPECIFIC PATTERN ONTO A SUBSTRATE SURFACE
(73) Viega Technology GmbH & Co. KG (72) JAPES, Nico HENNES, Frank SCHULTE, Reinhard LOHRER, Andreas BEELE-GROBBEL, Simone KAISER, Cordula GÖRKE, Daniel ROTHSTEIN, Gerhard SCHULTE, Philipp LÖBBERT, Christine WERTHMANN, Kathrin KOLAREC, Daniel	(31) 2010902900 (32) 30.06.2010 (33) Australia	(73) Praxair S.T. Technology, Inc. (72) LEWIS, Thomas HUNT, Adam (31) 201361887756 P (32) 07.10.2013 (33) United States of America
(31) 202019106865 U (32) 10.12.2019 (33) Germany	(51) B05B 13/00 (11) EP3999248 (21) EP20739273.9 (47) 26.07.2023 (87) EP2020067277 28.01.2021	(51) B05D 7/14 B32B 15/085 C09D 143/04 C09D 183/00 C08L 23/14 B32B 27/28 B32B 27/32
(51) B05B 5/00 B05B 15/00 B05B 12/00	(72) ZWERENZ, Anja WELKEN, Aubrey ZIMMERMANN, Steffi ZEISSLER, Juliane	(11) EP3394182 (21) EP16822169.5 (47) 26.07.2023 (87) EP2016082383 29.06.2017 (22) 22.12.2016
(11) EP3930913 (21) EP20711050.3 (47) 26.07.2023 (87) EP2020055086 10.09.2020	(31) 102019119613 (32) 19.07.2019 (33) Germany	(54) MULTILAYER ASSEMBLY INCLUDING A COMPOSITE MATERIAL
(22) 27.02.2020 (54) REAR BOWL FOR A SPRAY GUN AND SPRAY GUN WITH SUCH A REAR BOWL	(51) B05B 13/04 B05B 15/65 B25J 15/04 B05B 5/04 (11) EP3774071 (21) EP19718098.7 (47) 26.07.2023 (87) EP2019058872 17.10.2019	(73) FINPROJECT S.P.A. (72) POLI, Riccardo Andrea CASALE, Antonello MALMASSARI, Clara (31) 15202001 (32) 22.12.2015 (33) European Patent Office (EPO)
(73) Gema Switzerland GmbH (72) TOBLER, Roger (31) 102019105244 (32) 01.03.2019 (33) Germany	(22) 09.04.2019 (54) RETAINING ASSEMBLY FOR AN ELECTROSTATIC ROTARY ATOMIZER	(51) B06B 1/06 (11) EP3787807 (21) EP19727737.9 (47) 26.07.2023 (87) IB2019053546 07.11.2019
(51) B05B 7/06 B05B 7/20 C23C 4/12 B01J 2/04 B01J 4/00 B82Y 30/00 C01G 45/02 C01G 49/02 C01G 51/04 C01G 53/04 C01B 13/34 C01G 1/02 C01G 5/00 C01G 9/02 C04B 35/626	(73) Oerter, Ulrich (72) Oerter, Ulrich (31) 102018108786 (32) 13.04.2018 (33) Germany	(22) 30.04.2019 (54) ULTRASOUND TRANSDUCER
	(51) B05B 15/555 (11) EP3801927 (21) EP19726022.7 (47) 26.07.2023 (87) EP2019063800 05.12.2019	(73) Vermon S.A. (72) DUMOUX, Marie-Coline VOISIN, David FLESCH, Martin NGUYEN-DINH, An FÉRIN, Guillaume LEGROS, Mathieu
	(22) 28.05.2019 (54) CLEANING CONTAINER FOR CLEANING VALVES OF SPRAY DOSING SYSTEMS AND	(31) 201862664605 P (32) 30.04.2018 (33) United States of America
		(51) B06B 1/06

A61B 8/00	MATSUSHIMA, Hideaki	(21) EP18704222.1
(11) EP3811872	(31) 2018019534	(47) 26.07.2023
(21) EP19204937.7	(32) 06.02.2018	(87) EP2018053095
(47) 26.07.2023	(33) Japan	15.08.2019
(22) 23.10.2019	(51) B08B 1/00	(22) 07.02.2018
(54) ULTRASOUND PROBE WITH IMPROVED THERMAL MANAGEMENT	(11) EP3922366	(54) METHOD FOR CONTROLLING A HIGH-PRESSURE CLEANING APPLIANCE AND HIGH-PRESSURE CLEANING APPLIANCE PARTICULARLY FOR CARRYING OUT THE METHOD
(73) Esaote S.p.A.	(21) EP21178866.6	(73) Alfred Kärcher SE & Co. KG
(72) Bertocci, Francesco	(47) 26.07.2023	(72) TRAUTWEIN, Kai
De Luca, Ramona	(22) 10.06.2021	WEISS, Jochen
Bassani, Michele	(54) CLEANING JIG	KIRCHDÖRFER, Rolf
(51) B07B 1/15	(73) Chroma ATE Inc.	
B07B 1/46	(72) LEE, Jih-Hsing	
(11) EP3996854	CHANG, Wen-Chuan	
(21) EP20760492.7	CHUANG, Ming-Ju	(51) B08B 15/02
(47) 26.07.2023	WANG, Yu-Kuang	(11) EP3825017
(87) FI2020050488	(31) 109119762	(21) EP19210187.1
21.01.2021	(32) 12.06.2020	(47) 26.07.2023
(22) 08.07.2020	(33) Taiwan, Chinese Taipei	(22) 19.11.2019
(54) SCREEN COMPRISING SCREEN MODULES	(51) B08B 1/00	(54) POWDER PROCESSING SYSTEM AND METHOD FOR DECONTAMINATING SUCH A PROCESSING SYSTEM
(73) Tana Oy	B08B 1/02	(73) Harro Höfliger Verpackungsmaschinen GmbH
(72) TUOVINEN, Eetu	B08B 1/04	(72) Rau, Oliver
RAUTAKOSKI, Kari	(11) EP3928881	Höpfer, Jonas
RUOTSALAINEN, Jarkko	(21) EP20205140.5	Jeschke, Michael
(31) 20195633	(47) 26.07.2023	Wurst, Reiner
(32) 12.07.2019	(22) 02.11.2020	Brugger, Bernhard
(33) Finland	(54) CLEANER APPARATUS FOR STEEL PLATE	
(51) B07B 1/15	(73) Takusyo Co., Ltd	
D21B 1/02	(72) Soemoto, Kazuhiko	(51) B09C 1/02
B27N 3/14	Uzawa, Hiroshi	B09C 1/08
(11) EP4010128	(31) 2020109808	B09C 1/10
(21) EP20771928.7	(32) 25.06.2020	B09C 1/00
(47) 26.07.2023	(33) Japan	(11) EP3505263
(87) IT2020050199	(51) B08B 1/00	(21) EP17846512.6
18.02.2021	B65G 1/02	(47) 26.07.2023
(22) 04.08.2020	B65G 1/04	(87) JP2017031015
(54) RING TO SELECT INCOHERENT MATERIAL AND CORRESPONDING SELECTOR MACHINE	B08B 7/00	08.03.2018
(73) Pal S.R.L.	(11) EP3643413	(22) 29.08.2017
(72) LIBRALATO, Michele	(21) EP19210402.4	(54) METHOD FOR SUBSURFACE SOIL PURIFICATION
(31) 201900014487	(47) 26.07.2023	(73) Takenaka Corporation
(32) 09.08.2019	(22) 31.01.2017	Takenaka Civil Engineering&Construction Co., Ltd.
(33) Italy	(54) CLEANING BIN FOR CLEANING A STORAGE GRID OF A STORAGE SYSTEM	(72) MAE, Koudai
(51) B07B 13/16	(73) Autostore Technology AS	SHIMIZU, Takaaki
(11) EP3799967	(72) HOGNALAND, Ingvar	MUKAI, Kazuhiro
(21) EP20194273.7	AUSTRHEIM, Trond	KIYOTOMO, Haruka
(47) 26.07.2023	FJELDHEIM, Ivar	TANABE, Kota
(22) 03.09.2020	(31) 20160143	NAKASHIMA, Tomohiro
(54) ROCK PROCESSING INSTALLATION	(32) 01.02.2016	OKUDA, Nobuyasu
(73) KLEEMANN GMBH	(33) Norway	FURUKAWA, Yasuhide
(72) RUDOLPH, Lars	(51) B08B 3/02	YAMAZAKI, Yuji
BLESSING, Otto	(11) EP3736054	HASEGAWA, Ai
BELOSEVIC, Vjecoslav	(21) EP20173573.5	INABA, Kaoru
(31) 102019126778	(47) 26.07.2023	FUNAKAWA, Masafumi
(32) 04.10.2019	(22) 07.05.2020	OMURA, Keisuke
(33) Germany	(54) DEVICE FOR WASHING A DECORATION CABINET	(31) 2016167232
(51) B07C 5/342	(73) Air Power Group S.p.A.	(32) 29.08.2016
(11) EP3718648	(72) GIGLIOLI, Ivano	(33) Japan
(21) EP18905564.3	(31) 201900006615	(51) B21B 17/14
(47) 26.07.2023	(32) 07.05.2019	(11) EP3793755
(87) JP2018046107	(33) Italy	(21) EP19723369.5
15.08.2019	(51) B08B 3/02	(47) 26.07.2023
(22) 14.12.2018	F04D 15/02	(87) EP2019061761
(54) OPTICAL SORTER	F04B 49/06	21.11.2019
(73) Satake Corporation	(11) EP3749466	(22) 08.05.2019
(72) KISHIMOTO, Kohei		

<p>(54) STRETCH-REDUCING MILL HAVING IMPROVED DIAMETER TOLERANCE AND WALL THICKNESS TOLERANCE</p> <p>(73) SMS Group GmbH</p> <p>(72) THIEVEN, Peter DÄHNDEL, Helge GOHR, Alexander ZELLER, Susanne THEELEN, Norbert</p> <p>(31) 102018207908</p> <p>(32) 18.05.2018</p> <p>(33) Germany</p> <hr/> <p>(51) B21B 31/10</p> <p>(11) EP3981520</p> <p>(21) EP21200745.4</p> <p>(47) 26.07.2023</p> <p>(22) 04.10.2021</p> <p>(54) ROLLING MILL FOR SOLID ELONGATED PRODUCTS</p> <p>(73) SMS group S.p.A.</p> <p>(72) MARIN, Paolo PACHER, Marcello TUZIO, Nicola Maria</p> <p>(31) 202000023752</p> <p>(32) 08.10.2020</p> <p>(33) Italy</p> <hr/> <p>(51) B21B 31/10 B21B 31/26</p> <p>(11) EP3981521</p> <p>(21) EP21200748.8</p> <p>(47) 26.07.2023</p> <p>(22) 04.10.2021</p> <p>(54) ROLLING MILL FOR SOLID ELONGATED PRODUCTS</p> <p>(73) SMS group S.p.A.</p> <p>(72) TUZIO, Nicola Maria MARIN, Paolo PACHER, Marcello</p> <p>(31) 202000023761</p> <p>(32) 08.10.2020</p> <p>(33) Italy</p> <hr/> <p>(51) B21C 3/02 B21C 3/04 B21C 3/12 B21C 3/14</p> <p>(11) EP3849722</p> <p>(21) EP19762819.1</p> <p>(47) 26.07.2023</p> <p>(87) EP2019073947 19.03.2020</p> <p>(22) 09.09.2019</p> <p>(54) DRAWING DIE WITH ASSOCIATED NIB HOLDER</p> <p>(73) NV Bekaert SA</p> <p>(72) COUSSENS, Tom HEYMAN, Koen</p> <p>(31) 18193620</p> <p>(32) 11.09.2018</p> <p>(33) European Patent Office (EPO)</p> <hr/> <p>(51) B21C 23/00 B21C 23/21 B21C 29/00 B21C 31/00</p> <p>(11) EP3912742</p> <p>(21) EP21178505.0</p> <p>(47) 26.07.2023</p> <p>(22) 01.06.2018</p>	<p>(54) EXTRUSION MACHINE AND METHOD FOR CHANGING A FRICTION WHEEL IN AN EXTRUSION MACHINE</p> <p>(73) ASMAG-Holding GmbH</p> <p>(72) HUBA, Mikola</p> <p>(31) 504692017</p> <p>(32) 02.06.2017</p> <p>(33) Austria</p> <hr/> <p>(51) B21C 47/04 B21C 47/14</p> <p>(11) EP3774104</p> <p>(21) EP19721061.0</p> <p>(47) 26.07.2023</p> <p>(87) IB2019052340 03.10.2019</p> <p>(22) 22.03.2019</p> <p>(54) COIL WINDING SYSTEM OF A HOT ROLLED PRODUCT AND METHOD OF COIL WINDING</p> <p>(73) SMS group S.p.A.</p> <p>(72) SANDRI, Matteo NARDUZZI, Lorenzo</p> <p>(31) 201800004134</p> <p>(32) 30.03.2018</p> <p>(33) Italy</p> <hr/> <p>(51) B21D 11/06 B21D 11/14 B21D 25/02 B21D 31/00 B21D 25/04</p> <p>(11) EP3429774</p> <p>(21) EP17765579.2</p> <p>(47) 26.07.2023</p> <p>(87) AU2017050236 21.09.2017</p> <p>(22) 17.03.2017</p> <p>(54) METHOD AND APPARATUS FOR FORMING A HELICAL TYPE FLIGHT</p> <p>(73) Robo Helix PTY Limited</p> <p>(72) SMAIR, Hayel</p> <p>(31) 2016901014</p> <p>(32) 18.03.2016</p> <p>(33) Australia</p> <hr/> <p>(51) B21D 19/08</p> <p>(11) EP3248704</p> <p>(21) EP16761787.7</p> <p>(47) 26.07.2023</p> <p>(87) JP2016057371 15.09.2016</p> <p>(22) 09.03.2016</p> <p>(54) FLANGING METHOD</p> <p>(73) Nippon Steel Corporation</p> <p>(72) MIKAZUKI, Yutaka OKAMOTO, Riki ISOGAI, Eiji</p> <p>(31) 2015048169</p> <p>(32) 11.03.2015</p> <p>(33) Japan</p> <hr/> <p>(51) B21D 22/02 B21D 37/02</p> <p>(11) EP3259081</p> <p>(21) EP16706245.4</p> <p>(47) 26.07.2023</p> <p>(87) GB2016050407 25.08.2016</p> <p>(22) 18.02.2016</p> <p>(54) A DIE MECHANISM, AN APPARATUS, AND A METHOD FOR SHAPING A</p>	<p>COMPONENT FOR CREEP-AGE FORMING</p> <p>(73) AVIC Beijing Aeronautical Manufacturing Technology Research Institute</p> <p>(72) LI, Zhiqiang HUANG, Xia SHI, Zhusheng LIN, Jianguo ZENG, Yuansong LAM, Aaron C. L.</p> <p>(31) 201502734</p> <p>(32) 18.02.2015</p> <p>(33) United Kingdom</p> <hr/> <p>(51) B21D 22/26 B21D 22/20 B21D 24/04 B21D 24/12 B21D 5/06 B21D 22/22 B21D 53/88</p> <p>(11) EP3476500</p> <p>(21) EP17820110.9</p> <p>(47) 26.07.2023</p> <p>(87) JP2017023450 04.01.2018</p> <p>(22) 26.06.2017</p> <p>(54) METHOD AND DEVICE FOR MANUFACTURING PRESSED COMPONENT</p> <p>(73) Nippon Steel Corporation</p> <p>(72) MIYAGI, Takashi YAMAMOTO, Shinobu IKEGAMI, Keita TANAKA, Yasuharu ASO, Toshimitsu OGAWA, Misao</p> <p>(31) 2016126247</p> <p>(32) 27.06.2016</p> <p>(33) Japan</p> <hr/> <p>(51) B21D 43/00 B65G 1/04 B65G 47/14 B65G 47/51</p> <p>(11) EP4021657</p> <p>(21) EP20767623.0</p> <p>(47) 26.07.2023</p> <p>(87) IT2020050207 04.03.2021</p> <p>(22) 20.08.2020</p> <p>(54) APPARATUS AND METHOD TO STORE BARS</p> <p>(73) M.E.P. Macchine Elettroniche Piegatrici S.p.A.</p> <p>(72) DEL FABRO, Giorgio</p> <p>(31) 201900015165</p> <p>(32) 28.08.2019</p> <p>(33) Italy</p> <hr/> <p>(51) B21D 51/26 B21D 22/28</p> <p>(11) EP3705199</p> <p>(21) EP20171146.2</p> <p>(47) 26.07.2023</p> <p>(22) 12.03.2014</p> <p>(54) OPERATING MECHANISM FOR A VERTICALLY ORIENTED BODYMAKER</p> <p>(73) Stolle Machinery Company, LLC</p> <p>(72) BLUE, Rodney A. FLEISCHER, Karl S.</p>
---	--	---

FOWLER, Tracy Jay	(87) EP2015001134	19.03.2020
(31) 201361777190 P	08.12.2016	(22) 12.09.2019
(32) 12.03.2013	(22) 03.06.2015	(54) METHOD FOR PRODUCING ULTRA-THIN HOT-ROLLED STRIP STEEL
(33) United States of America	(54) METHOD AND JOINING ELEMENT FOR JOINING AT LEAST TWO COMPONENTS BY MEANS OF A FLOWABLE RIVET SLEEVE	(73) BAOSHAN IRON & STEEL CO., LTD.
(51) B21F 1/00	(73) WS Wieländer + Schill Professionelle Karosserie- Spezialwerkzeuge GmbH & Co. KG	(72) FANG, Yuan
A44B 11/00	(72) GRIMALDI, Vincenzo	ZHANG, Jian
A44B 11/24	REITZIG, Klaus	WU, Jianchun
B21F 45/00	(31) 201811075997	(32) 14.09.2018
A44B 11/02	(33) China	(33) China
B21F 45/16	(51) B22D 15/02	
B65D 63/16	F02F 1/24	
(11) EP3858513	B33Y 80/00	
(21) EP21154070.3	B22F 10/85	
(47) 26.07.2023	B22F 10/64	
(22) 28.01.2021	B22F 7/08	
(54) A STRAP BUCKLE AND A METHOD FOR MANUFACTURING SUCH A STRAP BUCKLE	B22F 5/00	
(73) Blok's Draadvorm Fabriek B.V.	B33Y 10/00	
(72) Blok, Johannes Philippus	B22D 21/04	
(31) 2024780	B22D 17/00	
(32) 28.01.2020	(11) EP3925718	
(33) Netherlands	(21) EP21179785.7	
(51) B21H 5/02	(47) 26.07.2023	
B21D 53/28	(22) 16.06.2021	
(11) EP3752302	(54) METHOD FOR THE PRODUCTION OF A CYLINDER HEAD FOR AN INTERNAL COMBUSTION ENGINE	
(21) EP19705746.6	(73) FERRARI S.p.A.	
(47) 26.07.2023	(72) PINESCHI, Federico	
(87) EP2019053712	PINNA, Franco	
22.08.2019	LUCCHETTI, Daniele	
(22) 14.02.2019	BONGIORNI, Lorenzo	
(54) METHOD AND DEVICE FOR PRODUCING THIN-WALLED RING GEARS HAVING INNER AND OUTER TOOTHING	RICCI, Marco	
(73) Ernst Grob AG	(31) 202000014458	
(72) RUH, Fabian	(32) 17.06.2020	
(31) 1932018	(33) Italy	
(32) 16.02.2018	(51) B22D 17/20	
(33) Switzerland	B22D 17/22	
(51) B21J 1/06	B22D 17/32	
B21J 5/12	(11) EP3789134	
B21K 1/76	(21) EP19195621.8	
F16D 3/16	(47) 26.07.2023	
(11) EP4103341	(22) 05.09.2019	
(21) EP21727408.3	(54) SQUEEZING CAST METAL VIA WEDGE MECHANISM	
(47) 26.07.2023	(73) Nemak, S.A.B. de C.V.	
(87) EP2021062952	(72) Nabelski, Bartlomiej	
02.12.2021	(51) B22F 1/00	
(22) 17.05.2021	B22F 3/00	
(54) METHOD FOR PRODUCING A JOINTED SHAFT COMPONENT, METHOD FOR PRODUCING A JOINTED SHAFT, AND JOINTED SHAFT COMPONENT PRODUCED BY SUCH A METHOD	B22F 7/06	
(73) Hirschvogel Umformtechnik GmbH	B29C 64/153	
(72) BAUR, Ulrich	B29C 64/165	
WEINDL, Matthias	B22F 1/102	
LUBE, Stefan	B22F 10/28	
(31) 102020114495	B22F 10/34	
(32) 29.05.2020	B33Y 10/00	
(33) Germany	B33Y 70/10	
(51) B21J 15/04	B22F 9/24	
F16B 19/10	(11) EP3388169	
(11) EP3302848	(21) EP17382197.6	
(21) EP15737975.1	(47) 26.07.2023	
(47) 26.07.2023	(22) 11.04.2017	
	(54) A METHOD AND A SYSTEM FOR PRODUCING A THREE-DIMENSIONAL OBJECT	
	(73) Fundació Institut de Ciències Fotòniques	

Institució Catalana De Recerca I Estudis Avançats (ICREA)	(31) 2020064977 (32) 31.03.2020	B23C 5/22 (11) EP3338926
(72) WANG, Jianjun	(33) Japan	(21) EP16206346.5
QUIDANT, Romain	(51) B23B 27/14	(47) 26.07.2023
KONSTANTATOS, Gerasimos	(11) EP3145663	(22) 22.12.2016
POWELL, Alexander	(21) EP15753488.4	(54) CUTTING INSERT AND SHOULDER MILLING TOOL
STAVRINADIS, Alexandros	(47) 26.07.2023	(73) Sandvik Intellectual Property AB
(51) B22F 3/10	(87) IL2015050471	(72) ERIKSSON, Thomas
B22F 3/22	26.11.2015	JANSSON UDD, Jörgen
B22F 5/00	(22) 05.05.2015	(51) B23C 5/06
B22F 5/04	(54) CUTTING INSERT WITH CHIP- CONTROL ARRANGEMENT	B23C 5/22
B22F 7/06	(73) ISCAR Ltd.	B23C 5/20
F01D 5/00	(72) KRISHTUL, Roman	(11) EP3338927
F01D 9/04	(31) 201414282214	(21) EP16206364.8
(11) EP3980207	(32) 20.05.2014	(47) 26.07.2023
(21) EP20742800.4	(33) United States of America	(22) 22.12.2016
(47) 26.07.2023	(51) B23B 31/11	(54) CUTTING INSERT AND SHOULDER MILLING TOOL
(87) FR2020050966	B23C 5/10	(73) Sandvik Intellectual Property AB
10.12.2020	B23C 5/26	(72) ERIKSSON, Thomas
(22) 07.06.2020	(11) EP2812142	JANSSON UDD, Jörgen
(54) METHOD FOR MANUFACTURING A TURBOMACHINE PART BY MIM MOLDING	(21) EP13702395.8	(51) B23C 5/10
(73) SAFRAN AIRCRAFT ENGINES	(47) 26.07.2023	(11) EP3194101
(72) GRALL, Terence	(87) EP2013051243	(21) EP15794311.9
SISTACH, Hugo	15.08.2013	(47) 26.07.2023
COLAS, Cédric, Pierre, Jacques	(22) 23.01.2013	(87) IL2015050810
(31) 1906075	(54) SCREWDRIVING TOOL AND TOOL HOLDER FOR SUCH A SCREWDRIVING TOOL	24.03.2016
(32) 07.06.2019	(73) Franz Haimer Maschinenbau KG	(22) 09.08.2015
(33) France	(72) HAIMER, Franz	(54) END MILL WITH CONVEX RADIAL RELIEF SURFACE AND CORNER HAVING CIRCULAR ARC PROFILE
(51) B22F 3/105	(31) 102012100976	(73) ISCAR Ltd.
B22F 5/00	(32) 07.02.2012	(72) SHPIGELMAN, Leonid
F02F 1/00	(33) Germany	(31) 201414486118
(11) EP3873691	(51) B23B 51/00	(32) 15.09.2014
(21) EP19805843.0	B23D 77/00	(33) United States of America
(47) 26.07.2023	(11) EP3300824	(51) B23C 5/10
(87) US2019058639	(21) EP16830527.4	(11) EP3592490
07.05.2020	(47) 26.07.2023	(21) EP18707437.2
(22) 29.10.2019	(87) JP2016071902	(47) 26.07.2023
(54) THERMALLY ENHANCED EXHAUST PORT LINER	02.02.2017	(87) IL2018050137
(73) Cartridge Limited	(22) 26.07.2016	13.09.2018
(72) STEINBRONN, Andreas	(54) CUTTING TOOL REPLACEMENT MEMBER AND CUTTING TOOL BODY	(22) 07.02.2018
KLOSS, Joachim	(73) Tungalay Corporation	(54) CERAMIC FACE MILL WITH CIRCULAR ARC PROFILE FOR MACHINING INCONEL
(31) 201862751914 P	(72) SAJI, Ryuichi	(73) Iscar Ltd.
(32) 29.10.2018	SHIOTA, Yusuke	(72) BUDDA, Eliyahu
(33) United States of America	(31) 2015147307	(31) 201715451873
(51) B22F 10/14	(32) 27.07.2015	(32) 07.03.2017
B22F 10/38	(33) Japan	(33) United States of America
B29C 64/165	(51) B23B 51/08	(51) B23C 5/10
B29C 64/321	B23C 3/30	(11) EP3233340
B29C 64/343	B23C 5/10	(21) EP14833599.5
B29C 64/393	B23D 67/06	(47) 26.07.2023
B33Y 10/00	E05B 17/00	(87) IL2014051094
B33Y 50/02	(11) EP3791981	23.06.2016
B33Y 40/00	(21) EP20194036.8	(22) 15.12.2014
B33Y 30/00	(47) 26.07.2023	(54) ROTARY CUTTING TOOL HAVING A PREDETERMINED NUMBER OF LEFT AND RIGHT HANDED HELICAL FLUTES AND END FACE CUTTING TEETH
(11) EP3888824	(22) 02.09.2020	(73) Iscar Ltd.
(21) EP21165948.7	(54) BURR AND METHOD	(72) SEGAL, Igor
(47) 26.07.2023	(73) Souber Tools Limited	SHPIGELMAN, Leonid
(22) 30.03.2021	(72) Souber, Paul Mark	
(54) FABRICATING APPARATUS AND FABRICATING METHOD	(31) 201913005	
(73) Ricoh Company, Ltd.	(32) 10.09.2019	
(72) HASHIMOTO, Kenichiroh	(33) United Kingdom	
NAGATOMO, Yuji	(51) B23C 5/06	
NISHIO, Takuei	B23C 5/20	
TAKAGI, Hisataka		

(51) B23C 5/16 B23C 5/10	SUCH A TRANSVERSAL TABLE, AND METHOD FOR CONTROLLING A WOODWORKING MACHINE	MATSUYAMA, Kazuya FUKAYA, Yoshiyuki
(11) EP3743234	(73) Altendorf GmbH	(51) B23K 9/00
(21) EP19701319.6	(72) SCHRÖDER, Karl-Friedrich	B23K 9/23
(47) 26.07.2023	RUCHATZ, Jürgen	B23K 11/00
(87) EP2019051081 01.08.2019	VEHLING, Andreas	B23K 11/16
(22) 16.01.2019	(31) 202019102750 U	B23K 26/21
(54) MILLING TOOL	(32) 16.05.2019	B23K 26/32
(73) MAPAL Fabrik für Präzisionswerkzeuge Dr. Kress KG	(33) Germany	B23K 33/00
(72) FRONIUS, Jürgen	(51) B23D 55/08	B23K 101/00
(31) 102018201195	B23D 55/00	B23K 101/18
(32) 25.01.2018	B23D 59/04	B23K 103/04
(33) Germany	B27B 13/12	B62D 25/04
(51) B23C 5/24	B27B 13/16	B62D 25/06
(11) EP3595837	B23Q 11/10	B62D 25/20
(21) EP18714615.4	(11) EP3159089	B23K 11/11
(47) 26.07.2023	(21) EP15810276.4	B62D 21/15
(87) IL2018050185 20.09.2018	(47) 26.07.2023	B62D 25/02
(22) 19.02.2018	(87) JP2015066473 23.12.2015	B62D 29/00
(54) TOOL HOLDER HAVING POSITION ADJUSTMENT ARRANGEMENT AND CUTTING TOOL	(22) 08.06.2015	(11) EP3766762
(73) Iscar Ltd.	(54) ANTI-VIBRATION METHOD OF A BAND SAW BLADE IN A BAND SAW MACHINE AND BAND SAW MACHINE COMPRISING AN ANTI-VIBRATION ARRANGEMENT FOR A BAND SAW BLADE	(21) EP19880201.9
(72) ZETTLER, Martin	(73) Amada Machinery Co., Ltd. Amada Co., Ltd.	(47) 26.07.2023
(31) 201715460413	(72) KITAI, Masataka	(87) JP2019042630 07.05.2020
(32) 16.03.2017	(31) 2014126145	(22) 30.10.2019
(33) United States of America	(32) 19.06.2014	(54) AUTOMOBILE FRAME MEMBER
(51) B23D 45/00	(33) Japan	(73) NIPPON STEEL CORPORATION
B23D 45/12	(51) B23K 1/00	(72) FUJIMOTO, Hiroki
B23D 45/26	B23P 6/00	ITO, Yasuhiro
B23D 47/04	F01D 5/00	(31) 2018205025
B25J 11/00	(11) EP3848142	(32) 31.10.2018
(11) EP3984673	(21) EP20216762.3	(33) Japan
(21) EP21203193.4	(47) 26.07.2023	(51) B23K 9/10
(47) 26.07.2023	(22) 22.12.2020	B23K 9/32
(22) 18.10.2021	(54) SUPERALLOY PART AND METHOD OF PROCESSING	H05K 5/00
(54) DEVICE FOR CUTTING PIPES IN A BUNDLE WITHOUT ADDITIONAL CLAMPING	(73) General Electric Company	H05K 7/14
(73) Vuje, A.S.	(72) LAYLOCK, Matthew Joseph	(11) EP3898054
Technická Univerzita V Kosiciach	TOLLISON, Brian Lee	(21) EP19838966.0
(72) Stubna, Marián	ARNETT, Michael Douglas	(47) 26.07.2023
Varga, Jozef	BREZNAK, Jeffrey Michael	(87) IB2019061168 25.06.2020
Vargovčík, Ladislav	CUI, Yan	(22) 20.12.2019
Kravárik, Kamil	(31) 202016737469	(54) A WELDING SYSTEM OF THE MODULAR TYPE
Ondra, Frantisek	(32) 08.01.2020	(73) Shenzhen Jasic Technology Co., Ltd.
Semjon, Ján	(33) United States of America	JASIC TECHNOLOGY EUROPE S.R.L.
Maláková, Silvia	(51) B23K 3/00	(72) TERZO, Maurizio
(31) 501102020 U	B23K 1/00	CORTELAZZO, Enrico
(32) 19.10.2020	H05K 3/34	PAN, Lei
(33) Slovakia	B05C 11/04	(31) 201800020563
(51) B23D 47/02	H05K 3/32	(32) 20.12.2018
B27B 5/22	B05C 5/00	(33) Italy
B27B 27/08	B05C 5/02	(51) B23K 11/24
B27B 27/10	(11) EP3415259	H02M 7/00
B23D 59/00	(21) EP16889779.1	(11) EP3718673
(11) EP3969217	(47) 26.07.2023	(21) EP20160828.8
(21) EP20726098.5	(87) JP2016053690 17.08.2017	(47) 26.07.2023
(47) 26.07.2023	(22) 08.02.2016	(22) 04.03.2020
(87) EP2020063487 19.11.2020	(54) VISCOUS FLUID SUPPLY DEVICE	(54) RECTIFIER FOR A WELDING TRANSFORMER OF A WELDING DEVICE AND METHOD FOR MANUFACTURING SUCH A RECTIFIER
(22) 14.05.2020	(73) Fuji Corporation	(73) Robert Bosch GmbH
(54) TRANSVERSAL TABLE FOR A WOODWORKING MACHINE AND WOODWORKING MACHINE HAVING	(72) MURASE, Tadashi	(72) Brohm, Maximilian
		Thaens, Carmen
		Herr, Alexander
		Solar, Anton
		(31) 102019204788

(32) 04.04.2019	(47) 26.07.2023	C22C 19/07
(33) Germany	(22) 07.02.2018	C22C 27/04
(51) B23K 26/03	(54) METHOD FOR PRODUCING A 3D	C22C 49/14
B23K 26/22	STRUCTURE BY MEANS OF LASER	B23K 101/00
B23K 33/00	LITHOGRAPHY WITH ALTERED	C22C 49/08
B23K 26/60	EXPOSURE DOSE AT EDGE	(11) EP3363580
H01M 50/536	SECTIONS, AND CORRESPONDING	(21) EP18155256.3
H01M 50/54	COMPUTER PROGRAM PRODUCT	(47) 26.07.2023
B23K 35/02	(73) Nanoscribe Holding GmbH	(22) 06.02.2018
B23K 101/36	(72) Tanguy, Yann	(54) NOVEL WELD FILLER METAL
B23K 103/10	Lindenmann, Nicole	(73) General Electric Company
B23K 103/16	(31) 102017110241	(72) KOTTILINGAM, Srikanth Chandrudu
(11) EP3417984	(32) 11.05.2017	CUI, Yan
(21) EP18171901.4	(33) Germany	TOLLISON, Brian Lee
(47) 26.07.2023	(51) B23K 26/08	(31) 201715438136
(22) 11.05.2018	B22F 3/105	(32) 21.02.2017
(54) METHOD OF WELDING LAMINATED	B33Y 10/00	(33) United States of America
METAL FOILS	B33Y 30/00	(51) B23K 101/38
(73) Toyota Jidosha Kabushiki Kaisha	B23K 26/342	H01M 50/147
(72) UCHIDA, Keisuke	B29C 64/153	H01M 50/179
SHIBATA, Yoshinori	B23K 26/073	H01M 50/531
TATEYAMA, Nozomi	(11) EP3446824	H01M 50/574
OHASHI, Fuminori	(21) EP18188239.0	H01M 10/04
KOBAYASHI, Hiroomi	(47) 26.07.2023	(11) EP3518309
KOIKE, Masaki	(22) 09.08.2018	(21) EP18846535.5
(31) 2017120723	(54) LASER PROCESSING	(47) 26.07.2023
(32) 20.06.2017	(73) Renishaw PLC	(87) KR2018009279
(33) Japan	(72) Thomson, Ian James	21.02.2019
(51) B23K 26/04	(31) 201712739	(22) 13.08.2018
B23K 26/046	(32) 09.08.2017	(54) PRESSURIZING MASK AND METHOD
B23K 26/06	(33) United Kingdom	FOR JOINING TOP CAP ASSEMBLY
B23K 26/0622	(51) B23K 26/211	AND ELECTRODE TAB BY USING
B23K 26/073	B23K 26/32	PRESSURIZING MASK
B23K 26/08	B23K 35/22	(73) LG Energy Solution, Ltd.
B23K 26/12	B23K 103/04	(72) LEE, Je Jun
B23K 26/21	B23K 101/16	JO, Minki
B23K 26/14	B23K 101/18	DO, Jin Uk
B23K 26/144	(11) EP4076829	JUNG, Sang Sok
B23K 26/32	(21) EP20838946.0	(31) 20170103196
B23K 26/34	(47) 26.07.2023	(32) 14.08.2017
B23K 26/36	(87) EP2020086929	(33) Korea (Republic)
B23K 26/364	24.06.2021	(51) B23P 6/00
B23K 101/00	(22) 18.12.2020	B23P 6/04
B23K 103/08	(54) BUTT JOINT DEEP PENETRATION	B23K 20/02
F01D 5/28	LASER WELDING METHOD	B23K 26/32
(11) EP3049212	(73) SMS Group GmbH	B23K 26/34
(21) EP14849125.1	(72) DORNSCHEIDT, Christian	B23K 35/00
(47) 26.07.2023	KÜMMEL, Lutz	B23K 35/02
(87) US2014057186	ARTEL, Jens	B23K 9/04
02.04.2015	SEEGERS, Sebastian	F01D 5/00
(22) 24.09.2014	SZONN, Jens	B23K 101/00
(54) LASER PROCESSING METHOD,	(31) 102020216163	B23K 103/14
LASER PROCESSING SYSTEM	102019220471	B23K 103/18
AND OPTICAL HEAD CAPABLE OF	(32) 17.12.2020	(11) EP2674243
DITHERING	20.12.2019	(21) EP13171405.7
(73) IPG Photonics Corporation	(33) Germany	(47) 26.07.2023
(72) SQUIRES, David	Germany	(22) 11.06.2013
AMAR, Ben	(51) B23K 35/02	(54) METHOD FOR REPAIRING METALLIC
DALLAROSA, Joseph Leo	C22C 32/00	ARTICLES
(31) 201361881666 P	C22C 19/00	(73) General Electric Company
(32) 24.09.2013	B23K 1/19	(72) Li, Yanmin
(33) United States of America	B23K 1/00	Peng, Zhixue
(51) B23K 26/06	B23K 35/40	Wu, Zhiwei
B23K 26/342	B23K 35/30	Oconnell, Matthew James
B23K 26/082	B23K 9/167	Liu, Yong
B33Y 10/00	B23K 35/36	(31) 201210195082
(11) EP3970900	C22C 1/10	(32) 13.06.2012
(21) EP21202455.8	C22C 19/05	(33) China

- | | | |
|--------------------------------------|--------------------------------------|-----------------------------------|
| (51) B23P 11/00 | B23Q 11/00 | B25J 19/02 |
| B21D 39/00 | (11) EP3548221 | A61B 34/30 |
| F16C 19/38 | (21) EP17812075.4 | (11) EP2600788 |
| F16C 33/64 | (47) 26.07.2023 | (21) EP11815194.3 |
| F16C 35/063 | (87) IB2017057381 | (47) 26.07.2023 |
| F16C 43/04 | 07.06.2018 | (87) US2011046268 |
| B60B 35/02 | (22) 24.11.2017 | 09.02.2012 |
| B60B 27/00 | (54) A SYSTEM FOR MOVING A TOOL IN A | (22) 02.08.2011 |
| F16C 19/18 | MACHINE TOOL | (54) TOOL EXCHANGE INTERFACE |
| (11) EP3854499 | (73) Mandelli S.R.L. | AND CONTROL ALGORITHM FOR |
| (21) EP20752300.2 | (72) GELLINI, Saverio | COOPERATIVE SURGICAL ROBOTS |
| (47) 26.07.2023 | (31) 201600122301 | (73) The Johns Hopkins University |
| (87) JP2020004339 | (32) 01.12.2016 | (72) TAYLOR, Russell H. |
| 13.08.2020 | (33) Italy | HANDA, James Tahara |
| (22) 05.02.2020 | (51) B23Q 1/76 | BALICKI, Marcin Arkadiusz |
| (54) STAKED ASSEMBLY AND METHOD | B23B 7/06 | (31) 370027 P |
| FOR MANUFACTURING SAME | (11) EP3513905 | (32) 02.08.2010 |
| (73) NSK Ltd. | (21) EP18152652.6 | (33) United States of America |
| (72) RYU, Sonji | (47) 26.07.2023 | (51) B23Q 7/14 |
| HAGIWARA, Nobuyuki | (22) 19.01.2018 | G01G 19/03 |
| (31) 2019018459 | (54) SPINDLE APPARATUS FOR USE IN | (11) EP3733342 |
| (32) 05.02.2019 | MACHINE TOOL, IN PARTICULAR A | (21) EP20171889.7 |
| (33) Japan | LATHE, AND MACHINE TOOL WITH | (47) 26.07.2023 |
| (51) B23P 15/04 | SUCH SPINDLE APPARATUS | (22) 28.04.2020 |
| C23C 8/30 | (73) Gildemeister Italiana S.r.l. | (54) TRANSPORT INSTALLATION |
| F01D 5/14 | (72) Ginami, Valter | (73) WIPOTEC GmbH |
| B21K 3/04 | Passerini, Mirko | (72) Clößner, Stephan |
| C23C 8/02 | (51) B23Q 3/06 | Joachim, Matthias |
| C23C 8/36 | B25B 1/00 | Eckhardt, Christoph |
| C23C 8/80 | B23Q 17/00 | Gerlach, Jochen |
| F01D 5/28 | F15B 15/28 | Schulzki, Alexander |
| F04D 29/02 | (11) EP3735335 | (31) 202019102508 U |
| F04D 29/32 | (21) EP19702119.9 | (32) 03.05.2019 |
| (11) EP3990214 | (47) 26.07.2023 | (33) Germany |
| (21) EP20785778.0 | (87) IB2019050020 | (51) B23Q 17/09 |
| (47) 26.07.2023 | 11.07.2019 | B23Q 17/24 |
| (87) FR2020051060 | (22) 02.01.2019 | G05B 19/4065 |
| 30.12.2020 | (54) WORKPIECE HOLDER FOR MACHINE | (11) EP3914975 |
| (22) 18.06.2020 | TOOLS AND MACHINING CENTERS, | (21) EP20707313.1 |
| (54) CORE FOR HIGH-TEMPERATURE | PROVIDED WITH A SYSTEM FOR | (47) 26.07.2023 |
| SHAPING OF A METAL PART AND | DETECTING THE POSITION OF THE | (87) IB2020050566 |
| MANUFACTURING, REGENERATION | CLAWS | 30.07.2020 |
| AND SHAPING PROCESS | (73) Bronzino, Walter | (22) 24.01.2020 |
| (73) SAFRAN AIRCRAFT ENGINES | Bronzino, Pier Mauro | (54) AUTOMATIC SYSTEM FOR BLADE |
| (72) KLEIN, Gilles, Charles, Casimir | (72) Bronzino, Walter | INSPECTION |
| MAGNAUDEIX, Dominique, Michel, | Bronzino, Pier Mauro | (73) Faspar S.p.A. |
| Serge | (31) 201800000538 | (72) GRASSI, Alessandro |
| (31) 1907190 | (32) 04.01.2018 | AIME, Paolo Ottavio |
| (32) 28.06.2019 | (33) Italy | AIME, Maddalena Lucia |
| (33) France | (51) B23Q 3/12 | (31) 201900001053 |
| (51) B23Q 1/00 | B23B 31/26 | (32) 24.01.2019 |
| B23Q 3/06 | B23Q 11/00 | (33) Italy |
| (11) EP3546117 | B23C 5/26 | (51) B24B 5/44 |
| (21) EP19163490.6 | (11) EP3720651 | B24B 27/00 |
| (47) 26.07.2023 | (21) EP18836450.9 | B24B 41/06 |
| (22) 18.03.2019 | (47) 26.07.2023 | B24B 9/04 |
| (54) CLAMPING UNIT IN PARTICULAR | (87) AT2018060282 | B23B 5/00 |
| ZERO POINT CLAMPING UNIT | 13.06.2019 | (11) EP3650172 |
| (73) Heinz-Dieter Schunk GmbH & Co. | (22) 04.12.2018 | (21) EP19205974.9 |
| Spanntechnik KG | (54) MACHINE TOOL AND MACHINING | (47) 26.07.2023 |
| (72) Kleiner, Markus | TOOL THEREFOR | (22) 29.10.2019 |
| Schröder, Philipp | (73) Fill Gesellschaft m.b.H. | (54) MACHINED WHEEL POST- |
| (31) 102018107659 | (72) DALLINGER, Friedrich | PROCESSING EQUIPMENT |
| (32) 29.03.2018 | (31) 510032017 | (73) CITIC Dicastal Co., Ltd. |
| (33) Germany | (32) 05.12.2017 | (72) LI, Chong |
| (51) B23Q 1/28 | (33) Austria | LIU, Huiying |
| B23Q 16/10 | (51) B23Q 3/155 | (31) 201811338166 |
| F16D 63/00 | B25J 15/04 | (32) 12.11.2018 |

(33) China	(47) 26.07.2023	(22) 19.09.2018
(51) B24B 9/00	(87) IB2017054524	(54) DIAPHRAGM COUPLING TOOLS
(11) EP4026655	01.02.2018	(73) Goodrich Corporation
(21) EP22150142.2	(22) 26.07.2017	(72) REED, Brayton Paul
(47) 26.07.2023	(54) MODULAR APPARATUS AND METHOD	(31) 201715710130
(22) 04.01.2022	FOR MACHINING FLAT SHEETS	(32) 20.09.2017
(54) METHOD FOR MEASURING	(73) Elettromeccanica Bovone S.r.l.	(33) United States of America
OPERATING PARAMETERS OF	(72) BOVONE, Vittorio	(51) B25B 5/14
A MACHINING OF A SURFACE	(31) 201600079005	B23Q 3/06
AND A DEVICE FOR MEASURING	(32) 27.07.2016	(11) EP3415278
OPERATING PARAMETERS	(33) Italy	(21) EP18175457.3
(73) S.I.T. Societa' Italiana TecnoSpazzole	(51) B24B 37/04	(47) 26.07.2023
S.p.A.	B24B 49/10	(22) 01.06.2018
(72) TIZI, Giulia	B24B 49/14	(54) DEVICE FOR HOLDING BY MEANS OF
CHEMSEDDINE, Allioua	H01L 21/67	A PLURALITY OF STACKED PLATES
CHECCHI, Alessandro	B24B 7/16	(73) IJSPEERT Innovative Technologies
ACQUADERNI, Alessandro	(11) EP3854524	(72) IJSPEERT, Albert Jan
NAVARRA, Giuliana	(21) EP21161455.7	(31) 1755369
MICHELI, Gianluca	(47) 26.07.2023	(32) 14.06.2017
LONGHIN, Jessica	(22) 31.07.2019	(33) France
ZERBINI, Federica	(54) GRINDING SYSTEM COMPRISING A	(51) B25B 13/48
ACQUISTI, Manuel	GRINDER AND A GRINDING WHEEL	F16B 35/00
(31) 202100000488	AND METHOD TO EXCHANGE	B25B 23/14
(32) 12.01.2021	INFORMATION BETWEEN GRINDER	B25B 21/00
(33) Italy	AND GRINDING WHEEL	B25B 23/00
(51) B24B 9/08	(73) Mole Abrasivi Ermoli S.r.l.	F16B 35/04
G01B 11/27	(72) CAMPO, Antonino	(11) EP3831532
B24B 7/24	(31) 201800008047	(21) EP19214283.4
G02F 1/295	(32) 10.08.2018	(47) 26.07.2023
G01B 11/26	(33) Italy	(22) 06.12.2019
G02B 6/12	(51) B24B 45/00	(54) A SHEAR WRENCH TOOL
B24B 13/015	B24B 23/02	(73) Black & Decker Inc.
(11) EP4041491	B24D 7/06	(72) Gottschling, Rafael
(21) EP20894001.5	B23D 45/00	Oeffner, Isabell
(47) 26.07.2023	(11) EP3700710	Sell, Stefan
(87) IL2020051189	(21) EP18783530.1	Libera, Philipp
03.06.2021	(47) 26.07.2023	Kunz, Michael
(22) 17.11.2020	(87) EP2018078225	(51) B25C 1/00
(54) METHOD OF POLISHING A SURFACE	02.05.2019	B25C 1/04
OF A WAVEGUIDE	(22) 16.10.2018	(11) EP3552767
(73) Lumus Ltd.	(54) TENSIONING DEVICE AND HANDHELD	(21) EP19165332.8
(72) DANZIGER, Yochay	MACHINE TOOL	(47) 26.07.2023
LEVIN, Naamah	(73) Hilti Aktiengesellschaft	(22) 26.03.2019
MAZIEL, Amit	(72) GROTH, Karin	(54) PNEUMATIC FASTENER DRIVER
LOBACHINSKY, Lilya	BLATZ, Thomas	(73) Techtronic Cordless GP
(31) 201962939708 P	(31) 17198870	(72) KNIGHT, Tyler
(32) 25.11.2019	(32) 27.10.2017	CONNER, Matthew W.
(33) United States of America	(33) European Patent Office (EPO)	SADKOWSKI, William E.
(51) B24B 23/06	(51) B24D 15/08	MOODY, Miles R.
B24B 55/02	(11) EP3684548	CHEATHAM, Reid
(11) EP3785848	(21) EP18822001.6	MOYLAN, Justin
(21) EP19792609.0	(47) 26.07.2023	JENKINS, Luke J.
(47) 26.07.2023	(87) EP2018000535	(31) 201862667898 P
(87) JP2019013541	27.06.2019	201862648086 P
31.10.2019	(22) 26.11.2018	(32) 07.05.2018
(22) 28.03.2019	(54) KNIFE SHARPENING DEVICE	26.03.2018
(54) BELT TYPE GRINDING TOOL	(73) Zwilling J. A. Henckels AG	(33) United States of America
(73) Nitto Kohki Co., Ltd.	(72) MADER, Sebastian	United States of America
(72) SUZUKI, Yasumasa	(31) 102017011680	(51) B25D 11/06
(31) 2018086634	(32) 18.12.2017	A61F 2/46
(32) 27.04.2018	(33) Germany	A61B 17/92
(33) Japan	(51) B25B 5/04	(11) EP3356088
(51) B24B 27/00	B25B 5/10	(21) EP17709895.1
B24B 9/02	B25B 5/14	(47) 26.07.2023
B24B 9/06	B25B 27/28	(87) US2017020218
B24B 9/10	(11) EP3459680	08.03.2018
(11) EP3490754	(21) EP18195411.6	(22) 01.03.2017
(21) EP17765481.1	(47) 26.07.2023	

(54) ORTHOPEDIC DEVICE DELIVERING A CONTROLLED, REPEATABLE IMPACT	(33) France	(31) 102020127201
(73) DePuy Synthes Products, Inc.	(51) B25F 5/02	(32) 15.10.2020
(72) PEDICINI, Christopher	(11) EP3772393	(33) Germany
(31) 201715439692	(21) EP20190312.7	(51) B25J 9/00
201662393975 P	(47) 26.07.2023	B25J 13/08
201662381864 P	(22) 10.08.2020	B25J 19/02
PCT/US2017/018921	(54) BATTERY PACK	B25J 9/16
(32) 22.02.2017	(73) Techtronic Cordless GP	B25J 15/00
13.09.2016	(72) Altenburger, Ryan	B25H 1/16
31.08.2016	(31) 201916536417	(11) EP3998139
22.02.2017	(32) 09.08.2019	(21) EP21214704.5
(33) United States of America	(33) United States of America	(47) 26.07.2023
United States of America	(51) B25F 5/02	(22) 18.06.2019
United States of America	B24B 45/00	(54) WORKBENCH SYSTEM
World Intellectual Property Office (WIPO)	B25F 5/00	(73) BAE SYSTEMS plc
(51) B25F 5/00	B27B 5/32	(72) KNOTT, Martin
B23Q 11/00	B24B 23/02	HOLMES, David Samuel John
B27G 19/00	(11) EP3529003	MIDDLETON, Daniel James
B27G 21/00	(21) EP17778277.8	(31) 201810008
(11) EP3993955	(47) 26.07.2023	18178474
(21) EP20737624.5	(87) EP2017075114	(32) 19.06.2018
(47) 26.07.2023	26.04.2018	19.06.2018
(87) SE2020050679	(22) 04.10.2017	(33) United Kingdom
07.01.2021	(54) QUICK CLAMPING DEVICE FOR	European Patent Office (EPO)
(22) 29.06.2020	A PORTABLE MACHINE TOOL, IN	(51) B25J 9/08
(54) POWER TOOL OPERATOR	PARTICULAR AN ANGLE GRINDER,	B25J 19/00
PROTECTION SYSTEM AND METHOD	COMPRISING AT LEAST ONE OUTPUT	G02B 6/36
(73) HUSQVARNA AB	SHAFT THAT CAN BE ROTATABLY	(11) EP4142987
(72) HAGBERG, Albin	DRIVEN	(21) EP21731765.0
(31) 1950847	(73) Robert Bosch GmbH	(47) 26.07.2023
(32) 04.07.2019	(72) ZURBRUEGG, Andreas	(87) EP2021065422
(33) Sweden	(31) 102016220367	16.12.2021
(51) B25F 5/00	(32) 18.10.2016	(22) 09.06.2021
B24B 23/02	(33) Germany	(54) ARM MODULE FOR A MODULAR
B24B 55/10	(51) B25H 1/00	ROBOTIC ARM OF AN INDUSTRIAL
B25F 5/02	B62K 11/00	ROBOT
(11) EP3519140	E21D 20/00	(73) Beckhoff Automation GmbH
(21) EP17767791.1	B25D 17/32	(72) ZECH, Christoph
(47) 26.07.2023	B60L 15/20	KASTLER, Peter
(87) EP2017072689	B60L 50/50	MORSCHER, Thomas
05.04.2018	(11) EP3713715	FISCHER, Peter
(22) 11.09.2017	(21) EP18789776.4	MAIER, Clemens
(54) DUST HOOD FOR A GRINDING	(47) 26.07.2023	PEHLIVAN, Armin
MASCHINE	(87) EP2018079801	RETTIG, Thomas
(73) HILTI Aktiengesellschaft	31.05.2019	JÄGER, Michael
(72) BLATZ, Thomas	(22) 31.10.2018	BUNTE, Thorsten
(31) 16191042	(54) SELF-ALIGNING TOOL GUIDE	POHL, Christopher
(32) 28.09.2016	(73) Hilti Aktiengesellschaft	(31) 102020115448
(33) European Patent Office (EPO)	(72) KHANDOZHKO, Serhey	(32) 10.06.2020
(51) B25F 5/00	BRALLA, Dario	(33) Germany
B25H 7/00	SCHMIDT, Peer	(51) B25J 9/16
(11) EP3934851	(31) 17203220	(11) EP3988252
(21) EP20725835.1	(32) 23.11.2017	(21) EP20203059.9
(47) 26.07.2023	(33) European Patent Office (EPO)	(47) 26.07.2023
(87) FR2020050449	(51) B25J 5/02	(22) 21.10.2020
10.09.2020	B23Q 3/00	(54) POSITIONING DEVICE FOR A
(22) 05.03.2020	B25B 1/18	POSITIONING SYSTEM
(54) MICROPERCUSSION MARKING	B25J 9/00	(73) Zerofix Tooling AB
SYSTEM WITH WIRELESS	(11) EP3984707	(72) Sundström, Erik
COMMUNICATION AND CENTRALIZED	(21) EP21196736.9	(51) B25J 9/16
OPERATION, AND ASSOCIATED	(47) 26.07.2023	G05B 13/02
PROCESS	(22) 15.09.2021	(11) EP3793785
(73) Technomark International	(54) DEVICE FOR LOADING AND	(21) EP19734310.6
(72) JACOB, Stéphane Noel	UNLOADING AND FOR OPERATING A	(47) 26.07.2023
BAUD, Laurent Albert Paul	MACHINE VISE	(87) EP2019066145
(31) 1902255	(73) WST Präzisionstechnik GmbH	02.01.2020
(32) 05.03.2019	(72) MARTIN, Rudolf	(22) 19.06.2019
	PFEIFER, Markus	

(54) METHOD AND DEVICE FOR THE COMPUTER-AIDED DETERMINATION OF CONTROL PARAMETERS FOR FAVOURABLE HANDLING OF A TECHNICAL SYSTEM	STUMMER, Heinz WIMMER, Philipp MAIER, Emanuel HANETSEDER, Markus	(54) SHAVING UNIT HAVING HAIR-CUTTING UNITS WITH FIRST AND SECOND PIVOT AXES
(73) Siemens Aktiengesellschaft	(31) 508212016	(73) Koninklijke Philips N.V.
(72) BISCHOFF, Martin	(32) 14.09.2016	(72) DE VRIES, Alwin, William
TOKIC, Michel	(33) Austria	(31) 19219679
(31) 18180479	(51) B25J 15/06	(32) 24.12.2019
(32) 28.06.2018	B25J 15/00	(33) European Patent Office (EPO)
(33) European Patent Office (EPO)	B25J 19/02	(51) B26B 19/14
(51) B25J 11/00	B25J 9/16	B26B 19/38
B25J 5/00	B25J 15/04	(11) EP4090503
B25J 19/02	B23D 35/00	(21) EP21700281.5
B25J 9/16	B65G 47/92	(47) 26.07.2023
A47L 9/28	(11) EP3930970	(87) EP2021050324
(11) EP3687745	(21) EP20713966.8	22.07.2021
(21) EP18863353.1	(47) 26.07.2023	(22) 11.01.2021
(47) 26.07.2023	(87) IB2020051710	(54) SHAVING APPARATUS WITH AN ADJUSTABLE SETTING
(87) KR2018011344	03.09.2020	(73) Koninklijke Philips N.V.
04.04.2019	(22) 28.02.2020	(72) DARWINKEL, Geert-Jan
(22) 21.09.2018	(54) GRIPPING GROUP FOR TOOLS AND RESPECTIVE METHOD	JOOSTEN, Willem
(54) MOVING ROBOT AND CONTROLLING METHOD	(73) Faspar S.p.A.	(31) 20151690
(73) LG Electronics Inc.	(72) GRASSI, Alessandro	(32) 14.01.2020
(72) JO, Wonchul	AIME, Paolo Ottavio	(33) European Patent Office (EPO)
(31) 20170124514	AIME, Maddalena Lucia	(51) B26B 19/38
(32) 26.09.2017	(31) 201900002901	A45D 24/00
(33) Korea (Republic)	(32) 28.02.2019	A45D 44/00
(51) B25J 11/00	(33) Italy	(11) EP4072798
B25J 15/00	(51) B26B 13/28	(21) EP20816264.4
(11) EP3519143	A01G 3/02	(47) 26.07.2023
(21) EP17777909.7	A01G 3/047	(87) EP2020084757
(47) 26.07.2023	(11) EP3829835	17.06.2021
(87) EP2017075066	(21) EP19842341.0	(22) 04.12.2020
12.04.2018	(47) 26.07.2023	(54) HAIR REMOVAL INSTRUCTIONS
(22) 03.10.2017	(87) FI2019050449	(73) Koninklijke Philips N.V.
(54) INSTALLATION COMPRISING AN ARTICULATED ARM AND A MACHINING APPARATUS AND CORRESPONDING MACHINING METHOD	30.01.2020	(72) VARGHESE, Babu
(73) Fives Machining	(22) 11.06.2019	AKKERMANS, Steffie, Petronella
(72) CUMINAL, Philippe	(54) HAND OPERATED SHEARING TOOL	DURACHER, Lucie, Tamara, Christine
SOULIE, Pascal	(73) Fiskars Finland Oy Ab	PALERO, Jonathan, Alambra
SARTORI, Jean-François	(72) LINDÉN, Olavi	BUIL, Vincencius, Paulus
LUNGU, Sinziana	(31) 20185661	BOURQUIN, Yannik, Parulian, Julian
NICAISE, Jean-Pierre	(32) 27.07.2018	(31) 19215228
(31) 1659519	(33) Finland	(32) 11.12.2019
(32) 03.10.2016	(51) B26B 19/14	(33) European Patent Office (EPO)
(33) France	(11) EP4072797	(51) B26B 21/48
(51) B25J 13/02	(21) EP20815862.6	B26B 21/40
G05G 1/08	(47) 26.07.2023	(11) EP3792020
G05G 5/03	(87) EP2020084368	(21) EP20190427.3
G06F 3/01	17.06.2021	(47) 26.07.2023
G06F 3/0362	(22) 03.12.2020	(22) 11.08.2020
(11) EP3512669	(54) HAIR-CUTTING UNIT FOR USE IN A HAIR-CUTTING APPLIANCE	(54) RAZOR ASSEMBLY FOR RAZOR WITH INDUCTION HEATING SYSTEM
(21) EP17787299.1	(73) Koninklijke Philips N.V.	(73) Dorco Co., Ltd.
(47) 26.07.2023	(72) PETRELLI, Marcus, Cornelis	(72) JANG, Sejun
(87) AT2017060222	DARWINKEL, Geert-Jan	LEE, Youngjin
22.03.2018	(31) 19215086	(31) 201916567999
(22) 11.09.2017	(32) 11.12.2019	(32) 11.09.2019
(54) CONTROL DEVICE AND CONTROL METHOD FOR INDUSTRIAL MACHINES HAVING CONTROLLED MOVEMENT DRIVES	(33) European Patent Office (EPO)	(33) United States of America
(73) KEBA Industrial Automation GmbH	(51) B26B 19/14	(51) B26D 1/24
(72) SCHRATTBAUER, Roland	(11) EP4081376	B26D 7/26
	(21) EP20838562.5	B26D 1/16
	(47) 26.07.2023	B26D 1/18
	(87) EP2020087839	(11) EP3299136
	01.07.2021	(21) EP17189471.0
	(22) 23.12.2020	(47) 26.07.2023
		(22) 05.09.2017
		(54) SHEET PROCESSING APPARATUS
		(73) Duplo Seiko Corporation

(72) OIWA, Hideki MATSUMOTO, Masayasu YAMAGUCHI, Taichi	16.07.2014 16.07.2014 16.07.2014	(32) 19.12.2019 (33) Germany
(31) 2016184607	22.01.2014	(51) B27M 3/00
(32) 21.09.2016	(33) United States of America	B27B 5/06
(33) Japan	United States of America	E04C 2/12
(51) B26D 7/26	United States of America	E04B 1/10
B26F 1/38	United States of America	B27M 1/08
(11) EP3854550	United States of America	E04B 1/348
(21) EP21151859.2	United States of America	(11) EP3479977
(47) 26.07.2023	United States of America	(21) EP18204556.7
(22) 15.01.2021	United States of America	(47) 26.07.2023
(54) QUICK CONNECTOR FOR A BLADE OF A CUTTING MACHINE	United States of America	(22) 06.11.2018
(51) B26D 7/27	(51) B26F 1/38	(54) METHOD FOR PRODUCTION OF WALL COMPONENTS FOR BUILDING
B26D 7/08	B26D 7/18	(73) Binder Beteiligungs AG
B26D 1/00	B65H 75/00	(72) Binder, Mattheo Johannes
(11) EP3887107	B26D 7/14	(31) 102017125829
(21) EP19821236.7	B41F 19/00	(32) 06.11.2017
(47) 26.07.2023	B26D 7/26	(33) Germany
(87) AT2019060404	B26F 1/44	(51) B27M 3/00
04.06.2020	(11) EP3271120	B29C 63/04
(22) 28.11.2019	(21) EP16713212.5	(11) EP3778162
(54) METHOD FOR CONTROLLING AN AUTOMATIC FOOD SLICER	(47) 26.07.2023	(21) EP19775982.2
(73) S.A.M. Innovations GmbH & Co KG	(87) US2016022448	(47) 26.07.2023
(72) KUCHLER, Fritz	22.09.2016	(87) JP2019011911
KUCHLER, Constantin	(22) 15.03.2016	03.10.2019
KUCHLER, Valentina	(54) METHOD AND APPARATUS FOR PRODUCING A CONTAINER CARRIER	(22) 20.03.2019
(31) 510532018	(73) Illinois Tool Works Inc.	(54) COATED PRODUCT MANUFACTURING METHOD AND MANUFACTURING DEVICE
(32) 29.11.2018	(72) SIEWERT, Paul	(73) KATOMOKUZAI KOGYO CO., LTD.
(33) Austria	(31) 201615065352	(72) KATO Hisaya
(51) B26F 1/26	201562134416 P	(31) 2018069584
B26D 7/26	(32) 09.03.2016	(32) 30.03.2018
G05B 19/19	17.03.2015	(33) Japan
B24C 1/04	(33) United States of America	(51) B27N 3/04
G06F 30/20	United States of America	B27N 1/00
G05B 19/4097	(51) B27F 7/15	B27K 3/02
(11) EP3623124	B23B 47/28	B27N 3/18
(21) EP19207173.6	B23B 51/00	C08L 97/02
(47) 26.07.2023	(11) EP3802030	C08H 8/00
(22) 22.01.2015	(21) EP19731832.2	B27N 3/02
(54) GENERATING OPTIMIZED TOOL PATHS AND MACHINE COMMANDS FOR BEAM CUTTING TOOLS	(47) 26.07.2023	(11) EP3917740
(73) Omax Corporation	(87) US2019034154	(21) EP20702310.2
(72) O'Connor, James M.	05.12.2019	(47) 26.07.2023
Henning, Axel H.	(22) 28.05.2019	(87) EP2020052624
Olsen, Carl	(54) JIG FOR MANUFACTURE OF TRUSSES CONFIGURED WITH PREFORMED HOLES	06.08.2020
(31) 201514602227	(73) Illinois Tool Works, Inc.	(22) 03.02.2020
201414565318	(72) KENNELLY, Bernard Joseph	(54) BOARDS FROM ACETYLATED RUBBERWOOD
201414333470	(31) 2018901880	(73) Tricoya Technologies Ltd
201414333466	(32) 28.05.2018	(72) KAPPEN, Theodorus Gerardus Marinus Maria
201414333469	(33) Australia	VAN DOMMELE, Stefan
201414333455	(51) B27H 5/04	(31) 19155107
201414333468	B27H 5/00	(32) 01.02.2019
201414333475	(11) EP3838528	(33) European Patent Office (EPO)
201461930447 P	(21) EP20000467.9	(51) B27N 3/12
(32) 21.01.2015	(47) 26.07.2023	B27L 11/02
09.12.2014	(22) 14.12.2020	B27N 3/00
16.07.2014	(54) STAVE, WOOD BARREL WITH STAVE AND METHOD OF MAKING STAVES	E04B 1/78
16.07.2014	(73) Michael Weinig AG	B27N 3/02
16.07.2014	(72) Schäfer, Hermann	B27N 3/04
	Colliou, Frederic	B27N 3/10
	Ballweg, Josef	E04B 1/76
	Dawidziak, Albrecht	E04B 1/74
	Weisenseel, Klaus	F16L 59/04
	(31) 102019009022	(11) EP3552787

(21) EP18166567.0	Silvestre Mendes Pinto De Moura, Bruna	(72) SANTONI, Claudio
(47) 26.07.2023	Gabriela	(31) 201717411
(22) 10.04.2018	(31) 2015108448	(32) 23.10.2017
(54) METHOD FOR PRODUCTION OF HEAT INSULATING MATERIAL	(32) 07.05.2015	(33) United Kingdom
(73) Groß, Lucia	(33) Portugal	(51) B29C 33/10
(72) Groß, Lucia	(51) B29B 11/16	B29C 70/48
(51) B28B 1/10	B29C 70/46	B29C 43/36
B28B 1/29	B32B 5/28	B29C 33/00
B28B 1/52	(11) EP3812118	B29C 70/46
B28B 13/02	(21) EP19822712.6	(11) EP3227075
(11) EP3871849	(47) 26.07.2023	(21) EP15817964.8
(21) EP21160073.9	(87) JP2019024574	(47) 26.07.2023
(47) 26.07.2023	26.12.2019	(87) FR2015053309
(22) 01.03.2021	(22) 20.06.2019	09.06.2016
(54) MACHINE AND METHOD FOR MANUFACTURING A PLATE INTENDED FOR MAKING A WALL OR A FLOOR	(54) PREPREG SHEET AND MANUFACTURING METHOD THEREFOR, FIBER-REINFORCED COMPOSITE MATERIAL MOLDED ARTICLE AND MANUFACTURING METHOD THEREFOR, AND METHOD FOR MANUFACTURING PREFORM	(22) 03.12.2015
(73) CARBON CAPTURE BUILDINGS GREENTECH	(73) Mitsubishi Chemical Corporation	(54) MOULDING DEVICE AND METHOD FOR THE MANUFACTURE OF COMPOSITE COMPONENTS USING LIQUID POLYMER RESIN
(72) COCHET, François	(72) IKEDA, Kazuhisa	(73) Arkema France
(31) 2002043	(73) ICHINO, Masahiro	Institut de Soudure
(32) 28.02.2020	FURUHASHI, Yuma	(72) PERRIN, Henri
(33) France	(31) 2018185494	GERARD, Pierre
(51) B28B 7/30	2018117285	FRANCOIS, Gilles
E02D 5/30	(32) 28.09.2018	TAILLEMITE, Sébastien
E02D 5/56	20.06.2018	CAUCHOIS, Jean-Pierre
(11) EP3186049	(33) Japan	(31) 1461865
(21) EP15735617.1	Japan	(32) 03.12.2014
(47) 26.07.2023	(51) B29B 17/02	(33) France
(87) CH2015000093	C08J 11/06	(51) B29C 33/20
03.03.2016	(11) EP3854841	B29C 70/34
(22) 24.06.2015	(21) EP19863179.8	B29C 70/54
(54) METHOD FOR THE PRODUCTION OF A CONCRETE BODY	(47) 26.07.2023	B29C 70/46
(73) Centrum Pæle A/S	(87) JP2019034942	(11) EP3936317
(72) LAAGER, Michael	26.03.2020	(21) EP19919108.1
RUCH, Christoph	(22) 05.09.2019	(47) 26.07.2023
FELDER, Hans-Peter	(54) METHOD FOR SEPARATING AND RECOVERING LAYERED FILM	(87) JP2019009486
ZÜRCHER, Erhard	(73) DIC Corporation	17.09.2020
(31) 12822014	(72) HAMASUNA, Yutaka	(22) 08.03.2019
(32) 26.08.2014	IWANAMI, Hideoki	(54) FIBRE REINFORCED COMPOSITE MATERIAL MOLDING SYSTEM AND METHOD
(33) Switzerland	TAMAOKA, Takashi	(73) IHI Aerospace Co., Ltd.
(51) B28B 23/00	TAKADA, Choichi	(72) SHIGENARI Yu
(11) EP3100837	OHARA, Shin-ichi	HARADA Takashi
(21) EP16020173.7	(31) 2018174909	AKIMOTO Toyoharu
(47) 26.07.2023	(32) 19.09.2018	(51) B29C 37/00
(22) 06.05.2016	(33) Japan	B29C 43/02
(54) CEMENTITIOUS MATERIAL STRUCTURE WITH SENSORS, MANUFACTURING METHOD AND OPERATION METHOD THEREOF	(51) B29C 33/00	B29C 45/00
(73) Centi - Centro de Nanotecnologia e Materiais Tecnicos Funcionais e Inteligentes	B29C 70/54	B29C 70/68
Secil-Companhia Geral de Cal e Cimento S.A.	B29C 43/04	B29C 45/14
(72) Poças Gonçalves, José Joaquim Da Fonseca E Branquinho De Pais Monteiro, Joana	B29C 43/36	B29C 33/12
Vermelhudo, Vítor	B29C 70/48	B32B 5/00
De Sequeira Serra Nunes, Ângela Maria Jesus	B29K 105/06	B32B 27/00
Pinto Lopes, Jaime Rafael	B29K 463/00	B29C 59/02
Da Fonseca, Joana Diniz	B29C 43/18	(11) EP3310545
Marques Pessoa, Ricardo Daniel	B29K 105/08	(21) EP16729854.6
Carvalho Gomes, João Manuel	B29L 31/30	(47) 26.07.2023
Vasco, Gonçalves Pimenta Machado	(11) EP3700729	(87) EP2016063142
	(21) EP18795785.7	22.12.2016
	(47) 26.07.2023	(22) 09.06.2016
	(87) GB2018053049	(54) METHOD FOR PRODUCING A PLASTIC MOLDED ARTICLE, PLASTIC MOLDED ARTICLE AND MOLD
	02.05.2019	MOLDED ARTICLE AND MOLD
	(22) 22.10.2018	(73) Leonhard Kurz Stiftung & Co. KG
	(54) MOULDING ARRANGEMENT	Bond Laminates GmbH
	(73) McLaren Automotive Limited	(72) SCHUMACHER, Christian
		BAUDER, Jochen

FALGNER, Steffen	B29C 41/04	(72) KURIBAYASHI Nobuaki
KOMENDA, Thomas	(11) EP3777955	(31) 2018224539
FUCHS, Michael	(21) EP19776888.0	(32) 30.11.2018
HAHN, Martin	(47) 26.07.2023	(33) Japan
DENTEL, Andy	(87) JP2019012412	(51) B29C 45/14
WOLF, Felix	03.10.2019	B29C 45/26
RIEB, Arthur	(22) 25.03.2019	B29L 31/00
(31) 102015109597	(54) MICRONEEDLE ARRAY	(11) EP3795326
(32) 16.06.2015	MANUFACTURING METHOD	(21) EP20184377.8
(33) Germany	(73) FUJIFILM Corporation	(47) 26.07.2023
(51) B29C 39/02	(72) TAKANO, Ikuo	(22) 07.07.2020
B29C 39/24	(31) 2018068102	(54) INJECTION MOULDING DEVICE,
B29C 39/44	(32) 30.03.2018	METHOD FOR INJECTION MOULDING
B29C 39/00	(33) Japan	OF MULTI-COMPONENT PARTS,
B29K 75/00	(51) B29C 45/00	AND COMPUTER PROGRAM AND
(11) EP3877132	H01R 43/18	COMPUTER READABLE MEDIUM
(21) EP19797727.5	B29L 31/36	(73) Zahoransky Automation & Molds GmbH
(47) 26.07.2023	(11) EP3928947	(72) SCHULZ, Jürgen
(87) EP2019080159	(21) EP21181861.2	(31) 102019125251
14.05.2020	(47) 26.07.2023	(32) 19.09.2019
(22) 05.11.2019	(22) 25.06.2021	(33) Germany
(54) METHOD AND SYSTEM FOR MANUAL	(54) LOW-WARPAGE INJECTION-MOLDED	(51) B29C 45/14
CASTING OF POLYMERS	HOUSING PART AND ELECTRICAL	B29L 31/30
(73) Covestro Intellectual Property GmbH &	CONNECTOR WITH SUCH A HOUSING	B29K 709/08
Co. KG	PART	(11) EP3335851
(72) JEANTIN, Philippe	(73) TE Connectivity Germany GmbH	(21) EP16204908.4
GUO, Ruijing	(72) PANITZ, Gregor	(47) 26.07.2023
MALEIKA, Robert	(31) 102020207977	(22) 18.12.2016
RODRIGUES, Jean, Paul	(32) 26.06.2020	(54) FIXED WINDOW ASSEMBLY FOR
GAO, Sean	(33) Germany	A VEHICLE AND METHOD OF
(31) PCT/CN2018/114198	(51) B29C 45/14	MANUFACTURING SAME
18211982	B29C 33/06	(73) Henniges Automotive Sealing Systems
(32) 06.11.2018	B29C 67/24	North America, Inc.
12.12.2018	C08G 69/16	(72) SLAVIK, Daniel
(33) World Intellectual Property Office (WIPO)	(11) EP3541853	HUSEK, Petr
European Patent Office (EPO)	(21) EP17788120.8	GRÜTER, Achim
(51) B29C 39/12	(47) 26.07.2023	(51) B29C 45/14
B29C 39/10	(87) EP2017074945	B65D 1/24
B29C 39/40	24.05.2018	B29L 31/00
B29K 101/10	(22) 02.10.2017	(11) EP3533581
B29K 105/08	(54) PRODUCTION METHOD OF A	(21) EP18159678.4
B29C 70/48	DURABLY SEALING CONNECTION	(47) 26.07.2023
(11) EP3095577	BETWEEN INLAY AND POLYMER	(22) 02.03.2018
(21) EP15737301.0	(73) Robert Bosch GmbH	(54) OPERATING PROCESS OF
(47) 26.07.2023	(72) JAHNLE, Hendrik	AN INJECTION MOULDING
(87) JP2015000175	ROMAN, Victor	INSTALLATION AND METHOD FOR
23.07.2015	BEIERMEISTER, Bernd	THE PREPARATION OF A TRANSPORT
(22) 16.01.2015	MENACHER, Markus	CONTAINER
(54) PROCESS FOR PRODUCING A	LUNG, Norman	(73) Oberland M & V GmbH
COATED FIBER-REINFORCED RESIN	(31) 102016222534	(72) Götz, Kira
MOLDED ARTICLE	(32) 16.11.2016	Götz, Lisa
(73) Toray Industries, Inc.	(33) Germany	(51) B29C 45/17
(72) KITAGAWA, Masashi	(51) B29C 45/14	B29C 45/14
TSUJI, Seiji	B29C 33/14	B60Q 3/14
MIYAGAWA, Yuji	B29C 45/37	B29C 44/34
TAKEMOTO, Hidehiro	B29D 23/00	B29C 44/42
(31) 2014006939	B29L 23/00	B29L 31/34
(32) 17.01.2014	B29C 45/17	B29L 31/30
(33) Japan	B29L 31/24	(11) EP3175965
(51) B29C 39/24	(11) EP3888869	(21) EP16002449.3
A61M 37/00	(21) EP19891306.3	(47) 26.07.2023
B29C 33/38	(47) 26.07.2023	(22) 17.11.2016
B29C 39/42	(87) JP2019029450	(54) DISPLAY DEVICE AND METHOD FOR
B29C 39/44	04.06.2020	MANUFACTURING A SCREEN
B29C 45/14	(22) 26.07.2019	(73) GRAMMER AG
B29C 45/26	(54) METHOD FOR MANUFACTURING	(72) Bittermann, Lisa
B29C 33/40	RESIN PIPE	(31) 102015015444
B29L 31/00	(73) The Yokohama Rubber Co., Ltd.	(32) 02.12.2015

(33) Germany	(73) Covestro Intellectual Property GmbH & Co. KG	(73) Aleph
(51) B29C 45/34	(72) POTARAJU, Sairam	(72) AVILA, Jean-Noël
B29C 33/72	ZÖLLNER, Olaf	(31) 1913386
B29C 45/80	ZOPPE, Sebastian	(32) 28.11.2019
B29C 45/17	BONTENACKELS, Christoph	(33) France
B29C 45/33	(31) 19210296	(51) B29C 48/30
(11) EP3827959	(32) 20.11.2019	B29C 48/695
(21) EP21151098.7	(33) European Patent Office (EPO)	(11) EP4015189
(47) 26.07.2023	(51) B29C 48/00	(21) EP20216221.0
(22) 20.06.2012	B29C 48/07	(47) 26.07.2023
(54) A MOLD COMPONENT HAVING A RESIDUE CLEANING FEATURE	B29C 48/92	(22) 21.12.2020
(73) Husky Injection Molding Systems Ltd.	(11) EP4059693	(54) A STACK DIE FOR EXTRUSION MOULDING COMPRISING IMPROVED DIE ELEMENTS, METHOD OF MANUFACTURING THE STACK DIE AND USE THEREOF TO PROVIDE AN EXTRUDED ARTICLE
(72) WITZ, Jean-Christophe	(21) EP21163088.4	(73) VKR Holding A/S
KMOCH, Sven	(47) 26.07.2023	(72) BUSTOFT, Erik
(31) 201161514931 P	(22) 17.03.2021	(51) B29C 48/691
(32) 04.08.2011	(54) PRODUCTION PLANT FOR PRODUCING EXTRUDED PANELS	B29C 48/255
(33) United States of America	(73) Akzenta Paneele + Profile GmbH	B29C 48/692
(51) B29C 45/43	(72) HANNIG, Hans-Jürgen	(11) EP3433068
A61F 2/12	HÜLLENKREMER, Felix	(21) EP17721838.5
B29L 31/00	WENDLING, Peter	(47) 26.07.2023
(11) EP3718508	(51) B29C 48/02	(87) IB2017051630
(21) EP19168659.1	B29C 48/05	28.09.2017
(47) 26.07.2023	B29C 48/30	(22) 21.03.2017
(22) 11.04.2019	B29C 48/92	(54) FILTRATION DEVICE AND FILTRATION METHOD FOR POLYMER EXTRUSION
(54) MOULD AND MOULDING METHOD FOR BODY IMPLANT, IN PARTICULAR FOR BREAST IMPLANTS	B29C 44/02	(73) C M Produzione S.r.l.
(73) Celoplas - Plásticos Para A Industria S.A.	B29C 44/36	(72) PRINZO, Carmine
(72) Rebelo Cortez, Ana Alexandra de Oliveira Cortez, João	(11) EP4108413	PRINZO, Alessio
(31) 2019115423	(21) EP21181719.2	(31) UA20161836
(32) 05.04.2019	(47) 26.07.2023	(32) 21.03.2016
(33) Portugal	(22) 25.06.2021	(33) Italy
(51) B29C 45/53	(54) METHOD FOR ADJUSTING PRESSURE OF MIXTURE OF GAS AND PASTE MATERIAL DISCHARGED FROM DISPENSER	(51) B29C 48/92
B29C 45/54	(73) Sunstar Engineering Inc.	B29C 48/10
(11) EP3421217	(72) Yamashita, Kiichi	B29C 55/28
(21) EP17756122.2	Takada, Masaharu	B29C 48/885
(47) 26.07.2023	Omachi, Takuro	B29C 48/21
(87) JP2017003576	(51) B29C 48/06	B32B 1/08
31.08.2017	F21V 15/01	B32B 27/08
(22) 01.02.2017	(11) EP3147099	(11) EP3706975
(54) INJECTION DEVICE PROVIDED WITH FLOW PATH SWITCHING BLOCK	(21) EP16190196.2	(21) EP19701906.0
(73) The Japan Steel Works, Ltd.	(47) 26.07.2023	(47) 26.07.2023
(72) SAGA, Daigo	(22) 22.09.2016	(87) IB2019050103
YASUE, Akira	(54) PROFILED BODY FOR LAMPS AND ITS METHOD OF MANUFACTURING	18.07.2019
TSUJI, Kazuya	(73) GIPLAST srl	(22) 07.01.2019
HARADA, Takashi	(72) GHIDI, Enrico	(54) METHOD FOR ADJUSTING THE PROFILE OF A FILM IN BLOWN EXTRUSION LINES
NISHIDA, Shoso	(31) UB20153802	(73) Colines S.P.A.
INOUE, Shigeki	(32) 22.09.2015	(72) LOMBARDINI, Nicola
TAKETANI, Masahiko	(33) Italy	(31) 201800000807
(31) 2016030941	(51) B29C 48/10	(32) 12.01.2018
2016030908	B29C 48/92	(33) Italy
(32) 22.02.2016	B29C 55/28	(51) B29C 48/92
22.02.2016	B29C 48/32	B29C 48/25
(33) Japan	(11) EP4065333	B29B 7/72
Japan	(21) EP20800947.2	B29B 9/06
(51) B29C 45/76	(47) 26.07.2023	B29B 7/74
(11) EP4061607	(87) EP2020081488	B29B 9/16
(21) EP20804604.5	03.06.2021	B29B 7/42
(47) 26.07.2023	(22) 09.11.2020	B29B 7/46
(87) EP2020082569	(54) METHOD FOR MANUFACTURING A BLOWN FILM WITH DETERMINATION OF THE PROFILE OF A CHARACTERISTIC QUANTITY OF THE FILM	(11) EP4065336
27.05.2021		(21) EP20811366.2
(22) 18.11.2020		(47) 26.07.2023
(54) METHOD AND SYSTEM FOR INJECTION MOLDING		

(87) EP2020083580	27.05.2021	(47) 26.07.2023
03.06.2021	(22) 17.11.2020	(22) 02.04.2021
(22) 27.11.2020	(54) METHOD FOR ORIENTING A	(54) MICROWAVE CONVEYOR OVEN
(54) METHOD AND CONTROLLING	PREFORM IN A MOULD	(73) Fricke und Mallah Microwave Technology
SYSTEM FOR CONTROLLING	(73) Sidel Participations	GmbH
POLYMER VISCOSITY QUALITY	(72) MOUCHELET, Marc	(72) MALLAH, Marcel
(73) BASF SE	PASQUIER, Hervé	(31) 102020109278
(72) OEHME, Felix	BOURVELLEC, Loïc	(32) 02.04.2020
SOCHER, Robert	(31) 1912942	(33) Germany
KOYCHEVA, Evelina	(32) 20.11.2019	(51) B29C 53/04
(31) 19212098	(33) France	(11) EP3676084
(32) 28.11.2019	(51) B29C 49/48	(21) EP18852701.4
(33) European Patent Office (EPO)	B29C 49/06	(47) 26.07.2023
(51) B29C 49/00	B29C 49/36	(87) SE2018050845
B29C 49/22	B29C 49/46	07.03.2019
B29C 49/42	B29L 31/00	(22) 22.08.2018
B29C 45/16	(11) EP3950268	(54) A METHOD OF AND A DEVICE FOR
B29C 45/26	(21) EP21197945.5	PRODUCING A FIBROUS PANEL-
B29C 45/37	(47) 26.07.2023	SHAPED BUILDING ELEMENT
B29B 11/14	(22) 02.08.2018	(73) IKEA Supply AG
B29L 31/00	(54) DEVICE AND METHOD FOR	(72) ANDREASSON, Bengt
B29K 105/00	COUPLING AND UNCOUPLING MEDIA	(31) 1751037
A45D 34/00	COUPLINGS TO AND FROM THE	(32) 30.08.2017
A45D 40/00	BOTTOM MOULD	(33) Sweden
(11) EP3718736	(73) Kronos AG	(51) B29C 53/08
(21) EP18874981.6	(72) Hack, Andreas	B21D 5/01
(47) 26.07.2023	Geltinger, Florian	B21D 37/02
(87) KR2018011701	(31) 102017129576	(11) EP3702128
06.06.2019	102017119816	(21) EP18908107.8
(22) 02.10.2018	102017119817	(47) 26.07.2023
(54) METHOD FOR MANUFACTURING	102017117576	(87) JP2018035473
DOUBLE COSMETIC CONTAINER	102017117533	06.09.2019
(73) JUNG MIN CO., LTD.	(32) 12.12.2017	(22) 25.09.2018
(72) HONG, Jung Min	29.08.2017	(54) BENDING MOLDING TOOL
(31) 20170160869	29.08.2017	(73) Sanoh Industrial Co., Ltd.
(32) 28.11.2017	02.08.2017	(72) LAN, Guang Ping
(33) Korea (Republic)	02.08.2017	NAKAZATO, Kazuhiko
(51) B29C 49/12	(33) Germany	(31) 2018036102
(11) EP3227084	Germany	(32) 01.03.2018
(21) EP15862148.2	Germany	(33) Japan
(47) 26.07.2023	Germany	(51) B29C 53/38
(87) EP2015002434	Germany	E06B 1/62
09.06.2016	(51) B29C 49/64	(11) EP3981576
(22) 03.12.2015	B29C 49/78	(21) EP21201273.6
(54) STRETCH ROD FOR THE FORM-	B29C 49/06	(47) 26.07.2023
AND-FILL HEAD OF A MACHINE FOR	B29K 67/00	(22) 06.10.2021
FORMING AND FILLING CONTAINERS	B29L 31/00	(54) FILM STRIP AND METHOD FOR
PRODUCED FROM PREFORMS	(11) EP3964348	PRODUCING A FILM STRIP
(73) KHS GmbH	(21) EP21192794.2	(73) SwissChem AG
(72) LITZENBERG, Michael	(47) 26.07.2023	(72) Gerlinger, Eckhart
LINKE, Michael	(22) 24.08.2021	(31) 102020126123
CLÜSSERATH, Ludwig	(54) METHOD AND DEVICE FOR	(32) 06.10.2020
KLÖPPER, Gerhard	HEATING PLASTIC PRE-FORMS	(33) Germany
BAUMGARTE, Rolf	WITH SPATIALLY RESOLVED	(51) B29C 55/16
MEYER, Niels	TEMPERATURE DETECTION	B29C 55/14
(31) 102014017871	(73) Kronos AG	B29C 55/20
(32) 04.12.2014	(72) Lappe, Ulrich	(11) EP3854569
(33) Germany	Hirdina, Jochen	(21) EP21153273.4
(51) B29C 49/42	(31) 102020123166	(47) 26.07.2023
B29C 49/58	(32) 04.09.2020	(22) 25.01.2021
B29C 49/06	(33) Germany	(54) STRETCHING DEVICE FOR
B29L 31/00	(51) B29C 49/68	STRETCHING A FILM OF SYNTHETIC
B29K 67/00	B29C 49/64	MATERIAL
B29C 49/78	B29C 49/06	(73) Marchante, Carolina
(11) EP4061609	B29K 67/00	(72) Marchante, Carolina
(21) EP20804312.5	B29L 31/00	(31) 2000764
(47) 26.07.2023	(11) EP3888885	(32) 27.01.2020
(87) EP2020082402	(21) EP21166855.3	

(33) France	(54) COLOURED OBJECT GENERATION	(73) BRUGG Rohrsystem AG
(51) B29C 63/00	(73) Hewlett-Packard Development Company, L.P.	(72) HUNZIKER, Urs
B29C 63/02		RAMETSTEINER, Karl
B29L 31/30	(72) FORNOS MARTINEZ, Pol	(31) 102016120043
B29C 63/04	FERNANDEZ AYMERICK, Ismael	(32) 20.10.2016
B29C 51/08	BLANCO ROLLAN, Maria de las Mercedes	(33) Germany
B29C 51/16	FRANKS, Adam	(51) B29C 65/50
B29C 59/02		B29C 65/48
(11) EP3471942	(51) B29C 64/194	B29C 65/78
(21) EP17751595.4	B29C 64/209	B29C 65/10
(47) 26.07.2023	B29C 64/295	B29L 31/30
(87) DE2017000172	B29C 64/232	B29L 31/08
28.12.2017	B29C 64/236	(11) EP3986706
(22) 19.06.2017	B33Y 30/00	(21) EP20733775.9
(54) DEVICE AND METHOD FOR LAMINATING A FILM PART ONTO A SUPPORT PART	B29C 64/118	(47) 26.07.2023
(73) Persico S.p.A.	(11) EP3898193	(87) EP2020066904
(72) GASSER, Andreas	(21) EP19900546.3	24.12.2020
(31) 102016007337	(47) 26.07.2023	(22) 18.06.2020
(32) 19.06.2016	(87) US2019067334	(54) AN ADHESIVE ASSEMBLY METHOD AND AN ADHESIVE ASSEMBLY OBTAINED BY THE METHOD
(33) Germany	25.06.2020	(73) SAFRAN AIRCRAFT ENGINES
(51) B29C 63/02	(22) 19.12.2019	(72) ESSAYAN, Sophie
(11) EP3820673	(54) 3D PRINTING LIQUEFIER NOZZLE FLEXURE FOR IMPROVED IRONING	BOSSAN, Pierre Antoine
(21) EP19755956.0	(73) Jabil Inc.	GLUGLA, Allison
(47) 26.07.2023	(72) RODGERS, Luke	KUSCH, Jordan
(87) FR2019051629	BURGESS, Darin	SAMSON, Benjamin
16.01.2020	CROCKETT, Randy	(31) 201962863522 P
(22) 02.07.2019	KLIMCZAK, Scott	(32) 19.06.2019
(54) MACHINE AND METHOD FOR LAMINATING TWO FACES OF A PART	(31) 201862782065 P	(33) United States of America
(73) WALCO	(32) 19.12.2018	(51) B29C 65/56
(72) MILIOTI, Stéphane	(33) United States of America	B29C 65/00
(31) 1856370	(51) B29C 64/393	B29C 65/54
(32) 11.07.2018	B29C 64/268	B29C 65/64
(33) France	B29C 64/153	B29C 65/50
(51) B29C 64/153	B33Y 10/00	B29C 65/02
B29C 64/357	B33Y 30/00	B29C 65/58
B29C 64/214	B33Y 50/02	(11) EP3953156
B33Y 30/00	C04B 35/653	(21) EP20710097.5
B29C 64/336	B22F 10/28	(47) 26.07.2023
B29C 64/205	B22F 10/36	(87) EP2020055722
B29C 64/236	B22F 12/90	15.10.2020
B33Y 10/00	B29C 64/165	(22) 04.03.2020
(11) EP4061616	B22F 10/31	(54) METHOD FOR PRODUCING A CONNECTION BETWEEN TWO COMPONENTS
(21) EP20820988.2	B22F 12/44	(73) ZF Friedrichshafen AG
(47) 26.07.2023	(11) EP3613561	(72) NAWROTH, Tobias
(87) EP2020085766	(21) EP18190313.9	LOBO CASANOVA, Ignacio
17.06.2021	(47) 26.07.2023	(31) 102019205356
(22) 11.12.2020	(22) 22.08.2018	(32) 12.04.2019
(54) LEVELLING SYSTEM AND METHODS	(54) APPARATUS FOR ADDITIVELY MANUFACTURING THREE-DIMENSIONAL OBJECTS	(33) Germany
(73) Aerosint SA	(73) Concept Laser GmbH	(51) B29C 70/24
(72) MERCELIS, Peter	(72) Klaußner, Tim	B29C 70/08
HICK, Matthias	Zeulner, Fabian	(11) EP3996901
MARCHAL, Martin	(51) B29C 65/36	(21) EP20736712.9
(31) 201905902	F16L 47/02	(47) 26.07.2023
(32) 13.12.2019	B29L 23/00	(87) EP2020069244
(33) Belgium	B29K 101/12	14.01.2021
(51) B29C 64/165	(11) EP3529056	(22) 08.07.2020
B29C 64/386	(21) EP17791034.6	(54) METHOD FOR REINFORCING A PANEL AND A METHOD FOR MANUFACTURING A COMPOSITE PANEL IMPLEMENTING SUCH A METHOD AND PANEL OBTAINED THEREBY
B33Y 10/00	(47) 26.07.2023	(73) SICOMIN HOLDING
B33Y 50/00	(87) EP2017076898	Ascodero Productique
(11) EP3840937	26.04.2018	
(21) EP19920181.5	(22) 20.10.2017	
(47) 26.07.2023	(54) THERMAL JOINING OF PLASTIC OBJECTS BY MEANS OF HEATING MEANS HAVING LOW CURIE TEMPERATURE	
(87) US2019022484		
24.09.2020		
(22) 15.03.2019		

(72) COUVREUR, Xavier SAJET, Philippe MARCOVICH, Philippe LESTOQUOY, Charles LAINE, Cyril	(73) McLaren Automotive Limited (72) SANTONI, Claudio (31) 201805320 (32) 29.03.2018 (33) United Kingdom	Zheng, Ying Kumi, Augustine Twum (31) 201762516215 P (32) 07.06.2017 (33) United States of America
(31) 1907623 (32) 08.07.2019 (33) France	(51) B29C 70/52 B29C 70/20 B29C 70/22 B29D 99/00 B32B 3/04 B32B 3/12 B32B 5/02 B32B 5/26 B29L 31/60	(51) B29D 30/24 (11) EP3838574 (21) EP20214378.0 (47) 26.07.2023 (22) 15.12.2020 (54) TIRE BUILDING DRUM AND METHOD OF BUILDING A TIRE (73) The Goodyear Tire & Rubber Company (72) PHILLIPS, Joshua David STOILA, George Michael HOGAN, Michael James (31) 202016950991 201962951635 P 201962951553 P (32) 18.11.2020 20.12.2019 20.12.2019 (33) United States of America United States of America United States of America
(51) B29C 70/34 (11) EP3305509 (21) EP17186590.0 (47) 26.07.2023 (22) 17.08.2017 (54) VARIABLE RADIUS LAMINATED COMPOSITE RADIUS FILLER (73) The Boeing Company (72) RUFINO, Russell SU, Benjamin Wen-Jun FORSTON, Gabriel Z.	(11) EP3698953 (21) EP20158438.0 (47) 26.07.2023 (22) 20.02.2020 (54) A HONEYCOMB CLOSED CELLULAR COMPOSITE PRODUCT WITH ROBUST IMPACT STRENGTH; METHODS FOR MANUFACTURING THEREOF (73) SP Advanced Engineering Materials PVT. Ltd. (72) Mukherji, Arindam (31) 201821031691 (32) 24.02.2019 (33) India	(32) 18.11.2020 20.12.2019 20.12.2019 (33) United States of America United States of America United States of America
(31) 201615282616 (32) 30.09.2016 (33) United States of America	(51) B29C 70/38 B29L 31/30 B29C 35/16 B29C 70/54 (11) EP3702141 (21) EP20151618.4 (47) 26.07.2023 (22) 14.01.2020 (54) ACTIVE COOLING SYSTEM FOR MANUFACTURING COMPOSITE STRUCTURES (73) The Boeing Company (72) JOHNSON, Brice A. KISCH, Robert A. (31) 201916384103 201962812008 P (32) 15.04.2019 28.02.2019 (33) United States of America United States of America	(51) B30B 11/00 B01F 33/84 (11) EP3582741 (21) EP18707602.1 (47) 26.07.2023 (87) US2018018359 23.08.2018 (22) 15.02.2018 (54) SYSTEMS AND METHODS FOR THE FABRICATION OF TABLETS, INCLUDING PHARMACEUTICAL TABLETS (73) Massachusetts Institute of Technology (72) HAMMERSMITH, Gregory, J. MYERSON, Allan, S. AZAD, Mohammad, A. OSORIO CAICEDO, Juan, Guillermo BRANCAZIO, David (31) 201862621429 P 201862619638 P 201762460626 P (32) 24.01.2018 19.01.2018 17.02.2017 (33) United States of America United States of America United States of America
(51) B29C 70/44 B29C 33/30 B29C 70/54 B29D 99/00 B29L 31/08 (11) EP3212375 (21) EP14792487.2 (47) 26.07.2023 (87) EP2014073382 06.05.2016 (22) 30.10.2014 (54) A SHEAR WEB MOULD SYSTEM AND A METHOD FOR MANUFACTURING A WIND TURBINE (73) LM Wind Power A/S (72) RASMUSSEN, Kim Ansholm PEDERSEN, Steven Hauge	(31) 201762549571 P (32) 24.08.2017 (33) United States of America (51) B29D 11/00 G02B 1/04 G02C 7/04 (11) EP3928967 (21) EP21185406.2 (47) 26.07.2023 (22) 06.06.2018 (54) SILICONE HYDROGEL CONTACT LENSES (73) Alcon Inc. (72) Nelson, Matthew D. Qian, Xinming Ge, Junhao Chang, Frank Munoz, Zach Zhang, Steve Yun Breitkopf, Richard Charles Lang, Weihong Jing, Feng Wu, Daqing	(32) 20.02.2020 201962951635 P 201962951553 P (32) 18.11.2020 20.12.2019 20.12.2019 (33) United States of America United States of America United States of America
(51) B29C 70/38 B29L 31/30 B29C 35/16 B29C 70/54 (11) EP3702141 (21) EP20151618.4 (47) 26.07.2023 (22) 14.01.2020 (54) ACTIVE COOLING SYSTEM FOR MANUFACTURING COMPOSITE STRUCTURES (73) The Boeing Company (72) JOHNSON, Brice A. KISCH, Robert A. (31) 201916384103 201962812008 P (32) 15.04.2019 28.02.2019 (33) United States of America United States of America	(51) B29C 70/38 B29L 31/30 B29C 35/16 B29C 70/54 (11) EP3702141 (21) EP20151618.4 (47) 26.07.2023 (22) 14.01.2020 (54) ACTIVE COOLING SYSTEM FOR MANUFACTURING COMPOSITE STRUCTURES (73) The Boeing Company (72) JOHNSON, Brice A. KISCH, Robert A. (31) 201916384103 201962812008 P (32) 15.04.2019 28.02.2019 (33) United States of America United States of America	(51) B30B 11/00 B01F 33/84 (11) EP3582741 (21) EP18707602.1 (47) 26.07.2023 (87) US2018018359 23.08.2018 (22) 15.02.2018 (54) SYSTEMS AND METHODS FOR THE FABRICATION OF TABLETS, INCLUDING PHARMACEUTICAL TABLETS (73) Massachusetts Institute of Technology (72) HAMMERSMITH, Gregory, J. MYERSON, Allan, S. AZAD, Mohammad, A. OSORIO CAICEDO, Juan, Guillermo BRANCAZIO, David (31) 201862621429 P 201862619638 P 201762460626 P (32) 24.01.2018 19.01.2018 17.02.2017 (33) United States of America United States of America United States of America
(51) B29C 70/44 B29C 33/30 B29C 70/54 B29D 99/00 B29L 31/08 (11) EP3212375 (21) EP14792487.2 (47) 26.07.2023 (87) EP2014073382 06.05.2016 (22) 30.10.2014 (54) A SHEAR WEB MOULD SYSTEM AND A METHOD FOR MANUFACTURING A WIND TURBINE (73) LM Wind Power A/S (72) RASMUSSEN, Kim Ansholm PEDERSEN, Steven Hauge	(51) B29C 70/44 B29C 70/54 (11) EP3774306 (21) EP19716516.0 (47) 26.07.2023 (87) GB2019050909 03.10.2019 (22) 29.03.2019 (54) DIAPHRAGM FORMING	(51) B30B 15/26 B21D 43/02 B21D 43/05 B21D 43/10 B30B 15/32 (11) EP3795344 (21) EP20020370.1 (47) 26.07.2023 (22) 13.08.2020 (54) PRESS LINE AND METHOD OF CONTROLLING THE PRESSED PARTS ON THIS LINE (73) Skoda Auto a.s. (72) Sebesta, Jan (31) 20190530 (32) 13.08.2019

(33) Czech Republic	KOPECKY, William J.	(21) EP17206624.3
(51) B31B 70/81	(31) 201962816289 P	(47) 26.07.2023
B65B 61/18	(32) 11.03.2019	(22) 12.12.2017
(11) EP3452278	(33) United States of America	(54) HYBRID FABRIC-LAMINATED BELT FOR ELEVATOR SYSTEM
(21) EP17724156.9	(51) B32B 3/30	(73) Otis Elevator Company
(47) 26.07.2023	B32B 5/02	(72) Mosher, Daniel A.
(87) US2017030357	B32B 7/14	Gronda, Steven W.
09.11.2017	B32B 13/00	Zhao, Wenping
(22) 01.05.2017	B32B 13/14	Eastman, Scott Alan
(54) SYSTEM AND METHOD FOR APPLYING A FASTENING MATERIAL TO A SUBSTRATE	B32B 27/08	Humbert, Micheal Paul
(73) Kellogg Company	B32B 27/12	(31) 201662432796 P
(72) MICHELS, John, Joseph	B32B 27/32	(32) 12.12.2016
(31) 201662330390 P	B32B 37/00	(33) United States of America
(32) 02.05.2016	E21D 11/38	(51) B32B 5/02
(33) United States of America	B32B 25/08	B32B 7/12
(51) B32B 1/08	B32B 25/10	B32B 27/10
B32B 5/02	B32B 25/14	B32B 27/12
B32B 15/02	(11) EP4008546	B32B 27/18
B32B 15/06	(21) EP21210768.4	B32B 27/30
B32B 15/08	(47) 26.07.2023	B32B 27/32
B32B 15/18	(22) 26.11.2021	B32B 27/36
B32B 25/08	(54) A METHOD FOR WATERPROOFING OF TUNNEL STRUCTURES	B32B 29/00
B32B 25/14	(73) Sika Technology AG	B32B 29/06
B32B 25/20	(72) SIEGRIST, Isabel	(11) EP3883765
B32B 27/20	PALLY, Otmar	(21) EP19805758.0
B32B 27/24	(31) 20211375	(47) 26.07.2023
B32B 27/26	(32) 02.12.2020	(87) IB2019059775
B32B 27/28	(33) European Patent Office (EPO)	28.05.2020
B32B 27/32	(51) B32B 5/02	(22) 14.11.2019
(11) EP3825113	B32B 5/08	(54) GAS BARRIER FILM FOR PACKAGING MATERIAL
(21) EP20207931.5	B32B 5/18	(73) Stora Enso Oyj
(47) 26.07.2023	B32B 5/24	(72) KNÖÖS, Isabel
(22) 16.11.2020	B32B 5/26	(31) 1851444
(54) ZERO FLOW FIREPROOF HOSE UTILIZING ZINC BORATE AND EXPANDABLE GRAPHITE ADDITIVES	B32B 27/06	(32) 22.11.2018
(73) Eaton Intelligent Power Limited	B32B 27/40	(33) Sweden
(72) SINGH, Tanul	B32B 7/05	(51) B32B 5/32
CLARK, Aaron David	B32B 7/09	B32B 5/02
(31) 201911047351	F41H 1/02	B32B 5/18
(32) 20.11.2019	F41H 5/04	B32B 5/24
(33) India	(11) EP3755531	B32B 7/08
(51) B32B 3/26	(21) EP19708635.8	B32B 7/12
A61L 15/00	(47) 26.07.2023	B32B 13/02
B29C 48/00	(87) GB2019050487	B32B 13/04
B29C 48/18	29.08.2019	B32B 13/14
B29C 48/30	(22) 22.02.2019	(11) EP4061632
B29D 28/00	(54) COMPOSITE STRUCTURE	(21) EP20799743.8
B32B 5/02	(73) Graphene Composites Limited	(47) 26.07.2023
B32B 5/04	(72) CHEN, Sandy	(87) EP2020081123
B32B 5/14	DEVINE, Stephen	27.05.2021
B32B 7/12	(31) 201802899	(22) 05.11.2020
B32B 27/08	201802895	(54) A THERMAL INSULATION BOARD COMPRISING AT LEAST ONE AEROGEL COMPOSITE MATERIAL FOR THE THERMAL INSULATION OF BUILDINGS
(11) EP3938199	(32) 22.02.2018	(73) Aspen Aerogels Inc.
(21) EP20708654.7	22.02.2018	BASF SE
(47) 26.07.2023	(33) United Kingdom	(72) KLINKEBIEL, Arne
(87) IB2020051313	(51) B32B 5/02	EVANS, Owen Richards
17.09.2020	B32B 5/08	GOULD, George L.
(22) 17.02.2020	B32B 5/24	SCHMIDT, Christian
(54) COEXTRUDED POLYMERIC NETTINGS AND METHOD OF MAKING THE SAME	B32B 5/26	DEKRAFFT, Kathryn Elizabeth
(73) 3M Innovative Properties Company	B32B 5/28	ZAFIROPOULOS, Nicholas
(72) SAHNI, Vasav	B32B 27/08	LOELSBURG, Wibke
AUSEN, Ronald W.	B32B 27/12	GUENTHER, Eva
VOIGT, Michael W.	B32B 27/28	MIHALCIK, David J.
KARIM, Naimul	B32B 27/30	
	B32B 27/36	
	B32B 27/38	
	(11) EP3332958	

(31) 19211015	(11) EP2919983	(21) EP07700408.3
(32) 22.11.2019	(21) EP13854776.5	(47) 26.07.2023
(33) European Patent Office (EPO)	(47) 26.07.2023	(87) GB2007050001
(51) B32B 7/02	(87) US2013066796	12.07.2007
B32B 19/04	22.05.2014	(22) 02.01.2007
B32B 27/06	(22) 25.10.2013	(54) GLAZINGS
B32B 27/20	(54) ARTICLES INCLUDING FRIMS	(73) Pilkington Group Limited
B32B 27/40	(73) Hanwha Azdel, Inc.	(72) DURBIN, Neil
(11) EP3647052	(72) WANG, Ruomiao	WINSTANLEY, Neil
(21) EP18823126.0	HIPWELL, Jesse	(31) 0600022
(47) 26.07.2023	HAUSMAN, Richard	(32) 03.01.2006
(87) JP2018023710	(31) 201261725956 P	(33) United Kingdom
03.01.2019	(32) 13.11.2012	(51) B32B 17/10
(22) 21.06.2018	(33) United States of America	C09D 183/14
(54) DECORATIVE MATERIAL	(51) B32B 15/08	C08L 83/04
(73) Seiren Co., Ltd.	B32B 15/12	H01L 31/048
(72) SHINOZAKI, Michio	B32B 27/08	(11) EP2879808
KINOSHITA, Mitsugu	B32B 27/10	(21) EP13745062.3
(31) 2017124849	B32B 27/32	(47) 26.07.2023
(32) 27.06.2017	B32B 27/34	(87) EP2013066245
(33) Japan	B32B 27/36	06.02.2014
(51) B32B 7/12	B32B 27/30	(22) 02.08.2013
B32B 23/08	B32B 29/08	(54) PROCESS FOR THE MANUFACTURE
B32B 27/08	B65D 75/40	OF A MULTILAYER SILICONE
B32B 27/10	B65D 85/72	STRUCTURE
B32B 27/16	(11) EP3380323	(73) Momentive Performance Materials GmbH
B32B 27/32	(21) EP16801239.1	(72) DE SANTIS, Cristian
B32B 27/36	(47) 26.07.2023	RUPPENTHAL, Andrea
B32B 29/06	(87) EP2016078751	KRETSCHMANN, Oliver
B32B 37/00	01.06.2017	KOOPMANS, Carsten
(11) EP3517291	(22) 25.11.2016	PUTZER, Markus
(21) EP18215722.2	(54) LAMINATED PACKAGING MATERIAL,	(31) 12179288
(47) 26.07.2023	PACKAGING CONTAINERS	(32) 03.08.2012
(22) 21.12.2018	MANUFACTURED THEREFROM AND A	(33) European Patent Office (EPO)
(54) BARRIER FILM AND LAMINATED	METHOD FOR MANUFACTURING THE	(51) B32B 27/08
PACKAGING MATERIAL COMPRISING	LAMINATE MATERIAL	B32B 27/30
THE FILM AND PACKAGING	(73) Tetra Laval Holdings & Finance S.A.	B32B 27/32
CONTAINER MADE THEREFROM	(72) NEAGU, Cristian	(11) EP4010190
(73) Tetra Laval Holdings & Finance S.A.	JONASSON, Katarina	(21) EP20758398.0
(72) LORENZETTI, Cesare	NYMAN, Ulf	(47) 26.07.2023
(31) 18153179	TOFT, Nils	(87) US2020044862
(32) 24.01.2018	(31) 15196869	11.02.2021
(33) European Patent Office (EPO)	(32) 27.11.2015	(22) 04.08.2020
(51) B32B 7/12	(33) European Patent Office (EPO)	(54) MULTILAYER FILMS THAT INCLUDE AT
B32B 27/08	(51) B32B 17/10	LEAST FIVE LAYERS AND METHODS
B32B 27/18	B32B 7/022	OF PRODUCING THE SAME
B32B 27/30	B32B 7/027	(73) Dow Quimica de Colombia S.A.
B32B 27/32	(11) EP2822761	Dow Global Technologies LLC
B32B 27/36	(21) EP13757479.4	(72) KAPUR, Mridula
(11) EP3843991	(47) 26.07.2023	MAZZOLA, Nicolas Cardoso
(21) EP19763149.2	(87) US2013029779	GAUBERT, Joshua B.
(47) 26.07.2023	12.09.2013	ONER-DELIORMANLI, Didem
(87) US2019047862	(22) 08.03.2013	DEMIRORS, Mehmet
05.03.2020	(54) HIGH RIGIDITY INTERLAYERS AND	GINGER, Douglas S.
(22) 23.08.2019	LIGHT WEIGHT LAMINATED MULTIPLE	BISWAS, Sanjib
(54) ODOR-MANAGED OSTOMY FILM	LAYER PANELS	DE OLIVEIRA, Marlos Guintini
(73) Dow Global Technologies LLC	(73) Solutia Inc.	RODRIGUEZ CAMELO, Jorge Mario
(72) WEVERS, Ronald	(72) LU, Jun	(31) 201962883467 P
MATTEUCCI, Scott T.	(31) 201313781906	201962883475 P
LU, Keran	201261609102 P	(32) 06.08.2019
SUN, Kefu	(32) 01.03.2013	06.08.2019
BONEKAMP, Jeffrey E.	09.03.2012	(33) United States of America
KRASOVSKIY, Arkady L.	(33) United States of America	United States of America
(31) 201862725391 P	United States of America	(51) B32B 27/08
(32) 31.08.2018	(51) B32B 17/10	B32B 27/30
(33) United States of America	B60J 1/00	B32B 27/32
(51) B32B 15/06	B62D 25/06	(11) EP4010191
B32B 15/08	(11) EP1976693	(21) EP20760667.4

(47) 26.07.2023	07.05.2015	B33Y 40/00
(87) US2020044856 11.02.2021	(22) 31.10.2014	(11) EP3988303
(22) 04.08.2020	(54) A DECORATIVE PANEL	(21) EP21212599.1
(54) MULTILAYER FILMS HAVING AT LEAST THREE LAYERS AND METHODS OF PRODUCING THE SAME	(73) Trespa International B.V.	(47) 26.07.2023
(73) Dow Global Technologies LLC	(72) MARQUES DA SILVA MACEDO, Isabel Maria	(22) 10.11.2017
(72) KALIHARI, Vivek	HODGSON-STOKX, Marcelle	(54) METHOD FOR OPERATING AT LEAST ONE APPARATUS FOR ADDITIVELY MANUFACTURING OF THREEDIMENSIONAL OBJECTS
ALABOSON, Justice	(31) 2011719	(73) Concept Laser GmbH
ONER-DELIORMANLI, Didem	(32) 01.11.2013	(72) Kroher, Tanja Zeidler, Stephan
BISWAS, Sanjib	(33) Netherlands	
KAPUR, Mridula	(51) B32B 37/00	(51) B33Y 50/02
KARDOS, Lori L.	H01M 50/403	B29C 35/08
GINGER, Douglas S.	H01M 50/446	B29C 64/165
RUIZ, Jose Eduardo	H01M 50/449	B29C 64/379
OLAJIDE, JR., Francis O.	H01M 50/46	B29C 71/02
GAUBERT, Joshua B.	H01M 50/491	B32B 18/00
MAZZOLA, Nicolas Cardoso	B32B 37/14	B33Y 10/00
(31) 201962883467 P	H01M 10/052	B33Y 30/00
201962883469 P	H01M 10/0565	B33Y 70/00
(32) 06.08.2019	H01M 50/489	C04B 35/053
06.08.2019	(11) EP3460898	C04B 35/111
(33) United States of America	(21) EP17869477.4	C04B 35/14
United States of America	(47) 26.07.2023	C04B 35/185
(51) B32B 27/08	(87) KR2017012688	C04B 35/46
B32B 27/32	17.05.2018	C04B 35/486
A61J 1/00	(22) 09.11.2017	C04B 35/495
A61L 2/08	(54) METHOD FOR LAMINATION OF BATTERY CELL USING SOLVENT AND CHAMBER DEVICE FOR CARRYING OUT LAMINATION	C04B 35/505
(11) EP3990279	(73) LG Energy Solution, Ltd.	C04B 35/553
(21) EP20747042.8	(72) KIM, Won-Nyeon	C04B 35/583
(47) 26.07.2023	KU, Cha-Hun	C04B 35/653
(87) FR2020051112	KIM, Tae-Kyu	C04B 35/584
30.12.2020	(31) 20160148984	B22F 3/105
(22) 25.06.2020	(32) 09.11.2016	(11) EP3331686
(54) POLYMER PACKAGING AND USE THEREOF FOR PRESERVING A PHARMACEUTICAL COMPOSITION	(33) Korea (Republic)	(21) EP15910964.4
(73) Ceva Santé Animale	(51) B32B 38/18	(47) 26.07.2023
(72) LACOSTE, Sandrine	B44C 5/04	(87) US2015066821
GUIMBERTEAU, Florence	E04F 13/14	22.06.2017
(31) 1906965	B32B 7/12	(22) 18.12.2015
(32) 26.06.2019	B32B 9/04	(54) EXTRACTION OF DIGITALLY PRINTED BUILD MATERIAL
(33) France	(11) EP3871881	(73) Hewlett-Packard Development Company, L.P.
(51) B32B 27/08	(21) EP20167584.0	(72) CHAMPION, David A. JUAN, Fernando
B32B 27/32	(47) 26.07.2023	ABBOTT, James Elmer Jr.
C08L 23/08	(22) 01.04.2020	
(11) EP3902677	(54) PROCESSING METHOD OF STONE COMPOSITE BOARD	(51) B41F 16/00
(21) EP19824365.1	(73) Li, Zuoxiang	B30B 1/04
(47) 26.07.2023	(72) Li, Zuoxiang	B30B 15/06
(87) EP2019086918	(31) 202010121898	B44C 1/17
02.07.2020	(32) 26.02.2020	(11) EP3904101
(22) 23.12.2019	(33) China	(21) EP21171484.5
(54) MULTILAYER FILM	(51) B33Y 10/00	(47) 26.07.2023
(73) Borealis AG	B33Y 30/00	(22) 30.04.2021
(72) SCHUSTER, Gerhard	B33Y 50/02	(54) CAP LOGO APPLICATOR
TRAN, Tuan Anh	B29C 64/153	(73) Stahls' Inc
(31) 18248113	B29C 64/259	(72) Robinson, Benjamin B. Zhang, Weiyu
(32) 28.12.2018	B29C 64/357	Galkin, Anton
(33) European Patent Office (EPO)	B29C 64/393	(31) 202117243023
(51) B32B 27/40	B29C 64/307	202063018753 P
B32B 27/42	B29C 64/205	(32) 28.04.2021
B32B 29/00	B29C 64/264	01.05.2020
B32B 27/20	B22F 10/30	(33) United States of America
(11) EP3063005	B22F 12/00	United States of America
(21) EP14799051.9	B22F 10/28	
(47) 26.07.2023	B22F 10/34	(51) B41F 33/00
(87) NL2014050758	B22F 10/85	B42D 25/48

B42D 25/405	(31) 201310186055	(11) EP3814143
G01J 3/52	(32) 17.05.2013	(21) EP19782847.8
(11) EP3208089	(33) China	(47) 26.07.2023
(21) EP17156744.9	(51) B41J 2/175	(87) US2019052224
(47) 26.07.2023	B41J 2/135	25.03.2021
(22) 17.02.2017	B41J 2/155	(22) 20.09.2019
(54) EMBEDDED COLOR BAR AND PRITNING METHOD	B41J 2/16	(54) PRINTER RECIRCULATION CONTROL
(73) manroland Goss web systems GmbH	B41J 2/14	(73) HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.
(72) WALCZAK, Peter Walter	(11) EP3362291	(72) CRESPI SERRANO, Albert
ELKINSON, Brian Robert	(21) EP15906336.1	BOLEDA BUSQUETS, Miquel
BROOKS, Christopher Thomas	(47) 26.07.2023	BUTINYA TEIXIDO, David
KULAK, John Joseph	(87) US2015055086	KAIKKONEN, Tuomo Eljas
(31) 201662297064 P	20.04.2017	CASTANO ASPAS, Jorge
(32) 18.02.2016	(22) 12.10.2015	
(33) United States of America	(54) PRINthead	(51) B41J 2/21
(51) B41J 2/045	(73) Hewlett-Packard Development Company, L.P.	G01N 35/10
B41J 2/165	(72) CHEN, Chien-Hua	G01N 35/00
(11) EP3851283	CUMBIE, Michael W.	(11) EP3798002
(21) EP21151806.3	CHOY, Silam J.	(21) EP20192054.3
(47) 26.07.2023	(51) B41J 2/175	(47) 26.07.2023
(22) 15.01.2021	B41J 25/00	(22) 21.08.2020
(54) DETERMINING THE OPERATIONAL STATUS OF A PRINthead	(11) EP3792064	(54) CHEMICAL LIQUID DISPENSING APPARATUS
(73) Meteor Inkjet Ltd	(21) EP20192837.1	(73) Toshiba TEC Kabushiki Kaisha
(72) RODRIGUEZ-LLORENTE, Fernando	(47) 26.07.2023	(72) KUSUNOKI, Ryutaro
(31) 202000745	(22) 26.08.2020	YOKOYAMA, Shuhei
(32) 17.01.2020	(54) LIQUID DISCHARGE APPARATUS	(31) 2019172694
(33) United Kingdom	(73) Ricoh Company, Ltd.	(32) 24.09.2019
(51) B41J 2/14	(72) NAKAMURA, Daisuke	(33) Japan
(11) EP3468801	(31) 2019164214	(51) B41J 2/21
(21) EP16918640.0	(32) 10.09.2019	H04N 1/407
(47) 26.07.2023	(33) Japan	(11) EP3628500
(87) US2016057095	(51) B41J 2/175	(21) EP18425076.9
19.04.2018	B41J 29/13	(47) 26.07.2023
(22) 14.10.2016	(11) EP3853029	(22) 28.09.2018
(54) FLUID EJECTION DEVICE	(21) EP19772877.7	(54) METHOD AND SYSTEM FOR THE DETECTION AND CORRECTION OF PRINTING DEFECTS AND/OR FOR THE SETUP DURING START- UP PHASE OF A DIGITAL PRINTING DEVICE
(73) Hewlett-Packard Development Company, L.P.	(47) 26.07.2023	(73) NEOS S.r.l.
(72) VALENCIA, Melinda M.	(87) IB2019057475	(72) Palumbo, Vincenzo
LEBRON, Hector J.	26.03.2020	(51) B41J 2/475
(51) B41J 2/155	(22) 05.09.2019	B41M 5/30
(11) EP3848205	(54) MANAGEMENT SYSTEM FOR THE INK IN A PRINTING MACHINE	B41M 5/34
(21) EP21159190.4	(73) System Ceramics S.p.A.	B41M 5/323
(47) 26.07.2023	(72) STEFANI, Franco	B41M 5/327
(22) 04.12.2015	(31) 201800008812	B41M 5/333
(54) METHOD FOR MANUFACTURING A PRINTING BAR UNIT FOR A PRINTING SYSTEM, AND A PRINTING BAR UNIT	(32) 21.09.2018	(11) EP3812159
(73) SPGPrints B.V.	(33) Italy	(21) EP19822841.3
(72) MANDERS, Dhr. Martinus Gerardus Jozef	(51) B41J 2/175	(47) 26.07.2023
SCHOLTEN, Dhr. Corné Geert Jan	B41L 27/04	(87) JP2019022474
VAN DE KRUIJS, Dhr. Franciscus	B41J 1/00	26.12.2019
Wilhelmus Johanna Gerardus	(11) EP3697620	(22) 06.06.2019
(31) 2013931	(21) EP17928844.4	(54) DRAWING AND ERASING DEVICE AND ERASING METHOD
(32) 05.12.2014	(47) 26.07.2023	(73) Sony Group Corporation
(33) Netherlands	(87) US2017057742	(72) TAKEUCHI, Taichi
(51) B41J 2/175	25.04.2019	TAKAHASHI, Isao
(11) EP3572233	(22) 20.10.2017	SHIBATA, Eikichi
(21) EP18197625.9	(54) INK TANK CAP AND VALVE LINKAGE	ASAOKA, Satoko
(47) 26.07.2023	(73) Hewlett-Packard Development Company, L.P.	HIRAI, Nobukazu
(22) 12.12.2013	(72) JARIABKA, Keith	HOSHI, Mitsunari
(54) INK CARTRIDGE CHIP, INK CARTRIDGE, AND STRUCTURAL BODY	OSBORNE, William S.	(31) 2018118966
(73) Zhuhai Ninestar Management Co., Ltd.	CONLEY, Theodore J.	(32) 22.06.2018
(72) Qin, Lei	CANTRELL, John J.	(33) Japan
	(51) B41J 2/18	(51) B41J 3/407
	B41J 2/175	
	B41J 2/185	
	C09D 11/30	

B41J 11/06	(54) PRINTER COMPRISING A TAPE DRIVE	25.03.2021
B41J 25/304	AND METHOD	(22) 16.09.2020
B41J 11/20	(73) Videojet Technologies Inc.	(54) METHOD FOR PRODUCING A
B05C 13/02	(72) HART, Philip	SECURITY ELEMENT, AND SECURITY
(11) EP3705190	ELLIS, Jeremy	ELEMENT
(21) EP18871999.1	(31) 201710350	(73) Giesecke+Devrient Currency Technology
(47) 26.07.2023	201710351	GmbH
(87) JP2018040765	(32) 28.06.2017	(72) SCHERER, Maik Rudolf Johann
09.05.2019	28.06.2017	FUHSE, Christian
(22) 01.11.2018	(33) United Kingdom	GERHARDT, Thomas
(54) LIQUID MATERIAL APPLICATION	United Kingdom	SZENDREI-TEMESI, Katalin
DEVICE AND APPLICATION METHOD	(51) B41M 3/14	SATTLER, Tobias
(73) Musashi Engineering, Inc.	B41M 5/26	GOTTSCHLING, Kerstin
(72) IKUSHIMA, Kazumasa	(11) EP3109055	RAHM, Michael
(31) 2017212998	(21) EP16174328.1	SCHAUMBURGER, Udo
(32) 02.11.2017	(47) 26.07.2023	(31) 102019008021
(33) Japan	(22) 14.06.2016	102019006653
(51) B41J 11/00	(54) METHODS FOR MARKING AND	(32) 19.11.2019
(11) EP3798008	MARKED ARTICLES	20.09.2019
(21) EP20196443.4	(73) General Electric Company	(33) Germany
(47) 26.07.2023	(72) SOLOWAY, Daniel David	Germany
(22) 16.09.2020	(31) 201514750652	(51) B44C 3/02
(54) INKJET PRINTING APPARATUS AND	(32) 25.06.2015	B05D 1/36
INKJET PRINTING METHOD	(33) United States of America	B05D 5/06
(73) SCREEN Holdings Co., Ltd.	(51) B41M 7/00	B44C 5/04
(72) FUKUI, Tamio	B41J 2/01	(11) EP3835079
(31) 2019172468	B41J 3/36	(21) EP19215652.9
(32) 24.09.2019	C09D 11/324	(47) 26.07.2023
(33) Japan	C09D 11/326	(22) 12.12.2019
(51) B41J 29/00	G09F 3/00	(54) DIGITAL PRINTING STRUCTURED
G05D 23/19	B41M 5/00	WEAR-RESISTANT FILM WITH
B29C 35/02	(11) EP3650237	ADJUSTABLE GLOSS
B33Y 50/02	(21) EP18827474.0	(73) Akzenta Paneele + Profile GmbH
B33Y 30/00	(47) 26.07.2023	(72) Hannig, Hans-Jürgen
B33Y 10/00	(87) JP2018022935	(51) B44D 3/02
B29C 64/165	10.01.2019	B44D 3/04
B29C 64/393	(22) 15.06.2018	(11) EP3293017
G05D 23/27	(54) INK JET RECORDING METHOD	(21) EP17189268.0
(11) EP3044008	(73) Kao Corporation	(47) 26.07.2023
(21) EP14783790.0	(72) II, Tomoaki	(22) 04.09.2017
(47) 26.07.2023	TAIRADATE, Jun	(54) PAINT BOX WITH LID DESIGNED AS A
(87) EP2014071240	SAKAI, Hideki	PAINTING PALETTE
07.04.2016	TSURU, Isao	(73) Pelikan PBS-Produktionsgesellschaft
(22) 03.10.2014	NIIZEKI, Yoshiharu	mbH & Co. KG
(54) METHOD AND APPARATUS FOR	YOSHIDA, Norihiro	(72) Schäfer, Detmar
CONTROLLING HEATING OF	YAMADA, Kimiya	(31) 102016116825
A SURFACE OF A LAYER OF	(31) 2017132161	(32) 08.09.2016
BUILD MATERIAL IN ADDITIVE	(32) 05.07.2017	(33) Germany
MANUFACTURING OF AN OBJECT	(33) Japan	(51) B60B 19/00
(73) Hewlett-Packard Development Company,	(51) B42D 25/324	B60B 33/00
L.P.	(11) EP4121299	(11) EP3909785
(72) CORTES I HERMS, Sebastia	(21) EP21712759.6	(21) EP21166812.4
VILAJOSANA GUILLEN, Xavier	(47) 26.07.2023	(47) 26.07.2023
ROSSOW SETHNE, Yngvar	(87) EP2021056474	(22) 02.04.2021
(51) B41J 35/36	23.09.2021	(54) OMNIDIRECTIONAL WHEEL
B41J 29/393	(22) 15.03.2021	(73) Fulian Precision Electronics (Tianjin) Co.,
B41J 17/36	(54) FLAT SECURITY ELEMENT WITH	LTD.
B41J 2/36	OPTICAL SECURITY FEATURES	(72) WANG, Pao-Ching
B41J 17/02	(73) Hueck Folien Gesellschaft m.b.H.	LIN, Ke-Cheng
B41J 17/07	(72) TRASSL, Stephan	(31) 202010412071
B41J 17/10	(31) 502252020	(32) 15.05.2020
B41J 33/16	(32) 16.03.2020	(33) China
(11) EP3645294	(33) Austria	(51) B60B 19/00
(21) EP18739588.4	(51) B42D 25/435	B60B 33/00
(47) 26.07.2023	(11) EP4031380	B23K 37/00
(87) GB2018051795	(21) EP20775818.6	(11) EP3842258
03.01.2019	(47) 26.07.2023	(21) EP20774867.4
(22) 27.06.2018	(87) EP2020025418	(47) 26.07.2023

(87) CN2020070730 20.05.2021	(33) United States of America	(47) 26.07.2023
(22) 07.01.2020	(51) B60C 5/14	(87) JP2018043049
(54) WELDING SHAFT AND WHEEL ASSEMBLY FOR UNIVERSAL WHEEL AND UNIVERSAL WHEEL	B60C 9/02	20.06.2019
(73) IF Health (Xiamen) Intelligent Technology Co., Ltd	(11) EP3990292	(22) 21.11.2018
(72) JIE, Yebing	(21) EP20735242.8	(54) AIRCRAFT TIRE
(31) 201911122541	(47) 26.07.2023	(73) Bridgestone Corporation
(32) 15.11.2019	(87) IB2020055978	(72) SUZUMORI, Kiichiro
(33) China	30.12.2020	(31) 2017239014
(51) B60B 27/00	(22) 24.06.2020	(32) 13.12.2017
(11) EP3710281	(54) BODY PLY SKIM LAYER	(33) Japan
(21) EP18804511.6	(73) Bridgestone Europe NV/SA	(51) B60C 11/03
(47) 26.07.2023	(72) FIORENZA, Paolo	B60C 11/04
(87) DE2018100917	ANDREINI, Giacomo	B60C 11/13
16.05.2019	(31) 201900010449	(11) EP3974208
(22) 12.11.2018	(32) 28.06.2019	(21) EP21194469.9
(54) VEHICLE WHEEL AND METHOD OF MANUFACTURING OF A WHEEL ARRANGEMENT	(33) Italy	(47) 26.07.2023
(73) Action Composites GmbH	(51) B60C 5/14	(22) 02.09.2021
(72) BARTSCH, André	B60C 9/06	(54) VEHICLE TYRES
KÖHLER, Christian	B60C 9/08	(73) Continental Reifen Deutschland GmbH
FRANKE, Florian	B60C 9/22	(72) Kristen, Florian
WERNER, Jens	B29D 30/06	Lutz, André
MÄKE, Sandro	B29D 30/00	(31) 102020211972
FRANKE, Michael	B60C 9/20	(32) 24.09.2020
DRESSLER, Michael	B60C 9/04	(33) Germany
(31) 102017126636	B29D 30/30	(51) B60C 13/00
(32) 13.11.2017	B29D 30/36	B29C 33/38
(33) Germany	(11) EP4045336	B29C 33/42
(51) B60C 1/00	(21) EP20799776.8	(11) EP3808576
C08L 9/06	(47) 26.07.2023	(21) EP20197683.4
(11) EP3450204	(87) FR2020051837	(47) 26.07.2023
(21) EP18190973.0	22.04.2021	(22) 23.09.2020
(47) 26.07.2023	(22) 15.10.2020	(54) VEHICLE TYRE COMPRISING A HATCHED SURFACE AND METHOD OF MANUFACTURING A MOULD
(22) 27.08.2018	(54) LOW-NOISE TYRE AND METHOD FOR MANUFACTURING SAME	(73) Continental Reifen Deutschland GmbH
(54) PNEUMATIC TIRE HAVING A TREAD WITH AN ALKOXYSILANE- TERMINATED POLYBUTADIENE	(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN	(72) Jurco, Juraj
(73) The Goodyear Tire & Rubber Company	(72) ROTY, Gael	Rittweger, Stefan
(72) TAHON, Julia Martine Francoise Claudine	MERINO LOPEZ, José	(31) 102019215726
MAILAENDER, Lisa	MUHLHOFF, Olivier	(32) 14.10.2019
BROEMMEL, Antonia Felicitas	(31) 1911529	(33) Germany
KORFMANN, Timo Benjamin	(32) 16.10.2019	(51) B60C 15/06
KAES, Christian	(33) France	(11) EP3640060
(31) 201715782142	(51) B60C 7/10	(21) EP19202218.4
201762551979 P	B60C 7/22	(47) 26.07.2023
(32) 12.10.2017	B60C 19/08	(22) 09.10.2019
30.08.2017	B29D 30/00	(54) PNEUMATIC TIRE
(33) United States of America	(11) EP4015241	(73) The Goodyear Tire & Rubber Company
United States of America	(21) EP21212774.0	(72) WELBES, Paul
(51) B60C 1/00	(47) 26.07.2023	KOTWICA, Jaroslaw Antoni
C08L 15/00	(22) 07.12.2021	(31) 201816161629
(11) EP3127712	(54) SOLID TYRE AND METHOD FOR MANUFACTURING THE SAME	(32) 16.10.2018
(21) EP16181560.0	(73) Continental Reifen Deutschland GmbH	(33) United States of America
(47) 26.07.2023	(72) Sauerwald, Hans-Jürgen	(51) B60C 23/04
(22) 27.07.2016	Müller, Matthias-Stephan	(11) EP3470246
(54) PNEUMATIC TIRE	(31) 102020215871	(21) EP18199637.2
(73) The Goodyear Tire & Rubber Company	(32) 15.12.2020	(47) 26.07.2023
(72) POMPEI, Manuela	(33) Germany	(22) 10.10.2018
ISITMAN, Nihat Ali	(51) B60C 9/08	(54) METHOD FOR AUTO-LOCATION OF SENSORS MOUNTED ON THE WHEELS OF A VEHICLE
THIELEN, Georges Marcel Victor	D07B 1/00	(73) LID Technologies
(31) 201514818774	B60C 15/06	(72) MOREAU, Thierry
(32) 05.08.2015	B60C 9/02	MARTINEZ, Benjamin
	D07B 1/02	(31) 1759638
	B60C 15/00	(32) 13.10.2017
	B60C 9/00	(33) France
	D02G 3/48	(51) B60C 23/06
	(11) EP3725544	
	(21) EP18889166.7	

B60C 23/04	B60G 21/055	(51) B60H 1/00
(11) EP3642058	G01L 3/10	B60W 20/20
(21) EP18738200.7	(11) EP3840968	B60K 6/442
(47) 26.07.2023	(21) EP19716860.2	B60K 6/445
(87) EP2018065835	(47) 26.07.2023	B60W 10/30
27.12.2018	(87) EP2019058443	B60W 20/16
(22) 14.06.2018	27.02.2020	(11) EP4015267
(54) WHEEL MONITORING IN A VEHICLE	(22) 04.04.2019	(21) EP21216513.8
(73) Nira Dynamics AB	(54) ROLL STABILIZER	(47) 26.07.2023
(72) KARLSSON, Rickard	(73) ZF Friedrichshafen AG	(22) 21.12.2021
LINDSKOG, Peter	(72) ENGEL, Markus	(54) VEHICLE CONTROL DEVICE
(31) 1750775	HASKAMP, Klaus	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
(32) 19.06.2017	GOLLIN, Armin	(72) CHIBA, Hiroya
(33) Sweden	MARS, Christoph	YOKOYAMA, Daiki
(51) B60C 23/06	(31) 102018218598	SHIMADA, Masanori
G01B 7/04	102018214345	KAGEURA, Yoshiyuki
G01M 17/02	(32) 30.10.2018	OGISO, Makoto
B60C 23/04	24.08.2018	SAKAYANAGI, Yoshihiro
B60W 40/13	(33) Germany	KURIHASHI, Sui
G01L 17/00	Germany	MORITA, Hiroki
B60C 19/00	(51) B60G 17/052	(31) 2020211480
(11) EP3925805	(11) EP3705322	(32) 21.12.2020
(21) EP21179470.6	(21) EP20160832.0	(33) Japan
(47) 26.07.2023	(47) 26.07.2023	(51) B60H 1/00
(22) 15.06.2021	(22) 04.03.2020	G06V 20/59
(54) TIRE LOAD ESTIMATION SYSTEM AND METHOD	(54) METHOD FOR CONTROLLING THE HEIGHT OF A PNEUMATIC VEHICLE	G06V 10/764
(73) The Goodyear Tire & Rubber Company	(73) ZF CV Systems Europe BV	(11) EP3871910
(72) DECOSTER, Yves Francois Claude	(72) GERLACH, Steffen	(21) EP20159967.7
(31) 202117228838	WINKEL, Marcel	(47) 26.07.2023
202063039754 P	WITTE, Norbert	(22) 28.02.2020
(32) 13.04.2021	(31) 102019105791	(54) REGULATION OF VEHICLE INTERIOR CLIMATE
16.06.2020	(32) 07.03.2019	(73) Ningbo Geely Automobile Research & Development Co. Ltd.
(33) United States of America	(33) Germany	Zhejiang Geely Holding Group Co., Ltd.
United States of America	(51) B60H 1/00	(72) PIHLSGÅRD, Måns
(51) B60C 25/138	B60H 1/32	SETTERBERG, Johan
B60C 25/05	(11) EP3984791	(51) B60J 3/04
(11) EP3865321	(21) EP20202112.7	(11) EP3939814
(21) EP21154807.8	(47) 26.07.2023	(21) EP21181775.4
(47) 26.07.2023	(22) 15.10.2020	(47) 26.07.2023
(22) 02.02.2021	(54) THERMAL MANAGEMENT UNIT, THERMAL MANAGEMENT SYSTEM, AND AN ELECTRICAL VEHICLE INCLUDING THE THERMAL MANAGEMENT SYSTEM	(22) 25.06.2021
(54) APPARATUS AND PROCESS FOR THE ASSEMBLY AND DISASSEMBLY OF TIRES	(73) Ymer Technology AB	(54) VEHICLE DIMMER CONTROL SYSTEM
(73) Butler Engineering & Marketing S.p.A.	(72) Graubmann, Josef	(73) Yazaki Corporation
(72) GONZAGA, Tullio	(51) B60H 1/00	(72) TANAKA, Moyo
SIGNORELLI, Paolo	B60H 1/32	SUGIMOTO, Terumitsu
(31) 202000002920	F16H 61/662	(31) 2020121887
(32) 13.02.2020	F16H 37/02	(32) 16.07.2020
(33) Italy	B60K 25/08	(33) Japan
(51) B60G 3/20	F16H 57/02	(51) B60J 5/12
B60G 7/00	F16H 59/40	B60P 3/20
B60G 13/00	F16H 59/42	B65D 90/02
(11) EP3672817	F16H 9/12	(11) EP3642064
(21) EP18743732.2	F16H 9/24	(21) EP18743125.9
(47) 26.07.2023	(11) EP3803161	(47) 26.07.2023
(87) EP2018069186	(21) EP18753456.5	(87) US2018038974
28.02.2019	(47) 26.07.2023	27.12.2018
(22) 16.07.2018	(87) IB2018000756	(22) 22.06.2018
(54) WHEEL SUSPENSION FOR A MOTOR VEHICLE	05.12.2019	(54) CONTAINER REFRIGERATION UNIT
(73) ZF Friedrichshafen AG	(22) 30.05.2018	(73) Carrier Corporation
(72) WALLGREN, Klaus	(54) ENERGY MANAGEMENT SYSTEMS (EMS) FOR TRANSPORTATION REFRIGERATION UNITS (TRU)	(72) POSTGATE, Farley William
HEIDSIECK, Knut	(73) Carrier Corporation	SPEARING, Robert C.
(31) 102017214639	(72) RENAULT, Loic	(31) 201762523938 P
(32) 22.08.2017		(32) 23.06.2017
(33) Germany		(33) United States of America
(51) B60G 17/019		(51) B60J 7/02
		B60J 7/043
		(11) EP3969304

(21) EP20724085.4	B60W 20/40	(54) COMBINED INSTRUMENT FOR HIERARCHY-FREE FUNCTION SELECTION
(47) 26.07.2023	(11) EP4063161	(73) MAN Truck & Bus SE
(87) EP2020062439	(21) EP22158548.2	(72) Arnold, Claus
26.11.2020	(47) 26.07.2023	Wölfel, Christiane
(22) 05.05.2020	(22) 24.02.2022	Güllich, Johannes
(54) ASSEMBLY AND METHOD FOR MOVING A COVER	(54) CONTROL METHOD, CONTROL SYSTEM OF HYBRID VEHICLE, AND HYBRID VEHICLE	Mohra, Holger
(73) Webasto SE	(73) MAZDA MOTOR CORPORATION	Gerlinger, David
(72) ROLWES, Jan	(72) SAITO, Tadashi	Zademach, Martin
(31) 102019113142	(72) KASHIMOTO, Takahiro	(31) 102017113229
(32) 17.05.2019	FUKUDA, Yutaro	(32) 16.06.2017
(33) Germany	(31) 2021053190	(33) Germany
(51) B60K 1/02	(32) 26.03.2021	(51) B60K 35/00
B60K 17/02	(33) Japan	B60K 37/02
B60K 25/06	(51) B60K 6/48	(11) EP3699011
B60K 25/02	B60W 10/06	(21) EP20156363.2
B60K 25/00	B60W 10/08	(47) 26.07.2023
F16H 3/089	B60W 20/13	(22) 28.12.2017
(11) EP3750733	B60W 30/18	(54) DISPLAY DEVICE AND VEHICLE HAVING THE SAME
(21) EP19179890.9	B60W 50/00	(73) LG Electronics Inc.
(47) 26.07.2023	(11) EP4003768	(72) SHIM, Inkoo
(22) 13.06.2019	(21) EP20747025.3	LEE, Byungju
(54) DUAL MOTOR ELECTRIC DRIVELINE	(47) 26.07.2023	LEE, Ahreum
(73) Dana Italia S.r.L.	(87) FR2020051090	KIM, Sangwon
(72) VAN RAEPENBUSCH, Filip	28.01.2021	LEE, Kihoon
SERRAO, Lorenzo	(22) 23.06.2020	(31) 20170150717
(51) B60K 1/02	(54) CONTROL OF THE RECHARGES OF A BATTERY OF A VEHICLE IN WHICH THE GEARBOX IS IN NEUTRAL	(32) 13.11.2017
B60K 25/00	(73) PSA Automobiles SA	(33) Korea (Republic)
B60K 25/06	(72) MILHAU, Yohan	(51) B60K 37/02
B60K 17/28	ROCQ, Gaetan	B60K 37/06
B60K 17/356	(31) 1908319	G08G 1/16
(11) EP3863877	(32) 23.07.2019	B60W 50/10
(21) EP19783479.9	(33) France	B60W 30/00
(47) 26.07.2023	(51) B60K 20/02	B60W 60/00
(87) EP2019076691	E02F 9/22	(11) EP3838701
16.04.2020	F16H 59/08	(21) EP18930312.6
(22) 02.10.2019	F16H 61/00	(47) 26.07.2023
(54) UTILITY VEHICLE DRIVELINE	E02F 9/20	(87) JP2018030215
(73) AGCO International GmbH	(11) EP3560745	20.02.2020
(72) BREU, Wolfgang	(21) EP17883756.3	(22) 13.08.2018
GRITSCH, Stefan	(47) 26.07.2023	(54) VEHICLE TRAVEL CONTROL METHOD AND TRAVEL CONTROL DEVICE
(31) 201816587	(87) JP2017045782	(73) NISSAN MOTOR CO., LTD.
(32) 11.10.2018	28.06.2018	(72) OKI, Takahiko
(33) United Kingdom	(22) 20.12.2017	HAYAKAWA, Yasuhisa
(51) B60K 1/04	(54) WORK MACHINE	(51) B60L 1/00
H01M 10/60	(73) Kubota Corporation	B60L 3/00
B60K 1/00	(72) HORII Hiroshi	B60L 5/18
H01M 10/625	(31) 2017127528	B60L 9/00
H01M 10/658	2016250143	(11) EP3994022
(11) EP4035917	(32) 29.06.2017	(21) EP20763998.0
(21) EP22152291.5	22.12.2016	(47) 26.07.2023
(47) 26.07.2023	(33) Japan	(87) EP2020072401
(22) 19.01.2022	Japan	11.03.2021
(54) HEAT INSULATING STRUCTURE OF ELECTRIC COMPONENT	(51) B60K 35/00	(22) 10.08.2020
(73) Suzuki Motor Corporation	B60K 37/00	(54) MULTIPLE-UNIT RAIL VEHICLE
(72) HOSHINO, Shinichi	B60K 37/06	(73) Siemens Mobility GmbH
OBARA, Akihiro	G06F 3/02	(72) WOLF, Guido
SANADA, Ayumu	G06F 3/0484	(31) 102019213202
(31) 2021006979	B60K 37/02	(32) 02.09.2019
(32) 20.01.2021	(11) EP3418101	(33) Germany
(33) Japan	(21) EP18175905.1	(51) B60L 3/00
(51) B60K 6/365	(47) 26.07.2023	B60L 3/04
B60K 6/387	(22) 05.06.2018	B60L 3/12
B60K 6/48		B60L 58/10
B60W 10/02		(11) EP3875301
B60W 10/06		
B60W 10/08		

(21) EP21159783.6	Japan	H02J 7/02
(47) 26.07.2023	(51) B60L 53/24	(11) EP3938235
(22) 26.02.2021	H02J 7/00	(21) EP21717472.1
(54) VEHICLE AND BATTERY PACK FOR THE SAME	H02J 7/02	(47) 26.07.2023
(73) Samsung SDI Co., Ltd.	H02M 1/10	(87) EP2021059737
(72) KIM, Dolores	H02M 3/335	21.10.2021
SONG, Joonwoo	H02M 1/00	(22) 15.04.2021
MIN, Byeongseon	H02M 7/48	(54) SYSTEM AND METHOD FOR CHARGING MOTOR VEHICLES
(31) 20200027215	H02M 1/42	(73) Institut VEDECOM
(32) 04.03.2020	H02M 7/487	Chargepoly
(33) Korea (Republic)	(11) EP3915179	(72) RIPOLL, Christophe
(51) B60L 5/24	(21) EP19730092.4	COYNE, Paul
B60M 1/12	(47) 26.07.2023	MATTA, Joe
(11) EP3165398	(87) US2019034014	MOUSSAVI, Hadi
(21) EP15306778.0	03.12.2020	(31) 2004881
(47) 26.07.2023	(22) 24.05.2019	2003816
(22) 09.11.2015	(54) INTEGRATED CHARGER AND MOTOR CONTROL SYSTEM COMPRISING A TRANSFORMER AND MULTI-LEVEL POWER CONVERTERS	(32) 15.05.2020
(54) METHOD AND SYSTEM FOR MONITORING A PANTOGRAPH OF A RAILWAY VEHICLE AND RAILWAY VEHICLE	(73) Huawei Digital Power Technologies Co., Ltd.	16.04.2020
(73) ALSTOM Transport Technologies	(72) LIU, Weiping	(33) France
(72) LOGUERCIO, Donato-Carlo	DAI, Heping	France
BARLINI, Davide	LIANG, Yongtao	(51) B60L 55/00
(51) B60L 5/38	ZHU, Huibin	B60L 53/18
B60L 5/39	(51) B60L 53/302	(11) EP3505390
B60L 5/08	B60L 53/30	(21) EP18215845.1
(11) EP3829919	(11) EP3981641	(47) 26.07.2023
(21) EP19742392.4	(21) EP21198407.5	(22) 24.12.2018
(47) 26.07.2023	(47) 26.07.2023	(54) VEHICLE TO GRID MANAGEMENT SYSTEM
(87) EP2019070179	(22) 23.09.2021	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
30.01.2020	(54) COOLING TANK SYSTEM FOR A LIQUID COOLING OF A CHARGING STATION FOR ELECTRICALLY DRIVEN VEHICLES	(72) KATANODA, Tomoya
(22) 26.07.2019	(73) Dr.Ing. h.c. F. Porsche Aktiengesellschaft	(31) 2017253441
(54) DEVICE FOR CAPTURING AN ELECTRIC CURRENT FOR A RAIL VEHICLE	Ads-tec Energy GmbH	(32) 28.12.2017
(73) Mersen France SB SAS	(72) BOHNER, Matthias	(33) Japan
(72) DOSDA, Olivier	SPEIDEL, Thomas	(51) B60L 58/21
CANOLLE, Florent	HEYNE, Dr.-Ing. Raoul	(11) EP3243693
(31) 1857034	(31) 102020126413	(21) EP17169560.4
(32) 27.07.2018	(32) 08.10.2020	(47) 26.07.2023
(33) France	(33) Germany	(22) 04.05.2017
(51) B60L 53/14	(51) B60L 53/65	(54) ENERGY STORAGE SYSTEM OF A MOTOR VEHICLE AND OPERATING METHOD FOR SAME AND MOTOR VEHICLE
(11) EP2991188	H01M 10/42	(73) MAN Truck & Bus SE
(21) EP14787440.8	(11) EP3539815	(72) Braun, Reimar
(47) 26.07.2023	(21) EP19155685.1	(31) 102016005960
(87) JP2014002292	(47) 26.07.2023	(32) 13.05.2016
30.10.2014	(22) 06.02.2019	(33) Germany
(22) 23.04.2014	(54) METHOD AND SYSTEM FOR BATTERY BINDING	(51) B60N 2/20
(54) POWER CONVERSION SYSTEM, AND CONNECTOR	(73) Kwang Yang Motor Co., Ltd.	B60N 2/30
(73) Panasonic Intellectual Property Management Co., Ltd.	(72) CHEN, Yuh-Rey	(11) EP3765331
(72) KAGAWA, Takuya	CHUANG, Po-Yu	(21) EP19714077.5
TAMURA, Hideki	LIU, Te-Chuan	(47) 26.07.2023
KIDERA, Kazunori	HUNG, Chung-Jui	(87) US2019022679
(31) 2013177324	LIN, Jen-Chiun	19.09.2019
2013091628	LIN, Chen-Sheng	(22) 18.03.2019
2013091627	(31) 107108408	(54) SECONDARY STABILIZATION STRIKER FOR REVERSIBLE SEATS
2013091629	(32) 13.03.2018	(73) Magna Seating Inc.
(32) 28.08.2013	(33) Taiwan, Chinese Taipei	(72) DIOUM, Cheikh
24.04.2013	(51) B60L 53/66	MARINI, Detjon
24.04.2013	B60L 53/67	VETERE, Louis
24.04.2013	B60L 53/10	ZHAO, Kai
(33) Japan	B60L 53/14	NACY, Michael D.
Japan	B60L 58/12	(31) 201862643780 P
Japan	H02J 7/00	(32) 16.03.2018
		(33) United States of America
		(51) B60N 2/24

B60N 2/75	(11) EP4001008	10.01.2019
B60N 3/02	(21) EP21207764.8	(22) 03.07.2018
(11) EP4091873	(47) 26.07.2023	(54) DYNAMIC AND PROPORTIONAL SIGNALING SYSTEM FOR BRAKING MANOEUVRES
(21) EP22173600.2	(22) 11.11.2021	(73) Herrero Alvarez, María José
(47) 26.07.2023	(54) FLAT BED TRAILER	De La Morena De Castro, Manuel
(22) 16.05.2022	(73) WHC Hire Services Holdings Ltd	De La Morena De Castro, Alberto
(54) SEAT FOR PASSENGER TRANSPORT VEHICLE AND PASSENGER TRANSPORT VEHICLE COMPRISING SUCH A SEAT	(72) Clutterbuck, James Hopkins	(72) De La Morena De Castro, Alberto
(73) ALSTOM Holdings	(31) 202017763	Herrero Alvarez, María José
(72) LUGOL, Jean-Louis	(32) 11.11.2020	De La Morena De Castro, Manuel
COLLOT, Nicolas	(33) United Kingdom	(31) 201700657
GERGAUD, Didier	(51) B60P 3/39	(32) 07.07.2017
(31) 2105194	(11) EP3964393	(33) Spain
(32) 18.05.2021	(21) EP21193642.2	(51) B60Q 3/82
(33) France	(47) 26.07.2023	B60Q 3/60
(51) B60N 2/26	(22) 27.08.2021	B60Q 3/62
(11) EP4017760	(54) LIFTING BED FOR A RECREATIONAL VEHICLE	B60Q 3/64
(21) EP20776160.2	(73) Niesmann+Bischoff GmbH	B60Q 3/43
(47) 26.07.2023	(72) MÜLLER, Helena	B60Q 3/44
(87) EP2020076518	BRANDL, Hubert	F21S 43/236
01.04.2021	(31) 102020122497	F21S 43/237
(22) 23.09.2020	(32) 27.08.2020	F21S 43/239
(54) BACKREST LOCKING MECHANISM AND CHILD SAFETY SEAT THEREWITH	(33) Germany	F21S 43/241
(73) Wonderland Switzerland AG	(51) B60Q 1/04	F21S 43/40
(72) ZHAO, Guang-Hui	B60Q 1/28	F21S 41/32
(31) 201910916546	B60Q 1/30	F21S 43/243
(32) 26.09.2019	B60Q 1/32	F21S 43/20
(33) China	B60Q 1/50	F21S 43/31
(51) B60P 3/00	B61D 29/00	B60Q 3/74
B65G 1/10	B60Q 1/02	B60K 37/00
B66C 1/22	B60Q 1/00	(11) EP3898332
B66C 17/00	(11) EP3647112	(21) EP19795005.8
B66C 13/22	(21) EP18823737.4	(47) 26.07.2023
(11) EP4052962	(47) 26.07.2023	(87) EP2019079614
(21) EP21160556.3	(87) JP2018022553	25.06.2020
(47) 26.07.2023	03.01.2019	(22) 30.10.2019
(22) 03.03.2021	(22) 13.06.2018	(54) LIGHTING DEVICE FOR A VEHICLE CEILING LAMP
(54) SHELVING ARRANGEMENT	(54) CONTROL APPARATUS AND LIGHTING SYSTEM	(73) Valeo Comfort and Driving Assistance
(73) Jungheinrich Aktiengesellschaft	(73) Koito Electric Industries, Ltd.	(72) CABANA, Thibault
(72) Cavellius, Jörg	(72) KOJIMA, Shuhei	THORAILLER, Maryline
Cremer, Holger	KOJIMA, Yasuyo	(31) 1873306
Leiking, Lars	(31) 2017125062	(32) 19.12.2018
Alberg, Anatolij	(32) 27.06.2017	(33) France
Seemüller, Stefan	(33) Japan	(51) B60R 1/00
(51) B60P 3/025	(51) B60Q 1/14	G06T 7/277
B62D 63/06	F21S 41/663	G01C 11/06
B62D 33/04	F21S 41/143	B60D 1/36
(11) EP3795418	F21S 41/26	B60D 1/62
(21) EP20191851.3	F21S 41/27	G01C 21/16
(47) 26.07.2023	F21S 41/25	G01C 11/00
(22) 20.08.2020	(11) EP3505397	G01C 11/28
(54) RETAIL TRAILER WITH PROFILED WALLS	(21) EP18248300.8	G01C 11/16
(73) Beck, Volker	(47) 26.07.2023	G06T 17/00
Beck, Bernhard	(22) 28.12.2018	(11) EP3787910
Beck, Michael	(54) VEHICULAR HEADLAMP	(21) EP19724006.2
(72) Beck, Volker	(73) STANLEY ELECTRIC CO., LTD.	(47) 26.07.2023
Beck, Michael	(72) KAMIOKA, Kazuma	(87) US2019030260
Beck, Bernhard	NISHIMURA, Shota	07.11.2019
(31) 202019105082 U	(31) 2017254053	(22) 01.05.2019
(32) 13.09.2019	(32) 28.12.2017	(54) REAL-TIME TRAILER COUPLER LOCALIZATION AND TRACKING
(33) Germany	(33) Japan	(73) Continental Autonomous Mobility US, LLC
(51) B60P 3/06	(51) B60Q 1/44	(72) RAMIREZ LLANOS, Eduardo Jose
B60P 3/073	B60Q 1/30	(31) 201916399857
	(11) EP3650272	201862665269 P
	(21) EP18792407.1	
	(47) 26.07.2023	
	(87) ES2018070472	

(32) 30.04.2019 01.05.2018	SANE, Mugdha S. FOLLEN, Kenneth M.	(54) DIGITAL KEY-BASED IDENTITY AUTHENTICATION METHOD, TERMINAL APPARATUS, AND MEDIUM
(33) United States of America United States of America	SUJAN, Vivek A. (31) 201562265689 P	(73) Huawei Technologies Co., Ltd.
(51) B60R 3/00 B60R 3/02 B62D 37/02 B62D 35/00	(32) 10.12.2015 (33) United States of America (51) B60R 21/16 B60R 21/2165	(72) WANG, Sishan (31) 201910324313 (32) 22.04.2019 (33) China
(11) EP3802223 (21) EP19758823.9 (47) 26.07.2023 (87) US2019035210 05.12.2019	(11) EP3929038 (21) EP21181670.7 (47) 26.07.2023 (22) 25.06.2021 (54) COVER PANEL FOR A CABIN OF A VEHICLE AND PROVIDED WITH A WEAKENING FOR THE OPENING OF AN UNDERLYING AIRBAG	(11) EP3990316 (21) EP19735518.3 (47) 26.07.2023 (87) EP2019067011 30.12.2020
(22) 03.06.2019 (54) ACTIVE ROCKER AERO PANEL INTEGRATED INTO AUTOMATED RUNNING BOARD	(73) FERRARI S.p.A. (72) CONTRAIRE, Mathieu	(22) 26.06.2019 (54) A METHOD FOR PROVIDING ASSISTANCE TO A VEHICLE
(73) Magna Exteriors Inc. (72) MILANI, Adolfo, E. SHELLOWELL, James, W. PANTEA, Sorin, O.	(31) 202000015523 (32) 26.06.2020 (33) Italy	(73) VOLVO TRUCK CORPORATION (72) MIRZAI, Nick
(31) 201862679349 P (32) 01.06.2018 (33) United States of America	(51) B60R 21/2165 B60R 21/215	(51) B60S 3/04 B60S 3/06
(51) B60R 16/02 H02M 3/00 H02J 7/00 B60R 16/033	(11) EP3708437 (21) EP20161980.6 (47) 26.07.2023 (22) 10.03.2020 (54) AIRBAG APPARATUS	(11) EP3966077 (21) EP20724058.1 (47) 26.07.2023 (87) EP2020062257 19.11.2020
(11) EP4043291 (21) EP22157792.7 (47) 26.07.2023 (22) 16.12.2020	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA (72) TAKE, Masatoshi KOKUBU, Kenji TADO, Masayuki MIYAJIMA, Takeshi	(22) 04.05.2020 (54) DEVICE AND METHOD FOR CLEANING OBJECTS, ESPECIALLY TWO-WHEELERS
(54) POWER SUPPLY APPARATUS, BATTERY MANAGEMENT SYSTEM, POWER SUPPLY SYSTEM, CONTROL METHOD AND MEDIUM	(31) 2019044615 (32) 12.03.2019 (33) Japan	(73) Kumar, Sachin (72) Kumar, Sachin (31) 102019112357 (32) 10.05.2019 (33) Germany
(73) Contemporary Amperex Technology Co., Limited (72) XIONG, Shuyun CAI, Jinbo LIU, Zhong	(51) B60R 22/28 B60N 2/28 B60N 2/427 (11) EP3393864 (21) EP16829079.9 (47) 26.07.2023 (87) EP2016082490 29.06.2017	(51) B60T 8/32 B60T 8/36 (11) EP3856591 (21) EP19773754.7 (47) 26.07.2023 (87) EP2019074612 02.04.2020
(51) B60R 16/03 B60L 1/00 B60W 10/00 B60L 1/14 B60L 1/02 B60W 10/30 B60W 10/06 B60W 10/08 B60W 20/12 B60W 20/14 B60W 30/188 B60W 50/00 B60W 30/18	(22) 22.12.2016 (54) CHILD SEAT FOR ATTACHING TO A MOTOR VEHICLE SEAT (73) CYBEX GmbH (72) THURN, Christoph PELESKA, Franz (31) 202015107068 U (32) 23.12.2015 (33) Germany	(22) 16.09.2019 (54) PNEUMATIC PRESSURE CONTROL MODULE EMBEDDED WITH AN INERTIAL SENSOR ON A COMMON UNIT (73) KNORR-BREMSE Systeme für Nutzfahrzeuge GmbH (72) HUBER, Christoph HERGES, Michael EISENBERGER, Andreas STEINBERGER, Jürgen
(11) EP3386804 (21) EP16873941.5 (47) 26.07.2023 (87) US2016065883 15.06.2017	(51) B60R 25/25 H04L 67/04 H04L 67/55 H04L 69/40 H04W 12/069 H04W 12/61 B60R 25/24 G07C 9/00 H04L 9/32 (11) EP3941014 (21) EP20794615.3 (47) 26.07.2023 (87) CN2020085225 29.10.2020	(31) 102018123996 (32) 28.09.2018 (33) Germany (51) B60T 8/40 B60T 8/42 (11) EP3817957 (21) EP19723787.8 (47) 26.07.2023 (87) EP2019062107 16.01.2020
(22) 09.12.2016 (54) SYSTEMS AND METHODS OF ENERGY MANAGEMENT AND CONTROL OF VEHICLE ACCESSORIES	(31) 202015107068 U (32) 23.12.2015 (33) Germany (51) B60R 25/25 H04L 67/04 H04L 67/55 H04L 69/40 H04W 12/069 H04W 12/61 B60R 25/24 G07C 9/00 H04L 9/32 (11) EP3941014 (21) EP20794615.3 (47) 26.07.2023 (87) CN2020085225 29.10.2020	(22) 11.05.2019 (54) BRAKE-SYSTEM DAMPING DEVICE
(73) Cummins, Inc. (72) KOTI, Archit N. GOPAL, Arun Prakash Thunga TULPULE, Pinak Jayant	(22) 17.04.2020	

(73) Robert Bosch GmbH	(32) 11.10.2018	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
(72) SCHULLER, Wolfgang	(33) Germany	(72) IIDA, Tomoaki
KURZ, Edgar	(51) B60W 30/04	ISHIHARA, Hideaki
KURZ, Holger	B60W 40/076	(31) 2020218660
NAVRUZ, Yakup	B60W 40/13	(32) 28.12.2020
(31) 102018219605	G05D 1/02	(33) Japan
102018211246	(11) EP3303084	(51) B61B 7/00
(32) 15.11.2018	(21) EP15894391.0	B61B 12/02
07.07.2018	(47) 26.07.2023	B61B 15/00
(33) Germany	(87) SE2015050648	(11) EP3980311
Germany	08.12.2016	(21) EP20736426.6
(51) B60T 13/74	(22) 03.06.2015	(47) 26.07.2023
B60T 8/36	(54) A METHOD AND SYSTEM FOR	(87) IB2020055325
F15B 13/08	PREDICTING A RISK FOR ROLLOVER	10.12.2020
(11) EP4001033	OF A WORKING MACHINE	(22) 05.06.2020
(21) EP21208907.2	(73) Volvo Construction Equipment AB	(54) HYBRID CABLE/RAIL
(47) 26.07.2023	(72) SKILLSÄTER, Calle	TRANSPORTATION SYSTEM
(22) 18.11.2021	WAHLSTRÖM, Patrik	(73) LEITNER S.p.A.
(54) ELECTRO-HYDRAULIC BRAKE	(51) B60W 30/06	(72) CONTE, Giuseppe
SYSTEM	B60R 99/00	ERHARTER, Nikolaus
(73) BWI (Shanghai) Co., Ltd.	B60Q 1/50	WIESER, Hartmut
(72) BORGEMENKE, Daniel Norbert	B62D 15/02	(31) 201900008157
CHEN, Bin	B60R 1/00	(32) 05.06.2019
CHAUMETTE, Pascal	B60Q 1/48	(33) Italy
LUO, Dongqiang	B60W 50/14	(51) B61D 3/20
WU, Jian	(11) EP3892509	(11) EP3747723
REUTER, David Fredrick	(21) EP18941948.4	(21) EP19177978.4
HOPKINS, Patrick N.	(47) 26.07.2023	(47) 26.07.2023
(31) 202111129596	(87) IB2018001491	(22) 03.06.2019
202063117438 P	11.06.2020	(54) GOODS TRAIN AND METHOD FOR
(32) 26.09.2021	(22) 03.12.2018	TRANSPORTING GOODS USING
23.11.2020	(54) VEHICLE TRAVEL CONTROL DEVICE	SAME
(33) China	AND VEHICLE TRAVEL CONTROL	(73) BEWE Logistik Consulting GmbH
United States of America	METHOD FOR PARKING	(72) WEGMÜLLER, Beat
(51) B60T 13/74	(73) Renault s.a.s	(51) B61D 17/08
F16D 65/18	NISSAN MOTOR CO., LTD.	B61D 25/00
(11) EP3983271	(72) HAYAKAWA, Yasuhisa	(11) EP3853096
(21) EP20734667.7	(51) B60W 30/12	(21) EP19769024.1
(47) 26.07.2023	B60W 50/02	(47) 26.07.2023
(87) EP2020066822	G01B 11/275	(87) EP2019072738
24.12.2020	G01M 13/00	26.03.2020
(22) 17.06.2020	(11) EP3699050	(22) 27.08.2019
(54) PASSIVE HOLDING CLAMPING	(21) EP18869251.1	(54) RAIL VEHICLE CAR AND RAIL
ACTUATOR, PARKING BRAKE,	(47) 26.07.2023	VEHICLE
VEHICLE AND METHOD OF USE	(87) CN2018110083	(73) Siemens Mobility GmbH
(73) Hitachi Astemo France	25.04.2019	(72) GÜNTHER, René
(72) HURWIC, Aleksander	(22) 12.10.2018	SCHMÄCKE, Michael
BOURLON, Philippe	(54) CALIBRATION DEVICE FOR LANE	KRAUSE, Martin
(31) 1906474	KEEPING ASSIST SYSTEM	LANGERT, Wolfgang
(32) 17.06.2019	(73) Autel Intelligent Technology Corp. Ltd.	TREUTLER, Helmut
(33) France	(72) TANG, Xinguang	SCHIEFER, Benno
(51) B60T 17/00	QIU, Longxue	WILHELM, Markus
F15B 21/048	CHEN, Jin	HESTERBERG, Joshua
F15B 21/041	(31) 201721365738 U	(31) 102018215857
(11) EP3863900	(32) 20.10.2017	(32) 18.09.2018
(21) EP19779780.6	(33) China	(33) Germany
(47) 26.07.2023	(51) B60W 60/00	(51) B61D 25/00
(87) EP2019075571	B60W 50/023	B61D 41/00
16.04.2020	G06F 11/16	B61L 15/00
(22) 23.09.2019	G05D 1/00	G03B 21/28
(54) COMPRESSED AIR TREATMENT	(11) EP4019357	G03B 21/60
SYSTEM AND METHOD OF	(21) EP21201075.5	(11) EP3892514
OPERATION OF A COMPRESSED AIR	(47) 26.07.2023	(21) EP21166929.6
TREATMENT SYSTEM	(22) 05.10.2021	(47) 26.07.2023
(73) KNORR-BREMSE Systeme für	(54) VEHICLE ELECTRONIC CONTROL	(22) 06.04.2021
Nutzfahrzeuge GmbH	DEVICE, VEHICLE ELECTRONIC	(54) CAR FOR PUBLIC TRANSPORT
(72) ZEMAN, Ferenc	CONTROL METHOD, AND NON-	VEHICLE, COMPRISING A DISPLAY
(31) 102018217405	TRANSITORY STORAGE MEDIUM	DEVICE ON A WINDOW

(73) ALSTOM Transport Technologies	(51) B61L 25/02	(32) 31.05.2018
(72) DUBOIS, Alexandre	B61L 27/00	31.05.2018
SIMONI, Bastian	(11) EP3753803	(33) China
DESJARDINS, Michel	(21) EP19181179.3	China
(31) 2003458	(47) 26.07.2023	(51) B62D 21/12
(32) 07.04.2020	(22) 19.06.2019	B62D 27/06
(33) France	(54) METHOD AND ODOMETRY UNIT	B62D 63/02
(51) B61F 5/30	FOR TESTING AN ETCS ODOMETRY	(11) EP3696058
(11) EP3999393	SOFTWARE VERSION	(21) EP20154763.5
(21) EP20764007.9	(73) Siemens Mobility GmbH	(47) 26.07.2023
(47) 26.07.2023	(72) BÖHLER, Andreas	(22) 31.01.2020
(87) EP2020072557	BRUNNER, Patrick	(54) VEHICLE STRUCTURE WITH
22.04.2021	(51) B62B 3/16	CONNECTION NODE CLAMP
(22) 12.08.2020	B62B 3/00	CONNECTION
(54) ASSEMBLY FOR POSITIONING A	B62B 5/00	(73) MAN Truck & Bus SE
WHEEL OF A RAIL VEHICLE	(11) EP3964423	(72) Haag, Jens
(73) Siemens Mobility GmbH	(21) EP21187692.5	Sattler, Steve
(72) ZÄCH, Martin	(47) 26.07.2023	Hintereder, Jürgen
(31) 102019216088	(22) 26.07.2021	Kondic, Darko
(32) 18.10.2019	(54) TROLLEY FOR RECEIVING ONE OR	Burger, Norbert
(33) Germany	MORE TRANSPORT CONTAINERS	(31) 102019103858
(51) B61G 9/04	(73) FEIL rolltainer GmbH	(32) 15.02.2019
(11) EP3792136	(72) BIEHL, Waldemar	(33) Germany
(21) EP19214224.8	(31) 202020105166 U	(51) B62D 21/15
(47) 26.07.2023	(32) 08.09.2020	B62D 25/00
(22) 06.12.2019	(33) Germany	F16S 3/00
(54) STEERING DEVICE FOR A COUPLING,	(51) B62B 3/16	B62D 21/02
ESPECIALLY FOR A RAIL VEHICLE	B62B 5/00	B62D 25/02
(73) Faiveley Transport Schwab AG	(11) EP3964422	B62D 25/04
(72) PLECKO, Marijan	(21) EP21187678.4	B62D 25/08
FAAS, Stefan	(47) 26.07.2023	B62D 29/00
(31) 11472019	(22) 26.07.2021	(11) EP3677490
(32) 12.09.2019	(54) TROLLEY FOR RECEIVING ONE OR	(21) EP17923792.0
(33) Switzerland	MORE TRANSPORT CONTAINERS	(47) 26.07.2023
(51) B61L 15/00	(73) FEIL rolltainer GmbH	(87) JP2017031524
(11) EP3473524	(72) BIEHL, Waldemar	07.03.2019
(21) EP17306436.1	(31) 202020105165 U	(22) 01.09.2017
(47) 26.07.2023	(32) 08.09.2020	(54) HOLLOW MEMBER
(22) 20.10.2017	(33) Germany	(73) Nippon Steel Corporation
(54) A TRAIN CONNECTING DEVICE, A	(51) B62B 13/12	(72) HIROSE, Satoshi
TRAIN COMPRISING THE TRAIN	B62B 17/06	NAKAZAWA, Yoshiaki
CONNECTING DEVICE, A TRAIN	B62M 27/02	(51) B62D 21/15
GROUP COMPRISING THE TRAIN,	(11) EP3543085	B62D 25/08
AND A METHOD FOR COUPLING TWO	(21) EP17866335.7	(11) EP3856617
TRAINS OF THE TRAIN GROUP	(47) 26.07.2023	(21) EP19779535.4
(73) ALSTOM Transport Technologies	(87) ES2017000155	(47) 26.07.2023
(72) SCHRANK, Stefan	03.05.2018	(87) FR2019051995
WEIDTMANN, Dominik	(22) 23.12.2017	02.04.2020
DON, Rainer	(54) SNOW VEHICLE WITH A STEERING	(22) 29.08.2019
PÖTING, Stefan	CONTROL SYSTEM	(54) BATTERY REINFORCEMENT FOR
(51) B61L 23/04	(73) Ferrer Almazan, Pablo	HIGH-SPEED REAR-END COLLISION
B61L 25/02	(72) Ferrer Almazan, Pablo	(73) PSA Automobiles SA
B61L 15/00	(31) 201600910	(72) GROSSET, Romain
(11) EP3743322	(32) 26.10.2016	(31) 1858993
(21) EP19710302.1	(33) Spain	(32) 28.09.2018
(47) 26.07.2023	(51) B62D 1/181	(33) France
(87) EP2019054529	(11) EP3798092	(51) B62D 25/00
26.09.2019	(21) EP19810209.7	B60R 21/213
(22) 25.02.2019	(47) 26.07.2023	B62D 29/00
(54) MEASURING ARRANGEMENT	(87) CN2019088836	B62D 65/14
AND METHOD FOR DETECTING A	05.12.2019	B62D 25/02
DERAILMENT	(22) 28.05.2019	(11) EP3962797
(73) Siemens Mobility GmbH	(54) STEERING COLUMN AND VEHICLE	(21) EP20728099.1
(72) KOHLRUSS, Jacob Johannes	(73) BYD Company Limited	(47) 26.07.2023
(31) 102018204481	(72) ZHANG, Peng	(87) FR2020000127
(32) 23.03.2018	LUO, Chenggang	05.11.2020
(33) Germany	(31) 201820840740 U	(22) 16.04.2020
	201810553426	

(54) INSERT FOR ATTACHING EQUIPMENT TO A HOLLOW BODY OF A MOTOR VEHICLE BODY SHELL	(22) 03.08.2020	(32) 30.10.2020
(73) PSA Automobiles SA	(54) AERODYNAMIC UNDERFLOOR DEFLECTOR HAVING A PRE-HOLDING DEVICE	(33) Italy
(72) RIVIERRE, Laurent	(73) PSA Automobiles SA	(51) B62J 17/04
(31) 1904518	(72) PINSON, Mathieu	(11) EP4067217
(32) 29.04.2019	BERTH, Stephane	(21) EP22163241.7
(33) France	(31) 1909110	(47) 26.07.2023
(51) B62D 25/08	(32) 09.08.2019	(22) 21.03.2022
B62D 27/06	(33) France	(54) STRADDLED VEHICLE
B62D 21/11	(51) B62D 53/00	(73) Yamaha Hatsudoki Kabushiki Kaisha
(11) EP3950468	B62D 63/02	(72) Terao, Haruki
(21) EP21189315.1	B62D 61/12	(31) 2021059302
(47) 26.07.2023	B62D 47/00	(32) 31.03.2021
(22) 03.08.2021	(11) EP4041620	(33) Japan
(54) CAR PROVIDED WITH A REAR SUBFRAME	(21) EP21839423.7	(51) B62J 99/00
(73) FERRARI S.p.A.	(47) 26.07.2023	B60T 8/1755
(72) MERULLA, Andrea	(87) EP2021085673	B60W 30/12
PEZZATI, Andrea	23.06.2022	B60W 30/16
(31) 202000019198	(22) 14.12.2021	B60W 40/08
(32) 04.08.2020	(54) NAVIGATOR	(11) EP3632783
(33) Italy	(73) FQ IP AB	(21) EP18805425.8
(51) B62D 25/18	(72) AUGUSTSSON, Per	(47) 26.07.2023
B62D 27/06	(31) 20214305	(87) JP2018008784
B62D 65/16	(32) 15.12.2020	29.11.2018
(11) EP4025477	(33) European Patent Office (EPO)	(22) 07.03.2018
(21) EP20775033.2	(51) B62J 9/23	(54) CONTROL APPARATUS OF STRADDLE VEHICLE
(47) 26.07.2023	B62J 9/27	(73) Kawasaki Motors, Ltd.
(87) FR2020051457	(11) EP3882112	(72) MATSUDA, Yoshimoto
11.03.2021	(21) EP21159919.6	(31) 2017102688
(22) 11.08.2020	(47) 26.07.2023	(32) 24.05.2017
(54) MUDGUARD DEFLECTOR ASSEMBLY HAVING AN ELEMENT FOR OBSTRUCTING AN ORIFICE, FOR A VEHICLE	(22) 01.03.2021	(33) Japan
(73) PSA Automobiles SA	(54) SIDE CASE DEVICE, MOBILE OBJECT INCLUDING SAME, SIDE CASE AND SUPPORT DEVICE	(51) B62K 1/00
(72) FRABOULET, Samuel	(73) Yamaha Hatsudoki Kabushiki Kaisha	B62K 11/00
CHESNAIS, Baptiste	(72) MIYAMOTO, Yoshihiro	B60L 3/00
GIGON, Philippe	TERAMOTO, Yoshinori	(11) EP3730393
MATHON, Raphael	(31) 2020050047	(21) EP18889401.8
TERRIE, Olivier	(32) 19.03.2020	(47) 26.07.2023
(31) 1909721	(33) Japan	(87) CN2018109750
(32) 04.09.2019	(51) B62J 9/24	20.06.2019
(33) France	B62J 7/04	(22) 11.10.2018
(51) B62D 35/00	B62J 7/08	(54) SINGLE-WHEELED BALANCING VEHICLE
B62D 35/02	(11) EP3619100	(73) Freeman IT Limited
B62D 37/02	(21) EP18710553.1	(72) LIU, Haibo
(11) EP3656652	(47) 26.07.2023	XIE, Feng
(21) EP19215343.5	(87) NL2018050108	(31) 201820975632 U
(47) 26.07.2023	08.11.2018	201721730983 U
(22) 05.08.2015	(22) 19.02.2018	(32) 22.06.2018
(54) VEHICLE AERODYNAMIC APPARATUS	(54) MOUNTING SYSTEM FOR A BICYCLE LUGGAGE CARRIER	12.12.2017
(73) Jaguar Land Rover Limited	(73) Invented Here B.V.	(33) China
(72) THOMPSON, Christopher	(72) ALAGOURIE, Ghassan	China
GAYLARD, Adrian	(31) 2018834	(51) B62K 3/04
TURNER, Ross	(32) 02.05.2017	B62K 19/12
(31) 201413848	(33) Netherlands	(11) EP4103461
(32) 05.08.2014	(51) B62J 17/04	(21) EP21711384.4
(33) United Kingdom	(11) EP3992065	(47) 26.07.2023
(51) B62D 35/02	(21) EP21203997.8	(87) IT2021050033
B62D 65/16	(47) 26.07.2023	19.08.2021
B60R 13/08	(22) 21.10.2021	(22) 12.02.2021
(11) EP4010237	(54) IMPROVED WINDSCREEN WITH AN ADJUSTABLE HEIGHT FOR A MOTORCYCLE	(54) BICYCLE FRAME
(21) EP20820251.5	(73) Ducati Motor Holding S.p.A.	(73) ETERNUM TECHNOLOGY SRL
(47) 26.07.2023	(72) IACENDA, Luca	(72) PASQUIN, Stefano
(87) FR2020051427	(31) 202000025822	(31) 202000002830
18.02.2021		(32) 13.02.2020
		(33) Italy
		(51) B62K 15/00
		(11) EP3519284

(21) EP17857735.9	(21) EP20160317.2	(47) 26.07.2023
(47) 26.07.2023	(47) 26.07.2023	(22) 23.04.2021
(87) CA2017051178	(22) 21.03.2018	(54) ELEMENT FOR A FLOATING DOCK
12.04.2018	(54) BICYCLE REAR DERAILLEUR	AND A FLOATING DOCK
(22) 03.10.2017	COMPRISING A FLUID DAMPER	(73) Marine IP Ltd
(54) COMPACTABLE BICYCLE	(73) SRAM, LLC	(72) DAVISON, Christopher
(73) Helix Labs Inc.	(72) Brown, Joshua	(31) 202006446
(72) BOUTAKIS, Peter	Jordan, Brian	(32) 01.05.2020
(31) 201662403541 P	Shipman, Christopher	(33) United Kingdom
(32) 03.10.2016	(31) 201715702161	<hr/>
(33) United States of America	201715470357	(51) B63H 21/21
<hr/>	(32) 12.09.2017	B63H 21/22
(51) B62L 3/08	27.03.2017	F02D 29/02
B60T 8/00	(33) United States of America	G01C 21/20
B60T 8/26	United States of America	B63H 21/14
B60T 7/22	<hr/>	F02D 41/14
B60T 8/17	(51) B63B 22/06	B63H 3/10
B62K 21/00	B63C 7/26	B63H 23/12
B62M 1/36	(11) EP4003828	(11) EP3994057
(11) EP3967588	(21) EP20744035.5	(21) EP20736630.3
(21) EP20806071.5	(47) 26.07.2023	(47) 26.07.2023
(47) 26.07.2023	(87) EP2020070868	(87) EP2020068505
(87) JP2020018866	04.02.2021	07.01.2021
19.11.2020	(22) 23.07.2020	(22) 01.07.2020
(22) 11.05.2020	(54) METHOD FOR LOCATING DRIFTING	(54) METHOD AND SYSTEM FOR
(54) LEANING VEHICLE EQUIPPED WITH	SUBMERGED GEAR	CONTROLLING PROPULSIVE POWER
BRAKE ASSIST CONTROL DEVICE	(73) Biousse, Patrice	OUTPUT OF SHIP
(73) Yamaha Hatsudoki Kabushiki Kaisha	(72) Biousse, Patrice	(73) Yara Marine Technologies AS
(72) TORIGOE, Hoshimi	(31) 1908550	(72) IDESKOG, Linus
YASUKAWA, Risa	(32) 26.07.2019	(31) 1950839
KOBAYASHI, Hiroshi	(33) France	(32) 03.07.2019
KISHI, Tomoaki	<hr/>	(33) Sweden
(31) 2019089730	(51) B63B 27/34	<hr/>
(32) 10.05.2019	B66C 13/02	(51) B64C 1/06
(33) Japan	B63B 27/30	B29D 99/00
<hr/>	B63B 21/20	B29C 70/30
(51) B62M 6/55	B63B 22/02	(11) EP3530444
B62M 11/14	(11) EP3697680	(21) EP19158865.6
B62M 11/18	(21) EP18786745.2	(47) 26.07.2023
(11) EP3689730	(47) 26.07.2023	(22) 22.02.2019
(21) EP20159575.8	(87) EP2018077837	(54) METHOD FOR MANUFACTURING
(47) 26.07.2023	25.04.2019	A CENTRAL BOX FOR WING FROM
(22) 05.04.2017	(22) 12.10.2018	PROFILES MANUFACTURED BY HIGH
(54) DRIVE ASSEMBLY AND VEHICLE	(54) PULL-IN BUOY	PRESSURE AND LOW-TEMPERATURE
(73) Robert Bosch GmbH	(73) Sealoadng Holding AS	FORMING AND CENTRAL BOX
(72) Hinterkausen, Markus	(72) SMEDAL, Arne	FOR WING OBTAINED FROM THE
Kimnich, Peter	SYVERTSEN, Kåre	IMPLEMENTATION OF SAID METHOD
(31) 102016207035	(31) 20171655	(73) Airbus Operations S.A.S.
(32) 26.04.2016	(32) 17.10.2017	(72) PRIDIE, Jago
(33) Germany	(33) Norway	(31) 1851500
<hr/>	<hr/>	(32) 22.02.2018
(51) B62M 9/12	(51) B63B 32/51	(33) France
B62M 9/16	(11) EP3402717	<hr/>
(11) EP3341280	(21) EP17738959.0	(51) B64C 1/20
(21) EP16741681.7	(47) 26.07.2023	B64D 9/00
(47) 26.07.2023	(87) US2017013232	(11) EP3875362
(87) IB2016053625	20.07.2017	(21) EP21160417.8
02.03.2017	(22) 12.01.2017	(47) 26.07.2023
(22) 17.06.2016	(54) INFLATABLE WATERCRAFT	(22) 03.03.2021
(54) DEVICE FOR MOTION TRANSMISSION	STRUCTURE AND METHOD OF	(54) CARGO RESTRAINT ASSEMBLY
ON CYCLES	MAKING THE SAME	(73) Goodrich Corporation
(73) Metalsistem S.p.A.	(73) Pepper, Stephen	(72) AXLINE, Nicholas
(72) BRIOSI, Antonello	Speaker, Jonathan	(31) 202016809966
(31) UB20153217	(72) Pepper, Stephen	(32) 05.03.2020
(32) 25.08.2015	Speaker, Jonathan	(33) United States of America
(33) Italy	(31) 201662277740 P	<hr/>
<hr/>	(32) 12.01.2016	(51) B64C 3/56
(51) B62M 9/16	(33) United States of America	(11) EP3805096
B62M 9/126	<hr/>	(21) EP19201846.3
B62M 9/128	(51) B63C 1/04	(47) 26.07.2023
B62M 9/122	(11) EP3904197	(22) 08.10.2019
(11) EP3722195	(21) EP21170285.7	

(54) AIRCRAFT AND FOLDING WING SYSTEM	SELWA, Alexander, David REICHERT, Todd	(47) 26.07.2023 (22) 18.06.2021
(73) Volare GmbH	(31) 201715693804	(54) SERIES OF CONVERTIBLE AIRCRAFTS CAPABLE OF HOVERING AND METHOD FOR CONFIGURING A CONVERTIBLE AIRCRAFT CAPABLE OF HOVERING
(72) FÜRLINGER, Andreas	(32) 01.09.2017	(73) Leonardo S.p.a.
(51) B64C 9/00	(33) United States of America	(72) BIANCO MENGOTTI, Riccardo
B64D 39/00	(51) B64C 13/30	(51) B64D 11/02
(11) EP3889037	B64C 13/50	B64D 11/04
(21) EP21166060.0	F16H 25/20	(11) EP3895990
(47) 26.07.2023	F16H 25/24	(21) EP21168548.2
(22) 30.03.2021	(11) EP3858727	(47) 26.07.2023
(54) AIR-TO-AIR REFUELLING DROGUE ASSEMBLY	(21) EP21154560.3	(22) 15.04.2021
(73) Mission Systems Wimborne Limited	(47) 26.07.2023	(54) HYBRID WATER STORAGE SYSTEM FOR AIRCRAFT
(72) PAPAIONNOU, Georgios	(22) 01.02.2021	(73) Goodrich Corporation
CLARKE, Henry	(54) ACTUATOR FOR AIRCRAFT	(72) ROACH, Kevin Edward
WITHWORTH, Samuel	(73) Crompton Technology Group Limited	LEI, Martin
WALKER, Matthew	(72) SLATER, Lee	ROULETT, Donald Gregory
HAIG, Colette	PANDIAN, Navaneethkrishnan	(31) 202117181029
MONDA, Ian	SOMERFIELD, Michael	202063011462 P
FOXWELL, Richard	PETHICK, Jon	(32) 22.02.2021
DIBB, Craig	BERNARD, James William	17.04.2020
(31) 202004598	(31) 202011004199	(33) United States of America United States of America
(32) 30.03.2020	(32) 30.01.2020	(51) B64D 11/02
(33) United Kingdom	(33) India	E05F 15/00
(51) B64C 13/00	(51) B64C 13/34	G07C 9/00
B64D 11/06	B64C 13/32	(11) EP4126670
G05D 1/00	B64C 13/50	(21) EP21721469.1
B60R 21/015	B64C 9/08	(47) 26.07.2023
G05D 1/02	B64C 29/00	(87) EP2021060467
G05D 1/04	F16H 49/00	28.10.2021
G05D 1/08	B64C 9/16	(22) 22.04.2021
G05D 1/10	B64C 11/00	(54) CONTROL OF A LAVATORY DOOR BY A USER AND AUTHORISED ENTITIES
G08G 5/00	B64D 27/24	(73) Diehl Aviation Gilching GmbH
B60N 2/02	(11) EP3998199	Diehl Aviation Laupheim GmbH
B64D 11/00	(21) EP21158038.6	(72) MÜLLER, Björn
(11) EP3786057	(47) 26.07.2023	ZAGER-RODE, Florian
(21) EP19215092.8	(22) 19.02.2021	ENGELHARDT, Jörg
(47) 26.07.2023	(54) CIVIL AIRCRAFT EQUIPPED WITH ACTUATOR FOR PRIMARY FLIGHT CONTROL SURFACE	(31) 102020205215
(22) 11.12.2019	(73) Liliu eAircraft GmbH	(32) 24.04.2020
(54) SYSTEM FOR BOTH ONBOARD PILOTING AND REMOTE PILOTING AN AIRCRAFT	(72) WURDAK, Philipp	(33) Germany
(73) B/E Aerospace, Inc.	(51) B64C 25/26	(51) B64D 11/06
(72) JOHNSON, Glenn A.	B64C 25/22	B60N 2/30
(31) 201916555139	(11) EP3686106	(11) EP3868664
(32) 29.08.2019	(21) EP19215836.8	(21) EP21158138.4
(33) United States of America	(47) 26.07.2023	(47) 26.07.2023
(51) B64C 13/04	(22) 12.12.2019	(22) 19.02.2021
B64C 27/08	(54) UPPER SIDE STAY WITH MONOLITHIC ACTUATOR	(54) STOWABLE CABIN ATTENDANT SEAT WITH VERTICALLY TRANSLATING BACKREST
B64C 27/20	(73) Goodrich Corporation	(73) B/E Aerospace, Inc.
B64D 31/02	(72) GOLDRING, Eric	(72) HOSMANI, Mahesh Virupaxi
B64C 13/16	GANIS, Rony	LOKANATHA, Naveen B.
G05G 1/01	(31) 201916255483	(31) 202016794840
G05G 9/047	(32) 23.01.2019	(32) 19.02.2020
G05D 1/10	(33) United States of America	(33) United States of America
G05D 1/08	(51) B64C 29/00	(51) B64D 11/06
(11) EP3676679	B64C 39/02	B60N 2/90
(21) EP18850604.2	B64C 39/08	(11) EP3309072
(47) 26.07.2023	B64U 70/80	(21) EP17194433.3
(87) US2018039974	B64U 50/19	(47) 26.07.2023
07.03.2019	B64U 50/13	(22) 02.10.2017
(22) 28.06.2018	B64U 30/10	
(54) METHODS AND FLIGHT CONTROLLERS FOR A SYSTEM OPERATIVE TO CONTROL A MULTICOPTER AIRCRAFT	B64U 30/20	
(73) Kitty Hawk Corporation	B64C 39/12	
(72) CUTLER, Mark, Johnson	B64U 10/25	
	B64U 101/00	
	(11) EP4105124	
	(21) EP21180404.2	

<p>(54) PRIVACY PARTITION, SYSTEM AND METHOD (73) The Boeing Company (72) LUTZ, Melissa Holt HALL, Tania D. HALL JR., Curtis L. (31) 201615290082 (32) 11.10.2016 (33) United States of America <hr/> (51) B64D 13/06 B64D 13/08 F04D 25/02 F04D 29/40 F25B 9/00 (11) EP3875372 (21) EP21158493.3 (47) 26.07.2023 (22) 22.02.2021 (54) AIR CYCLE MACHINES AND METHODS OF COMMUNICATING FLUID THROUGH AIR CYCLE MACHINES (73) Hamilton Sundstrand Corporation (72) WOLDEMARIAM, Beakal T. PEREZ, Roberto J. COLSON, Darryl A. (31) 202016809979 (32) 05.03.2020 (33) United States of America <hr/> (51) B64D 13/06 F02C 6/08 (11) EP3112268 (21) EP16177182.9 (47) 26.07.2023 (22) 30.06.2016 (54) AIRCRAFT ENVIRONMENTAL CONTROL SYSTEM SELECTIVELY POWERED BY THREE BLEED PORTS (73) Hamilton Sundstrand Corporation (72) BRUNO, Louis J. ZYWIAK, Thomas M. (31) 201514755929 (32) 30.06.2015 (33) United States of America <hr/> (51) B64D 15/12 H01B 1/12 H05B 3/14 (11) EP3290341 (21) EP17187914.1 (47) 26.07.2023 (22) 25.08.2017 (54) ELECTRICALLY CONDUCTIVE MATERIALS FOR HEATING AND DEICING AIRFOILS (73) The Boeing Company (72) YOUNG, Kenneth W. KINLEN, Patrick J. (31) 201615252056 (32) 30.08.2016 (33) United States of America <hr/> (51) B64D 27/26 F01D 25/28 F02C 7/20 (11) EP3546367 (21) EP19161473.4 (47) 26.07.2023 (22) 08.03.2019</p>	<p>(54) A GEARED TURBOFAN ENGINE MOUNT ARRANGEMENT (73) Rolls-Royce plc (72) Coles, David Rowntree, Gavin Ahmed, Zubair Willshee, Matthew (31) 201804962 (32) 28.03.2018 (33) United Kingdom <hr/> (51) B64D 33/02 B64D 29/00 B64D 15/04 (11) EP3741680 (21) EP19216732.8 (47) 26.07.2023 (22) 16.12.2019 (54) INLET BULKHEAD WITH VENTILATION GROOVE (73) Rohr, Inc. (72) KROEGER, Daniel HERMOSURA, Delbert N. (31) 201916422572 (32) 24.05.2019 (33) United States of America <hr/> (51) B64D 37/00 B64D 37/32 B64D 37/28 B64D 41/00 B64D 37/02 (11) EP3697692 (21) EP18868749.5 (47) 26.07.2023 (87) CA2018051311 25.04.2019 (22) 18.10.2018 (54) FUEL PUMP MANAGEMENT SYSTEM AND METHOD OF OPERATING A FUEL PUMP MANAGEMENT SYSTEM (73) Bombardier Inc. (72) FURGIUELE, Vincenzo (31) 201762574385 P (32) 19.10.2017 (33) United States of America <hr/> (51) B64D 37/32 B01D 63/02 (11) EP3878754 (21) EP21161590.1 (47) 26.07.2023 (22) 09.03.2021 (54) AIR SEPARATION MODULES AND METHODS OF MAKING AIR SEPARATION MODULES (73) Hamilton Sundstrand Corporation (72) DOHERTY, James R. ARMY, Donald E. (31) 202016813034 (32) 09.03.2020 (33) United States of America <hr/> (51) B64D 47/06 F21V 7/00 F21V 5/04 (11) EP3584171 (21) EP18178563.5 (47) 26.07.2023 (22) 19.06.2018</p>	<p>(54) AIRCRAFT BEACON LIGHT AND AIRCRAFT COMPRISING AN AIRCRAFT BEACON LIGHT (73) Goodrich Lighting Systems GmbH (72) HESSLING-VON HEIMENDAHL, Andre JHA, Anil Kumar <hr/> (51) B64D 47/08 F16M 11/14 F16M 11/12 F16M 11/18 F16M 13/02 B64C 39/02 G02B 7/02 B64U 101/30 (11) EP3778403 (21) EP20170968.0 (47) 26.07.2023 (22) 23.04.2020 (54) ALIGNMENT PLATFORM FOR A SENSOR DEVICE, SENSOR SYSTEM AND AIRCRAFT (73) MBDA Deutschland GmbH (72) KLAFFERT, Thomas (31) 102019005650 (32) 12.08.2019 (33) Germany <hr/> (51) B64F 1/00 G06Q 10/08 B64C 39/02 (11) EP3514070 (21) EP19153442.9 (47) 26.07.2023 (22) 24.01.2019 (54) SYSTEM AND METHOD WITH AN UNMANNED TRANSPORT DEVICE CAPABLE OF FLIGHT (73) Deutsche Post AG (72) Vorwerk, Felix Muller, Paul Pruski, Matthäus (31) 102018101315 (32) 22.01.2018 (33) Germany <hr/> (51) B64F 1/02 (11) EP3787973 (21) EP19725434.5 (47) 26.07.2023 (87) US2019000020 07.11.2019 (22) 03.05.2019 (54) ARRESTING CABLE RETRACTION SYSTEM (73) Engineered Arresting Systems Corporation (72) SCOTT, Craig, H. CHANEY, Travis, L. SCHNEIDER, Kirk, F. AGREN, Justin, S. LEVESQUE, Christopher, J. SMITH, Scott, A. NEELD, Kenneth, J. ARROYO-MARQUEZ, Isaac (31) 201862720737 P 201862666389 P (32) 21.08.2018 03.05.2018 (33) United States of America United States of America</p>
--	--	---

(51) B64G 1/24 H04B 7/204 H04B 7/185 H01Q 3/08 H01Q 1/28 H01Q 1/12 G01S 19/00 G01S 3/14 B64G 1/66	KANEKO, Yutaka GARUTI, Nicola FUGA MARTIN, David Arturo	(31) 201862720801 P (32) 21.08.2018 (33) United States of America
(11) EP3715265 (21) EP20162704.9 (47) 26.07.2023 (22) 12.03.2020 (54) SYSTEM AND METHOD FOR ESTIMATING A POINTING ERROR OF A SATELLITE ANTENNA	(31) 18208329 (32) 26.11.2018 (33) European Patent Office (EPO)	(51) B65D 5/24 B65D 5/42 B65D 5/40 B65D 21/02 B65D 5/00
(73) Thales (72) OSTER, Yann (31) 1903183 (32) 28.03.2019 (33) France	(31) 20190022938 (32) 04.12.2019 (33) Italy	(11) EP3356240 (21) EP16850435.5 (47) 26.07.2023 (87) FI2016050662 06.04.2017 (22) 23.09.2016 (54) LEAKPROOF AND LIQUID-TIGHT PACKAGING BOX (73) Stora Enso Oyj (72) TUHKUNEN, Mika (31) 20154177 U (32) 02.10.2015 (33) Finland
(51) B65B 11/58 B65B 13/18 B65B 43/12 B65B 43/14 B65B 43/20 B65B 57/12 (11) EP3947164 (21) EP20721127.7 (47) 26.07.2023 (87) US2020023113 01.10.2020 (22) 17.03.2020 (54) APPARATUS AND METHOD FOR STRAPPING PACKAGES (73) Signode Industrial Group LLC (72) SPASOV, Martin SCHULZ, Friedhelm	(31) 20190022938 (32) 04.12.2019 (33) Italy (51) B65B 51/14 B65B 65/08 B29C 65/00 B65B 57/18 B65B 57/00 (11) EP4001138 (21) EP20209277.1 (47) 26.07.2023 (22) 23.11.2020 (54) MANUAL SEALER WITH EXTENDED FUNCTIONALITY (73) A.L.X.-Metall, Verpackungstechnik, Dipl.-Ing. Alexander Josek GmbH (72) Kehl, Karsten Schmelz, Bernhard Josek, Armin-Carsten	(51) B65D 8/00 A63F 9/12 A63H 33/18 A63F 9/00 (11) EP3737613 (21) EP18877991.2 (47) 26.07.2023 (87) IB2018050950 23.05.2019 (22) 16.02.2018 (54) A NOVELTY BREAKABLE SHELL (73) ZURU (Singapore) Pte. Ltd. (72) MOWBRAY, Mathew Peter (31) 201862615591 P (32) 10.01.2018 (33) United States of America
(31) 102019107702 (32) 26.03.2019 (33) Germany	(31) 20190022938 (32) 04.12.2019 (33) Italy (51) B65D 1/20 B67D 7/02 (11) EP3400174 (21) EP16700331.8 (47) 26.07.2023 (87) EP2016050214 13.07.2017 (22) 07.01.2016 (54) ASSEMBLY COMPRISING A PLASTIC CONTAINER FOR HOLDING FLUIDS, COMPRISING A LOCK AND KEY DEVICE (73) Ecolab USA, Inc. (72) NOLTEN, Ernest MAI, Thomas	(51) B65D 8/00 B65D 65/46 (11) EP3988465 (21) EP21203102.5 (47) 26.07.2023 (22) 18.10.2021 (54) CONTAINER FOR LIQUIDS MADE ENTIRELY FROM NATURAL PLANT MATERIALS (73) Hsu, Yu-Ting (72) Hsu, Yu-Ting (31) 109136629 (32) 22.10.2020 (33) Taiwan, Chinese Taipei
(51) B65B 23/06 B65G 23/30 (11) EP4025507 (21) EP20765377.5 (47) 26.07.2023 (87) NL2020050530 11.03.2021 (22) 28.08.2020 (54) PACKAGING DEVICE FOR PACKAGING EGGS (73) Moba B.V. (72) GROOTHERDER, Berend Derk (31) 2023787 (32) 06.09.2019 (33) Netherlands	(31) 20190022938 (32) 04.12.2019 (33) Italy (51) B65D 1/36 B65D 5/50 B65D 85/36 (11) EP3841027 (21) EP19758579.7 (47) 26.07.2023 (87) US2019045848 27.02.2020 (22) 09.08.2019 (54) FOOD STORAGE TRAY (73) Intercontinental Great Brands LLC (72) HARRELL, Patrick QUINONES, Rafael EVANS, Alicia KULKARNI, Mandar Madhukar	(51) B65D 8/00 B65D 65/46 (11) EP3988465 (21) EP21203102.5 (47) 26.07.2023 (22) 18.10.2021 (54) CONTAINER FOR LIQUIDS MADE ENTIRELY FROM NATURAL PLANT MATERIALS (73) Hsu, Yu-Ting (72) Hsu, Yu-Ting (31) 109136629 (32) 22.10.2020 (33) Taiwan, Chinese Taipei (51) B65D 41/34 B65D 47/08 B65D 55/16 (11) EP4072962 (21) EP20830110.1 (47) 26.07.2023 (87) EP2020085862 17.06.2021 (22) 11.12.2020 (54) A CLOSURE AND A SPORTSCAP (73) Obrist Closures Switzerland GmbH (72) GARRETT, Darren HOLMES, Daniel (31) 201918317 (32) 12.12.2019 (33) United Kingdom
(51) B65B 31/04 B65B 9/12 B65B 55/10 (11) EP3656687 (21) EP19207701.4 (47) 26.07.2023 (22) 07.11.2019 (54) A METHOD AND A PACKAGING APPARATUS FOR FORMING SEALED PACKAGES (73) Tetra Laval Holdings & Finance S.A. (72) ANZALDI, Daniele	(31) 20190022938 (32) 04.12.2019 (33) Italy (51) B65D 1/20 B67D 7/02 (11) EP3400174 (21) EP16700331.8 (47) 26.07.2023 (87) EP2016050214 13.07.2017 (22) 07.01.2016 (54) ASSEMBLY COMPRISING A PLASTIC CONTAINER FOR HOLDING FLUIDS, COMPRISING A LOCK AND KEY DEVICE (73) Ecolab USA, Inc. (72) NOLTEN, Ernest MAI, Thomas (51) B65D 1/36 B65D 5/50 B65D 85/36 (11) EP3841027 (21) EP19758579.7 (47) 26.07.2023 (87) US2019045848 27.02.2020 (22) 09.08.2019 (54) FOOD STORAGE TRAY (73) Intercontinental Great Brands LLC (72) HARRELL, Patrick QUINONES, Rafael EVANS, Alicia KULKARNI, Mandar Madhukar	(51) B65D 8/00 B65D 65/46 (11) EP3988465 (21) EP21203102.5 (47) 26.07.2023 (22) 18.10.2021 (54) CONTAINER FOR LIQUIDS MADE ENTIRELY FROM NATURAL PLANT MATERIALS (73) Hsu, Yu-Ting (72) Hsu, Yu-Ting (31) 109136629 (32) 22.10.2020 (33) Taiwan, Chinese Taipei (51) B65D 41/34 B65D 47/08 B65D 55/16 (11) EP4072962 (21) EP20830110.1 (47) 26.07.2023 (87) EP2020085862 17.06.2021 (22) 11.12.2020 (54) A CLOSURE AND A SPORTSCAP (73) Obrist Closures Switzerland GmbH (72) GARRETT, Darren HOLMES, Daniel (31) 201918317 (32) 12.12.2019 (33) United Kingdom

- | | | |
|--|--|---|
| (51) B65D 41/34
B65D 55/16 | B65D 85/76
B31B 70/52 | (33) United States of America
United States of America |
| (11) EP4003862 | B31B 70/64 | United States of America |
| (21) EP19798178.0 | B31B 150/00 | United States of America |
| (47) 26.07.2023 | B31B 160/20 | <hr/> |
| (87) EP2019078398
28.01.2021 | (11) EP3625143 | (51) B65D 81/20 |
| (22) 18.10.2019 | (21) EP18730876.2 | B67C 3/04 |
| (54) CLOSURE | (47) 26.07.2023 | B67C 7/00 |
| (73) Obrist Closures Switzerland GmbH | (87) IT2018050084 | B65D 51/24 |
| (72) ROUQUETTE, Alexandre | 22.11.2018 | B65B 31/00 |
| HOOD, Graeme | (22) 15.05.2018 | (11) EP2909106 |
| WIDMER, Sebastien | (54) PACKAGE FOR DAIRY PRODUCTS,
SHEET, MULTI-LAYER FILM AND
METHOD ASSOCIATED | (21) EP13842731.5 |
| DREYER, Lino | (73) Egidio Galbani S.r.l. | (47) 26.07.2023 |
| (31) 201910507 | (72) BOFFELLI, Giuliano | (87) US2013058377
03.04.2014 |
| (32) 23.07.2019 | (31) 201700052473 | (22) 06.09.2013 |
| (33) United Kingdom | (32) 15.05.2017 | (54) USE OF ADSORBER MATERIAL
TO RELIEVE VACUUM IN SEALED
CONTAINER CAUSED BY COOLING OF
HEATED CONTENTS |
| <hr/> | (33) Italy | (73) Pepsico, Inc. |
| (51) B65D 47/20 | (51) B65D 77/04 | (72) SEQUEIRA, Clarence |
| (11) EP3976492 | A61F 2/00 | SOCCI, Edward Peter |
| (21) EP20729029.7 | B65D 51/20 | CHIANG, Weilong L. |
| (47) 26.07.2023 | (11) EP3947188 | LUNN, Paul |
| (87) EP2020064457
03.12.2020 | (21) EP20723458.4 | (31) 201213629720 |
| (22) 25.05.2020 | (47) 26.07.2023 | (32) 28.09.2012 |
| (54) DISPENSING CLOSURE COMPRISING
AN ACTUATOR DISC AND ACTUATOR
DISC THEREFOR | (87) FR2020000080
08.10.2020 | (33) United States of America |
| (73) Obrist Closures Switzerland GmbH | (22) 02.04.2020 | <hr/> |
| (72) SCHAWO, Rainer | (54) PACKAGE AND CORRESPONDING
UNPACKING METHOD | (51) B65D 83/08 |
| SCHMIDT, Patrick | (73) Selenium Medical | A47K 10/38 |
| (31) 201907444 | (72) RICHART, Olivier | (11) EP3912926 |
| (32) 26.05.2019 | (31) 1903587 | (21) EP21156071.9 |
| (33) United Kingdom | 201962828841 P | (47) 26.07.2023 |
| <hr/> | (32) 03.04.2019 | (22) 09.02.2021 |
| (51) B65D 50/04 | 03.04.2019 | (54) WET WIPE FLIP-TOP CAP AND FLIP-
TOP SET WITH CONVENIENT OUTLET |
| (11) EP3066020 | (33) France | (73) Top Green World Packaging Co., Ltd. |
| (21) EP14777279.2 | United States of America | (72) WANG, Lin-da |
| (47) 26.07.2023 | <hr/> | (31) 202010579165 |
| (87) EP2014069008
07.05.2015 | (51) B65D 81/00 | 202020857753 U |
| (22) 05.09.2014 | A61B 5/00 | (32) 23.06.2020 |
| (54) A CHILD-RESISTANT CLOSURE | (11) EP3988471 | 21.05.2020 |
| (73) Obrist Closures Switzerland GmbH | (21) EP21209431.2 | (33) China |
| (72) FARAGHER, Stephen | (47) 26.07.2023 | China |
| (31) 201319118 | (22) 30.08.2010 | <hr/> |
| (32) 30.10.2013 | (54) DISPLAYS FOR A MEDICAL DEVICE | (51) B65D 88/16 |
| (33) United Kingdom | (73) Abbott Diabetes Care, Inc. | B31B 150/00 |
| <hr/> | (72) LOVE, Michael | B31B 160/20 |
| (51) B65D 51/28 | PANI, Michael | (11) EP3535202 |
| B65D 51/22 | SLOAN, Mark Kent | (21) EP16823062.1 |
| B65D 25/08 | PEYSER, Thomas | (47) 26.07.2023 |
| B65D 1/24 | YEE, Phillip | (87) TR2016050418
11.05.2018 |
| B65D 81/32 | MCGARRAUGH, Geoffrey | (22) 02.11.2016 |
| (11) EP3254988 | DUNN, Timothy Christian | (54) METHOD OF MANUFACTURING A
FIBC |
| (21) EP15880679.4 | JENNEWINE, Curtis | (73) Bigbagsan Cuval Dikim Ve Sanayi Ve Tic
A.S. |
| (47) 26.07.2023 | TAN, Annie | (72) CESUR, Cihan |
| (87) BR2015050190
11.08.2016 | HARPER, Wesley Scott | NASIRLI, Fatih |
| (22) 22.10.2015 | HAYTER, Gary Alan | YILDIZ, Sevket |
| (54) DEVICE FOR MIXING IN A
HERMETICALLY SEALED MANNER
SUBSTANCES STORED IN AT LEAST
TWO CONTAINERS | BERMAN, Glenn Howard | <hr/> |
| (73) Santa Tampa Participacoes Ltda | DONIGER, Kenneth | (51) B65F 1/10 |
| (72) BESALDA, Rodrigo Lasalvia | TAUB, Marc Barry | B65F 9/00 |
| (31) 102015024797 | (31) 297625 P | B65G 67/24 |
| (32) 03.02.2015 | 247541 P | (11) EP3116809 |
| (33) Brazil | 23867209 P | (21) EP15717543.1 |
| <hr/> | 238657 P | (47) 26.07.2023 |
| (51) B65D 75/00 | (32) 22.01.2010 | (87) FR2015050607
17.09.2015 |
| B65D 81/22 | 30.09.2009 | (22) 11.03.2015 |
| | 31.08.2009 | |
| | 31.08.2009 | |

(54) DEVICE FOR UNLOADING WASTE INTO A CONTAINER OF A WASTE DISPOSAL FACILITY	POSITION IN AN AUTOMATED STORAGE AND RETRIEVAL SYSTEM	B65G 19/30
(73) Caumont, Jean-Marc Caumont, Francis	(73) Autostore Technology AS	(11) EP3950541
(72) Caumont, Jean-Marc Caumont, Francis	(72) FJELDHEIM, Ivar AUSTRHEIM, Trond	(21) EP20845140.1
(31) 1452014	(31) 20191053	(47) 26.07.2023
(32) 11.03.2014	(32) 02.09.2019	(87) CN2020119211
(33) France	(33) Norway	09.12.2021
(51) B65F 5/00 B65G 53/40	(51) B65G 1/137 G08C 17/02	(22) 30.09.2020
(11) EP2867144	(11) EP3977432	(54) MATERIAL CONVEYING DEVICE
(21) EP13813587.6	(21) EP20739235.8	(73) SHANDONG LINGXIYUAN SCI-TECH DEVELOPMENT CORPORATION
(47) 26.07.2023	(47) 26.07.2023	(72) Qi, Peng ZHANG, Xiaoqi ZHANG, Xiaofeng MA, Lanying
(87) FI2013050718 09.01.2014	(87) AT2020060212 03.12.2020	(31) 202010500732
(22) 28.06.2013	(22) 27.05.2020	(32) 04.06.2020
(54) METHOD AND APPARATUS FOR HANDLING MATERIAL IN A PNEUMATIC MATERIALS HANDLING SYSTEM	(54) PICKING SYSTEM	(33) China
(73) Maricap OY	(73) TGW Logistics Group GmbH	(51) B65G 21/14 B65G 23/44
(72) SUNDHOLM, Göran	(72) HIMMELBAUER, Hannes	(11) EP3746380
(31) 20125763	(31) 504842019	(21) EP19706362.1
(32) 02.07.2012	(32) 28.05.2019	(47) 26.07.2023
(33) Finland	(33) Austria	(87) DE2019100105 08.08.2019
(51) B65G 1/04	(51) B65G 11/00 B65G 65/40 B65D 88/26 B65D 88/70	(22) 01.02.2019
(11) EP3475192	(11) EP3381840	(54) BELT CONVEYOR, PARTICULARLY WEIGHING BELT CONVEYOR
(21) EP16826000.8	(21) EP16868473.6	(73) WIPOTEC GmbH
(47) 26.07.2023	(47) 26.07.2023	(72) BLAUTH, Thorsten
(87) DK2016050439 04.01.2018	(87) JP2016084260 01.06.2017	(31) 202018100599 U
(22) 16.12.2016	(22) 18.11.2016	(32) 02.02.2018
(54) STORAGE AND RETRIEVAL SYSTEM	(54) DEW-CONDENSATION PREVENTING DEVICE IN DISCHARGE CHUTE AND POWDER AND GRAIN SUPPLYING APPARATUS USING SAME	(33) Germany
(73) BEUMER Group A/S	(73) Yoshikawa Corporation	(51) B65G 43/00 F21K 2/00 G08B 5/36
(72) LYKKEGAARD, Uffe	(72) YOSHIKAWA, Osamu	(11) EP3744665
(31) 201670461	(31) 2015230433	(21) EP20176759.7
(32) 28.06.2016	(32) 26.11.2015	(47) 26.07.2023
(33) Denmark	(33) Japan	(22) 27.05.2020
(51) B65G 1/04 B65G 1/137	(51) B65G 13/11 B65G 21/10 B65G 39/02 B65G 47/88 B65G 47/14 B65G 1/08	(54) CONVEYOR SYSTEM AND METHOD FOR MONITORING AND / OR MAINTAINING A CONVEYOR SYSTEM
(11) EP3697705	(11) EP3744663	(73) Deutsche Post AG
(21) EP18759937.8	(21) EP20176910.6	(72) HARTMANN, Bernd KRUP, Manfred KRAEMER, Arnd
(47) 26.07.2023	(47) 26.07.2023	(31) 102019114469
(87) EP2018072965 25.04.2019	(87) EP2018072965 25.04.2019	(32) 29.05.2019
(22) 27.08.2018	(22) 27.05.2020	(33) Germany
(54) BIN HOLDING DEVICE	(54) FEED AND DISCHARGE DEVICE, DISCHARGE UNIT AND METHOD FOR FEEDING WORKPIECES TO BE MACHINED IN A MACHINE TOOL AND FOR REMOVING WORKPIECES MACHINED IN THE MACHINE TOOL	(51) B65G 43/08 G05B 19/418 G06Q 10/08 G06Q 50/28
(73) Autostore Technology AS	(73) Grimm AG	(11) EP3995419
(72) HOGNALAND, Ingvar	(72) FRITZ, Rüdiger ZIRN, Leo	(21) EP20206695.7
(31) 20171688	(31) 102019114122	(47) 26.07.2023
(32) 20.10.2017	(32) 27.05.2019	(22) 10.11.2020
(33) Norway	(33) Germany	(54) DISTRIBUTING A WAREHOUSE TASK FROM A WAREHOUSE MANAGEMENT HUB TO A PROGRAMMABLE LOGIC CONTROLLER IN A DISTRIBUTED WAREHOUSE SYSTEM
(51) B65G 1/04 B65G 1/137 A62C 27/00 A62C 3/00	(51) B65G 17/06 B65G 19/08 B65G 19/22 B65G 19/24 B65G 19/28	(73) SAP SE
(11) EP4025524	(72) FRITZ, Rüdiger ZIRN, Leo	(72) DAUM, Andreas ADLER, Tobias MICHAELIS, Joerg
(21) EP20760836.5	(31) 102019114122	(51) B65G 47/82 C03B 35/10
(47) 26.07.2023	(32) 27.05.2019	
(87) EP2020073453 11.03.2021	(33) Germany	
(22) 21.08.2020	(51) B65G 17/06	
(54) METHOD, AND ASSOCIATED SYSTEM, OF PROVIDING AN OPERATOR ACCESS TO A TARGET STORAGE	B65G 19/08 B65G 19/22 B65G 19/24 B65G 19/28	

C03B 9/453	(54) ACCESS SYSTEM FOR RTC, SHIFTING	(47) 26.07.2023
B65G 47/71	VEHICLE AND METHOD FOR	(87) EP2018078604
(11) EP3529182	PROVIDING ACCESS	02.05.2019
(21) EP17794762.9	(73) Bornhorn, Heinz-Jürgen	(22) 18.10.2018
(47) 26.07.2023	(72) Bornhorn, Heinz-Jürgen	(54) UNWINDING OF MATERIALS
(87) FR2017052850	(31) 102019104757	(73) Hexcel Corporation
26.04.2018	(32) 25.02.2019	Hexcel Composites Limited
(22) 17.10.2017	(33) Germany	(72) LOCCISANO, Anthony
(54) PRODUCT TRANSFER	(51) B65H 31/02	ELLIS, John
(73) Sidel Participations	B65H 43/00	(31) 201719981
(72) CIRETTE, Damien	G03G 21/16	201762575589 P
RABEC, Dominique	B41J 3/46	(32) 30.11.2017
(31) 1660176	B41J 29/13	23.10.2017
(32) 20.10.2016	G03G 15/00	(33) United Kingdom
(33) France	H04N 1/00	United States of America
(51) B65G 47/84	(11) EP3370119	(51) B65H 54/02
(11) EP3986813	(21) EP16859392.9	C22C 38/18
(21) EP20732630.7	(47) 26.07.2023	C22C 38/00
(47) 26.07.2023	(87) JP2016075039	B65H 54/28
(87) EP2020067006	04.05.2017	B21C 47/02
24.12.2020	(22) 26.08.2016	(11) EP3521223
(22) 18.06.2020	(54) IMAGE-FORMING DEVICE	(21) EP17856324.3
(54) CONVEYING DEVICE AND PRODUCT	(73) Kyocera Document Solutions Inc.	(47) 26.07.2023
PROCESSING INSTALLATION	(72) TANAKA, Hiroyuki	(87) JP2017035185
(73) SIDEL PARTICIPATIONS	ICHIGUCHI, Tetsuya	05.04.2018
(72) CHOPLIN, Grégory	FUKUDA, Motoyuki	(22) 28.09.2017
BRACHET, Vincent	(31) 2015211432	(54) METAL STRIP COIL AND METHOD OF
(31) 1906635	(32) 28.10.2015	MANUFACTURING THE SAME
(32) 20.06.2019	(33) Japan	(73) Proterial, Ltd.
(33) France	(51) B65H 35/02	(72) FUKADA, Shinichiro
(51) B65G 47/91	B26D 7/26	Nguyen, Thanh-Nghia
B25J 15/00	(11) EP3383779	OKAMOTO, Takuya
B25B 11/00	(21) EP16801808.3	(31) 2016190742
B25J 15/06	(47) 26.07.2023	(32) 29.09.2016
B66C 1/02	(87) EP2016079110	(33) Japan
(11) EP4041664	08.06.2017	(51) B65H 67/048
(21) EP20803254.0	(22) 29.11.2016	B65H 54/52
(47) 26.07.2023	(54) ADJUSTABLE-ANGLE RAZOR BLADE	(11) EP3746387
(87) IB2020059412	HOLDER FOR A CUTTING AND	(21) EP19908167.0
15.04.2021	WINDING MACHINE	(47) 26.07.2023
(22) 07.10.2020	(73) Kampf Schneid- und Wickeltechnik	(87) IB2019061387
(54) A DEVICE FOR GRIPPING OR	GmbH & Co. KG	16.07.2020
GRASPING PRODUCTS	(72) VEDDER, Ulrich	(22) 27.12.2019
(73) Pulsar S.r.l.	(31) 102015223628	(54) A METHOD TO POSITION SPINDLE
(72) FRANZAROLI, Massimo	(32) 30.11.2015	PRECISELY IN TURRET TYPE
(31) 201900018278	(33) Germany	AUTOMATIC WINDER
(32) 08.10.2019	(51) B65H 49/08	(73) LOHIA CORP LIMITED
(33) Italy	B23K 9/133	(72) LOHIA, Siddharth
(51) B65G 54/02	B23K 9/173	(31) 201911000599
(11) EP3974355	(11) EP4061754	(32) 07.01.2019
(21) EP21198722.7	(21) EP20811112.0	(33) India
(47) 26.07.2023	(47) 26.07.2023	(51) B66B 7/06
(22) 24.09.2021	(87) IB2020060800	(11) EP3587329
(54) LINEAR MOTOR CONVEYOR SYSTEM	27.05.2021	(21) EP19183384.7
OR CLEAN/ASEPTIC ENVIRONMENTS	(22) 17.11.2020	(47) 26.07.2023
(73) ATS Corporation	(54) DEVICE FOR THE REMOVAL OF WIRE	(22) 28.06.2019
(72) BARCLAY, Michael	FROM A WIRE PACKAGE	(54) DATA TRANSMISSION VIA ELEVATOR
KLEINIKKINK, Albert	(73) Voestalpine Böhler Welding Germany	SYSTEM TENSION MEMBER
LAMBERT, Blake	GmbH	(73) OTIS Elevator Company
HOGAN, Roger	(72) OLBRICH, Thorsten	(72) MCCABE, Brian L.
(31) 202063083255 P	ANTONOGLU, Georgios	MANTESE, Joseph V.
(32) 25.09.2020	(31) 19020645	GUILANI, Brad
(33) United States of America	(32) 18.11.2019	RAJAGOPALAN, Ajit
(51) B65G 69/28	(33) European Patent Office (EPO)	MOSHER, Daniel A.
(11) EP3699121	(51) B65H 49/18	(31) 201816023775
(21) EP20000080.0	B29B 15/12	(32) 29.06.2018
(47) 26.07.2023	(11) EP3700848	(33) United States of America
(22) 25.02.2020	(21) EP18792393.3	(51) B66B 9/187

B66B 19/00	(33) Germany	B66F 9/075
(11) EP3873840	(51) B66C 23/70	(11) EP4041669
(21) EP19787288.0	(11) EP3448795	(21) EP20801326.8
(47) 26.07.2023	(21) EP17722259.3	(47) 26.07.2023
(87) EP2019078636	(47) 26.07.2023	(87) FI2020050660
07.05.2020	(87) US2017029149	15.04.2021
(22) 22.10.2019	02.11.2017	(22) 07.10.2020
(54) METHOD FOR INSTALLING A LIFT FACILITY	(22) 24.04.2017	(54) CONTROL OF DRIVE OF A LIFT TRUCK
(73) INVENTIO AG	(54) CRANE WITH ROTARY LOCKING MECHANISM	(73) Mitsubishi Logisnext Europe Oy
(72) FRIDMANN, Robert	(73) Manitowoc Crane Companies, LLC	(72) LAAKSONEN, Janne
(31) 18203391	(72) SCHOONMAKER, Stephen, J.	(31) 20195867
(32) 30.10.2018	(31) 201662326960 P	(32) 10.10.2019
(33) European Patent Office (EPO)	(32) 25.04.2016	(33) Finland
(51) B66C 1/10	(33) United States of America	(51) B81B 7/00
B66C 1/66	(51) B66F 9/075	(11) EP3725737
B66C 6/00	B66F 9/24	(21) EP20176768.8
B66C 13/12	G01S 13/87	(47) 26.07.2023
B66C 13/14	(11) EP3599214	(22) 15.05.2019
B66C 13/46	(21) EP18000996.1	(54) REDUCING CROSSTALK IN A MIXED-SIGNAL MULTI-CHIP MEMS DEVICE PACKAGE
E04C 3/07	(47) 26.07.2023	(73) Murata Manufacturing Co., Ltd.
(11) EP3411320	(22) 21.12.2018	(72) KAIJA, Kimmo
(21) EP16889565.4	(54) DEVICE FOR SPATIAL ORIENTATION, AN ORIENTATION MEANS, A DETECTION DEVICE, USE AND METHOD	(31) 20185469
(47) 26.07.2023	(73) INRO Elektrotechnik GmbH	(32) 22.05.2018
(87) SE2016050070	(72) Kairlas, Maximos	(33) Finland
10.08.2017	Ries, Michael	(51) B81B 7/00
(22) 01.02.2016	(31) 102018005748	B81B 7/00
(54) SPREADER FOR LIFTING INTERMODAL CONTAINER	(32) 23.07.2018	B81C 1/00
(73) Elme Spreader AB	(33) Germany	H01L 23/48
(72) KARLSSON, Örjan	(51) B66F 9/075	(11) EP3597591
KARLSSON, Gösta	B66F 9/24	(21) EP18787562.0
FÖRANDER, Erik	H02M 3/335	(47) 26.07.2023
(51) B66C 13/14	H02M 3/00	(87) CN2018082295
B66C 3/00	(11) EP3782953	25.10.2018
E02F 9/22	(21) EP20192092.3	(22) 09.04.2018
B66C 1/68	(47) 26.07.2023	(54) MEMS CHIP AND ELECTRICAL ENCAPSULATION METHOD THEREFOR
B66C 3/16	(22) 21.08.2020	(73) Huawei Technologies Co., Ltd.
B66C 13/12	(54) INDUSTRIAL TRUCK WITH A BUILT-IN CHARGER	(72) WEI, Yuming
(11) EP3472089	(73) Jungheinrich Aktiengesellschaft	(31) 201710267612
(21) EP17813695.8	(72) Petersen, Marinus	(32) 21.04.2017
(47) 26.07.2023	Warncke, Matthias	(33) China
(87) SE2017050617	Wetegrove, Ralf	(51) B81C 1/00
21.12.2017	(31) 102019122659	(11) EP3339243
(22) 09.06.2017	(32) 22.08.2019	(21) EP16206875.3
(54) HOSE GUIDING DEVICE FOR A CRANE TOOL	(33) Germany	(47) 26.07.2023
(73) Komatsu Forest AB	(51) B66F 9/20	(22) 23.12.2016
(72) UDD, Erik	G05G 9/047	(54) INTERCONNECTED LAYER STACK WITH VERTICALLY ALIGNED MEMS AND ASSIGNED CHIP
(31) 1650852	(11) EP3301068	(73) AT & S Austria Technologie & Systemtechnik Aktiengesellschaft
(32) 16.06.2016	(21) EP17193235.3	(72) Gmundner, Gernot
(33) Sweden	(47) 26.07.2023	Vockenberger, Christian
(51) B66C 15/04	(22) 26.09.2017	(51) B81C 1/00
G08G 7/02	(54) INDUSTRIAL TRUCK WITH AN OPERATING LEVER AND A METHOD OF OPERATING SUCH AN INDUSTRIAL TRUCK	(11) EP3681840
(11) EP3713867	(73) Jungheinrich Aktiengesellschaft	(21) EP18789246.8
(21) EP19700636.4	(72) Grothkopp Dr., Hartwig	(47) 26.07.2023
(47) 26.07.2023	Sellentin, Jörn	(87) NL2018050610
(87) EP2019050155	Geilsdorf, Hendrik	21.03.2019
11.07.2019	(31) 102016118460	(22) 17.09.2018
(22) 04.01.2019	(32) 29.09.2016	(54) METHOD OF FABRICATING A MICROMACHINED CHANNEL
(54) CRANE WITH ANTI-COLLISION DEVICE AND METHOD FOR OPERATING MULTIPLE SUCH CRANES	(33) Germany	(73) Berkin B.V.
(73) Liebherr-Werk Biberach GmbH	(51) B66F 9/24	
(72) EIWAN, Christoph		
(31) 102018100133		
(32) 04.01.2018		

Stichting voor de Technische Wetenschappen Universiteit Twente	(21) EP20213326.0 (47) 26.07.2023 (22) 11.12.2020	(51) C01B 3/24 C01B 32/40 C10J 3/46
(72) ZHAO, Yiyuan ZENG, Yaxiang WIEGERINK, Remco John LOTTERS, Joost Conrad VELTKAMP, Henk-Willem	(54) METASURFACE DEVICE (73) Samsung Electronics Co., Ltd. (72) CHOO, Hyuck SIDDIQUE, Radwanul Hasan	(11) EP3898504 (21) EP19829186.6 (47) 26.07.2023 (87) EP2019086469 25.06.2020
(31) 2019560 (32) 15.09.2017 (33) Netherlands	(31) 202017000268 202063013524 P 202062962923 P (32) 21.08.2020 21.04.2020 17.01.2020	(22) 19.12.2019 (54) PROCESS FOR PRODUCING HYDROGEN, CARBON MONOXIDE AND A CARBON -CONTAINING PRODUCT
(51) B81C 1/00 B81B 3/00	(33) United States of America United States of America United States of America	(73) BASF SE thyssenkrupp AG thyssenkrupp Industrial Solutions AG
(11) EP3606869 (21) EP18781061.9 (47) 26.07.2023 (87) US2018026111 11.10.2018	(51) C01B 3/00 C01B 6/02	(72) BÜKER, Karsten ANTWEILER, Nicolai
(22) 04.04.2018 (54) EUTECTIC BONDING WITH ALGE (73) KIONIX, INC. (72) FUJITA, Toma HELLER, Martin	(11) EP3008011 (21) EP14732601.1 (47) 26.07.2023 (87) GB2014051825 18.12.2014	(31) 102018222463 (32) 20.12.2018 (33) Germany
(31) 201715677994 201762481634 P (32) 15.08.2017 04.04.2017 (33) United States of America United States of America	(87) GB2014051825 18.12.2014 (22) 13.06.2014 (54) SYNTHESIS AND HYDROGEN STORAGE PROPERTIES OF MANGANESE HYDRIDES (73) USW Commercial Services Ltd. Hydro-Québec	(51) C01B 3/32 C01B 3/56 (11) EP3980372 (21) EP20736425.8 (47) 26.07.2023 (87) IB2020055322 10.12.2020 (22) 05.06.2020 (54) PROCESS FOR THE PRODUCTION OF HYDROGEN (73) WOOD ITALIANA S.R.L. (72) DEPETRI, Valentina MANCUSO, Luca RUGGERI, Fabio
(51) B82Y 30/00 B82Y 40/00 H01G 11/36 H01M 4/13 H01M 4/62 H01M 10/052 B32B 5/02 B32B 5/24 B32B 15/04 B32B 15/20 B32B 27/06 B32B 27/18 B32B 27/32 C01B 32/168 C01B 32/174	(72) ANTONELLI, David (31) 201361835071 P (32) 14.06.2013 (33) United States of America	(51) C01B 3/38 C01B 3/56 (11) EP3980372 (21) EP20736425.8 (47) 26.07.2023 (87) IB2020055322 10.12.2020 (22) 05.06.2020 (54) PROCESS FOR THE PRODUCTION OF HYDROGEN (73) WOOD ITALIANA S.R.L. (72) DEPETRI, Valentina MANCUSO, Luca RUGGERI, Fabio
(11) EP2379325 (21) EP09843170.3 (47) 26.07.2023 (87) US2009068781 14.10.2010 (22) 18.12.2009 (54) EXFOLIATED CARBON NANOTUBES, METHODS FOR PRODUCTION THEREOF AND PRODUCTS OBTAINED THEREFROM	(51) C01B 3/06 B01J 7/02 (11) EP3722256 (21) EP20167101.3 (47) 26.07.2023 (22) 31.03.2020 (54) GAS GENERATION DEVICE (73) Commissariat à l'Energie Atomique et aux Energies Alternatives (72) ROUGEAUX, Isabelle TOSONI, Olivier DELMAS, Jérôme BLANCHOT, Olivier FAUCHEUX, Vincent CAPRON, Philippe	(51) C01B 3/38 B01J 8/04 B01J 19/00 (11) EP3837210 (21) EP19758482.4 (47) 26.07.2023 (87) GB2019052316 20.02.2020 (22) 19.08.2019 (54) STEAM OR DRY REFORMING OF HYDROCARBONS (73) Biohydrogen Technologies Ltd. (72) WEEDON, Geoffrey Gerald WEEDON, Jack Gerald
(73) Molecular Rebar Design, LLC (72) Bosnyak, Clive Swoger, Kurt W. (31) 139050 P 138551 P (32) 19.12.2008 18.12.2008 (33) United States of America United States of America	(31) 1903787 (32) 09.04.2019 (33) France (51) C01B 3/06 C01B 6/17 (11) EP3617136 (21) EP19205087.0 (47) 26.07.2023 (22) 07.11.2016 (54) METHOD FOR PRODUCING METAL BOROHYDRIDE AND MOLECULAR HYDROGEN (73) H2Fuel Cascade B.V. (72) Lugtigheid, Gerardus Wilhelmus	(51) C01B 3/38 B01J 8/06 B01J 8/00 B01J 19/24 C01B 3/34 (11) EP3980172 (21) EP20737537.9
(51) B82Y 40/00 G01N 21/64 G01N 33/553 B01L 3/00 (11) EP3851835	(31) 2016374 2015742 (32) 07.03.2016 06.11.2015 (33) Netherlands Netherlands	(51) C01B 3/38 B01J 8/06 B01J 8/00 B01J 19/24 C01B 3/34 (11) EP3980172 (21) EP20737537.9

(47) 26.07.2023	B82Y 30/00	B01J 37/02
(87) IB2020055320	C01B 32/172	(11) EP2752391
10.12.2020	C01B 32/174	(21) EP12828309.0
(22) 05.06.2020	C07D 209/36	(47) 26.07.2023
(54) PROCESS OF STEAM REFORMING	G01N 27/12	(87) JP2012071699
WITH LOW CARBON DIOXIDE	C08G 61/12	07.03.2013
EMISSIONS	(11) EP3837299	(22) 28.08.2012
(73) WOOD ITALIANA S.R.L.	(21) EP19849963.4	(54) PROCESS FOR PRODUCING
(72) MANCUSO, Luca	(47) 26.07.2023	PARTICLES HELD IN POROUS SILICA,
SANGALLI, Luigi	(87) IB2019056871	POROUS SILICA, AND PARTICLES
RUGGERI, Fabio	20.02.2020	HELD IN POROUS SILICA
(31) 201900008280	(22) 13.08.2019	(73) Tokyo Metropolitan Industrial Technology
(32) 06.06.2019	(54) INDIGO-BASED POLYMERS FOR USE	Research Institute
(33) Italy	IN SWCNTS ELECTRONICS	(72) OAKI, Yuya
(51) C01B 21/093	(73) National Research Council of Canada	WATANABE, Hiroto
H01M 10/0568	(72) OUYANG, Jianying	IMAI, Hiroaki
B01D 1/22	LI, Zhao	(31) 2012186879
B01D 3/34	DING, Jianfu	2011185806
C01B 21/08	MALENFANT, Patrick Roland Lucien	(32) 27.08.2012
(11) EP3736250	GUO, Chang	29.08.2011
(21) EP20182860.5	(31) 201862718659 P	(33) Japan
(47) 26.07.2023	(32) 14.08.2018	Japan
(22) 27.05.2011	(33) United States of America	
(54) ALKALI METAL SALT OF	(51) C01B 33/023	(51) C01C 1/02
FLUOROSULFONYL IMIDE	H01M 4/134	B01D 53/14
(73) Nippon Shokubai Co., Ltd.	C01B 33/00	B01D 53/62
(72) SATO, Shimpei	H01M 4/38	B01D 53/96
OKUMURA, Yasunori	H01G 11/30	C01C 1/12
SATO, Yuichi	(11) EP3380436	(11) EP3558870
(31) 2010196236	(21) EP16810542.7	(21) EP17818475.0
2010136382	(47) 26.07.2023	(47) 26.07.2023
2010123474	(87) US2016063253	(87) EP2017081888
(32) 01.09.2010	01.06.2017	28.06.2018
15.06.2010	(22) 22.11.2016	(22) 07.12.2017
28.05.2010	(54) POROUS SILICON ALLOY	(54) SYSTEM FOR RECOVERING
(33) Japan	COMPOSITIONS, METHODS FOR	AMMONIA FROM A GAS STREAM
Japan	MAKING THEM AND DEVICES	(73) General Electric Technology GmbH
Japan	THEREOF	(72) DUBE, Sanjay Kumar
(51) C01B 25/32	(73) Corning Incorporated	BEDELL, Stephen Alan
C02F 1/52	(72) KENT, Brian Alan	(31) 201615388026
C02F 1/66	DUTTA, Indrajit	(32) 22.12.2016
C02F 9/00	O'MALLEY, Shawn Michael	(33) United States of America
C02F 11/00	YOUNGMAN, Randall Eugene	(51) C01G 53/00
C05F 7/00	TEPESCH, Patrick David	(11) EP3647270
C02F 3/28	(31) 201562259877 P	(21) EP19206386.5
C02F 11/04	(32) 25.11.2015	(47) 26.07.2023
C02F 11/12	(33) United States of America	(22) 31.10.2019
C02F 101/10	(51) C01B 33/107	(54) POSITIVE ACTIVE MATERIAL FOR
C05B 1/04	(11) EP3919441	RECHARGEABLE LITHIUM BATTERY,
C05F 17/10	(21) EP20766143.0	METHOD OF PREPARING THE SAME
C05F 17/40	(47) 26.07.2023	AND RECHARGEABLE LITHIUM
C05F 17/50	(87) JP2020007622	BATTERY INCLUDING THE SAME
(11) EP3921281	10.09.2020	(73) Samsung SDI Co., Ltd.
(21) EP20706109.4	(22) 26.02.2020	(72) Choi, Ickkyu
(47) 26.07.2023	(54) CHLOROSILANE PRODUCING	Lee, Soonrewl
(87) EP2020052592	METHOD	Hong, Mingzi
13.08.2020	(73) Tokuyama Corporation	Chae, Youngjoo
(22) 03.02.2020	(72) MATSUMURA, Kunihiko	Park, Jungjoon
(54) PROCESS FOR RECOVERING	IYAMA, Shoji	Kim, Young-Ki
PHOSPHORUS	OGIHARA, Katsuya	Hong, Soonkie
(73) CNP CYCLES GMBH	(31) 2019039320	(31) 20180133746
(72) KLAMP, Thomas	(32) 05.03.2019	(32) 02.11.2018
GERLACH, Markus	(33) Japan	(33) Korea (Republic)
(31) 102019102700	(51) C01B 33/18	(51) C01G 53/10
(32) 04.02.2019	B01J 19/00	C22B 7/00
(33) Germany	B01J 23/22	C01G 51/10
(51) C01B 32/159	B01J 23/30	(11) EP3967661
B01D 11/04	B01J 35/02	(21) EP20195318.9
		(47) 26.07.2023

- (22) 09.09.2020
(54) PROCESS FOR PREPARING BATTERY GRADE METAL SULPHATE SOLUTIONS
(73) Metal Trade Overseas AG Northvolt AB
(72) ALISAARI, Pekka
LINDELL, Esa
LASSI, Ulla
LUOMA, Rauno
NIEMI, Tom
TYNJÄLÄ, Pekka
LAUKKANEN, Tuomo
LANTTO, Cornelia
-
- (51) C03B 5/00
C03C 1/00
C03C 3/087
C03C 3/089
C03C 3/102
C03B 9/193
C03C 3/078
(11) EP3277641
(21) EP16716346.8
(47) 26.07.2023
(87) US2016024001
06.10.2016
(22) 24.03.2016
(54) GLASS PRECURSOR GEL
(73) Owens-Brockway Glass Container Inc.
(72) REMINGTON, Michael, P.
WEIL, Scott
GULLINKALA, Tilak
COOPER, Scott, P.
BHADURI, Sutapa
(31) 201514676372
(32) 01.04.2015
(33) United States of America
-
- (51) C03B 9/453
(11) EP3730462
(21) EP17935730.6
(47) 26.07.2023
(87) MX2017000173
27.06.2019
(22) 20.12.2017
(54) SYSTEM AND METHOD FOR TRANSFERRING GLASS ITEMS
(73) Vitro, S.A.B. de C.V.
(72) TIJERINA RAMOS, Victor
-
- (51) C03B 33/04
C03C 15/00
B23K 26/53
B23K 26/38
B23K 26/402
B23K 26/0622
B23K 26/06
B23K 26/073
B23K 103/00
C03B 33/02
B23K 26/00
(11) EP3969219
(21) EP20726244.5
(47) 26.07.2023
(87) IB2020054549
19.11.2020
(22) 14.05.2020
(54) METHOD AND DEVICE FOR LASER PROCESSING OF TRANSPARENT MATERIALS
- (73) UAB Altechna R&D
(72) GERTUS, Titas
MIKUTIS, Mindaugas
ULCINAS, Orestas
URBAS, Antanas
(31) 2019028
(32) 15.05.2019
(33) Lithuania
-
- (51) C03C 1/00
C03C 3/091
C03C 3/095
(11) EP3138822
(21) EP16195343.5
(47) 26.07.2023
(22) 18.02.2009
(54) FINING AGENTS FOR SILICATE GLASSES
(73) Corning Incorporated
(72) DEJNEKA, Matthew John
GOMEZ, Sinue
(31) 67130
(32) 26.02.2008
(33) United States of America
-
- (51) C03C 3/06
C03C 3/078
C03C 3/089
C03C 3/12
C03C 3/21
C03C 8/04
C03C 8/24
C03C 8/08
C03C 8/16
C03C 8/20
C03C 12/00
C03C 14/00
E06B 3/663
E06B 3/673
E06B 3/677
C03C 27/06
E06B 3/66
(11) EP3718982
(21) EP18883937.7
(47) 26.07.2023
(87) JP2018040710
06.06.2019
(22) 01.11.2018
(54) ENCAPSULATING MATERIAL AND MULTILAYERED GLASS PANEL USING SAME
(73) Resonac Corporation
(72) MIYAKE, Tatsuya
TACHIZONO, Shinichi
ONODERA, Taigo
HASHIBA, Yuji
NAITO, Takashi
YOSHIMURA, Kei
KONNO, Akitoyo
SUZUKI, Hironori
(31) 2017227511
(32) 28.11.2017
(33) Japan
-
- (51) C03C 3/087
C03C 3/091
C03C 4/20
C03C 21/00
(11) EP3502070
(21) EP19156960.7
(47) 26.07.2023
- (22) 25.10.2012
(54) GLASS COMPOSITIONS WITH IMPROVED CHEMICAL AND MECHANICAL DURABILITY
(73) Corning Incorporated
(72) MORENA, Michael Robert
PAL, Santona
DRAKE, Melinda Ann
DANIELSON, Paul Stephen
DEMARTINO, Steven Edwards
(31) 201161551163 P
(32) 25.10.2011
(33) United States of America
-
- (51) C03C 8/14
C03C 8/20
C03C 14/00
C03C 3/066
C03C 3/115
F24C 14/00
F24C 15/00
C23D 5/00
(11) EP3647285
(21) EP19205924.4
(47) 26.07.2023
(22) 29.10.2019
(54) ENAMEL COMPOSITION AND METHOD OF PREPARING THE SAME
(73) LG Electronics Inc.
(72) LEE, Hyeyong
(31) 20180132225
(32) 31.10.2018
(33) Korea (Republic)
-
- (51) C03C 13/00
C03C 3/095
(11) EP3409649
(21) EP16779506.1
(47) 26.07.2023
(87) CN2016076885
20.10.2016
(22) 21.03.2016
(54) HIGH PERFORMANCE GLASS FIBRE COMPOSITION, AND GLASS FIBRE AND COMPOSITE MATERIAL THEREOF
(73) Jushi Group Co., Ltd.
(72) ZHANG, Yuqiang
XING, Wenzhong
GU, Gujiang
CAO, Guorong
ZHANG, Lin
(31) 201610146263
(32) 15.03.2016
(33) China
-
- (51) C03C 17/00
C03C 23/00
(11) EP3717429
(21) EP17812080.4
(47) 26.07.2023
(87) IB2017057439
06.06.2019
(22) 28.11.2017
(54) MACHINING PROCESS FOR MICROFLUIDIC AND MICROMECHANICAL DEVICES
(73) Femtoprint
(72) BAUR, Charles
FUSSINGER, Thomas
ROGG, Arno

LOVERA, Andrea	(72) FESSLER, Gregor	(31) 2017072697
POLLONGHINI, Sacha	GROGG, Christian	(32) 31.03.2017
BELLOUARD, Yves	ROMANYUK, Andriy	(33) Japan
BRAGA, Daniele	WÄCKERLIN, Aneliia	(51) C04B 24/24
LAMBELET, David	(51) C03C 25/00	C08G 12/46
(51) C03C 17/32	G02B 6/255	C04B 24/30
C03C 21/00	C03C 25/10	C04B 103/30
C03C 15/00	(11) EP3331833	(11) EP3398916
B32B 17/06	(21) EP16734783.0	(21) EP16880783.2
B32B 17/10	(47) 26.07.2023	(47) 26.07.2023
B32B 27/36	(87) US2016037543	(87) CN2016104954
G02F 1/1333	22.12.2016	06.07.2017
G06F 1/16	(22) 15.06.2016	(22) 07.11.2016
H04M 1/02	(54) RE-COATED OPTICAL FIBERS AND	(54) PHOSPHORYLATED
G09F 9/30	METHODS OF RE-COATING OPTICAL	POLYCONDENSATE AS HIGH
(11) EP3744698	FIBERS	EFFICIENCY WATER REDUCING
(21) EP20174468.7	(73) Corning Incorporated	AGENT AND PREPARATION METHOD
(47) 26.07.2023	(72) OCAMPO, Manuela	THEREOF
(22) 22.01.2015	PATTERSON, Joan Diana	(73) Panzhuhua Bote Building Materials Co.,
(54) BENDABLE GLASS STACK	(31) 201562180843 P	Ltd.
ASSEMBLIES, ARTICLES AND	(32) 17.06.2015	Sobute New Materials Co., Ltd.
METHODS OF MAKING THE SAME	(33) United States of America	(72) RAN, Qianping
(73) Corning Incorporated	(51) C03C 27/06	MA, Jianfeng
(72) HU, Guangli	C03C 17/36	WANG, Tao
DONOVAN, Michael Patrick	E06B 3/677	YANG, Yong
CHU, Polly Wanda	(11) EP3954664	FAN, Shimin
ELLISON, Adam James	(21) EP20787484.3	LIU, Jiaping
CIMO, Joseph Patrick	(47) 26.07.2023	QI, Shuai
KUDVA, Gautam Narendra	(87) JP2020012475	(31) 201511028434
CHANG, Theresa	15.10.2020	(32) 31.12.2015
GROSS, Timothy Michael	(22) 19.03.2020	(33) China
VENKATARAMAN, Natesan	(54) GLASS PANEL UNIT MANUFACTURING	(51) C04B 28/02
VADDI, Butchi Reddy	METHOD AND GLASS PANEL UNIT	C04B 28/08
SMITH, Nicholas James	ASSEMBLY	(11) EP3990414
(31) 201462090604 P	(73) Panasonic Intellectual Property	(21) EP20734059.7
201461974732 P	Management Co., Ltd.	(47) 26.07.2023
201461932924 P	(72) NONAKA, Masataka	(87) EP2020068002
(32) 11.12.2014	ISHIBASHI, Tasuku	30.12.2020
03.04.2014	URIU, Eiichi	(22) 26.06.2020
29.01.2014	ABE, Hiroyuki	(54) METHOD FOR PRODUCING A
(33) United States of America	SHIMIZU, Takeshi	CARBONATE BONDED, COMPACTED
United States of America	HASEGAWA, Kazuya	ARTICLE
United States of America	(31) 2019076001	(73) ORBIX Productions
(51) C03C 17/34	(32) 12.04.2019	(72) MAYELLE, Nick
(11) EP4041690	(33) Japan	VAN MIERLOO, Peter
(21) EP20785542.0	(51) C03C 27/06	VAN MECHELEN, Dirk
(47) 26.07.2023	E06B 3/663	(31) 19182726
(87) EP2020078326	E06B 3/677	(32) 26.06.2019
15.04.2021	E06B 3/66	(33) European Patent Office (EPO)
(22) 08.10.2020	(11) EP3604245	(51) C04B 28/04
(54) INSULATING GLAZING COMPRISING	(21) EP18777909.5	C04B 111/10
LAYERS OF ITO AND NIOBIUM	(47) 26.07.2023	B28B 11/24
NITRIDE	(87) JP2018004627	(11) EP4010296
(73) Saint-Gobain Glass France	04.10.2018	(21) EP19758606.8
(72) ABADIE, Sacha	(22) 09.02.2018	(47) 26.07.2023
AGUIAR, Rosiana	(54) METHOD FOR MANUFACTURING	(87) EP2019025259
(31) 1911278	GLASS PANEL UNIT AND METHOD	11.02.2021
(32) 10.10.2019	FOR MANUFACTURING GLASS	(22) 06.08.2019
(33) France	WINDOW	(54) METHOD FOR PRODUCTION OF
(51) C03C 17/36	(73) Panasonic Intellectual Property	CONCRETE PRECAST ELEMENTS, IN
(11) EP3924313	Management Co., Ltd.	PARTICULAR RAILWAY SLEEPERS
(21) EP19706491.8	(72) ISHIBASHI, Tasuku	(73) Pawluk, Jaroslaw Jerzy
(47) 26.07.2023	NONAKA, Masataka	(72) Pawluk, Jaroslaw Jerzy
(87) EP2019053826	ISHIKAWA, Haruhiko	(51) C04B 35/50
20.08.2020	HASEGAWA, Kazuya	C01G 25/00
(22) 15.02.2019	URIU, Eiichi	C01G 33/00
(54) FUNCTIONAL COATED ARTICLE	SHIMIZU, Takeshi	H01M 10/052
(73) Glas Trösch Holding AG	ABE, Hiroyuki	H01M 10/0562

- (11) EP4005999
(21) EP21856920.0
(47) 26.07.2023
(87) JP2021044648
31.03.2022
(22) 06.12.2021
(54) CERAMIC POWDER MATERIAL AND
METHOD FOR PRODUCING CERAMIC
POWDER MATERIAL
(73) Daiichi Kigenso Kagaku Kogyo Co., Ltd.
(72) NIWA, Tadahiho
(31) 2021060422
(32) 31.03.2021
(33) Japan

(51) C04B 35/5831
C04B 35/626
C04B 35/645
(11) EP3464217
(21) EP17726635.0
(47) 26.07.2023
(87) EP2017063104
07.12.2017
(22) 31.05.2017
(54) METHOD OF MAKING A
POLYCRYSTALLINE CUBIC BORON
NITRIDE
(73) Element Six (UK) Limited
(72) CAN, Antionette
GHOSH, Santonu
MOTCHELAHO, Anne Myriam Megne
(31) 201609672
(32) 02.06.2016
(33) United Kingdom

(51) C04B 35/587
H01L 23/373
H05K 1/03
C04B 35/626
C04B 35/628
C04B 35/632
C04B 35/634
C04B 35/638
C04B 37/02
(11) EP3613718
(21) EP18787780.8
(47) 26.07.2023
(87) JP2018015839
25.10.2018
(22) 17.04.2018
(54) SINTERED BODY, SUBSTRATE,
CIRCUIT BOARD, AND METHOD OF
MANUFACTURING A SINTERED BODY
(73) Kabushiki Kaisha Toshiba, Inc.
Toshiba Materials Co., Ltd.
(72) TAKAHASHI, Satoshi
MOMMA, Jun
AOKI, Katsuyuki
(31) 2017081452
(32) 17.04.2017
(33) Japan

(51) C04B 35/657
C03B 5/43
C04B 35/484
C03B 5/02
(11) EP3253725
(21) EP15881134.9
(47) 26.07.2023
(87) JP2015056759
11.08.2016
- (22) 02.03.2015
(54) HIGH ZIRCONIA ELECTRICALLY
FUSED CAST REFRACTORY
(73) Saint-Gobain TM K.K.
(72) HASHIMOTO, Itaru
SUGIYAMA, Hiroshi
MISU, Yasuo
KUBOKI, Toshimitsu
(31) 2015018424
(32) 02.02.2015
(33) Japan

(51) C04B 35/80
C04B 35/626
C04B 35/645
F27B 5/18
C04B 35/117
C04B 35/14
C04B 35/565
(11) EP3613719
(21) EP19191277.3
(47) 26.07.2023
(22) 12.08.2019
(54) METHOD FOR THERMALLY
PROCESSING CMC COMPONENTS
(73) General Electric Company
(72) COONS, Timothy
GROSSMAN, Theodore
YOUNG, Ryan
SELLINGER, Aaron
WENDELN, Nicholas
(31) 201816106647
(32) 21.08.2018
(33) United States of America

(51) C04B 37/02
H01L 21/02
(11) EP3341345
(21) EP16819915.6
(47) 26.07.2023
(87) EP2016082161
29.06.2017
(22) 21.12.2016
(54) THICK-FILM PASTE MEDIATED
CERAMICS BONDED WITH METAL OR
METAL HYBRID FOILS
(73) Heraeus Deutschland GmbH & Co. KG
(72) ZIER, Gabriel
BAWOHL, Melanie
GUNDEL, Paul
HERBST, Kai
MIRIC, Anton
(31) 15201817
(32) 22.12.2015
(33) European Patent Office (EPO)

(51) C04B 41/89
C03C 8/00
(11) EP3901116
(21) EP19918023.3
(47) 26.07.2023
(87) CN2019092696
10.09.2020
(22) 25.06.2019
(54) METHOD FOR MANUFACTURING
CERAMIC TILES DECORATED WITH
DRY PARTICLE INKS
(73) Chongqing Wonderful Ceramics Co., Ltd.
Jiangxi Hemei Ceramics Co., Ltd.
Dongguan City Wonderful Ceramics
Industrial Park Co., Ltd.
- (72) TAN, Liang
SHEN, Rongwei
DENG, Jiangwen
LIU, Xuebin
WANG, Aifang
GU, Zhanwen
(31) 201910156695
(32) 01.03.2019
(33) China

(51) C04B 41/89
C04B 41/00
C04B 41/52
F01D 5/28
(11) EP3153487
(21) EP16192218.2
(47) 26.07.2023
(22) 04.10.2016
(54) ARTICLES WITH ENHANCED
TEMPERATURE CAPABILITY
(73) General Electric Company
(72) WAN, Julin
LIPKIN, Don Mark
(31) 201514878000
(32) 08.10.2015
(33) United States of America

(51) C04B 111/00
B01D 46/24
C04B 35/195
C04B 35/478
C04B 38/00
(11) EP3468940
(21) EP17737936.9
(47) 26.07.2023
(87) US2017037163
21.12.2017
(22) 13.06.2017
(54) ALUMINUM TITANATE COMPOSITIONS
AND METHODS OF MAKING
ALUMINUM TITANATE ARTICLES
(73) Corning Incorporated
(72) BACKHAUS-RICOULT, Monika
TEPESCH, Patrick David
VILENO, Elizabeth Marie
(31) 201662349249 P
(32) 13.06.2016
(33) United States of America

(51) C06C 15/00
F41J 2/02
F42B 12/70
(11) EP3816143
(21) EP19206141.4
(47) 26.07.2023
(22) 30.10.2019
(54) PYROPHORIC PELLETS THAT EMIT
INFRARED RADIATION
(73) Alloy Surfaces Company, Inc.
(72) DAVIS, Andrew

(51) C07C 29/60
C07C 29/10
C07C 33/20
(11) EP3908566
(21) EP20700208.0
(47) 26.07.2023
(87) EP2020050490
16.07.2020
(22) 10.01.2020
(54) PREPARATION OF 5-ARYL
PENTANOLS

(73) BASF SE	(31) 15176315	(73) Salk Institute for Biological Studies
(72) BRUNNER, Bernhard	(32) 10.07.2015	(72) KEANA, John F.W.
DE WISPELAERE, Irene	(33) European Patent Office (EPO)	SUH, Jae, Myoung
KRAUSE, Wolfgang	(51) C07C 53/10	YU, Ruth, T.
PELZER, Ralf	C07C 53/08	DOWNES, Michael
STOCK, Christoph	C07C 51/43	FANG, Sungsoon
(31) 19151386	A61K 47/12	BAIGA, Thomas, J.
(32) 11.01.2019	A61P 7/08	ATKINS, Annette
(33) European Patent Office (EPO)	(11) EP3533777	EVANS, Ronald, M.
(51) C07C 43/164	(21) EP17863627.0	(31) 201462061607 P
C11D 3/20	(47) 26.07.2023	201461952763 P
C07C 69/22	(87) JP2017007248	(32) 08.10.2014
C07C 69/157	03.05.2018	13.03.2014
A61Q 19/00	(22) 24.02.2017	(33) United States of America
A61K 8/33	(54) HIGHER-ORDER ACETATE	United States of America
C11D 3/50	COMPOUND, AND SOLID DIALYSIS	(51) C07C 267/00
C07C 49/76	AGENT USING SAME	C07D 229/00
C07C 69/24	(73) Tomita Pharmaceutical Co., Ltd.	C07C 263/18
C07C 69/74	(72) KIKUIISHI, Junya	C08G 18/10
A61Q 13/00	YOSHIMOTO, Yusuke	(11) EP3699169
(11) EP3978469	(31) 2016212312	(21) EP18867976.5
(21) EP20200020.4	(32) 28.10.2016	(47) 26.07.2023
(47) 26.07.2023	(33) Japan	(87) CN2018098253
(22) 05.10.2020	(51) C07C 55/28	25.04.2019
(54) 1-ALKOXYETHYL-3-ISOBUTYL-	C08K 5/12	(22) 02.08.2018
BENZENE AND 1-CARBOXYETHYL-3-	(11) EP3747860	(54) LIGHT COLOR MODIFIED
ISOBUTYL-BENZENE AS AROMA	(21) EP20176235.8	ISOCYANATE MIXTURE AND
INGREDIENTS	(47) 26.07.2023	PREPARATION METHOD THEREFOR
(73) BASF SE	(22) 25.05.2020	(73) Wanhua Chemical Group Co., Ltd.
(72) SIEGEL, Wolfgang	(54) NOVEL CYCLOHEXANONE BASED	(72) LIU, Xiaogao
BRU ROIG, Miriam	PLASTICISERS	ZHOU, Ye
PELZER, Ralf	(73) BASF SE	ZHANG, Hongke
WEINGARTEN, Melanie	(72) PFEIFFER, Matthias	NIU, Guiying
(51) C07C 45/29	GRIMM, Axel	XIA, Yilu
C07C 49/407	MISSKE, Andrea	WANG, Huihui
(11) EP3730475	KASCHEL, Johannes	WANG, Wenbo
(21) EP19170770.2	KALLER, Martin	LIU, Xueting
(47) 26.07.2023	MORGENSTERN, Herbert	(31) 201710981296
(22) 24.04.2019	HAREMZA, Sylke	(32) 20.10.2017
(54) METHOD FOR PREPARING L-	(31) 19178158	(33) China
MENTHONE	(32) 04.06.2019	(51) C07C 273/04
(73) BASF SE	(33) European Patent Office (EPO)	(11) EP3999489
(72) RIEDEL, Dominic	(51) C07C 229/44	(21) EP20730307.4
HEYDRICH, Gunnar	C07D 231/56	(47) 26.07.2023
RENZ, Stephanie	C07D 235/06	(87) EP2020065970
RUEDENAUER, Stefan	C07D 263/56	21.01.2021
SCHELWIES, Mathias	C07D 265/36	(22) 09.06.2020
TELES, Joaquim Henrique	C07D 275/04	(54) A PROCESS FOR THE SYNTHESIS OF
GARLICH, Florian	C07D 277/64	UREA
PACIELLO, Rocco	C07D 279/16	(73) CASALE SA
THRUN, Frauke	C07D 309/30	(72) MARRONE, Leonardo
(51) C07C 51/44	C07D 319/18	BERTINI, Paolo
C07C 59/185	C07D 339/08	(31) 19186881
B01D 1/00	A61K 31/16	(32) 18.07.2019
B01D 3/00	A61K 31/21	(33) European Patent Office (EPO)
B01D 1/26	A61K 31/33	(51) C07D 207/09
(11) EP3319934	A61P 1/04	C07C 233/65
(21) EP16738400.7	A61P 1/16	C07D 211/26
(47) 26.07.2023	A61P 29/00	C07D 231/56
(87) EP2016066250	A61P 31/00	A61K 31/44
19.01.2017	(11) EP3116851	A61P 31/12
(22) 08.07.2016	(21) EP15760948.8	C07C 237/30
(54) PROCESS FOR THE ISOLATION OF	(47) 26.07.2023	C07C 237/32
LEVULINIC ACID	(87) US2015020552	C07C 237/42
(73) GFBiochemicals IP Assets B.V.	17.09.2015	(11) EP3990429
(72) RIJKE, DE, Aris	(22) 13.03.2015	(21) EP20734217.1
SANTORO, Donato	(54) ANALOGS OF FEXARAMINE AND	(47) 26.07.2023
PARTON, Rudy Francois Maria Jozef	METHODS OF MAKING AND USING	(87) EP2020067939

30.12.2020	A61P 1/04	11.02.2021
(22) 25.06.2020	A61P 3/10	(22) 04.08.2020
(54) TERTIARY AMINE DERIVATIVES AND THEIR USES FOR TREATING A VIRAL INFECTION	A61P 29/00	(54) CRYSTALLINE FORM A AND CRYSTALLINE FORM B OF PYRAZINE-2(1H)-KETONE COMPOUND AND PREPARATION METHOD THEREOF
(73) ENYO Pharma	(11) EP3350165	(73) Zhangzhou Pien Tze Huang Pharmaceutical Co., Ltd.
(72) COUSIN, David	(21) EP16847452.6	(72) FU, Zhifei
MACHIN, Peter	(47) 26.07.2023	CHEN, Zhiliang
MELDRUM, Eric	(87) US2016052270	ZHANG, Yang
DE CHASSEY, Benoît	23.03.2017	YU, Juan
(31) 19305858	(22) 16.09.2016	HONG, Fei
(32) 26.06.2019	(54) FARNESOID X RECEPTOR AGONISTS AND USES THEREOF	LI, Jian
(33) European Patent Office (EPO)	(73) Organovo, Inc.	YIN, Tingting
(51) C07D 207/38	(72) GOVEK, Steven P.	ZHUANG, Yichao
C07D 207/44	NAGASAWA, Johnny Y.	CHEN, Shuhui
(11) EP3877363	SMITH, Nicholas D.	LUO, Miaorong
(21) EP19791251.2	(31) 201562219430 P	(31) 201911059460
(47) 26.07.2023	(32) 16.09.2015	201910731663
(87) EP2019078948	(33) United States of America	(32) 01.11.2019
14.05.2020	(51) C07D 233/84	08.08.2019
(22) 23.10.2019	A61P 1/00	(33) China
(54) PROCESS FOR THE SYNTHESIS OF LACTAMS	A61P 11/00	(51) C07D 249/12
(73) Unilever IP Holdings B.V.	A61K 31/4178	A01N 43/00
(72) THORNTHWAITE, David, William	(11) EP3666760	A01N 43/653
PARRY, Neil, James	(21) EP19210282.0	(11) EP4065564
KOTSAKIS, Panagiotis	(47) 26.07.2023	(21) EP20808161.2
DAWKINS, David, Anthony	(22) 20.11.2019	(47) 26.07.2023
(31) 18205110	(54) 5-THIOISTIDINE COMPOUNDS AND METHYLATED DERIVATIVES (OVOTHIOLS) AS INHIBITORS OF GAMMA-GLUTAMYL- TRANSPEPTIDASE (GGT) ACTIVITY	(87) EP2020083167
(32) 08.11.2018	(73) Stazione Zoologica "Anton Dohrn"	03.06.2021
(33) European Patent Office (EPO)	(72) D ARGENIO, Giuseppe	(22) 24.11.2020
(51) C07D 211/62	CASTELLANO, Immacolata	(54) [(1,5-DIPHENYL-1H-1,2,4-TRIAZOL-3- YL) OXY] ACETIC ACID DERIVATIVES AND SALTS THEREOF, USEFUL OR CULTIVATING AGENTS CONTAINING THEM, METHOD FOR THE PRODUCTION THEREOF AND THEIR USE AS SAFENERS
C07B 53/00	PALUMBO, Anna	(73) Bayer Aktiengesellschaft
C07D 401/10	(31) 201800010907	(72) MOSRIN, Marc
(11) EP3578545	(32) 10.12.2018	MÜLLER, Thomas
(21) EP18747316.0	(33) Italy	REINGRUBER, Anna, Maria
(47) 26.07.2023	(51) C07D 235/22	ROSINGER, Christopher, Hugh
(87) JP2018002878	(11) EP3572405	HELMKE, Hendrik
09.08.2018	(21) EP19185319.1	DITTMEN, Jan
(22) 30.01.2018	(47) 26.07.2023	(31) 19211511
(54) METHOD FOR PRODUCING OPTICALLY ACTIVE PYRROLIDINE COMPOUNDS	(22) 14.09.2015	(32) 26.11.2019
(73) Mitsubishi Tanabe Pharma Corporation	(54) BENZOIMIDAZOL-1,2-YL AMIDES AS KV7 CHANNEL ACTIVATORS	(33) European Patent Office (EPO)
(72) YAMAGAMI, Takafumi	(73) Knopp Biosciences LLC	(51) C07D 271/06
YAMAGUCHI, Tetsuo	(72) RESNICK, Lynn	C07D 401/12
TESHIMA, Takao	MARESKA, David A.	C07D 403/12
ANDO, Junki	BELARDI, Justin K.	C07D 413/12
(31) 2017014999	FLENTGE, Charles A.	C07D 419/12
(32) 31.01.2017	HARRIED, Scott S.	A01N 43/82
(33) Japan	BOYD, Steven A.	(11) EP3953341
(51) C07D 213/80	TOPALOV, George T	(21) EP20726533.1
C07D 333/32	HALE, James S.	(47) 26.07.2023
C07D 239/34	ZHANG, Kai	(87) IB2020053297
C07D 241/18	(31) 201462050023 P	15.10.2020
C07D 263/32	(32) 12.09.2014	(22) 07.04.2020
C07D 205/04	(33) United States of America	(54) NOVEL OXADIAZOLE COMPOUNDS FOR CONTROLLING OR PREVENTING PHYTOPATHOGENIC FUNGI
C07D 207/12	(51) C07D 241/02	(73) PI Industries Ltd.
C07D 277/34	C07D 241/20	(72) KULKARNI, Shantanu Ganesh
C07D 211/46	A61K 31/4965	
C07C 237/42	A61P 35/00	
C07C 233/63	C07D 403/14	
C07C 271/20	A61K 31/497	
A61K 31/167	(11) EP4011866	
A61K 31/216	(21) EP20849905.3	
A61K 31/381	(47) 26.07.2023	
A61K 31/397	(87) CN2020106885	
A61K 31/40		

RATHORE, Karan	C07D 405/12	(31) 201562201546 P
PAWAR, Rajesh	C07D 401/04	(32) 05.08.2015
BELKAR, Yogesh Kashiram	C07D 237/28	(33) United States of America
BHUJADE, Paras Raybhan	A61K 31/381	(51) C07D 401/14
NAIK, Maruti N	A61K 31/47	C07D 403/14
KLAUSENER, Alexander G.M.	A61K 31/5377	C07B 59/00
GADE, Vishwanath	A61P 1/16	A61P 35/00
GARG, Ruchi	C07D 215/20	A61K 31/53
AUTKAR, Santosh Shridhar	(11) EP3719010	A61K 31/444
(31) 201911014149	(21) EP18884390.8	A61P 35/02
(32) 08.04.2019	(47) 26.07.2023	(11) EP3365336
(33) India	(87) CN2018115615	(21) EP16857961.3
(51) C07D 277/62	06.06.2019	(47) 26.07.2023
A61K 31/428	(22) 15.11.2018	(87) US2016052130
A61P 19/06	(54) AROMATIC COMPOUND,	27.04.2017
(11) EP3617199	PHARMACEUTICAL COMPOSITION	(22) 16.09.2016
(21) EP18791567.3	THEREOF AND USE THEREOF	(54) DEUTERATED COMPOUNDS
(47) 26.07.2023	(73) Sichuan Kelun-Biotech	FOR TREATING HEMATOLOGIC
(87) JP2018017128	Biopharmaceutical Co., Ltd.	MALIGNANCIES, AND COMPOSITIONS
01.11.2018	(72) ZHU, Jiawang	AND METHODS THEREOF
(22) 27.04.2018	WANG, Jingyi	(73) Neufarm Pharmaceuticals, Inc.
(54) CRYSTAL FORM AND SALT	LONG, Dong	(72) HUANG, Chaoran
OF 3-(3,5-DICHLORO-4-	SONG, Zhiquan	CHENG, Changfu
HYDROXYBENZOYL)-1,1-DIOXO-2,3-	WANG, Lichun	(31) 201562244267 P
DIHYDRO-1,3-BENZOTHAIAZOLE	(31) 201711234731	(32) 21.10.2015
(73) Fuji Yakuhin Co., Ltd.	(32) 30.11.2017	(33) United States of America
(72) KOBASHI, Seiichi	(33) China	(51) C07D 403/12
HASEGAWA, Misa	(51) C07D 401/00	C07D 405/14
UDA, Junichiro	C07D 401/14	C07B 59/00
(31) 2017099334	A61K 31/519	C07D 401/12
(32) 28.04.2017	A61K 31/551	C07D 407/12
(33) Japan	A61K 31/444	C07D 413/12
(51) C07D 309/14	A61K 31/5377	C07D 417/12
C07D 493/10	A61K 31/5513	C07D 417/14
A61K 31/517	A61P 25/00	C07D 471/04
A61K 31/337	C07D 471/04	C07D 475/04
A61K 39/395	C07D 487/04	C07D 487/04
A61P 35/00	C07D 519/00	C07D 495/04
(11) EP3515492	(11) EP3644996	C07D 498/04
(21) EP17853991.2	(21) EP18825111.0	C07D 513/04
(47) 26.07.2023	(47) 26.07.2023	A61K 31/506
(87) US2017052967	(87) US2018039775	A61K 31/496
29.03.2018	03.01.2019	A61K 31/497
(22) 22.09.2017	(22) 27.06.2018	A61K 31/501
(54) ANTI-CANCER AGENTS AND	(54) METHODS FOR TREATING	(11) EP3419972
PREPARATION THEREOF	HUNTINGTON'S DISEASE	(21) EP17707012.5
(73) Purdue Research Foundation	(73) PTC Therapeutics, Inc.	(47) 26.07.2023
(72) Ghosh, Arun K.	(72) WOLL, Matthew G.	(87) EP2017054280
(31) 201662398783 P	BHATTACHARYYA, Anuradha	31.08.2017
(32) 23.09.2016	SYDORENKO, Nadiya	(22) 24.02.2017
(33) United States of America	JANI, Minakshi B.	(54) GLYCOSIDASE INHIBITORS
(51) C07D 319/12	(31) 201762525812 P	(73) Asceneuron SA
(11) EP3514148	(32) 28.06.2017	(72) GIRI, Awadut Gajendra
(21) EP19155661.2	(33) United States of America	KULKARNI, Santosh, S.
(47) 26.07.2023	(51) C07D 401/04	QUATTROPANI, Anna
(22) 17.09.2010	C07D 401/14	(31) 201621006643
(54) LACYLATE SYNTHESIS METHODS	(11) EP3331866	(32) 25.02.2016
USING DILACTIDES	(21) EP16751449.6	(33) India
(73) Caravan Ingredients Inc.	(47) 26.07.2023	(51) C07D 411/12
(72) Walsh, Margaret	(87) US2016045553	C07D 411/14
Botts, Jeff	09.02.2017	C07D 413/12
(31) 88292110	(22) 04.08.2016	C07D 413/14
(32) 15.09.2010	(54) METHODS OF PREPARING A 6-	C07D 417/12
(33) United States of America	HETEROARYL-1,3,5-TRIAZINE-2,4-	C07D 417/14
(51) C07D 333/56	DIOL AND A 6-HETEROARYL-1,3,5-	A61P 3/10
C07D 215/14	TRIAZINE-2,4-DIAMINE	A61K 31/397
C07D 215/18	(73) Les Laboratoires Servier	A61K 31/454
C07D 215/227	(72) ZHANG, Shijie	A61K 31/501

A61K 31/506	26.12.2019	CJPYRIDIN-1-YL)AZETIDIN-1-
(11) EP3468967	(22) 29.05.2019	YLJMETHYLJMORPHOLIN-4-
(21) EP17809507.1	(54) TARTRATE OF SELECTIVE CDK9	YLJQUINOLINE-8-CARBONITRILE
(47) 26.07.2023	INHIBITOR AND CRYSTAL FORM	DERIVATIVES AND SIMILAR
(87) CA2017050703	THEREOF	COMPOUNDS AS TLR7-9
14.12.2017	(73) Changzhou Le Sun Pharmaceuticals Ltd.	ANTAGONISTS FOR TREATING
(22) 08.06.2017	Changzhou Qianhong Biopharma Co.,	SYSTEMIC LUPUS ERYTHEMATOSUS
(54) COMPOUNDS CONTAINING	Ltd	(73) F. Hoffmann-La Roche AG
BENZO[D][1,3]OXATHIOLE, BENZO[D]	(72) JIANG, Liquan	(72) WANG, Xiaoqing
[1,3]OXATHIOLE 3-OXIDE OR	LV, Jinchun	LIU, Haixia
BENZO[D][1,3]OXATHIOLE 3,3-DIOXIDE	JU, Wenjian	DEY, Fabian
AND METHODS/USES THEREOF AS	WANG, Hui	ZHU, Wei
AGONISTS OF G PROTEIN-COUPLED	WANG, Shudong	SHEN, Hong
RECEPTOR 119	(31) 201810637484	(31) PCT/CN2018/114856
(73) Pramana Pharmaceuticals Inc.	(32) 20.06.2018	(32) 09.11.2018
(72) GEZENTSVEY, Yury	(33) China	(33) World Intellectual Property Office (WIPO)
YUDIN, Mikhail	(51) C07D 417/14	(51) C07D 471/04
NIKITIN, Aleksandr	A61K 31/5377	C07D 471/14
MANSOUR, Tarek Suhayl	A61P 31/14	(11) EP3256470
CHAFEEV, Mikhail	A61P 31/20	(21) EP15825649.5
(31) 201662348122 P	A61P 31/16	(47) 26.07.2023
201662348120 P	A61P 31/18	(87) US2015000274
(32) 09.06.2016	A61P 31/22	30.06.2016
09.06.2016	A61P 31/00	(22) 23.12.2015
(33) United States of America	(11) EP3766880	(54) METHODS TO INDUCE TARGETED
United States of America	(21) EP19804104.8	PROTEIN DEGRADATION THROUGH
(51) C07D 413/04	(47) 26.07.2023	BIFUNCTIONAL MOLECULES
(11) EP3604299	(87) CN2019085641	(73) Dana-Farber Cancer Institute, Inc.
(21) EP19194756.3	21.11.2019	(72) BRADNER, James
(47) 26.07.2023	(22) 06.05.2019	BUCKLEY, Dennis
(22) 12.12.2012	(54) SOLID FORM OF	WINTER, Georg
(54) CHEMICAL COMPOUND USEFUL AS	DIHYDROPYRIMIDINE COMPOUND	(31) 201562189502 P
INTERMEDIATE FOR PREPARING A	AND PREPARATION METHOD	201562159048 P
CATECHOL-0-METHYL TRANSFERASE	THEREFOR AND USE THEREOF	201562149170 P
INHIBITOR	(73) Sichuan Kelun-Biotech	201562128457 P
(73) Bial-Portela & CA, S.A.	Biopharmaceutical Co., Ltd.	201462096318 P
(72) WAHNON, Jorge Bruno Reis	(72) HU, Hao	(32) 07.07.2015
RIETER, Klaus	CHEN, Xing	08.05.2015
SCHLUMMER, Bjoern	YANG, Chengxi	17.04.2015
RUSSO, Domenico	CAI, Jiaqiang	04.03.2015
ESZENYI, Tibor	WANG, Jingyi	23.12.2014
ZIMMERMANN, Axel	LIU, Wei	(33) United States of America
KISS, Laszlo Erno	WANG, Lichun	United States of America
KREIS, Michael	TIAN, Qiang	United States of America
LEARMONTH, David Alexander	LI, Youqiang	United States of America
(31) 201201758	SONG, Shuai	United States of America
201121413	WANG, Tianming	(51) C07D 471/04
201261718589 P	HAN, Weibiao	C07D 487/04
201261593625 P	ZHANG, Baolei	C12N 5/071
201161570141 P	(31) 201810468685	A61K 35/39
(32) 01.02.2012	(32) 16.05.2018	A61K 35/545
13.12.2011	(33) China	A61P 3/10
25.10.2012	(51) C07D 471/04	(11) EP3741757
01.02.2012	A61K 31/437	(21) EP19741238.0
13.12.2011	A61K 31/4709	(47) 26.07.2023
(33) United Kingdom	A61K 31/5377	(87) JP2019001364
United Kingdom	A61K 31/397	25.07.2019
United States of America	A61K 31/4545	(22) 18.01.2019
United States of America	A61P 37/02	(54) DIHYDROINDOLIZINONE DERIVATIVE
United States of America	A61P 37/06	(73) Daiichi Sankyo Company, Limited
(51) C07D 417/04	(11) EP3877388	(72) KIHU Toshihiro
A61K 31/506	(21) EP19805549.3	TANAKA Taisaku
A61P 35/00	(47) 26.07.2023	YANO Tatsuya
A61P 35/02	(87) EP2019080454	KOMORIYA Satoshi
(11) EP3812385	14.05.2020	(31) 2018006269
(21) EP19822766.2	(22) 07.11.2019	(32) 18.01.2018
(47) 26.07.2023	(54) 5-[6-[[3-(4,5,6,7-	(33) Japan
(87) CN2019088991	TETRAHYDROPIRAZOLO[4,3-	(51) C07D 487/04

A61K 31/5025	LIU, Yafei	(47) 26.07.2023
A61K 31/519	ZHU, Wei	(87) KR2019014164
A61P 31/12	DAI, Lue	04.06.2020
A61P 31/14	KOU, Buyu	(22) 25.10.2019
A61P 31/16	(31) PCT/CN2020/078225	(54) SALT AND CRYSTALLINE FORM OF
(11) EP3864017	PCT/CN2019/121598	FUOPYRIMIDINE COMPOUND AND
(21) EP19759312.2	PCT/CN2019/081900	PHARMACEUTICAL USE THEREOF
(47) 26.07.2023	(32) 06.03.2020	(73) TiumBio Co., Ltd.
(87) EP2019072220	28.11.2019	(72) LEE, Minhee
16.04.2020	09.04.2019	KIM, Seon-Mi
(22) 20.08.2019	(33) World Intellectual Property Office (WIPO)	KIM, Hun-Taek
(54) 2,6-DIMETHYL-N-((PYRIDIN-4- YL)METHYL)IMIDAZO[1,2- B]PYRIDAZIN-8-AMINE AND 2,5-DIMETHYL-N-[(PYRIDIN-4- YL)METHYL]PYRAZOLO[1,5- A]PYRIMIDIN-7-AMINE DERIVATIVES FOR TREATING VIRAL INFECTIONS	World Intellectual Property Office (WIPO)	(31) 20180151990
(73) CUROVIR AB	World Intellectual Property Office (WIPO)	(32) 30.11.2018
(72) WESTMAN, Jacob	(51) C07D 491/048	(33) Korea (Republic)
(31) 18199486	A61K 31/4355	(51) C07D 495/14
(32) 10.10.2018	A61K 31/444	A61P 25/28
(33) European Patent Office (EPO)	A61K 31/501	A61P 25/20
(51) C07D 487/04	A61K 31/506	A61P 29/00
A61K 31/53	A61P 1/10	A61K 31/519
A61P 35/00	(11) EP3643718	(11) EP3558309
(11) EP3925960	(21) EP18819596.0	(21) EP17867920.5
(21) EP20755136.7	(47) 26.07.2023	(47) 26.07.2023
(47) 26.07.2023	(87) JP2018023357	(87) US2017060324
(87) CN2020075322	27.12.2018	11.05.2018
20.08.2020	(22) 19.06.2018	(22) 07.11.2017
(22) 14.02.2020	(54) HETEROCYCLIC COMPOUND AND ITS USE AS POSITIVE ALLOSTERIC MODULATOR OF THE CHOLINERGIC MUSCARINIC M1 RECEPTOR.	(54) POSITIVE ALLOSTERIC MODULATORS OF THE MUSCARINIC ACETYLCHOLINE RECEPTOR M4
(54) FGFR INHIBITOR COMPOUND IN SOLID FORM AND PREPARATION METHOD THEREFOR	(73) Takeda Pharmaceutical Company Limited	(73) Vanderbilt University
(73) CSPC Zhongqi Pharmaceutical Technology (Shijiazhuang) Co., Ltd.	(72) TSUKIMI, Yasuhiro	(72) SPEARING, Paul
(72) FU, Zhifei	SUZUKI, Hideo	CONN, P.Jeffrey
LI, Jian	WAKABAYASHI, Takeshi	ENGERS, Darren W.
SUN, Jikui	SHIMOKAWA, Kenichiro	CAPSTICK, Rory
CHEN, Shuhui	SATO, Ayumu	BOLLINGER, Katrina A.
LUO, Miaorong	FUJIMORI, Ikuo	LINDSLEY, Craig W.
ZHANG, Yang	OGINO, Masaki	BOLLINGER, Sean R.
(31) 201910117530	SWANN, Steve	(31) 201662418663 P
(32) 15.02.2019	OHASHI, Tomoko	(32) 07.11.2016
(33) China	ANDO, Haruhi	(33) United States of America
(51) C07D 487/04	MURAKAMI, Masataka	(51) C07F 7/08
C07D 519/00	OHASHI, Tomohiro	C07F 7/18
A61P 37/00	SASAKI, Shinobu	C07F 17/00
A61K 31/4985	OKAWA, Tomohiro	B01J 31/02
(11) EP3953356	YONEMORI, Jinichi	B01J 31/22
(21) EP20717841.9	YAMADA, Masami	C08G 77/12
(47) 26.07.2023	IMAEDA, Toshihiro	C08G 77/18
(87) EP2020059831	MAEZAKI, Hironobu	C08L 83/04
15.10.2020	ASANO, Yasutomi	(11) EP3966218
(22) 07.04.2020	FUSHIMI, Makoto	(21) EP19723405.7
(54) HEXAHYDRO-1H-PYRAZINO[1,2- A]PYRAZINE COMPOUNDS FOR THE TREATMENT OF AUTOIMMUNE DISEASE	TAKAMI, Kazuaki	(47) 26.07.2023
(73) F. Hoffmann-La Roche AG	SETO, Masaki	(87) EP2019062023
(72) DEY, Fabian	(31) 2018005960	19.11.2020
ZHU, Linuo	2017120859	(22) 10.05.2019
SHEN, Hong	2018626834 18 P	(54) PREPARATION OF SILOXANES IN THE PRESENCE OF CATIONIC GERMANIUM (II) COMPOUNDS
LIU, Haixia	(32) 17.01.2018	(73) Wacker Chemie AG
LIU, Yongfu	20.06.2017	(72) WEIDNER, Richard
ZHANG, Zhisen	11.06.2018	FRITZ-LANGHALS, Elke
ZHANG, Zhiwei	(33) Japan	(51) C07F 7/28
	Japan	C07C 37/66
	United States of America	C07C 303/22
	(51) C07D 491/20	H01M 8/18
	A61K 31/519	(11) EP3490938
	A61K 31/527	(21) EP16910776.0
	A61P 5/24	(47) 26.07.2023
	(11) EP3889157	(87) US2016049303
	(21) EP19889945.2	01.02.2018

(22) 29.08.2016	A61K 31/58	(21) EP17921352.5
(54) PROCESSES FOR FORMING TITANIUM CATECHOL COMPLEXES	A61P 31/18	(47) 26.07.2023
(73) Lockheed Martin Energy, LLC	(11) EP3831839	(87) US2017046086
(72) MILLARD, Matthew	(21) EP21152161.2	14.02.2019
(31) 201615220322	(47) 26.07.2023	(22) 09.08.2017
(32) 26.07.2016	(22) 02.02.2017	(54) DISINTEGRIN VARIANTS AND USES THEREOF
(33) United States of America	(54) C-3 AND C-17 MODIFIED TRITERPENOIDS AS HIV-1 INHIBITORS	(73) DCB-USA LLC
(51) C07F 9/50	(73) ViiV Healthcare UK (No.5) Limited	National Cheng Kung University
C07B 37/04	(72) SWIDORSKI, Jacob	National Taiwan University
C07F 15/00	DICKER, Ira, B.	(72) KUO, Yu-Ju
B01J 31/22	CHEN, Yan	HUANG, Tur-Fu
B01J 31/24	HARTZ, Richard A	CHUANG, Woei-Jer
(11) EP3377221	CHEN, Jie	(51) C07K 14/47
(21) EP16861036.8	MEANWELL, Nicholas A	(11) EP3668891
(47) 26.07.2023	SIN, Ny	(21) EP18756412.5
(87) US2016059698	REGUEIRO-REN, Alicia	(47) 26.07.2023
04.05.2017	SIT, Sing-Yuen	(87) EP2018072184
(22) 31.10.2016	VENABLES, Brian Lee	21.02.2019
(54) A METHOD OF CROSS-COUPLING USING A TRANSITION METAL COMPLEX COMPRISING A PAD3 LIGAND	(31) 201662291298 P	(22) 16.08.2018
(73) The Trustees of Princeton University	(32) 04.02.2016	(54) VTFT ISOFORM OF A BPIFB4 PROTEIN FOR USE IN NEURONAL DISEASES AND INJURIES
(72) CHEN, Liye	(33) United States of America	(73) LGV1 S.R.L.
CARROW, Brad P.	(51) C07K 7/06	(72) PUCA, Annibale Alessandro
(31) 201562248056 P	C07K 7/08	(31) 17186528
(32) 29.10.2015	C12M 1/00	(32) 16.08.2017
(33) United States of America	C12M 1/12	(33) European Patent Office (EPO)
(51) C07F 9/6574	(11) EP3967703	(51) C07K 14/56
(11) EP3848379	(21) EP20823384.1	C12P 21/02
(21) EP20827989.3	(47) 26.07.2023	C07K 14/245
(47) 26.07.2023	(87) JP2020022559	(11) EP3210997
(87) CN2020087929	17.12.2020	(21) EP17165102.9
22.04.2021	(22) 08.06.2020	(47) 26.07.2023
(22) 30.04.2020	(54) CYCLIC PEPTIDE, CELL SCAFFOLD MATERIAL, CELL SEPARATION MATERIAL AND CULTURE MEDIUM	(22) 22.10.2012
(54) PREPARATION METHOD FOR BISPHENOL PHOSPHATE HYDROXYL ALUMINUM SALT NUCLEATING AGENT	(73) FUJIFILM Corporation	(54) AGENTS AND METHODS FOR THE EXPRESSION AND SECRETION OF PEPTIDES AND PROTEINS
(73) SHANXI INSTITUTE OF CHEMICAL INDUSTRY (LTD.)	(72) MINAMI, Koichi	(73) NUMAFERM GmbH
(72) Wang, Jing	(31) 2019108953	(72) SCHMITT, Lutz
Liu, Fengyu	(32) 11.06.2019	SMITS, Sander Hendrikus Joannes
Zhang, Hongyu	(33) Japan	SCHWARZ, Christian
Wang, Kezhi	(51) C07K 14/415	(31) 11186225
Lu, Chaoyang	C12N 15/82	(32) 21.10.2011
Wang, Kai	C12Q 1/6895	(33) European Patent Office (EPO)
Wang, Chen	(11) EP3502127	(51) C07K 14/705
Zhang, Jianjun	(21) EP18197964.2	C07K 14/82
Li, Shaoyang	(47) 26.07.2023	C07K 14/47
Wang, Ran	(22) 01.10.2014	C07K 14/725
Cui, Kai	(54) TRANSGENIC CORN EVENT MON87403 AND METHODS FOR DETECTION THEREOF	C12N 9/12
Li, Xiangyang	(73) Monsanto Technology LLC	C07K 16/28
Gong, Yi long	(72) SANT, Anagha M.	(11) EP3730515
Lin, Fuha	ADAMS, Thomas R.	(21) EP20166352.3
Zhang, Huifang	KORTE, John A.	(47) 26.07.2023
Mao, Chenxi	TAYLOR, J. Philip	(22) 11.02.2016
Zhong, Yanwen	(31) 201361888978 P	(54) A FULLY-HUMAN T CELL RECEPTOR SPECIFIC FOR THE 369-377 EPI TOPE DERIVED FROM THE HER2/NEU (ERBB2) RECEPTOR PROTEIN
Dai, Yanqin	(32) 09.10.2013	(73) The Trustees of the University of Pennsylvania
Li, Xungang	(33) United States of America	(72) POWELL, Daniel J. Jr.
Zhang, Mi	(51) C07K 14/46	(31) 201562116864 P
(31) 201910983521	C07K 14/745	(32) 16.02.2015
(32) 16.10.2019	C07K 7/04	(33) United States of America
(33) China	C12N 9/64	(51) C07K 14/725
(51) C07J 63/00	A61K 45/06	A61K 31/505
C12N 9/50	A61K 38/00	(11) EP3959235
A61K 31/575	A61P 7/00	
A61K 31/56	C07K 7/06	
	(11) EP3665190	

(21) EP20728258.3	(22) 28.05.2015	A61K 39/395
(47) 26.07.2023	(54) CONTROLLING THE FORMATION	A61P 25/28
(87) US2020029775	OF DISULFIDE BONDS IN PROTEIN	C07K 16/18
29.10.2020	SOLUTIONS BY ADDING REDUCING	A61K 39/00
(22) 24.04.2020	AGENTS	(11) EP3533467
(54) RITUXIMAB-RESISTANT CHIMERIC	(73) Genzyme Corporation	(21) EP19150184.0
ANTIGEN RECEPTORS AND USES	(72) BROWER, Kevin, P.	(47) 26.07.2023
THEREOF	HWANG, Christopher	(22) 08.10.2010
(73) Allogene Therapeutics, Inc.	KONSTANTINOV, Konstantin	(54) METHODS AND COMPOSITIONS
(72) LEONARD, Mark W.	YU, Marcella	FOR INCREASING IDURONATE 2-
SASU, Barbra Johnson	YIN, Jin	SULFATASE ACTIVITY IN THE CNS
PERTEL, Thomas Charles	KODURI, Rao	(73) Armagen, Inc.
(31) 202063005041 P	WARIKOO, Veena	(72) PARDRIDGE, William M.
201962839455 P	(31) 201514668820	BOADO, Ruben J.
(32) 03.04.2020	201462004175 P	(31) 25604909 P
26.04.2019	(32) 25.03.2015	25037809 P
(33) United States of America	28.05.2014	(32) 29.10.2009
United States of America	(33) United States of America	09.10.2009
(51) C07K 14/725	United States of America	(33) United States of America
A61K 38/17	(51) C07K 16/28	United States of America
(11) EP3529267	A61K 39/395	(51) C07K 16/28
(21) EP17800571.6	(11) EP3344655	A61K 39/395
(47) 26.07.2023	(21) EP16763663.8	G01N 33/574
(87) GB2017053167	(47) 26.07.2023	(11) EP3719039
26.04.2018	(87) US2016049558	(21) EP20156129.7
(22) 19.10.2017	09.03.2017	(47) 26.07.2023
(54) T CELL RECEPTOR	(22) 31.08.2016	(22) 10.11.2016
(73) UCL Business Ltd	(54) USE OF ANTI-CD40 ANTIBODIES FOR	(54) BINDING MOLECULES SPECIFIC FOR
(72) MOHAMMED, Fiyaz	TREATMENT OF LUPUS NEPHRITIS	ASCT2 AND USES THEREOF
THOMAS, Sharyn	(73) Boehringer Ingelheim International	(73) MedImmune, LLC
WILLCOX, Ben	GmbH	(72) MICHELOTTI, Emil, F.
STAUSS, Hans	(72) NABOZNY, Gerald Henry	PORE, Nabendu
(31) 201617714	FREEMAN, Thomas B.	CHANG, Chien-Ying
(32) 19.10.2016	STEFFGEN, Juergen	BORROK, III, Martin, J.,
(33) United Kingdom	SCHOLL, Paul	CHOWDHURY, Partha
(51) C07K 14/725	BRODEUR, Scott Ronald	TICE, David, A.
C12N 5/0783	RAMANUJAM, Meera	HOLLINGSWORTH, Robert, E.
(11) EP3271384	(31) 201662287587 P	(31) 201562253774 P
(21) EP16719507.2	201562257336 P	201562253371 P
(47) 26.07.2023	201562212810 P	(32) 11.11.2015
(87) IB2016051510	(32) 27.01.2016	10.11.2015
22.09.2016	19.11.2015	(33) United States of America
(22) 17.03.2016	01.09.2015	United States of America
(54) GENIC SEQUENCE ENCODING A TCR	(33) United States of America	(51) C07K 16/28
SPECIFIC FOR THE HUMAN MHC	United States of America	A61K 47/68
CLASS I COMPLEX SPECIFIC FOR	United States of America	A61K 39/395
THE HLA-AO2 COMPLEX AND THE	(51) C07K 16/28	A61P 37/02
PEPTIDE HTERT865-873, AS WELL	A61K 39/395	A61P 35/00
AS ITS USE IN THE ENGINEERING	A61K 47/00	A61P 19/02
OF T LYMPHOCYTES FOR POSSIBILE	(11) EP3408295	(11) EP3514177
CLINICAL APPLICATIONS OF	(21) EP17702801.6	(21) EP17850229.0
ADOPTIVE TRANSFER	(47) 26.07.2023	(47) 26.07.2023
(73) Università Degli Studi Di Verona	(87) EP2017051486	(87) CN2017101082
(72) BOBISSE, Sara	03.08.2017	22.03.2018
UGEL, Stefano	(22) 25.01.2017	(22) 08.09.2017
BRONTE, Vincenzo	(54) PHARMACEUTICAL COMPOSITION	(54) ANTIBODY SPECIFICALLY BINDING
SANDRI, Sara	COMPRISING BISPECIFIC ANTIBODY	TO PD-1 AND FUNCTIONAL
(31) PD20150062	CONSTRUCTS	FRAGMENT THEREOF
(32) 19.03.2015	(73) Amgen Inc.	(73) Beijing Hanmi Pharm. Co., Ltd.
(33) Italy	Amgen Research (Munich) GmbH	(72) YANG, Yaping
(51) C07K 16/00	(72) THANGARAJ, Balakumar	ZHANG, Hongjuan
C07K 1/113	POMPE, Cornelius	LIU, Jiawang
C08F 8/00	KANAPURAM, Sekhar	SONG, Nanmeng
(11) EP3149033	LATYPOV, Ramil	JIN, Mengxie
(21) EP15728997.6	(31) 201662286552 P	(31) 201610827099
(47) 26.07.2023	(32) 25.01.2016	(32) 14.09.2016
(87) US2015033048	(33) United States of America	(33) China
03.12.2015	(51) C07K 16/28	(51) C07K 16/28

A61P 11/00	(33) United States of America	22.08.2017
(11) EP3575321	(51) C07K 16/32	22.08.2017
(21) EP18214738.9	A61K 39/395	22.08.2017
(47) 26.07.2023	G01N 33/574	22.08.2017
(22) 07.11.2011	A61K 39/00	22.08.2017
(54) CXCR2 BINDING POLYPEPTIDES	A61P 43/00	(33) China
(73) Ablynx N.V.	(11) EP3444279	China
(72) DOMBRECHT, Bruno	(21) EP17782617.9	China
VAN HEEKE, Gino	(47) 26.07.2023	China
BRADLEY, Michelle	(87) KR2017003827	China
CHARLTON, Steven John	19.10.2017	China
CROMIE, Karen	(22) 12.04.2017	(51) C08F 2/00
STEFFENSEN, Soren	(54) ANTIBODY HAVING IMPROVED	C08F 210/16
BROWN, Zarin	STABILITY AND SPECIFICALLY	C08L 23/08
(31) 41108310 P	BINDING TO HER2	C08F 4/659
(32) 08.11.2010	(73) AbClon Inc.	(11) EP4056599
(33) United States of America	(72) HWANG, In Sik	(21) EP21161497.9
(51) C07K 16/28	LEE, Jong Seo	(47) 26.07.2023
A61P 35/00	LEE, Young Ha	(22) 09.03.2021
A61K 47/68	KIM, Kyu Tae	(54) POLYETHYLENE COMPOSITION FOR
A61P 31/04	KO,Bong Kook	A FILM LAYER
C07H 21/04	(31) 20160044747	(73) Borealis AG
A61K 39/00	(32) 12.04.2016	(72) BERGER, Friedrich
(11) EP3620470	(33) Korea (Republic)	WANG, Jingbo
(21) EP19201975.0	(51) C08B 16/00	AHO, Jani
(47) 26.07.2023	D01F 2/06	(51) C08F 2/38
(22) 13.10.2014	(11) EP3789406	C08F 2/40
(54) TEM8 ANTIBODIES AND THEIR USE	(21) EP20197206.4	C08F 210/02
(73) The United States of America, as	(47) 26.07.2023	C08F 236/06
represented by The Secretary,	(22) 16.10.2017	(11) EP3387024
Department of Health and Human	(54) RECYCLING OF CELLULOSIC	(21) EP16809754.1
Services	TEXTILES	(47) 26.07.2023
Biomed Valley Discoveries, Inc.	(73) Re:NewCell AB	(87) EP2016080064
(72) ZUDAIRE, Enrique	(72) HENRIKSSON, Gunnar	15.06.2017
SAHA, Saurabh	LINDGREN, Christofer	(22) 07.12.2016
ZHU, Zhongyu	LINDSTRÖM, Mikael	(54) MONOFUNCTIONAL OR TELECHELIC
DIMITROV, Dimiter	(31) 1651375	COPOLYMER OF 1,3-DIENE AND
ST. CROIX, Brad	(32) 19.10.2016	ETHYLENE OR ALPHA-MONOOLEFIN
DECRESCENZO, Gary	(33) Sweden	(73) Compagnie Générale des
ZHANG, Xiaoyan Michelle	(51) C08B 31/00	Etablissements Michelin
WELSCH, Dean	C08F 251/00	(72) MACQUERON, Benoît
(31) 201361889958 P	C09K 8/514	NORSIC, Sébastien
(32) 11.10.2013	C09K 8/516	THUILLIEZ, Julien
(33) United States of America	C08J 3/12	BOISSON, Christophe
(51) C07K 16/28	(11) EP3670540	D'AGOSTO, Franck
C07K 16/32	(21) EP18847661.8	(31) 1562012
C07K 16/46	(47) 26.07.2023	(32) 08.12.2015
A61K 39/00	(87) CN2018101771	(33) France
A61K 39/395	28.02.2019	(51) C08F 6/00
C12N 5/16	(22) 22.08.2018	C08F 6/28
C12P 21/04	(54) STARCH-CONTAINING MICROSPHERE	C08J 3/03
C12P 21/08	AND PREPARATION METHOD	(11) EP3700945
(11) EP3582806	THEREFOR AND APPLICATION	(21) EP18801086.2
(21) EP18754782.3	THEREOF	(47) 26.07.2023
(47) 26.07.2023	(73) Dalian Research Institute Of Petroleum	(87) US2018054794
(87) US2018018771	And Petrochemicals, Sinopec Corp.	02.05.2019
23.08.2018	China Petroleum & Chemical Corporation	(22) 08.10.2018
(22) 20.02.2018	(72) LIU, Quanjie	(54) MAKING LOW-SODIUM RESIN
(54) PROTEINS BINDING HER2, NKG2D	WANG, Chen	(73) DDP Specialty Electronic Materials US,
AND CD16	YIN, Zequn	LLC
(73) Dragonfly Therapeutics, Inc.	YANG, Chao	DDP Specialty Electronic Materials US 8,
(72) CHANG, Gregory, P.	(31) 201710720862	LLC
PRINZ, Bianca	201710720864	(72) ROHANNA, John C.
HANEY, William	201710720844	SHULTZ, Alfred K.
LUNDE, Bradley, M.	201710720851	TEGEN, Marvin H.
CHEUNG, Ann, F.	201710720863	(31) 201762576677 P
(31) 201762461146 P	201710720850	(32) 25.10.2017
(32) 20.02.2017	(32) 22.08.2017	(33) United States of America

(51) C08F 8/08	(31) 20180161089	(47) 26.07.2023
C08C 19/06	(32) 13.12.2018	(87) JP2020015719
C08K 5/14	(33) Korea (Republic)	15.10.2020
C08J 3/20	(51) C08F 214/22	(22) 07.04.2020
C08J 3/22	C08F 220/36	(54) COPOLYMER, DISPERSANT, AND
C08L 23/20	C08K 3/00	RESIN COMPOSITION
C08F 210/12	C08L 27/16	(73) Denka Company Limited
C08F 8/20	H01M 4/13	(72) TAKASAKI, Ippei
C08L 23/22	H01M 4/62	YAMASHITA, Yukihiko
C08L 23/28	C08F 8/32	IGARASHI Kazuyuki
C08L 9/00	C08F 259/08	KANAI, Tomoyuki
C08L 9/06	C08L 51/00	(31) 2019075793
C08L 15/00	(11) EP3760655	(32) 11.04.2019
(11) EP3390463	(21) EP18907517.9	(33) Japan
(21) EP16874200.5	(47) 26.07.2023	(51) C08F 236/22
(47) 26.07.2023	(87) JP2018040180	C08F 212/08
(87) CA2016051477	06.09.2019	C08F 236/04
22.06.2017	(22) 29.10.2018	C08F 297/04
(22) 14.12.2016	(54) VINYLIDENE FLUORIDE POLYMER,	C08F 8/04
(54) PROCESS FOR EPOXIDATION OF	BINDER COMPOSITION, ELECTRODE	(11) EP3564280
UNSATURATED POLYMER	MIXTURE, ELECTRODE, NON-	(21) EP17887500.1
(73) Arlanxeo Singapore Pte. Ltd.	AQUEOUS ELECTROLYTE	(47) 26.07.2023
(72) BINDER, Brianna	SECONDARY BATTERY, AND METHOD	(87) JP2017047395
ELLIOTT, Sarah	FOR PRODUCING ELECTRODE	05.07.2018
GUO, Sharon	MIXTURE	(22) 28.12.2017
DAVIDSON, Gregory J. E.	(73) Kureha Corporation	(54) COPOLYMER OF 1, 3, 7-OCTATRIENE
(31) 15200726	(72) AOKI, Kenta	AND STYRENE AND HYDRIDE
(32) 17.12.2015	KOBAYASHI, Shota	THEREOF
(33) European Patent Office (EPO)	ASHIDA, Kana	(73) Kuraray Co., Ltd.
(51) C08F 110/02	(31) 2018035821	(72) HORI, Takashi
C08F 4/655	(32) 28.02.2018	TSUJI, Tomoaki
C08F 2/14	(33) Japan	INUBUSHI, Yasutaka
(11) EP3201245	(51) C08F 214/26	SUNAGA, Shuichi
(21) EP15781307.2	H01B 3/44	(31) 2016257108
(47) 26.07.2023	H01B 7/02	(32) 28.12.2016
(87) EP2015072437	H01B 7/18	(33) Japan
07.04.2016	(11) EP3632939	(51) C08G 2/10
(22) 29.09.2015	(21) EP18810645.4	C07D 323/06
(54) PROCESS FOR POLYMERISING	(47) 26.07.2023	C08G 2/24
ULTRA-HIGH MOLECULAR WEIGHT	(87) JP2018020575	C08L 59/04
POLYETHYLENE	06.12.2018	(11) EP3020742
(73) Borealis AG	(22) 29.05.2018	(21) EP14823002.2
(72) FAGERSTOLT, Pernilla	(54) MODIFIED	(47) 26.07.2023
TUPE, Ravindra	POLYTETRAFLUOROETHYLENE AND	(87) JP2014067427
(31) 14187026	METHOD FOR PRODUCING SAME	15.01.2015
(32) 30.09.2014	(73) AGC Inc.	(22) 30.06.2014
(33) European Patent Office (EPO)	(72) KOSE Takehiro	(54) TRIOXANE COMPOSITION AND
(51) C08F 136/06	HIGUCHI Shinya	METHOD FOR STORING SAME
C08F 4/54	TAKAZAWA Masahiro	(73) Mitsubishi Gas Chemical Company, Inc.
(11) EP3778677	(31) 2017110318	(72) OKUI, Yumi
(21) EP19897334.9	(32) 02.06.2017	ITO, Akira
(47) 26.07.2023	(33) Japan	KOBAYASHI, Daisuke
(87) KR2019017737	(51) C08F 230/08	(31) 2013143759
18.06.2020	C08L 83/04	(32) 09.07.2013
(22) 13.12.2019	C08F 220/06	(33) Japan
(54) CATALYST COMPOSITION,	C08K 3/22	(51) C08G 18/75
METHOD OF PREPARING THE	C08F 220/28	C08G 18/79
COMPOSITION, METHOD OF	C08L 33/08	C08G 18/72
PREPARING CONJUGATED DIENE-	C08F 220/18	C08G 18/48
BASED POLYMER BY USING THE	C08L 83/10	C08G 18/10
COMPOSITION, AND CONJUGATED	C08G 77/14	C08G 18/32
DIENE-BASED POLYMER PREPARED	C08G 77/38	C08G 18/42
BY THE METHOD OF PREPARING THE	C08G 77/445	(11) EP3514189
POLYMER	C08L 33/10	(21) EP18152300.2
(73) LG CHEM, LTD.	H01L 23/373	(47) 26.07.2023
(72) KIM, Su Hwa	C08K 3/38	(22) 18.01.2018
OH, Kyoung Hwan	(11) EP3954719	(54) SOLVENT-FREE MULTICOMPONENT
BAE, Hyo Jin	(21) EP20787979.2	SYSTEM

(73) Evonik Operations GmbH	(11) EP3841149	(54) POLYMERIC NANOPARTICLES
(72) SAJITZ, Melanie	(21) EP19773886.7	USEFUL IN THERANOSTICS
NACKE, Christoph	(47) 26.07.2023	(73) The Governing Council of the University
HERDA, Silvia	(87) FR2019000137	of Toronto
LOMÖLDER, Rainer	27.02.2020	(72) SHALVIRI, Alireza
(51) C08G 61/10	(22) 20.08.2019	CAI, Ping
C08G 61/02	(54) METHOD FOR PRODUCING	WU, Xiao Yu
H10K 50/15	AROMATIC POLYETHERSULFONES	(31) 201261605995 P
H05B 33/10	CONTAINING ISOHEXIDE	(32) 02.03.2012
H10K 85/10	(73) Centre National de la Recherche	(33) United States of America
C09D 165/00	Scientifique (CNRS)	(51) C08J 5/04
(11) EP3789419	ROQUETTE FRERES	C08K 5/098
(21) EP19849171.4	UNIVERSITE CLAUDE BERNARD -	C08K 7/02
(47) 26.07.2023	LYON 1	C08L 101/00
(87) KR2019010358	(72) MERCIER, Régis	C08J 5/06
20.02.2020	DELAUNAY, Thierry	C08J 5/08
(22) 14.08.2019	DEGRAS, Sarah	C08J 5/10
(54) POLYMERS, USE THEREOF AS	JACQUEL, Nicolas	B29C 43/00
HOLE TRANSPORT MATERIAL, AND	(31) 1857545	B29C 43/02
ORGANIC ELECTRONIC DEVICES	(32) 20.08.2018	(11) EP3521346
COMPRISING SAME	(33) France	(21) EP17856089.2
(73) LG CHEM, LTD.	(51) C08G 77/442	(47) 26.07.2023
(72) KAWAMURA, Hisayuki	C08L 83/10	(87) JP2017034666
(31) 2018153123	(11) EP3240822	05.04.2018
(32) 16.08.2018	(21) EP15876053.8	(22) 26.09.2017
(33) Japan	(47) 26.07.2023	(54) RESIN COMPOSITION
(51) C08G 64/14	(87) US2015067396	(73) Daicel Polymer Ltd.
C08G 64/30	07.07.2016	(72) KOSAKA, Shigeyuki
(11) EP3864067	(22) 22.12.2015	(31) 2016193106
(21) EP19783125.8	(54) TERMINAL-FUNCTIONALIZED	(32) 30.09.2016
(47) 26.07.2023	POLYMER AND RELATED METHODS	(33) Japan
(87) IB2019057718	(73) Bridgestone Corporation	(51) C08J 5/18
16.04.2020	(72) YAN, Yuan-Yong	C08J 5/22
(22) 12.09.2019	(31) 201562134034 P	H01M 50/403
(54) METHOD FOR THE MANUFACTURE	201462098031 P	H01M 50/409
OF POLYCARBONATE	(32) 17.03.2015	H01M 50/446
(73) SABIC Global Technologies B.V.	30.12.2014	H01M 50/451
(72) VIC FERNANDEZ, Ignacio	(33) United States of America	H01M 50/46
(31) 18382731	United States of America	H01M 50/491
(32) 11.10.2018	(51) C08J 3/03	H01M 50/497
(33) European Patent Office (EPO)	(11) EP4127029	H01M 10/0525
(51) C08G 64/42	(21) EP21722529.1	H01M 4/134
C09D 169/00	(47) 26.07.2023	H01M 10/42
C08G 64/02	(87) GB2021050804	H01M 10/056
C08L 69/00	07.10.2021	H01M 10/052
(11) EP2608767	(22) 31.03.2021	(11) EP3551688
(21) EP11820762.0	(54) BIOPOLYMER PARTICLE	(21) EP17878273.6
(47) 26.07.2023	PREPARATION	(47) 26.07.2023
(87) US2011049460	(73) Naturbeads Ltd	(87) US2017065174
01.03.2012	(72) MATTIA, Davide	14.06.2018
(22) 26.08.2011	NAICKER, Lolan	(22) 07.12.2017
(54) POLYMER COMPOSITIONS AND	SCOTT, Janet Lesley	(54) MICROSTRUCTURED ION-
METHODS	(31) 202004824	CONDUCTING COMPOSITES AND
(73) SAUDI ARAMCO TECHNOLOGIES	(32) 01.04.2020	USES THEREOF
COMPANY	(33) United Kingdom	(73) Sepion Technologies, Inc.
(72) FARMER, Jay, J.	(51) C08J 3/14	The Regents of the University of
WELTER, Thomas, R.	A61K 47/36	California
KOPF, Peter	A61K 9/14	(72) HELMS, Brett Anthony
ALLEN, Scott, D.	C08F 251/00	FRISCHMANN, Peter David
HURWITZ, David	C08F 8/00	(31) 201662431300 P
(31) 201161474207 P	B82Y 5/00	(32) 07.12.2016
37752410 P	B82Y 40/00	(33) United States of America
(32) 11.04.2011	(11) EP2820070	(51) C08J 5/18
27.08.2010	(21) EP13754319.5	C08L 23/06
(33) United States of America	(47) 26.07.2023	H01M 50/409
United States of America	(87) CA2013000203	H01M 50/417
(51) C08G 65/40	06.09.2013	H01M 50/491
C08G 75/23	(22) 04.03.2013	C08J 9/26

C08J 9/28	C08L 23/16	COMPOSITIONS OBTAINABLE
H01M 50/494	C08L 23/08	THEREBY
(11) EP3816217	C08J 9/12	(73) New Born Rubber License B.V.
(21) EP19868147.0	B60N 2/70	(72) BROEKHUIS, Antonius Augustinus
(47) 26.07.2023	(11) EP3889210	PICCHIONI, Francesco
(87) JP2019031755	(21) EP19890354.4	(31) 16199584
10.09.2020	(47) 26.07.2023	(32) 18.11.2016
(22) 09.08.2019	(87) KR2019016651	(33) European Patent Office (EPO)
(54) POLYOLEFIN MICROPOROUS	04.06.2020	<hr/>
MEMBRANE	(22) 29.11.2019	(51) C08L 1/12
(73) ASAHI KASEI KABUSHIKI KAISHA	(54) FOAM COMPOSITION FOR VEHICLE	C08B 3/06
(72) SEKIGUCHI, Manabu	SEAT CUSHION, FOAM FOR	C08B 3/24
YAMASHITA, Akihisa	VEHICLE SEAT CUSHION, AND	(11) EP3862388
(31) 2019038419	MANUFACTURING METHOD	(21) EP19888249.0
(32) 04.03.2019	THEREFOR	(47) 26.07.2023
(33) Japan	(73) Lotte Chemical Corporation	(87) JP2019048167
<hr/>	(72) KWON, Yong Jin	17.06.2021
(51) C08J 5/18	EOM, Se Yeon	(22) 09.12.2019
C08L 29/04	LIM, Sung Hwan	(54) CELLULOSE ACETATE AND
C08K 3/36	(31) 20180152141	CELLULOSE ACETATE COMPOSITION
A41D 19/00	(32) 30.11.2018	(73) Daicel Corporation
B32B 27/08	(33) Korea (Republic)	(72) GA, Kyokutou
B32B 27/30	<hr/>	MATSUMURA, Hiroyuki
B32B 27/20	(51) C08J 9/36	KUSUMOTO, Masaaki
B32B 27/32	B29C 44/56	<hr/>
B32B 27/40	C08J 9/232	(51) C08L 5/10
(11) EP3271415	C08J 9/16	C08L 25/08
(21) EP16769249.0	C08J 9/14	(11) EP3872128
(47) 26.07.2023	C08J 9/12	(21) EP21170125.5
(87) US2016019134	C08J 9/00	(47) 26.07.2023
29.09.2016	B32B 5/18	(22) 09.03.2018
(22) 23.02.2016	B32B 5/24	(54) HYDROGEL MATERIAL
(54) SOLVENT RESISTANT COMPOSITE	B32B 7/08	(73) Leibniz-Institut für Polymerforschung
FILM	(11) EP3237510	Dresden e.V.
(73) Kimberly-Clark Worldwide, Inc.	(21) EP15813778.6	(72) SCHIRMER, Lucas
(72) STANKIEWICZ, Hubert	(47) 26.07.2023	ATALLAH, Passant
WIDEMAN, Gregory J.	(87) EP2015079808	FREUDENBERG, Uwe
DEMARCO, Alphonse	30.06.2016	WERNER, Carsten
(31) 201562136158 P	(22) 15.12.2015	(31) 102017105195
(32) 20.03.2015	(54) FIBRE-REINFORCED MOULDINGS	(32) 10.03.2017
(33) United States of America	MADE FROM EXPANDED PARTICLE	(33) Germany
<hr/>	FOAM	<hr/>
(51) C08J 9/00	(73) BASF SE	(51) C08L 7/00
C08J 9/12	(72) TERRENOIRE, Alexandre	B60C 1/00
C08J 9/16	ARBTER, Rene	(11) EP3988609
C08J 9/18	STEIN, Robert	(21) EP21206372.1
C08J 9/232	GUTMANN, Peter	(47) 26.07.2023
C08L 77/02	HEBETTE, Christophe Leon Marie	(22) 19.12.2019
C08L 77/08	STOLL, Ragnar	(54) VULCANIZED RUBBER COMPOSITION
(11) EP4031606	SAMPATH, Bangaru Dharmapuri	AND TIRE
(21) EP20767843.4	Sriramulu	(73) Sumitomo Rubber Industries, Ltd.
(47) 26.07.2023	RUCKDÄSCHEL, Holger	(72) FURUKAWA, Tsuyoshi
(87) EP2020075443	(31) 14199626	SAWAKI, Haruko
25.03.2021	(32) 22.12.2014	(31) 2019003605
(22) 11.09.2020	(33) European Patent Office (EPO)	(32) 11.01.2019
(54) HIGH CRYSTALLINITY POLYAMIDE	<hr/>	(33) Japan
FOAM PARTICLES AND FOAM	(51) C08J 11/10	<hr/>
MOLDINGS	C08C 19/08	(51) C08L 23/02
(73) BASF SE	C08J 11/12	B65D 1/00
(72) BIRLI, Rainer	C08J 11/28	C08G 69/26
QUEIROZ DA FONSECA, Isa, Alexandra	B29B 17/04	C08K 3/22
HOLSCHUH, Rene	C08L 19/00	C08L 23/26
SPIES, Patrick	(11) EP3541867	C08L 77/06
KELLER, Angelika	(21) EP17817244.1	B65D 1/02
LONGO-SCHEDEL, Daniela	(47) 26.07.2023	B65D 81/00
(31) 19197734	(87) NL2017050746	C08L 23/06
(32) 17.09.2019	24.05.2018	(11) EP3527618
(33) European Patent Office (EPO)	(22) 17.11.2017	(21) EP17860804.8
<hr/>	(54) METHOD FOR RECLAIMING	(47) 26.07.2023
(51) C08J 9/00	RUBBER, AND RENEWED RUBBER	(87) JP2017033748
C08L 23/10		19.04.2018
		(22) 19.09.2017

(54) POLYOLEFIN STRUCTURE	(87) EP2019081321	(47) 26.07.2023
(73) Mitsubishi Gas Chemical Company, Inc.	22.05.2020	(87) JP2020011498
(72) KOUNO, Kenji	(22) 14.11.2019	08.10.2020
KATO, Tomonori	(54) COMPOSITION	(22) 16.03.2020
(31) 2016202607	(73) Borealis AG	(54) VINYLIDENE-FLUORIDE-BASED
(32) 14.10.2016	(72) GAHLEITNER, Markus	POLYMER COMPOSITION OBTAINED
(33) Japan	LESKINEN, Pauli	USING NON-FLUORINATED
(51) C08L 23/08	WANG, Jingbo	SURFACTANT AND PRODUCTION
(11) EP4004106	BERNREITNER, Klaus	METHOD THEREFOR
(21) EP20754597.1	HOFF, Matthias	(73) Kureha Corporation
(47) 26.07.2023	(31) 18206441	(72) SUZUKI Yasuhiro
(87) US2020044200	(32) 15.11.2018	SHIKE Aya
04.02.2021	(33) European Patent Office (EPO)	NAGASAWA Yoshiyuki
(22) 30.07.2020	(51) C08L 23/16	(31) 2019068926
(54) LOW DENSITY POLYETHYLENE WITH	(11) EP3990540	(32) 29.03.2019
ENHANCED HOT TACK STRENGTH	(21) EP20746349.8	(33) Japan
AND ADHESION-TO-METAL BY THE	(47) 26.07.2023	(51) C08L 29/04
ADDITION OF IONOMERS	(87) US2020035067	B32B 27/30
(73) Dow Global Technologies LLC	30.12.2020	C08L 77/02
(72) MORRIS, Barry Alan	(22) 29.05.2020	C08L 77/06
DONG, Yifan	(54) REACTIVE ACRYLIC POLYOLEFIN	C08K 5/098
KARJALA, Teresa P.	BLENDS	(11) EP3540008
LEE, Jong Young	(73) Rohm and Haas Company	(21) EP17869723.1
KUPSCH, Eva-Maria	(72) WILLS, Morris	(47) 26.07.2023
(31) 201962880837 P	GUO, Hailan	(87) JP2017039890
(32) 31.07.2019	(31) 201962868029 P	17.05.2018
(33) United States of America	(32) 28.06.2019	(22) 06.11.2017
(51) C08L 23/10	(33) United States of America	(54) RESIN COMPOSITION AND
(11) EP3568437	(51) C08L 23/16	MULTILAYERED STRUCTURE USING
(21) EP18701584.7	(11) EP3971241	SAME
(47) 26.07.2023	(21) EP21175269.6	(73) Mitsubishi Chemical Corporation
(87) IB2018050156	(47) 26.07.2023	(72) HASHIMOTO Honoka
19.07.2018	(22) 21.05.2021	FURUKAWA Kazuya
(22) 10.01.2018	(54) RUBBER COMPOSITION FOR FUEL-	NAKANISHI Shinji
(54) LASER PLATABLE THERMOPLASTIC	CELL COOLING HOSE AND FUEL-	(31) 2016218500
COMPOSITIONS WITH A LASER	CELL COOLING HOSE USING SAME	(32) 09.11.2016
ACTIVATABLE METAL COMPOUND	(73) Kia Corporation	(33) Japan
AND SHAPED ARTICLES THEREFROM	Hyundai Motor Company	(51) C08L 29/04
(73) SHPP Global Technologies B.V.	(72) CHO, Yong Jun	C08F 8/00
(72) WANG, Jian	PARK, Jong Min	C08K 5/09
CHENG, Yunan	(31) 20200121134	B32B 27/30
SONG, Shijie	(32) 21.09.2020	C08K 3/38
(31) 201762444870 P	(33) Korea (Republic)	C08K 5/20
(32) 11.01.2017	(51) C08L 23/30	(11) EP3560994
(33) United States of America	C08L 23/04	(21) EP17882876.0
(51) C08L 23/14	(11) EP3574048	(47) 26.07.2023
(11) EP3357964	(21) EP18705750.0	(87) JP2017042811
(21) EP17154520.5	(47) 26.07.2023	28.06.2018
(47) 26.07.2023	(87) US2018015288	(22) 29.11.2017
(22) 03.02.2017	02.08.2018	(54) ETHYLENE VINYL ALCOHOL
(54) USE OF A POLYMER COMPOSITION	(22) 25.01.2018	COPOLYMER RESIN COMPOSITION,
FOR THE PRODUCTION OF ARTICLES	(54) PEROXIDE-MODIFIED	AND MULTILAYER STRUCTURE
WITH IMPROVED PAINTABILITY AND	POLYETHYLENE, COMPOSITIONS,	(73) Mitsubishi Chemical Corporation
SURFACE APPEARANCE	AND APPLICATIONS	(72) HASHIMOTO, Honoka
(73) Borealis AG	(73) Equistar Chemicals LP	INOUE, Kota
(72) Kniesel, Claudia	(72) FLENNIKEN, Cindy	SATO, Nobuaki
Kahlen, Susanne	LEE, Chun, D.	(31) 2017045645
Mileva, Daniela	HUNDLEY, Mick, C.	2017045644
Lummerstorfer, Thomas	(31) 201762451652 P	2017045643
Milorad, Bogdanovic	(32) 27.01.2017	2017045641
(51) C08L 23/14	(33) United States of America	2016246511
C08L 23/08	(51) C08L 27/16	2016246510
C08F 210/06	C08F 14/22	2016246509
C08F 210/08	C08L 71/02	2016246507
C08F 2/00	C08F 2/30	(32) 10.03.2017
(11) EP3880749	H01M 4/62	10.03.2017
(21) EP19801364.1	(11) EP3950827	10.03.2017
(47) 26.07.2023	(21) EP20784413.5	10.03.2017

20.12.2016	C08G 73/02	(47) 26.07.2023
20.12.2016	C08L 39/06	(87) CN2016080684
20.12.2016	C08L 79/00	02.11.2017
20.12.2016	C09D 5/02	(22) 29.04.2016
(33) Japan	C09D 5/24	(54) MULTILAYER COATING AND
Japan	C09D 139/06	PROCESS OF PREPARING THE
Japan	C09D 201/02	MULTILAYER COATING
Japan	H01B 1/20	(73) Dow Global Technologies, LLC
Japan	H01B 13/00	(72) RAVISANKER, Loganathan
Japan	C08L 65/00	LI, Wei
Japan	C09D 165/00	ZHANG, Liang
Japan	G03F 7/09	LI, Jian
(51) C08L 53/00	H01B 1/12	(51) C09D 9/00
C08L 23/12	(11) EP3581622	C11D 1/66
C08L 23/08	(21) EP18750780.1	C11D 3/20
C08L 23/16	(47) 26.07.2023	(11) EP3448939
C08K 3/34	(87) JP2018004188	(21) EP17736559.0
(11) EP3786229	16.08.2018	(47) 26.07.2023
(21) EP19792956.5	(22) 07.02.2018	(87) DE2017100343
(47) 26.07.2023	(54) CONDUCTIVE COMPOSITION,	02.11.2017
(87) JP2019017324	METHOD FOR PRODUCING	(22) 25.04.2017
31.10.2019	CONDUCTIVE COMPOSITION,	(54) LIQUID DETERGENT OR CLEANING
(22) 24.04.2019	AND METHOD FOR PRODUCING	COMPOSITION TO REMOVE PAINT
(54) PROPYLENE RESIN COMPOSITION	CONDUCTOR	DEPOSITS AND ITS USE
(73) NISSAN MOTOR CO., LTD.	(73) Mitsubishi Chemical Corporation	(73) Chemische Werke Kluthe GmbH
Prime Polymer Co., Ltd.	(72) YAMAZAKI Akira	(72) HARTZ, Stephan
(72) KINOUCI, Satoru	IRIE Yoshiko	BURGHARDT, Silvia Margareta
TOKUMO, Kazuaki	UZAWA Masashi	DINGES, Uwe
JOUDUKA, Takao	SAIKI Shinji	(31) 102016107727
INOUE, Shuichi	(31) 2017172284	(32) 26.04.2016
(31) 2018083086	2017022859	(33) Germany
(32) 24.04.2018	(32) 07.09.2017	(51) C09D 11/101
(33) Japan	10.02.2017	(11) EP3916059
(51) C08L 69/00	(33) Japan	(21) EP20176718.3
(11) EP3794073	Japan	(47) 26.07.2023
(21) EP19722648.3	(51) C09C 1/36	(22) 27.05.2020
(47) 26.07.2023	C09C 3/06	(54) INKJET INK FOR PRINTED CIRCUIT
(87) EP2019062220	D21H 17/69	BOARDS
21.11.2019	(11) EP3810698	(73) AGFA-GEVAERT NV
(22) 13.05.2019	(21) EP19823606.9	(72) SAUVAGEOT, Marion
(54) FILLED POLYCARBONATE	(47) 26.07.2023	LOCCUFIER, Johan
COMPOSITIONS WITH GOOD	(87) US2019037917	(51) C09D 11/38
SCRATCH RESISTANCE AND	26.12.2019	C09D 11/322
REDUCED YELLOWING	(22) 19.06.2019	C09D 11/54
(73) Covestro Intellectual Property GmbH &	(54) TREATED TITANIUM DIOXIDE	C09D 11/40
Co. KG	PIGMENT, PROCESS OF MAKING	(11) EP3543298
(72) HUNGERLAND, Tim	THEREOF AND USE THEREOF IN	(21) EP19164077.0
MEYER, Alexander	PAPER MANUFACTURE	(47) 26.07.2023
(31) 18172816	(73) Tronox LLC	(22) 20.03.2019
(32) 17.05.2018	(72) MCINTYRE, Robert	(54) PIGMENT PRINTING INK JET INK
(33) European Patent Office (EPO)	KERROD, Julie Elizabeth	COMPOSITION, INK SET FOR
(51) C08L 101/00	WEBBER, Ben	PIGMENT PRINTING, AND INK JET
C08L 67/02	BURNISTON, Neil	RECORDING METHOD
C08L 81/04	(31) 201862686840 P	(73) Seiko Epson Corporation
(11) EP3919569	201862686829 P	(72) CHIDATE, Kosuke
(21) EP20177705.9	(32) 19.06.2018	OHASHI, Masakazu
(47) 26.07.2023	19.06.2018	MIYABAYASHI, Toshiyuki
(22) 01.06.2020	(33) United States of America	(31) 2018052347
(54) THERMOPLASTIC COMPOSITIONS	United States of America	(32) 20.03.2018
INCLUDING NATURAL FIBER HAVING	(51) C09D 5/00	(33) Japan
GOOD MECHANICAL PROPERTIES	C09D 5/03	(51) C09D 11/40
AND GOOD DIELECTRIC PROPERTIES	C09D 133/14	C09D 11/101
(73) SHPP Global Technologies B.V.	C09D 133/22	C09D 11/324
(72) ZHENG, Yun	C08F 220/14	C09D 11/322
WANG, Jian	C08L 33/00	C09D 11/38
HE, Yunfei	C08L 21/00	B41J 2/01
(51) C08L 101/12	(11) EP3448929	B41M 5/00
C08F 26/10	(21) EP16899844.1	C08F 2/46

(11) EP3450515	F16B 2/00	A61L 15/58
(21) EP17789290.8	B32B 3/00	C08L 53/02
(47) 26.07.2023	F16B 11/00	(11) EP4007797
(87) JP2017015104	B32B 7/12	(21) EP20756932.8
02.11.2017	B32B 15/08	(47) 26.07.2023
(22) 13.04.2017	B32B 15/14	(87) FR2020051395
(54) ACTINIC-RAY-CURABLE INK SET FOR	B32B 15/18	11.02.2021
INK-JET RECORDING	(11) EP3584294	(22) 29.07.2020
(73) DIC Corporation	(21) EP18178439.8	(54) ELASTOMER COMPOSITION
(72) SAITO Naohito	(47) 26.07.2023	(73) URGO RECHERCHE INNOVATION ET
(31) 2016088014	(22) 19.06.2018	DEVELOPPEMENT
(32) 26.04.2016	(54) FRICTIONAL CONNECTION OF	(72) GUILLAMAUD, Christelle Marie Aline
(33) Japan	COMPONENTS AND PROCESS FOR	(31) 1908880
(51) C09D 133/00	MAKING A FRICTIONAL CONNECTION	(32) 02.08.2019
B05D 1/36	(73) 3M Innovative Properties Company	(33) France
B05D 5/06	(72) Grimm, Florian	(51) C09J 133/08
B05D 7/24	(51) C09J 5/06	C09J 7/38
C09D 5/02	C09J 5/04	C08F 2/24
C09D 7/40	C09J 201/08	C08F 220/18
C09D 161/28	A47K 13/30	C08F 220/06
C09D 133/06	B32B 9/00	C08F 218/08
(11) EP3587519	B32B 9/04	C08F 216/06
(21) EP18756728.4	B32B 15/082	C08F 212/08
(47) 26.07.2023	B32B 15/085	C08F 8/12
(87) JP2018005673	B32B 15/088	C09D 133/08
30.08.2018	B32B 15/09	(11) EP4006117
(22) 19.02.2018	B32B 15/18	(21) EP20871526.8
(54) WATER-BASED COATING	B32B 15/20	(47) 26.07.2023
COMPOSITION, AND MULTI-LAYER	B32B 27/08	(87) KR2020013387
COATING FILM	(11) EP3795356	08.04.2021
(73) Nippon Paint Automotive Coatings Co.,	(21) EP19804003.2	(22) 29.09.2020
Ltd.	(47) 26.07.2023	(54) ACRYLIC EMULSION PRESSURE-
(72) KONDO, Masaaki	(87) JP2019019757	SENSITIVE ADHESIVE COMPOSITION
MIKI, Mari	21.11.2019	(73) LG Chem, Ltd.
(31) 2017030335	(22) 17.05.2019	(72) SEO, Sungjong
(32) 21.02.2017	(54) METHOD FOR MANUFACTURING	CHO, Hyunju
(33) Japan	LAYERED ARTICLE, LAYERED	HAN, Hye Soo
(51) C09D 167/08	ARTICLE, AND HEATED TOILET SEAT	LEE, Kumhyoung
(11) EP3470482	DEVICE	YEO, Jungeun
(21) EP18199831.1	(73) National Institute for Materials Science	LEE, Seungmo
(47) 26.07.2023	(72) SHIGETOU, Akitsu	YANG, Seung Hun
(22) 11.10.2018	YANG, Hong Wei	PARK, Keu Yeun
(54) COATING COMPOSITION	(31) 2018096240	(31) 20190121183
(73) Jotun A/S	(32) 18.05.2018	(32) 30.09.2019
(72) LYSTVET, Sina Maria	(33) Japan	(33) Korea (Republic)
(31) 17196061	(51) C09J 105/00	(51) C09J 175/02
(32) 12.10.2017	C09J 105/06	(11) EP4074805
(33) European Patent Office (EPO)	C09J 189/00	(21) EP21168616.7
(51) C09D 183/06	C09J 189/06	(47) 26.07.2023
C09D 183/08	C09J 199/00	(22) 15.04.2021
C08G 77/14	C08L 97/02	(54) WOOD MATERIAL AND BINDER
C08G 77/16	(11) EP3353256	COMPOSITION AND METHOD FOR
C08G 77/18	(21) EP16781839.2	PRODUCING A WOOD MATERIAL
C08G 77/388	(47) 26.07.2023	(73) SWISS KRONO Tec AG
C09J 183/08	(87) FR2016052375	(72) Kalwa, Norbert
C08L 83/06	30.03.2017	(51) C09K 3/14
C08G 77/26	(22) 20.09.2016	C30B 29/38
(11) EP3660116	(54) ADHESIVE COMPOSITION	C01B 21/06
(21) EP18209567.9	COMPRISED A SILICATE ESTER	(11) EP3784747
(47) 26.07.2023	(73) Université Amiens Picardie Jules Verne	(21) EP19792274.3
(22) 30.11.2018	(72) HOUËSSOU, Koffi Justin	(47) 26.07.2023
(54) ENDCAPPED CURABLE	QUENEUDEC T'KINT, Michèle	(87) US2019029120
POLYORGANOSILOXANES	MONTRELAY, Nicolas	31.10.2019
(73) Henkel AG & Co. KGaA	(31) 1558855	(22) 25.04.2019
(72) Duracu, Adrian	(32) 21.09.2015	(54) CATALYST SOLVENTS FOR CARBON
Klein, Johann	(33) France	NITRIDE
Hémery, Thérèse	(51) C09J 123/22	(73) Montross, Charlie
(51) C09J 5/00	C08L 23/22	(72) Montross, Charlie

(31) 201815962869	(22) 15.12.2020	C10M 107/40
(32) 25.04.2018	(54) LIQUID CRYSTAL MEDIUM	C10M 107/48
(33) United States of America	(73) Merck Patent GmbH	C10M 107/50
(51) C09K 5/06	(72) Laut, Sven Christian	C09D 1/00
F28D 20/02	Bauer, Monika	C10N 20/00
(11) EP3943572	Deing, Kaja Christina	C10N 30/06
(21) EP19919789.8	Hofmeyer, Sebastian	C10N 40/06
(47) 26.07.2023	Weiss, Kristin	C10N 50/02
(87) JP2019035116	(31) 20186631	C10N 80/00
24.09.2020	19216877	(11) EP2872606
(22) 06.09.2019	(32) 20.07.2020	(21) EP13728350.3
(54) COLD-STORAGE MATERIAL	17.12.2019	(47) 26.07.2023
COMPOSITION	(33) European Patent Office (EPO)	(87) EP2013061435
(73) Panasonic Holdings Corporation	European Patent Office (EPO)	16.01.2014
(72) SUZUKI, Motohiro	(51) C10B 53/02	(22) 04.06.2013
MACHIDA, Hironobu	C10J 3/50	(54) ARTICLE HAVING A SURFACE
(31) 2019050570	C10J 3/66	COATED WITH AN EPILAMIZATION
2019050569	C10J 3/72	AGENT
(32) 19.03.2019	(11) EP3956420	(73) The Swatch Group Research and
19.03.2019	(21) EP20717697.5	Development Ltd.
(33) Japan	(47) 26.07.2023	(72) LETONDOR, Christophe
Japan	(87) EP2020060715	RICHARD, David
(51) C09K 5/10	22.10.2020	(31) 12175783
(11) EP3986974	(22) 16.04.2020	(32) 10.07.2012
(21) EP20732942.6	(54) METHOD FOR THE PREPARATION OF	(33) European Patent Office (EPO)
(47) 26.07.2023	CHARCOAL	(51) C10M 107/38
(87) EP2020067008	(73) SIOTUU GmbH	F28F 13/18
24.12.2020	(72) HUPFAUF, Benjamin	(11) EP3959295
(22) 18.06.2020	(31) 19169648	(21) EP20725313.9
(54) SILICATE BASED HEAT TRANSFER	(32) 16.04.2019	(47) 26.07.2023
FLUID, METHODS OF ITS	(33) European Patent Office (EPO)	(87) US2020029077
PREPARATIONS AND USES THEREOF	(51) C10G 45/00	29.10.2020
(73) Arteco NV	(11) EP3580313	(22) 21.04.2020
(72) LIEVENS, Serge	(21) EP18751860.0	(54) HEAT AND MASS TRANSFER
CLAEYS, Sandra	(47) 26.07.2023	COMPONENT COMPRISING A
(31) 19181336	(87) US2018017855	LUBRICANT-IMPREGNATED SURFACE
(32) 19.06.2019	16.08.2018	(73) The Board of Trustees of the University
(33) European Patent Office (EPO)	(22) 12.02.2018	of Illinois
(51) C09K 8/58	(54) PROCESS FOR REDUCING	(72) MILJKOVIC, Nenad
C11D 1/88	ENVIRONMENTAL CONTAMINATES IN	BOLTON, Leslie, W.
C11D 1/90	HEAVY MARINE FUEL OIL	SETT, Soumyadip
C09K 8/584	(73) Magema Technology, LLC	BARAC, George
C09K 8/94	(72) MOORE, Michael, J.	(31) 201962836848 P
E21B 43/12	KLUSSMANN, Bertrand, R.	(32) 22.04.2019
E21B 43/16	(31) 201762589479 P	(33) United States of America
A61Q 19/10	201762458002 P	(51) C11D 1/66
(11) EP2855623	(32) 21.11.2017	C08L 39/06
(21) EP13730127.1	12.02.2017	C11D 3/37
(47) 26.07.2023	(33) United States of America	C11D 11/00
(87) EP2013060427	United States of America	(11) EP3974504
28.11.2013	(51) C10L 7/04	(21) EP20199021.5
(22) 21.05.2013	(11) EP4004165	(47) 26.07.2023
(54) SURFACTANT COMPOSITION	(21) EP20785681.6	(22) 29.09.2020
(73) Energy Solutions (US) LLC	(47) 26.07.2023	(54) AUTOMATIC DISHWASHING
(72) JONES, Chris	(87) EP2020075527	CLEANING COMPOSITION
COLLINS, Gareth	18.03.2021	(73) The Procter & Gamble Company
HATCHMAN, Kevan	(22) 11.09.2020	(72) FULLER, Linsey Sarah
(31) 201209268	(54) METHOD FOR MAKING A FUEL	LUKIC, Nevena
(32) 25.05.2012	TABLET	VAN ELSSEN, Katrien Andrea Lieven
(33) United Kingdom	(73) University of Tartu	DELPLANCKE, Patrick Firmin August
(51) C09K 19/34	(72) KANGUR, Triin	(51) C11D 3/386
C09K 19/30	JÄRVEKÜLG, Martin	C11D 3/50
C09K 19/58	TIMUSK, Martin	C11D 17/06
C09K 19/12	(31) 201913244	(11) EP3426759
C09K 19/04	(32) 13.09.2019	(21) EP17711968.2
(11) EP3839008	(33) United Kingdom	(47) 26.07.2023
(21) EP20214034.9	(51) C10M 107/28	(87) US2017021318
(47) 26.07.2023	C10M 107/38	14.09.2017

(22) 08.03.2017	B01D 29/56	(72) SATO, Toshiro
(54) PARTICLES INCLUDING ENZYME	C12M 1/34	KATAYAMA, Kazuhiko
(73) The Procter & Gamble Company	C12M 3/00	(31) 2016163711
(72) VASQUEZ VALDIVIESO, Montserrat,	(11) EP3810747	(32) 24.08.2016
Guadalupe	(21) EP19731168.1	(33) Japan
LANT, Neil, Joseph	(47) 26.07.2023	
(31) 201615064184	(87) EP2019064747	(51) C12N 5/0783
(32) 08.03.2016	26.12.2019	A61K 35/17
(33) United States of America	(22) 06.06.2019	A61P 37/00
(51) C11D 11/00	(54) MODULAR PROCESSING SYSTEM	(11) EP3740569
C11D 1/29	AND METHOD FOR THE MODULAR	(21) EP19700530.9
C11D 3/04	CONSTRUCTION OF A PROCESSING	(47) 26.07.2023
C11D 3/10	SYSTEM	(87) EP2019051143
D06B 19/00	(73) Sartorius Stedim Biotech GmbH	25.07.2019
D06B 21/00	(72) LEUTHOLD, Martin	(22) 17.01.2019
D06B 3/32	WEISSHAAR, Stefan	(54) REGULATORY T CELL EXPRESSING A
C11D 3/386	(31) 102018004909	CHIMERIC ANTIGEN RECEPTOR
C11D 17/04	(32) 19.06.2018	(73) Charité Universitätsmedizin Berlin
(11) EP3830330	(33) Germany	Miltenyi Biotec B.V. & Co. KG
(21) EP19840347.9	(51) C12M 1/26	(72) NOWAK, Anna
(47) 26.07.2023	G01N 35/10	SCHEFFOLD, Alexander
(87) US2019040242	(11) EP3805359	LOCK, Dominik
30.01.2020	(21) EP19814438.8	KAISER, Andrew
(22) 02.07.2019	(47) 26.07.2023	(31) 18152631
(54) PROCESS OF LAUNDERING FABRICS	(87) JP2019017075	(32) 19.01.2018
USING A WATER-SOLUBLE UNIT	12.12.2019	(33) European Patent Office (EPO)
DOSE ARTICLE	(22) 22.04.2019	(51) C12N 5/0783
(73) The Procter & Gamble Company	(54) SAMPLE ANALYSIS SUPPORT	C12N 5/10
(72) DENOME, Frank, William	APPARATUS	A61K 35/12
SIVIK, Mark, Robert	(73) YOKOGAWA ELECTRIC	A61K 35/17
SOUTER, Philip, Frank	CORPORATION	C12N 15/85
(31) 201816047690	(72) KEI Takayuki	(11) EP3273976
(32) 27.07.2018	(31) 2018110548	(21) EP16773942.4
(33) United States of America	(32) 08.06.2018	(47) 26.07.2023
(51) C12G 1/02	(33) Japan	(87) US2016024554
C12G 1/032	(51) C12N 5/00	06.10.2016
B01F 33/40	C12N 5/02	(22) 28.03.2016
(11) EP3725868	A61K 35/28	(54) MODIFIED T CELLS AND METHODS
(21) EP19792896.3	A61P 29/00	OF MAKING AND USING THE SAME
(47) 26.07.2023	A61P 35/00	(73) President and Fellows of Harvard
(87) ES2019070321	(11) EP3201318	College
31.10.2019	(21) EP15847382.7	(72) MULUMBA, Kabungo, Y.
(22) 16.05.2019	(47) 26.07.2023	MEISSNER, Torsten, B.
(54) METHOD FOR PUMPING OVER	(87) US2015052029	COWAN, Chad A.
THE GRAPE HARVEST DURING	07.04.2016	FERREIRA, Leonardo, M., R.
MACERATION AND MEANS FOR	(22) 24.09.2015	(31) 201562139479 P
PUMPING OVER A GRAPE HARVEST	(54) INDUCTION MEDIUM AND METHODS	(32) 27.03.2015
(73) Productos Agrovín S.A.	FOR STEM CELL CULTURE AND	(33) United States of America
(72) INIESTA ORTIZ, Juan Alberto	THERAPY	(51) C12N 5/0793
MANZANERO FERNÁNDEZ, Irene	(73) SanBio, Inc.	(11) EP3792346
JURADO FUENTES, Ricardo	(72) BETANCOURT, Aline	(21) EP19197392.4
(31) 201830476	(31) 201414504399	(47) 26.07.2023
(32) 18.05.2018	(32) 01.10.2014	(22) 13.09.2019
(33) Spain	(33) United States of America	(54) METHOD FOR THE GENERATION
(51) C12H 1/07	(51) C12N 5/071	OF A CELL COMPOSITION OF
C12C 7/16	C12N 7/00	VENTRAL MIDBRAIN DOPAMINERGIC
C12C 13/10	C12N 15/09	PROGENITOR CELLS
(11) EP3708645	(11) EP3505620	(73) Miltenyi Biotec B.V. & Co. KG
(21) EP20163249.4	(21) EP17843522.8	(72) SMIYAKIN, Andrej
(47) 26.07.2023	(47) 26.07.2023	BOSIO, Andreas
(22) 16.03.2020	(87) JP2017029743	
(54) BREWING SYSTEM	01.03.2018	(51) C12N 5/10
(73) HUBL GmbH Edelstahltechnik	(22) 21.08.2017	C12N 7/02
(72) KIEFER, Rainer	(54) 2D ORGANOID FOR INFECTION AND	C12N 7/04
(31) 19162855	CULTURE OF HUMAN DIARRHEA	C12N 15/85
(32) 14.03.2019	VIRUS, AND USE OF SAID 2D	(11) EP3489353
(33) European Patent Office (EPO)	ORGANOID	(21) EP19151187.2
(51) C12M 1/00	(73) Keio University	(47) 26.07.2023
		(22) 21.11.2016

(54) STABLE CELL LINES FOR RETROVIRAL PRODUCTION	(33) United Kingdom	(47) 26.07.2023
(73) GlaxoSmithKline Intellectual Property Development Limited	(51) C12N 9/88	(22) 15.03.2013
(72) VINK, Conrad	C12P 13/04	(54) METHODS AND COMPOSITIONS FOR RNA-DIRECTED TARGET DNA MODIFICATION AND FOR RNA-DIRECTED MODULATION OF TRANSCRIPTION
VAMVA, Eirini	(11) EP3630795	(73) The Regents of the University of California
JOHNSON, Sabine	(21) EP18808808.2	University of Vienna
PALLANT, Celeste	(47) 26.07.2023	Charpentier, Emmanuelle
(31) 201609303	(87) CN2018086228	(72) DOUDNA CATE, James Harrison
201520761	06.12.2018	JINEK, Martin
(32) 26.05.2016	(22) 09.05.2018	DOUDNA, Jennifer A.
24.11.2015	(54) ENGINEERED ALDOLASE POLYPEPTIDES AND USES THEREOF	LIM, Wendell
(33) United Kingdom	(73) Enzymaster (Ningbo) Bio-Engineering Co., Ltd.	CHYLINSKI, Krzysztof
United Kingdom	(72) SHEN, Tianran	CHARPENTIER, Emmanuelle
(51) C12N 7/01	YANG, Jiadong	QI, Lei
C12N 15/40	JI, Yaoyao	(31) 201361765576 P
C07K 14/08	ZHOU, Ameng	201361757640 P
C07K 16/10	CAI, Baoqin	201261716256 P
G01N 33/68	ZHANG, Yingxin	201261652086 P
A61K 39/12	YANG, Zhuhong	(32) 15.02.2013
(11) EP3351628	CHEN, Haibin	28.01.2013
(21) EP18160105.5	BONG, Yong Koy	19.10.2012
(47) 26.07.2023	XU, Qing	25.05.2012
(22) 26.10.2009	(31) 201710405791	(33) United States of America
(54) HUMAN EBOLA VIRUS SPECIES AND COMPOSITIONS AND METHODS THEREOF	201710386955	United States of America
(73) The Government of The United States of America as represented by The Secretary, Department of Health and Human Services	(32) 27.05.2017	United States of America
(72) COMER, James, A.	27.05.2017	United States of America
TOWNER, Jonathan, S	(33) China	United States of America
KSIAZEK, Thomas, G	(51) C12N 15/09	
ROLLIN, Pierre, E.	A01H 5/00	(51) C12N 15/11
NICHOL, Stuart, T	A01H 5/10	C12N 15/10
(31) 108175 P	A01H 5/12	C12Q 1/68
(32) 24.10.2008	A01H 6/14	C12Q 1/6858
(33) United States of America	A23L 27/00	C12Q 1/6853
(51) C12N 9/10	A23L 33/105	(11) EP3283630
C12P 17/10	A61K 8/60	(21) EP15888914.7
(11) EP3464572	A61K 31/704	(47) 26.07.2023
(21) EP17724583.4	A61K 36/28	(87) CN2015081818
(47) 26.07.2023	A61K 47/26	20.10.2016
(87) EP2017062513	A61P 3/04	(22) 18.06.2015
30.11.2017	A61Q 13/00	(54) OLIGONUCLEOTIDE FRAGMENT, AND METHOD AS WELL AS APPLICATION OF SELECTIVE AMPLIFICATION OF VARIANT OF TARGET NUCLEIC ACID SEQUENCE USING THE SAME
(22) 24.05.2017	C12N 5/04	(73) Nuhigh Biotechnologies Co., Ltd
(54) VARIANTS OF ACETYL SEROTONIN O- METHYLTRANSFERASE AND USES THEREOF	(11) EP3569707	(72) BI, Wanli
(73) Danmarks Tekniske Universitet	(21) EP17886105.0	XU, Xin
(72) LUO, Hao	(47) 26.07.2023	WANG, Zhifeng
(31) 16171032	(87) JP2017046805	(31) 201510177952
(32) 24.05.2016	05.07.2018	(32) 15.04.2015
(33) European Patent Office (EPO)	(22) 26.12.2017	(33) China
(51) C12N 9/88	(54) HIGH REBAUDIOSIDE C-CONTENT STEVIA PLANT	
(11) EP3824081	(73) Suntory Holdings Limited	
(21) EP20727269.1	(72) HIRAI, Tadayoshi	(51) C12N 15/113
(47) 26.07.2023	ONO, Eiichiro	A61K 31/7125
(87) EP2020063988	MIYAGAWA, Katsuro	A61P 13/12
26.11.2020	IWAKI, Kazunari	(11) EP3620522
(22) 19.05.2020	(31) 2016253543	(21) EP19188663.9
(54) LINALOOL SYNTHASES	(32) 27.12.2016	(47) 26.07.2023
(73) C3 Biotechnologies Limited	(33) Japan	(22) 08.10.2013
(72) SCRUTTON, Nigel	(51) C12N 15/11	(54) METHODS FOR TREATMENT OF ALPORT SYNDROME
LEFERINK, Nicole	A61K 38/46	(73) Sanofi
(31) 201907088	C12N 15/90	(72) MACKENNA, Deidre
(32) 20.05.2019	C12N 15/10	BHAT, Balkrishen
	C12N 15/63	DUFFIELD, Jeremy
	C12N 9/22	(31) 201361779137 P
	(11) EP3597749	201261711514 P
	(21) EP19157590.1	

(32) 13.03.2013 09.10.2012	19.05.2015	(54) NOVEL GENE REGULATING VIRULENCE OF CRYPTOCOCCUS NEOFORMANS, AND USE THEREOF
(33) United States of America United States of America	(33) Germany Germany	(73) Amtixbio Co., Ltd.
(51) C12N 15/113	(51) C12N 15/82	(72) YANG, Dong-Hoon
C12N 15/86	C12Q 1/6895	BAHN, Yong-Sun
A61K 31/713	(11) EP3956455	JUNG, Kwang-Woo
A61K 48/00	(21) EP20719138.8	(31) 20150044617
A61P 9/00	(47) 26.07.2023	20150044621
A61P 9/10	(87) EP2020059807	(32) 30.03.2015
A61K 31/711	22.10.2020	30.03.2015
(11) EP3658157	(22) 06.04.2020	(33) Korea (Republic)
(21) EP18827388.2	(54) METHOD AND KIT FOR THE IDENTIFICATION OF VACCINIUM MYRTILLUS	Korea (Republic)
(47) 26.07.2023	(73) Indena S.p.A.	(51) C12Q 1/04
(87) US2018040913	(72) LONGO, Valeria	G01N 33/92
10.01.2019	BERLANDA, Davide	(11) EP3978617
(22) 05.07.2018	(31) 19169555	(21) EP20461564.5
(54) TREATMENT OF HEART DISEASE BY INHIBITION OF THE ACTION OF MUSCLE A-KINASE ANCHORING PROTEIN (MAKAP)	(32) 16.04.2019	(47) 26.07.2023
(73) Kapiloff, Michael S.	(33) European Patent Office (EPO)	(22) 30.09.2020
(72) Kapiloff, Michael S.	(51) C12N 15/85	(54) A METHOD FOR DETECTING PRESENCE OF MYCOBACTERIA SPECIES IN A TEST SAMPLE
(31) 201762529224 P	(11) EP3722433	(73) Centrum Medycyny Klinicznej Dimedical Sp. z o.o.
(32) 06.07.2017	(21) EP20173389.6	(72) KOWALSKI, Konrad
(33) United States of America	(47) 26.07.2023	SZEWCZYK, Rafal
(51) C12N 15/70	(22) 14.10.2015	DRUSZCZYNSKA, Magdalena
(11) EP4060032	(54) PROMOTER AND REGULATORY ELEMENTS FOR IMPROVED EXPRESSION OF HETEROLOGOUS GENES IN HOST CELLS	MAJEWSKI, Karol
(21) EP21870554.9	(73) Amgen Inc.	(51) C12Q 1/68
(47) 26.07.2023	(72) STEVENS, Jennitte LeAnn	C12P 19/34
(87) KR2021004515	LI, Chi-Ming Kevin	C12Q 1/6853
04.08.2022	DARIS, Mark	C12Q 1/6869
(22) 09.04.2021	GE, Huanying	(11) EP3574109
(54) NOVEL SPERMIDINE SYNTHASE VARIANT, AND METHOD FOR PRODUCING L-VALINE USING SAME	(31) 201462064335 P	(21) EP18744669.5
(73) CJ Cheiljedang Corporation	(32) 15.10.2014	(47) 26.07.2023
(72) KIM, Hyo Jin	(33) United States of America	(87) US2018014598
YOON, Byoung Hoon	(51) C12P 7/625	02.08.2018
PARK, Goun	C12N 9/18	(22) 21.01.2018
BAE, Jee Yeon	(11) EP2910641	(54) METHODS FOR CONSTRUCTING COPIES OF NUCLEIC ACID MOLECULES
KIM, Seon Hye	(21) EP13848540.4	(73) Vastogen, Inc.
KIM, Hyung Joon	(47) 26.07.2023	(72) TSAVACHIDOU Dimitra
(31) 20210011012	(87) JP2013078520	(31) 201762576992 P
(32) 26.01.2021	01.05.2014	201762576974 P
(33) Korea (Republic)	(22) 22.10.2013	201762516263 P
(51) C12N 15/82	(54) HIGH MOLECULAR WEIGHT PHA- PRODUCING MICROBE AND METHOD OF PRODUCING HIGH MOLECULAR WEIGHT PHA USING SAME	201762506706 P
C12N 15/113	(73) Kaneka Corporation	201762473700 P
A01H 5/00	(72) ARIKAWA, Hisashi	201762451734 P
(11) EP3298148	MATSUMOTO, Keiji	201762450070 P
(21) EP16724394.8	SATO, Shunsuke	(32) 25.10.2017
(47) 26.07.2023	(31) 2012232695	25.10.2017
(87) EP2016061237	2012232694	07.06.2017
24.11.2016	(32) 22.10.2012	16.05.2017
(22) 19.05.2016	22.10.2012	20.03.2017
(54) METHOD AND HYBRIDS FOR TARGETED NUCLEIC ACID EDITING IN PLANTS	(33) Japan	29.01.2017
(73) KWS SAAT SE & Co. KGaA	Japan	24.01.2017
(72) NIESSEN, Markus	(51) C12Q 1/02	(33) United States of America
JONGEDIJK, Erik	C12Q 1/68	United States of America
HARLING, Hinrich	C12Q 1/6895	United States of America
MARTIN-ORTIGOSA, Susana	(11) EP3739058	United States of America
SCHUMANN, Nadine	(21) EP20177048.4	United States of America
STREITNER, Corinna	(47) 26.07.2023	United States of America
(31) 102015014252	(22) 30.03.2016	(51) C12Q 1/6804
102015006335		C12N 15/10
(32) 05.11.2015		(11) EP4077713
		(21) EP20829359.7

(47) 26.07.2023	C12Q 1/6818	(21) EP19190743.5
(87) IB2020062053 24.06.2021	(11) EP3668999	(47) 26.07.2023
(22) 16.12.2020	(21) EP18773818.2	(22) 27.05.2015
(54) METHOD AND KIT FOR WHOLE GENOME AMPLIFICATION AND ANALYSIS OF TARGET MOLECULES IN A BIOLOGICAL SAMPLE	(47) 26.07.2023	(54) CHROMOSOME REPRESENTATION DETERMINATIONS
(73) Menarini Silicon Biosystems S.p.A.	(87) GB2018052360 21.02.2019	(73) Sequenom, Inc.
(72) RASPADORI, Andrea FERRARINI, Alberto MANARESI, Nicolò	(22) 20.08.2018	(72) DECIU, Cosmin ZHAO, Chen
(31) 201900024159	(54) METHODS AND KITS FOR DETECTION OF NUCLEIC ACID MOLECULES	(31) 201462005811 P
(32) 16.12.2019	(73) LGC Genomics Limited	(32) 30.05.2014
(33) Italy	(72) HOWARD, Rebecca Louise	(33) United States of America
(51) C12Q 1/6816	(31) 201713251	(51) C12Q 1/6883
(11) EP3402745	(32) 18.08.2017	(11) EP3715472
(21) EP16880152.0	(33) United Kingdom	(21) EP19164820.3
(47) 26.07.2023	(51) C12Q 1/6844	(47) 26.07.2023
(87) US2016068547 29.06.2017	C12Q 1/682	(22) 25.03.2019
(22) 23.12.2016	(11) EP3574115	(54) PHOSPHATE AND TENSIN HOMOLOG (PTEN) FOR THE DETECTION OF AUTOIMMUNE DISEASES OR CONDITIONS
(54) NANO-SENSORS FOR NUCLEIC ACID DETECTION AND DISCRIMINATION	(21) EP18702529.1	(73) Universitätsmedizin der Johannes Gutenberg-Universität Mainz
(73) The Regents of the University of California	(47) 26.07.2023	(72) ABEL, Janine
(72) MECKES, Brian HWANG, Michael, Taeyoung LAL, Ratneshwar GLINSKIL, Gennadi, V. LEE, Joon RAMACHANDRAN, Srinivasan LONDON, Preston, Boone MO, Alexander	(87) GB2018050207 02.08.2018	(51) C12Q 1/6886
(31) 201662379549 P 201662333064 P 201562387460 P	(22) 25.01.2018	(11) EP3348652
(32) 25.08.2016 06.05.2016 23.12.2015	(54) ISOTHERMAL EXPONENTIAL AMPLIFICATION METHOD FOR NUCLEIC ACID DETECTION	(21) EP18158356.8
(33) United States of America United States of America United States of America	(73) Sense Biodetection Limited	(47) 26.07.2023
(51) C12Q 1/6841 A61K 39/00 G01N 33/53 G01N 33/574 C12Q 1/6886	(72) LLOYD, David LAMBLE, Henry John EGAN, Christopher	(22) 09.05.2012
(11) EP3719143	(31) 201701262	(54) MOLECULAR MARKERS IN PROSTATE CANCER
(21) EP20172727.8	(32) 25.01.2017	(73) MDxHealth Research B.V.
(47) 26.07.2023	(33) United Kingdom	(72) Smit, Franciscus Petrus
(22) 21.10.2016	(51) C12Q 1/6858	(31) PCT/EP2011/057716
(54) METHOD OF DERIVING A VALUE FOR PERCENT BIOMARKER POSITIVITY FOR SELECTED CELLS PRESENT IN A FIELD OF VIEW	(11) EP3670671	(32) 12.05.2011
(73) Novartis AG	(21) EP20155860.8	(33) World Intellectual Property Office (WIPO)
(72) KIM, Ju Young BORDEAUX, Jennifer DAKAPPAGARI, Naveen TRAN, Thai	(47) 26.07.2023	(51) C12Q 1/6886 C12Q 1/6806
(31) 201662301035 P 201562245853 P	(22) 16.09.2016	(11) EP3768864
(32) 29.02.2016 23.10.2015	(54) PROBE SET FOR ANALYZING A DNA SAMPLE AND METHOD FOR USING THE SAME	(21) EP19716643.2
(33) United States of America United States of America	(73) Vanadis Diagnostics	(47) 26.07.2023
(51) C12Q 1/6844	(72) ROOS, Fredrik DAHL, Carl Oscar Fredrik ERICSSON, Olof John KARLSSON, Filip	(87) US2019023731 26.09.2019
(11) EP3719143	(31) 201562220746 P	(22) 22.03.2019
(21) EP20172727.8	(32) 18.09.2015	(54) IMMUNE REPERTOIRE MONITORING
(47) 26.07.2023	(33) United States of America	(73) Life Technologies Corporation
(22) 21.10.2016	(51) C12Q 1/6858	(72) LOONEY, Timothy
(54) METHOD OF DERIVING A VALUE FOR PERCENT BIOMARKER POSITIVITY FOR SELECTED CELLS PRESENT IN A FIELD OF VIEW	(11) EP2488668	(31) 201862681734 P 201862647566 P
(73) Novartis AG	(21) EP10824211.6	(32) 07.06.2018
(72) KIM, Ju Young BORDEAUX, Jennifer DAKAPPAGARI, Naveen TRAN, Thai	(47) 26.07.2023	(23.03.2018
(31) 201662301035 P 201562245853 P	(87) US2010052935 21.04.2011	(33) United States of America United States of America
(32) 29.02.2016 23.10.2015	(22) 15.10.2010	(51) C12Q 1/6886 G16B 25/00 G16B 20/20 G16B 20/30 G16B 25/10 G16B 40/20
(33) United States of America United States of America	(54) NOVEL HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS	(11) EP2971164
(51) C12Q 1/6844	(73) Life Technologies Corporation	(21) EP14770813.5
(11) EP3719143	(72) MULERO, Julio MALICDEM, Michael LAGACE, Robert	(47) 26.07.2023
(21) EP20172727.8	(31) 252141 P	(87) US2014026411 25.09.2014
(47) 26.07.2023	(32) 15.10.2009	(22) 13.03.2014
(22) 21.10.2016	(33) United States of America	(54) METHODS AND COMPOSITIONS FOR CLASSIFICATION OF SAMPLES
(54) METHOD OF DERIVING A VALUE FOR PERCENT BIOMARKER POSITIVITY FOR SELECTED CELLS PRESENT IN A FIELD OF VIEW	(51) C12Q 1/6869 C12Q 1/6827	(73) Veracyte, Inc.
(73) Novartis AG	(11) EP3598452	(72) BARBACIORU, Catalin

CHUDOVA, Darya	B23K 20/24	(22) 16.10.2019
PAGAN, Moraima	C21D 9/14	(54) STEEL MATERIAL AND METHOD FOR
WILDE, Jonathan, I.	C21D 1/42	PRODUCING STEEL MATERIAL
WALSH, P., Sean	B23K 26/60	(73) NIPPON STEEL CORPORATION
PANKRATZ, Daniel	(11) EP3728658	(72) YOSHIDA, Shinji
KENNEDY, Giulia, C.	(21) EP1885199.8	KAMITANI, Hiroki
(31) 201361798941 P	(47) 26.07.2023	ARAI, Yuji
(32) 15.03.2013	(87) IB2018001616	OTOME, Yohei
(33) United States of America	27.06.2019	(31) 2018205604
(51) C12Q 1/6886	(22) 18.12.2018	2018205533
G16B 30/00	(54) METHOD OF PREPARING A PIPE-	(32) 31.10.2018
G16H 50/30	SECTION	31.10.2018
(11) EP3298172	(73) TechnipFMC Subsea France	(33) Japan
(21) EP16800594.0	(72) SAFARI, Javad	Japan
(47) 26.07.2023	GREADY, Matthew, Paul	(51) C22C 38/00
(87) US2016033753	(31) 201721536	C21D 8/10
01.12.2016	(32) 21.12.2017	C21D 9/14
(22) 23.05.2016	(33) United Kingdom	C22C 38/02
(54) DETERMINING RISK OF PROSTATE	(51) C22C 11/06	C22C 38/04
CANCER RECURRENCE	H01M 4/68	C22C 38/06
(73) The Regents of the University of	H01M 10/12	C22C 38/22
California	H01M 4/73	C22C 38/24
(72) PARIS, Pamela	(11) EP3896180	C22C 38/28
(31) 201562165647 P	(21) EP20169802.4	C22C 38/32
(32) 22.05.2015	(47) 26.07.2023	C21D 6/00
(33) United States of America	(22) 16.04.2020	(11) EP3760754
(51) C21B 5/00	(54) LEAD ALLOY, ELECTRODE AND	(21) EP19761419.1
C21B 7/18	ACCUMULATOR	(47) 26.07.2023
C21B 7/20	(73) HOPPECKE Batterien GmbH & Co. KG.	(87) JP2019007319
F27B 1/20	(72) RIEGEL, Bernhard	06.09.2019
F27D 3/10	CATTANEO, Eduardo	(22) 26.02.2019
F27D 3/00	(51) C22C 14/00	(54) STEEL MATERIAL SUITABLE FOR USE
(11) EP3992308	C22C 1/04	IN SOUR ENVIRONMENT
(21) EP21209225.8	C22F 1/18	(73) NIPPON STEEL CORPORATION
(47) 26.07.2023	B33Y 70/00	(72) ARAI, Yuji
(22) 04.03.2019	B29C 64/153	YOSHIDA, Shinji
(54) METHOD FOR CHARGING RAW	(11) EP3581668	(31) 2018034755
MATERIALS INTO BLAST FURNACE	(21) EP19179020.3	2018034754
(73) JFE Steel Corporation	(47) 26.07.2023	2018034753
(72) SATO, Takeshi	(22) 07.06.2019	2018034590
ICHIKAWA, Kazuhira	(54) METHOD FOR PRODUCING A	2018034589
OGASAWARA, Yasushi	COMPONENT FROM GAMMA	(32) 28.02.2018
(31) 2018066476	TIAL AND CORRESPONDINGLY	28.02.2018
(32) 30.03.2018	MANUFACTURED COMPONENT	28.02.2018
(33) Japan	(73) MTU Aero Engines AG	28.02.2018
(51) C21D 8/02	(72) Schloffer, Martin	28.02.2018
C21D 8/04	(31) 102018209315	(33) Japan
C21D 1/26	(32) 12.06.2018	Japan
C21D 1/28	(33) Germany	Japan
(11) EP3589758	(51) C22C 38/00	Japan
(21) EP17734546.9	C21D 8/10	Japan
(47) 26.07.2023	C21D 9/08	(51) C23C 8/08
(87) US2017035513	C22C 38/54	C23C 28/00
07.09.2018	C21D 1/18	C23C 22/02
(22) 01.06.2017	C21D 1/26	F16K 1/30
(54) METHOD FOR HOMOGENIZING STEEL	C22C 38/02	F16K 1/36
COMPOSITIONS	C22C 38/04	F17C 1/10
(73) TerraPower, LLC	C22C 38/42	F17C 13/04
(72) HACKETT, Micah, J.	C22C 38/44	C23F 11/02
(31) 201715609377	C22C 38/46	C23C 8/06
201762464723 P	C22C 38/48	C23C 8/10
(32) 31.05.2017	C22C 38/50	F16K 1/04
28.02.2017	C22C 38/52	F16K 25/00
(33) United States of America	(11) EP3875622	F16K 31/50
United States of America	(21) EP19878430.8	F16K 41/02
(51) C21D 9/08	(47) 26.07.2023	F16K 31/60
B23K 9/235	(87) JP2019040725	(11) EP3441499
B23K 11/34	07.05.2020	(21) EP17778941.9

(47) 26.07.2023	FUNATO, Yuichi	C25B 13/04
(87) JP2017010752	SHIMA, Kohei	(11) EP4060087
12.10.2017	(31) 2014027605	(21) EP21193979.8
(22) 16.03.2017	(32) 17.02.2014	(47) 26.07.2023
(54) STORAGE CONTAINER FOR CLF, VALVE INSTALLED IN SAID STORAGE CONTAINER AND METHOD OF MANUFACTURING THE SAME	(33) Japan	(22) 31.08.2021
(73) Kanto Denka Kogyo Co., Ltd.	(51) C23C 24/04	(54) CARBON DIOXIDE ELECTROLYSIS DEVICE
(72) KIKUCHI, Sho	B22F 1/00	(73) Kabushiki Kaisha Toshiba
TAKIZAWA, Hiroki	B22F 7/04	(72) Yamagiwa, Masakazu
SHIBUSAWA, Yukinobu	B32B 15/20	Kofuji, Yusuke
(31) 2016075797	C22C 1/04	Tamura, Jun
(32) 05.04.2016	C22C 9/00	Mikoshihba, Satoshi
(33) Japan	C22C 9/06	Kudo, Yuki
(51) C23C 14/06	C22C 9/10	Kitagawa, Ryota
C23C 14/28	B22F 7/06	Ono, Akihiko
C04B 35/581	B22F 7/08	(31) 2021044783
C04B 35/626	B32B 15/01	(32) 18.03.2021
C04B 35/645	C22C 1/05	(33) Japan
(11) EP3964603	C22C 32/00	(51) C25B 1/04
(21) EP20194369.3	B22F 1/12	C25B 1/23
(47) 26.07.2023	(11) EP3578687	C25B 15/08
(22) 03.09.2020	(21) EP18748071.0	C12M 1/00
(54) METHOD FOR PRODUCING A SCANDIUM ALUMINUM NITRIDE TARGET FOR PLD	(47) 26.07.2023	C12P 7/06
(73) Lam Research Corporation	(87) JP2018003642	C12P 7/18
(72) Hopman, Willem Cornelis Lambert Dekkers, Jan Matthijn	09.08.2018	C12P 7/16
(51) C23C 14/08	(22) 02.02.2018	C12P 7/54
C23C 28/04	(54) LAMINATE, SLIDING MEMBER, AND METHOD FOR MANUFACTURING LAMINATE	(11) EP3411489
C23C 28/00	(73) Fukuda Metal Foil & Powder Co., Ltd.	(21) EP17748099.3
(11) EP3417084	Nissan Motor Co., Ltd.	(47) 26.07.2023
(21) EP17704785.9	(72) NISHIMURA, Shinichi	(87) US2017016097
(47) 26.07.2023	MABUCHI, Yutaka	10.08.2017
(87) EP2017053511	ARAI, Junichi	(22) 01.02.2017
24.08.2017	OTOBE, Katsunori	(54) INTEGRATED FERMENTATION AND ELECTROLYSIS PROCESS
(22) 16.02.2017	IZAWA, Yoshinori	(73) LanzaTech NZ, Inc.
(54) CUTTING TOOL	(31) 2017018411	(72) MARTIN, Michael Emerson
(73) Walter AG	(32) 03.02.2017	CONRADO, Robert John
(72) SCHIER, Veit	(33) Japan	MIHALCEA, Christophe Daniel
DIECHLE, Dominic	(51) C25B 1/00	SIMPSON, Sean Dennis
(31) 16156516	C25B 11/02	(31) 201662289900 P
(32) 19.02.2016	C25C 1/06	(32) 01.02.2016
(33) European Patent Office (EPO)	C25C 3/28	(33) United States of America
(51) C23C 16/32	C25C 7/02	(51) C25B 1/135
C04B 35/565	C01B 32/184	C25B 1/23
H01L 21/02	C01B 32/19	C25B 9/09
C23C 16/04	C01B 32/192	C25B 11/042
C04B 35/80	C25B 11/043	C25B 11/043
C04B 35/573	(11) EP3417092	C25B 11/046
(11) EP3109342	(21) EP17706868.1	C25B 15/08
(21) EP15749217.4	(47) 26.07.2023	C01B 32/162
(47) 26.07.2023	(87) GB2017050416	D01F 9/12
(87) JP2015054272	24.08.2017	D01F 9/127
20.08.2015	(22) 17.02.2017	D01F 9/133
(22) 17.02.2015	(54) METHODS OF MAKING GRAPHENE MATERIALS	F24S 20/20
(54) METHOD FOR PRODUCING HEAT- RESISTANT COMPOSITE MATERIAL	(73) Power Resources Group Ltd	F24S 20/30
(73) IHI Corporation	(72) MELLOR, Ian	(11) EP3261988
The University of Tokyo	DOUGHTY, Greg	(21) EP16756506.8
(72) SUGIURA, Hidetoshi	(31) 201619053	(47) 26.07.2023
MOMOSE, Takeshi	201602789	(87) US2016019918
FUKUSHIMA, Yasuyuki	(32) 11.11.2016	01.09.2016
SHIMOGAKI, Yukihiro	17.02.2016	(22) 26.02.2016
NAKAMURA, Takeshi	(33) United Kingdom	(54) METHODS FOR CARBON NANOFIBER PRODUCTION
HOTOZUKA, Kozue	United Kingdom	(73) C2CNT LLC
	(51) C25B 1/04	(72) REN, Jiawen
	C25B 1/23	LICHT, Stuart
	C25B 9/15	(31) 201562240805 P
	C25B 9/19	201562120951 P

(32) 13.10.2015 26.02.2015	AND METHOD FOR MANUFACTURING SUCH A TAPE	AND HYBRID ORGANOSILANE FIBERS PREPARED BY THE ELECTROSTATIC SPINNING OF THIS SOL
(33) United States of America United States of America	(73) Linxens Holding (72) VENON, Florian COQUILLARD, Stéphanie	(73) Technicka univerzita v Liberci (72) Kulhankova, Johana Holubova, Barbora Makova, Veronika
(51) C25B 11/061 C25B 11/091 H01M 4/86 H01M 4/90 H01M 4/92 H01M 8/0232 C25B 1/04 C25B 1/30 H01M 4/96	(51) C25D 5/34 C23C 14/14 C23C 14/56 H05K 3/18 H05K 3/26 C25D 5/56 C23C 14/02 C23C 14/20 C25D 5/10 C25D 7/06 C25D 17/00 H05K 1/03 H05K 3/02	(31) 20210160 (32) 31.03.2021 (33) Czech Republic
(11) EP3818198 (21) EP19729170.1 (47) 26.07.2023 (87) DE2019100471 09.01.2020	(11) EP3872237 (21) EP19875809.6 (47) 26.07.2023 (87) JP2019036977 30.04.2020 (22) 20.09.2019 (54) APPARATUS AND METHOD FOR MANUFACTURING RESIN FILM PROVIDED WITH METAL MEMBRANE	(51) D01H 13/32 (11) EP3882383 (21) EP21160386.5 (47) 26.07.2023 (22) 03.03.2021 (54) TEXTILE MACHINE AND METHOD FOR OPERATING A TEXTILE MACHINE (73) Maschinenfabrik Rieter AG (72) Maleck, Mario Kettner, Christian Pohn, Romeo Widner, Harald Zipperer, Martin Meier, Thomas-Georg Bahlmann, Bernd Hüttinger, Franz Stephan, Adalbert Weidner-Bohnenberger, Stephan
(22) 29.05.2019 (54) CATALYTIC ARRANGEMENT FOR AN ELECTROLYZER SYSTEM OR A FUEL CELL SYSTEM, ELECTROLYZER SYSTEM, FUEL CELL SYSTEM, USE OF A CATALYTIC ARRANGEMENT AND METHOD FOR PRODUCING A CATALYTIC ARRANGEMENT	(73) Schaeffler Technologies GmbH & Co. KG (72) VIVEKANANTHAN, Jeevanthi WEGENER, Moritz DOBRENIZKI, Ladislaus SCHULZ, Edgar MUSAYEV, Yashar	(31) 102020106835 (32) 12.03.2020 (33) Germany
(31) 102018116373 (32) 06.07.2018 (33) Germany	(73) Sumitomo Metal Mining Co., Ltd. (72) OKAMI, Hideharu (31) 2018199073 (32) 23.10.2018 (33) Japan	(51) D03D 1/02 B60R 21/235 D06C 7/02 (11) EP3854919 (21) EP19863912.2 (47) 26.07.2023 (87) JP2019033551 26.03.2020 (22) 27.08.2019 (54) NON-COATED BASE FABRIC FOR AIRBAG, AIRBAG, AND MANUFACTURING METHOD OF NON- COATED BASE FABRIC FOR AIRBAG
(51) C25C 3/06 C01F 7/60 C25C 3/22 C25B 1/00	(11) EP3987088 (21) EP20736252.6 (47) 26.07.2023 (87) EP2020066452 24.12.2020 (22) 15.06.2020 (54) PREPARATION METHOD AND DEVICE FOR PRODUCING RECYCLED FIBER SPINNING SOLUTION USING SOLVENT METHOD	(73) Toray Industries, Inc. (72) HOSAKA, Taiki (31) 2018174652 (32) 19.09.2018 (33) Japan
(11) EP3918113 (21) EP20704207.8 (47) 26.07.2023 (87) EP2020052304 06.08.2020 (22) 30.01.2020 (54) A PROCESS FOR PRODUCTION OF ALUMINIUM	(73) LIST Technology AG (72) STEINER, Manuel KÖNIG, Sven KUNKEL, Roland WANG, Weillie WITTE, Daniel (31) 102019116736 (32) 20.06.2019 (33) Germany	(51) D04H 1/4374 B29C 70/08 D04H 3/002 D04H 3/04 B32B 5/26 B29B 11/14 B29B 11/16 B29C 70/22 B32B 5/02 (11) EP3966378 (21) EP20720471.0 (47) 26.07.2023 (87) EP2020061688 12.11.2020 (22) 28.04.2020 (54) MULTIAXIAL FABRIC WITH DISCONTINUOUS INTERMEDIATE LAYER
(73) Norsk Hydro ASA (72) ROSENKILDE, Christian (31) 20190144 (32) 31.01.2019 (33) Norway	(31) 102019116736 (32) 20.06.2019 (33) Germany	(73) Teijin Carbon Europe GmbH
(51) C25D 3/62 C25D 5/02 C25D 5/12 C25D 5/56 C25D 7/00 C23F 1/00 G06K 19/077 G06K 19/04 C23F 1/02 C23F 3/04	(51) D01F 6/76 D01D 1/02 C08G 77/16 D01D 5/00 D01F 9/00 (11) EP4067542 (21) EP21172710.2 (47) 26.07.2023 (22) 07.05.2021 (54) METHOD FOR THE PREPARATION OF A SOL FOR THE PREPARATION OF HYBRID ORGANOSILANE FIBERS BY ELECTROSTATIC SPINNING, THE SOL PREPARED BY THIS METHOD	(51) D04H 1/4374 B29C 70/08 D04H 3/002 D04H 3/04 B32B 5/26 B29B 11/14 B29B 11/16 B29C 70/22 B32B 5/02 (11) EP3966378 (21) EP20720471.0 (47) 26.07.2023 (87) EP2020061688 12.11.2020 (22) 28.04.2020 (54) MULTIAXIAL FABRIC WITH DISCONTINUOUS INTERMEDIATE LAYER
(11) EP3892759 (21) EP20168312.5 (47) 26.07.2023 (22) 06.04.2020 (54) TAPE FOR ELECTRICAL CIRCUITS WITH ROSE-GOLD CONTACT PADS	(11) EP3872237 (21) EP19875809.6 (47) 26.07.2023 (87) JP2019036977 30.04.2020 (22) 20.09.2019 (54) APPARATUS AND METHOD FOR MANUFACTURING RESIN FILM PROVIDED WITH METAL MEMBRANE	(73) Maschinenfabrik Rieter AG (72) Maleck, Mario Kettner, Christian Pohn, Romeo Widner, Harald Zipperer, Martin Meier, Thomas-Georg Bahlmann, Bernd Hüttinger, Franz Stephan, Adalbert Weidner-Bohnenberger, Stephan

(72) REHBEIN, Johannes WOCKATZ, Ronny RICHTER, Vera	(21) EP19162459.2 (47) 26.07.2023 (22) 13.03.2019	(32) 05.02.2016 (33) Germany
(31) 201962845999 P 201962845402 P 19179663	(54) METHOD AND INTEGRATED SYSTEM FOR SUPERCRITICAL, NON- AQUEOUS SOLVENT MEDIUM DYEING OF MULTIPLE FORMS OF SYNTHETIC, NATURAL AND BLENDED TEXTILES	(51) D06M 15/647 D21H 21/14 D21H 17/56 D21H 17/59
(32) 10.05.2019 09.05.2019 12.06.2019	(73) The Hong Kong Research Institute of Textiles and Apparel Limited	(11) EP3601661 (21) EP18770874.8 (47) 26.07.2023 (87) US2018023421 27.09.2018
(33) United States of America United States of America European Patent Office (EPO)	(72) YU, Wendy Lee Ying YAO, Lei CHAN, Alex Hok Chung CHAN, Jason Lap Hung KEH, Edwin Yee Man LEUNG, John Kin Ming	(22) 20.03.2018 (54) A COMPOSITION AND METHOD OF PRODUCING A CREPING PAPER AND THE CREPING PAPER THEREOF
(51) D04H 1/54 D04H 1/558 D01D 5/26	(51) D06F 34/22 D06F 35/00 G01N 21/15 G01N 21/85 A47L 15/42	(73) Solenis Technologies, L.P. (72) MITTON, Samuel Jeremy PATTERSON, Timothy F. GERSTENHABER, David A. VIGER, Philip Michael
(11) EP3617359 (21) EP19194849.6 (47) 26.07.2023 (22) 02.09.2019	(11) EP3816335 (21) EP20199871.3 (47) 26.07.2023 (22) 02.10.2020	(31) 201762474184 P (32) 21.03.2017 (33) United States of America
(54) FIBER AGGREGATION, FILM AND METHOD OF MANUFACTURING A SHORT FIBER	(54) SENSOR DEVICE, METHOD FOR OPERATING SUCH A SENSOR DEVICE AND WATER-CONDUCTING DOMESTIC APPLIANCE	(31) 201762474184 P (32) 21.03.2017 (33) United States of America
(73) Ricoh Company, Ltd.	(73) E.G.O. Elektro-Gerätebau GmbH	(51) D06N 3/14 B32B 5/02 D06N 3/18 D06N 3/00 B32B 27/40 B32B 27/32 B32B 27/12 B32B 7/02
(72) NARUSE, Mitsuru OGAWA, Satoshi SUN, Yunsheng IWATSUKI, Hitoshi IIDA, Sohichiroh	(72) Schaumann, Uwe Schmidt, Kay Grill, Rebecca	(11) EP3993998 (21) EP20713936.1 (47) 26.07.2023 (87) EP2020059312 07.01.2021
(31) 2018164235 (32) 03.09.2018 (33) Japan	(31) 102019216599 (32) 29.10.2019 (33) Germany	(22) 01.04.2020 (54) ARTIFICIAL LEATHER PRODUCT AND PROCESS FOR PRODUCING SAME
(51) D04H 1/64 D06M 15/643	(51) D06F 39/02 D06F 37/40	(54) ARTIFICIAL LEATHER PRODUCT AND PROCESS FOR PRODUCING SAME
(11) EP4077787 (21) EP19839303.5 (47) 26.07.2023 (87) US2019066917 24.06.2021	(11) EP3256634 (21) EP16712487.4 (47) 26.07.2023 (87) IB2016050688 18.08.2016	(73) Kvadrat A/S (72) AAKERMANN JOHANSEN, Ronnie TUNS, Dea Marcela
(22) 17.12.2019	(22) 10.02.2016	(31) 19183946 (32) 02.07.2019 (33) European Patent Office (EPO)
(54) PRODUCTION OF AIRLAID NONWOVENS	(54) SYSTEM FOR FOR CONTROLLING A PLURALITY OF APPARATUSES OF A HOUSEHOLD APPLIANCE	(51) D06P 1/20 D06P 1/44 D06P 1/52 D06P 1/60 D06P 3/54 C09B 67/40 D06P 1/00 D06P 5/20 C09B 67/00 C09B 67/44 C09B 67/46
(73) Wacker Chemie AG	(73) ELBI International S.p.A. (72) FUMAGALLI, Ivan BECCHIO, Marco RAVEDATI, Paolo GAINO, Ugo CARRER, Giorgio GARETTO, Luca	(11) EP3719198 (21) EP17933266.3 (47) 26.07.2023 (87) CN2017114105 06.06.2019 (22) 30.11.2017
(72) PERRY, Conrad William RICHARDS, John BOYLAN, John Richard	(31) TO20150097 (32) 13.02.2015 (33) Italy	(54) 1-AMINO-4-HYDROXY-9,10- ANTHRAQUINONE DERIVATIVE LIQUID DISPERSE DYE, PREPARATION METHOD THEREFOR, AND USE THEREOF
(51) D05C 11/24 D05B 67/00 D06P 5/30 D03J 1/04 D04B 35/22	(51) D06F 55/02 (11) EP3617387 (21) EP19204095.4 (47) 26.07.2023 (22) 20.12.2016	(11) EP3719198 (21) EP17933266.3 (47) 26.07.2023 (87) CN2017114105 06.06.2019 (22) 30.11.2017
(11) EP3458635 (21) EP17799776.4 (47) 26.07.2023 (87) SE2017050516 23.11.2017	(31) TO20150097 (32) 13.02.2015 (33) Italy	(54) 1-AMINO-4-HYDROXY-9,10- ANTHRAQUINONE DERIVATIVE LIQUID DISPERSE DYE, PREPARATION METHOD THEREFOR, AND USE THEREOF
(22) 17.05.2017	(51) D06B 19/00 D06B 23/20 D06B 9/06	(11) EP3708704
(54) A SYSTEM FOR IN-LINE TREATMENT OF THREAD	(73) Herbert Kannegiesser GmbH (72) Heinz, Engelbert Bringewatt, Wilhelm	
(73) COLOREEL GROUP AB	(31) 102016001298	
(72) STABERG, Joakim EKLIND, Martin		
(31) 1650668 (32) 17.05.2016 (33) Sweden		

(73) Nantong Textile And Silk Industrial Technology Research Institute	(47) 26.07.2023	(11) EP4029990
(72) AI, Li	(22) 15.03.2018	(21) EP21152151.3
ZHU, Yawei	(54) MULTILAYER HEADBOX STRUCTURE FOR A FIBER WEB MACHINE FOR FORMING A FIBER WEB AND METHOD	(47) 26.07.2023
(51) D07B 1/06	FOR FORMING A FIBER WEB IN A	(22) 18.01.2021
B66B 7/06	FORMING SECTION OF A FIBER WEB	(54) A METHOD FOR FORMING
(11) EP3870751	MACHINE	CELLULOSE PRODUCTS IN A
(21) EP19787005.8	(73) Valmet Technologies Oy	FORMING MOULD SYSTEM FROM A
(47) 26.07.2023	(72) TURPEINEN, Hannu	CELLULOSE BLANK STRUCTURE, A
(87) EP2019078698	ANTTILAINEN, Sami	FORMING MOULD SYSTEM, AND A
30.04.2020	(73) PulPac AB	CELLULOSE BLANK STRUCTURE
(22) 22.10.2019	(51) D21F 3/10	(72) HÖGBLOM, Olle
(54) STEEL WIRE ROPE AND METHOD	D21F 5/20	LARSSON, Ove
FOR PRODUCING THE SAME	D21F 11/14	GUIDOTTI, Edward
(73) Bekaert Advanced Cords Aalter NV	(11) EP4038235	(51) E01C 7/26
(72) KLUUST, Andreas	(21) EP20750658.5	E01C 7/18
DE ROOSE, Eline	(47) 26.07.2023	D04H 3/045
(31) 18201936	(87) EP2020071787	E01C 11/16
(32) 23.10.2018	08.04.2021	D04H 1/64
(33) European Patent Office (EPO)	(22) 03.08.2020	D04H 3/12
(51) D07B 3/04	(54) DEVICE AND METHOD FOR APPLYING	(11) EP3717697
D07B 7/02	PROCESS AIR	(21) EP18883066.5
(11) EP3954825	(73) Voith Patent GmbH	(47) 26.07.2023
(21) EP21000222.6	(72) SEYSS, Thomas	(87) US2018063089
(47) 26.07.2023	SCHLIECKAU, Torben	06.06.2019
(22) 10.08.2021	BIANCHINI, Dario	(22) 29.11.2018
(54) DEVICE FOR DRILLING LINES	THIEKE, Manuel	(54) REINFORCING FABRIC
(73) Network Quality Management GmbH	(31) 102019126591	(73) Saint-Gobain ADFORS Canada, Ltd.
(72) Lonski, Rudolf	(32) 02.10.2019	(72) HUNT, Daniel L.
(31) 202020003457 U	(33) Germany	SMITH, Ashley
(32) 12.08.2020	(51) D21F 5/04	DONG, Jie-Yi
(33) Germany	D21F 5/18	YU, Tao
(51) D21C 11/12	D21F 9/00	NAGY, Gabor F.
(11) EP3002366	D21F 11/02	(31) 201762593707 P
(21) EP15187828.7	(11) EP3974576	(32) 01.12.2017
(47) 26.07.2023	(21) EP21180040.4	(33) United States of America
(22) 01.10.2015	(47) 26.07.2023	(51) E01C 19/28
(54) ARRANGEMENT AND METHOD IN	(22) 17.06.2021	(11) EP3688227
SODA RECOVERY BOILER	(54) METHOD AND MACHINE FOR	(21) EP18782667.2
(73) Valmet Technologies Oy	MANUFACTURING A SHEET OF	(47) 26.07.2023
(72) Haaga, Kari	FIBROUS MATERIAL	(87) EP2018075954
Rajala, Taisto	(73) Voith Patent GmbH	04.04.2019
Nyman, Jussi	(72) Kolhagen, Tobias	(22) 25.09.2018
(31) 20145866	(31) 102020125395	(54) OSCILLATION MODULE
(32) 03.10.2014	(32) 29.09.2020	(73) Hamm AG
(33) Finland	(33) Germany	(72) JANNER, Peter
(51) D21D 1/30	(51) D21H 13/26	(31) 102017122370
B02C 7/11	D21H 17/45	(32) 27.09.2017
(11) EP4127310	D21H 17/55	(33) Germany
(21) EP21712970.9	D21H 17/00	(51) E01C 23/06
(47) 26.07.2023	(11) EP3740613	E01C 23/088
(87) EP2021056317	(21) EP19741430.3	E21C 25/10
07.10.2021	(47) 26.07.2023	E21C 35/18
(22) 12.03.2021	(87) US2019013048	(11) EP3591121
(54) APPARATUS FOR GRINDING A	25.07.2019	(21) EP19181356.7
FIBROUS MATERIAL SUSPENSION	(22) 10.01.2019	(47) 26.07.2023
(73) Andritz AG	(54) PROCESS FOR MAKING PAPER WITH	(22) 19.06.2019
(72) REISINGER, Thomas	IMPROVED FILLER RETENTION AND	(54) WEAR COMPONENT OF A MILLING
ORTNER, Peter	OPACITY WHILE MAINTAINING WET	MACHINE, MILLING MACHINE AND
HOGUE, Daniel	TENSILE STRENGTH	METHOD FOR DETERMINING WEAR
HARPIN, Christian	(73) Solenis Technologies, L.P.	OF THE WEAR COMPONENT
(31) 502752020	(72) CRISP, Mark Tracey	(73) Wirtgen GmbH
(32) 01.04.2020	LEWIS, Ashley Hawkins	(72) SCHWALBACH, Lothar
(33) Austria	(31) 201862617938 P	BRÜCK, Matthias
(51) D21F 1/02	(32) 16.01.2018	(31) 102018115959
(11) EP3540117	(33) United States of America	(32) 02.07.2018
(21) EP18161990.9	(51) D21J 5/00	(33) Germany
	B29C 51/00	(51) E01F 13/02

E01F 13/04	(33) Germany	OPERATION IN A WORK MACHINE WITH A HYDRAULIC PUMP AND UNLOADER VALVE
(11) EP3754111	(51) E02B 17/00	
(21) EP20180348.3	(11) EP3775391	(73) Caterpillar SARL
(47) 26.07.2023	(21) EP19721121.2	(72) CAIRNS, Paul John
(22) 16.06.2020	(47) 26.07.2023	MCNAMEE, Niall Hugh
(54) BOLLARD DEVICE	(87) IB2019052684	BAKKEN, Arick M.
(73) FAAC S.p.A.	10.10.2019	SAYEED, Fuaad
(72) MAGNONI, Samuele	(22) 02.04.2019	(31) 202110140
DEMARIA, Riccardo	(54) OFFSHORE PLATFORM DECK REMOVAL SYSTEM AND METHOD	202019672
(31) 201900009141	(73) Saipem S.p.A.	(32) 14.07.2021
(32) 17.06.2019	(72) MCCARTHY, Vincent George	14.12.2020
(33) Italy	(31) 201800004201	(33) United Kingdom
(51) E01F 15/08	(32) 04.04.2018	United Kingdom
(11) EP3775386	(33) Italy	
(21) EP19776535.7	(51) E02D 3/12	(51) E02F 5/10
(47) 26.07.2023	(11) EP2893085	H02G 1/10
(87) US2019022635	(21) EP13756917.4	H02G 9/02
03.10.2019	(47) 26.07.2023	(11) EP3832026
(22) 15.03.2019	(87) GB2013000315	(21) EP19213813.9
(54) ANTI-ROTATION WATER-BALLASTED PROTECTION BARRIERS AND METHODS	23.01.2014	(47) 26.07.2023
(73) Traffix Devices, Inc.	(22) 22.07.2013	(22) 05.12.2019
(72) MAUS, Geoffrey B.	(54) METHOD OF STABILISING A SOIL	(54) APPARATUS FOR LOCATING ELONGATE OBJECT IN A TRENCH IN A FLOOR OF A BODY OF WATER
JAIME, Christopher A.	(73) GeolInnovations Limited	(73) Soil Machine Dynamics Limited
KULP, Jack H.	(72) COLLIS, Simon Paul	(72) WALKER, John Graeme
ALMANZA, Felipe	(31) 201213003	WHITE, Roger
(31) 201862648846 P	(32) 20.07.2012	
(32) 27.03.2018	(33) United Kingdom	(51) E02F 9/08
(33) United States of America	(51) E02D 5/52	B60R 21/13
(51) E01H 1/08	E04B 1/21	B62D 21/18
A01G 20/47	(11) EP3997273	B66C 23/78
(11) EP3875689	(21) EP20742796.4	B66F 11/04
(21) EP20161283.5	(47) 26.07.2023	E02F 9/20
(47) 26.07.2023	(87) FI2020050473	E02F 9/22
(22) 05.03.2020	21.01.2021	B62D 37/04
(54) HAND-HELD VACUUM SYSTEM	(22) 29.06.2020	B62D 49/08
(73) Andreas Stihl AG & Co. KG	(54) COLUMN SHOE FOR FASTENING REINFORCED CONCRETE COLUMNS TO A BASE	(11) EP3960935
(72) Fuchs, Alexander	(73) Peikko Group Oy	(21) EP21193563.0
Seiz, Jonathan	(72) KINNUNEN, Jorma	(47) 26.07.2023
Oesterle, Markus	(31) 20195632	(22) 27.08.2021
Pfeifer, Markus	(32) 12.07.2019	(54) CONSTRUCTION MACHINERY WITH OUTRIGGER CONTROL SYSTEM
(51) E01H 13/00	(33) Finland	(73) Hyundai Doosan Infracore Co., Ltd.
F24F 9/00	(51) E02F 3/36	(72) LEE, Sookwang
(11) EP3722509	E02F 9/08	(31) 20200108964
(21) EP17933861.1	B60R 16/02	(32) 28.08.2020
(47) 26.07.2023	(11) EP3850161	(33) Korea (Republic)
(87) KR2017014047	(21) EP19769380.7	(51) E02F 9/20
13.06.2019	(47) 26.07.2023	B60R 1/00
(22) 04.12.2017	(87) EP2019025295	E02F 9/26
(54) AIR BARRIER SYSTEM FOR BLOCKING INFLOW OF FOG	19.03.2020	H04N 7/18
(73) System Korea Engineering & Construction Co., Ltd.	(22) 05.09.2019	E02F 3/43
(72) Park, Sean Man	(54) EXCAVATOR SPLIT CONNECTOR	(11) EP3754120
(51) E02B 9/06	(73) Caterpillar Work Tools B.V.	(21) EP19777489.6
F03B 3/12	(72) GRANT, Patrick	(47) 26.07.2023
(11) EP3973176	(31) 201816126972	(87) JP2019002333
(21) EP20732734.7	(32) 10.09.2018	03.10.2019
(47) 26.07.2023	(33) United States of America	(22) 24.01.2019
(87) EP2020063938	(51) E02F 3/40	(54) REMOTE CONTROL SYSTEM AND MAIN CONTROL DEVICE
26.11.2020	E02F 9/22	(73) Kobelco Construction Machinery Co., Ltd.
(22) 19.05.2020	(11) EP4012106	(72) UEDA, Kazuhiro
(54) TURBINE DEVICE	(21) EP21211339.3	SAIKI, Seiji
(73) Frideco AG	(47) 26.07.2023	SASAKI, Hitoshi
(72) STÄHLE, Carl	(22) 30.11.2021	(31) 2018062609
(31) 102019113848	(54) HYDRAULIC CONTROL SYSTEM AND METHOD FOR A BUCKET SHAKE	(32) 28.03.2018
(32) 23.05.2019		(33) Japan

(51) E02F 9/20	(11) EP3841255	(47) 26.07.2023
(21) E02F 9/24	(21) EP19852266.6	(22) 04.03.2020
(47) E02F 9/26	(47) 26.07.2023	(54) SANITARY SHOWER / WASHING
B66C 23/00	(87) SE2019050761	DEVICE WITH SHOWER AND
B66F 17/00	27.02.2020	WASHING PROGRAMS
E02F 3/43	(22) 19.08.2019	(73) Hansgrohe SE
G05B 13/02	(54) DEMOLITION ROBOT AND METHOD	(72) WERNER, Bernd
G05B 19/042	FOR SUPPLYING HYDRAULIC POWER	ERATH, Steffen
(11) EP3438354	TO A HYDRAULICALLY POWERED	WÖHRLE, Markus
(21) EP17775092.4	TOOL AT A DEMOLITION ROBOT	KIRSCH, Philipp
(47) 26.07.2023	(73) Brokk Aktiebolag	(31) 102019203163
(87) JP2017012648	(72) ANDERSSON, Stefan	(32) 08.03.2019
05.10.2017	(31) 1851013	(33) Germany
(22) 28.03.2017	(32) 24.08.2018	(51) E03D 9/00
(54) MECHANICAL SHOVEL	(33) Sweden	E03D 11/12
(73) Sumitomo Heavy Industries, Ltd.	(51) E02F 9/26	(11) EP3922778
(72) HIRANUMA, Kazunori	(11) EP3931402	(21) EP20179021.9
OKADA, Junichi	(21) EP20712810.9	(47) 26.07.2023
(31) 2016072763	(47) 26.07.2023	(22) 09.06.2020
(32) 31.03.2016	(87) US2020020139	(54) SANITARY ARTICLE ASSEMBLY
(33) Japan	03.09.2020	(73) Geberit International AG
(51) E02F 9/22	(22) 27.02.2020	(72) Gallaroti, Boris
B66F 11/04	(54) DISPLAY INTEGRATED INTO DOOR	Megert, Yvo
F15B 21/08	(73) Clark Equipment Company	Rippert, Joel
G05B 13/02	(72) SAGASER, Matthew	Ackermann, Cäsar
E02F 9/20	AGNEW, Dennis	(51) E04B 1/04
B66F 9/22	PFAFF, John	E04B 1/21
F16H 59/44	(31) 201962934065 P	E04B 1/41
F16H 59/70	201916533417	(11) EP3983618
F16H 61/00	201962811125 P	(21) EP20731524.3
F16H 59/38	(32) 12.11.2019	(47) 26.07.2023
(11) EP3825476	06.08.2019	(87) FI2020050363
(21) EP20209117.9	27.02.2019	17.12.2020
(47) 26.07.2023	(33) United States of America	(22) 29.05.2020
(22) 23.11.2020	United States of America	(54) METHOD FOR MOUNTING A
(54) METHOD FOR CONTROLLING THE	United States of America	PREFABRICATED CONSTRUCTION
HYDRAULIC AGGRESSIVENESS OF A	(51) E03C 1/02	ELEMENT TO ANOTHER
WORK VEHICLE AND WORK VEHICLE	E03C 1/042	CONSTRUCTION ELEMENT AND
(73) CNH Industrial Italia S.p.A.	(11) EP3674489	CONNECTION ARRANGEMENT
(72) Venezia, Antonio	(21) EP19217178.3	(73) Peikko Group Oy
Aresta, Alessio	(47) 26.07.2023	(72) GREISEN, Johannes
Carvignese, Cosimo	(22) 17.12.2019	BUJNAK, Jan
(31) 201900021831	(54) THERMOSTATIC FITTING	YRJÖLÄ, Jaakko
(32) 21.11.2019	(73) Griferías Grober, S.L.	(31) 20195517
(33) Italy	(72) Ladrón Jiménez, Roberto	(32) 14.06.2019
(51) E02F 9/22	(31) 201831280	(33) Finland
E02F 3/43	(32) 26.12.2018	(51) E04B 2/72
F15B 21/14	(33) Spain	E04B 2/18
(11) EP3844350	(51) E03C 1/04	E04C 2/28
(21) EP18931592.2	F16K 15/02	E04C 2/34
(47) 26.07.2023	F24D 17/00	E04C 2/38
(87) KR2018010094	(11) EP3789548	E04F 13/08
05.03.2020	(21) EP20191287.0	(11) EP3743571
(22) 30.08.2018	(47) 26.07.2023	(21) EP19743095.2
(54) HYDRAULIC CIRCUIT FOR	(22) 17.08.2020	(47) 26.07.2023
CONSTRUCTION EQUIPMENT	(54) SANITARY OUTLET ARMATURE	(87) AU2019050042
(73) Volvo Construction Equipment AB	WITH MIXING AND SHUT-OFF VALVE	01.08.2019
(72) KU, Bon Seuk	DEVICE	(22) 23.01.2019
(51) E02F 9/22	(73) Hansgrohe SE	(54) COMPOSITE BUILDING PANEL AND
F04B 49/06	(72) Hahn, Arno	SHELL
F15B 11/16	Meier, Fridolin	(73) Wall Technologies Pty Ltd
E02F 3/96	Dold, Florian	(72) VISSER, David
F04B 17/03	(31) 102019213475	(31) 2018900228
F04B 49/08	(32) 05.09.2019	(32) 24.01.2018
F04B 49/20	(33) Germany	(33) Australia
E02F 9/20	(51) E03C 1/05	(51) E04B 5/02
H02P 7/00	(11) EP3705642	E04B 5/21
H02P 6/06	(21) EP20160907.0	E04B 5/26

E04B 5/28	(31) 15020158	(54) WALL OR CEILING COVERING SYSTEM
(11) EP4045728	(32) 11.09.2015	(73) Troldekt A/S
(21) EP20820238.2	(33) European Patent Office (EPO)	(72) Mortensen, Bjarne
(47) 26.07.2023	(51) E04C 3/08	Christensen, Michael
(87) FI2020050681	E04C 3/10	(31) PA202070059
22.04.2021	B66C 6/00	(32) 30.01.2020
(22) 15.10.2020	B66C 7/02	(33) Denmark
(54) THERMAL INSULATION PLATE AND ITS USE	B66C 19/02	(51) E04F 15/024
(73) FF-Future Oy	E04C 3/04	E04F 15/02
(72) LAAKSONEN, Juha	(11) EP3580402	(11) EP4108848
ERONEN, Jouni	(21) EP18705857.3	(21) EP21181392.8
(31) 20195890	(47) 26.07.2023	(47) 26.07.2023
(32) 16.10.2019	(87) EP2018053080	(22) 24.06.2021
(33) Finland	16.08.2018	(54) TERRACE FLOOR SUBSTRUCTURE WITH SUPPORTS FOR FLOOR COVERINGS
(51) E04B 5/32	(22) 07.02.2018	(73) Proline Systems GmbH
E04B 5/36	(54) SUPPORT OF SEGMENTED STRUCTURAL DESIGN	(72) Dommermuth, Johannes
E04B 5/48	(73) Stahl CraneSystems GmbH	Pfund, Eric
E04F 15/12	(72) GOLDER, Markus	Pratt, Gregory
(11) EP3763894	(31) 102017102372	(51) E04F 15/024
(21) EP20182066.9	(32) 07.02.2017	E04F 15/02
(47) 26.07.2023	(33) Germany	(11) EP4108849
(22) 24.06.2020	(51) E04D 3/35	(21) EP21181395.1
(54) INFILLING ELEMENT FOR FORMWORK FOR THE BUILDING SECTOR	E04D 3/36	(47) 26.07.2023
(73) Daliform Group S.r.l.	E04D 3/361	(22) 24.06.2021
(72) SERAFIN, Antonio	E04D 3/367	(54) PROFILE SYSTEM FOR FORMING A TERRACE FLOOR STRUCTURE
ALBERTINI, Antimo Riccardo	E04D 3/365	(73) Proline Systems GmbH
SERAFIN, Giovanni	E04D 3/366	(72) Pfund, Eric
(31) 201900011574	(11) EP3141673	Pratt, Gregory
(32) 12.07.2019	(21) EP16188773.2	Dommermuth, Johannes
(33) Italy	(47) 26.07.2023	(51) E04F 15/10
(51) E04B 5/43	(22) 14.09.2016	B32B 5/02
E04C 3/34	(54) FOLDED SHEET	B32B 5/10
E04B 1/30	(73) Neumeister, Clemens	B32B 5/12
(11) EP3728756	(72) Neumeister, Clemens	(11) EP3526422
(21) EP18826915.3	(31) 102015011689	(21) EP17862048.0
(47) 26.07.2023	(32) 14.09.2015	(47) 26.07.2023
(87) AT2018060293	(33) Germany	(87) IB2017001413
27.06.2019	(51) E04F 10/06	26.04.2018
(22) 11.12.2018	E04H 15/08	(22) 17.10.2017
(54) COLUMN-CEILING NODE FOR A REINFORCED CONCRETE CEILING AND TWO CONCRETE COLUMNS IN STOREY CONSTRUCTION	(11) EP3748099	(54) A DIMENSIONALLY STABLE FLOOR PANEL
(73) Technische Universität Wien	(21) EP19178903.1	(73) Novalis Holdings Limited
(72) WOLFGGER, Hannes	(47) 26.07.2023	(72) CHEN, Hao, Allen
KOLLEGGGER, Johann	(22) 07.06.2019	(31) 201662408998 P
PREINSTORFER, Philipp	(54) AWNING	(32) 17.10.2016
(31) 504532018	(73) Fiamma S.p.A.	(33) United States of America
510722017	(72) Pozzi, Charles Philip	(51) E04F 15/18
(32) 06.06.2018	Pozzi, John-David	(11) EP3751075
22.12.2017	(51) E04F 11/18	(21) EP19751695.8
(33) Austria	(11) EP3892791	(47) 26.07.2023
Austria	(21) EP21163303.7	(87) ES2019070059
(51) E04C 2/16	(47) 26.07.2023	15.08.2019
E04B 9/00	(22) 18.03.2021	(22) 05.02.2019
E04B 9/04	(54) PANEL SYSTEM	(54) DECOUPLING SHEET
(11) EP3347536	(73) Isildak Insaat Taahhüt Ticaret Anonim Sirketi	(73) Nietos De Miguel Martinez Ramirez, S.L.
(21) EP16763815.4	(72) ISILDAK, Adil	(72) MARTINEZ GIL, Ramon
(47) 26.07.2023	(31) 202005570	(31) 201830104
(87) EP2016071378	(32) 08.04.2020	(32) 07.02.2018
16.03.2017	(33) Türkiye	(33) Spain
(22) 09.09.2016	(51) E04F 13/08	(51) E04G 7/30
(54) ACOUSTIC PANEL	E04B 9/00	E04G 7/34
(73) ROCKWOOL A/S	E04B 9/36	E04H 3/12
(72) MOSIADZ, Maciej Grzegorz	(11) EP3859097	E04C 3/04
	(21) EP21152703.1	
	(47) 26.07.2023	
	(22) 21.01.2021	

E04G 7/26	(73) Zodiac Pool Systems LLC	A01K 1/00
(11) EP3997284	(72) BAUCKMAN, Mark	A01G 13/02
(21) EP20740742.0	GOLDMAN, David	A47C 29/00
(47) 26.07.2023	HENG, Hwa	B60J 7/08
(87) NO2020050188	UY, Dindo	E04H 15/34
21.01.2021	DESAI, Krishna	(11) EP3449071
(22) 03.07.2020	(31) 201762580221 P	(21) EP17790139.4
(54) HEAVY DUTY TRANSOM FOR	(32) 01.11.2017	(47) 26.07.2023
STRUCTURAL SUPPORT SYSTEMS	(33) United States of America	(87) US2017028618
(73) Frico AS	(51) E04H 4/16	02.11.2017
(72) FRITZØE, Steven	(11) EP3935242	(22) 20.04.2017
ZARB, Danny	(21) EP20722957.6	(54) CANOPY ASSEMBLY FOR A BARRIER
(31) 20190881	(47) 26.07.2023	(73) Shelterlogic Corp.
(32) 12.07.2019	(87) US2020028106	(72) OTIS, Christian
(33) Norway	29.10.2020	LEMOINE, George
(51) E04G 17/065	(22) 14.04.2020	(31) 201615142051
(11) EP3947859	(54) FLUID-POWERED MOTOR FOR	(32) 29.04.2016
(21) EP20716441.9	AN AUTOMATIC SWIMMING POOL	(33) United States of America
(47) 26.07.2023	CLEANER	(51) E04H 17/16
(87) EP2020059105	(73) Zodiac Pool Systems LLC	(11) EP3839174
08.10.2020	(72) LISS, Brian	(21) EP19218001.6
(22) 31.03.2020	BORG, Dustin	(47) 26.07.2023
(54) ANCHOR APPARATUS	(31) 201962837017 P	(22) 19.12.2019
(73) PASCHAL-Werk G. Maier GmbH	(32) 22.04.2019	(54) BRACKET FOR SUPPORTING A
(72) KAISER, Arnold	(33) United States of America	WALL ELEMENT AND A SYSTEM FOR
(31) 102019109066	(51) E04H 12/02	SHIELDING AN AREA
(32) 05.04.2019	E04H 12/08	(73) Troax AB
(33) Germany	F03D 1/06	(72) BENGTSOON, Staffan
(51) E04G 21/12	F03D 13/20	(51) E05B 49/00
(11) EP3997285	(11) EP3927918	E05B 47/06
(21) EP21711527.8	(21) EP20705030.3	E05B 47/00
(47) 26.07.2023	(47) 26.07.2023	(11) EP3936689
(87) EP2021055901	(87) EP2020053356	(21) EP21184159.8
16.09.2021	27.08.2020	(47) 26.07.2023
(22) 09.03.2021	(22) 10.02.2020	(22) 07.07.2021
(54) CONNECTING DEVICE	(54) WIND TURBINE COMPONENT FOR	(54) MECHATRONIC LOCK AND KEY
(73) Pfeifer Holding GmbH & Co. KG	A WIND TURBINE TOWER, WIND	SYSTEM
(72) NEEF, Christoph	TURBINE TOWER, ROTOR BLADE,	(73) ASSA ABLOY Sicherheitstechnik GmbH
(31) 102020203116	WIND TURBINE AND METHOD FOR	(72) Daubitz, Matthias
(32) 11.03.2020	PRODUCING A WIND TURBINE	(31) 102020117853
(33) Germany	COMPONENT	(32) 07.07.2020
(51) E04H 3/12	(73) Wobben Properties GmbH	(33) Germany
E04H 3/14	(72) HOFFMANN, Alexander	(51) E05B 77/06
(11) EP3988739	BRENNER, Albrecht	E05B 83/36
(21) EP21176646.4	(31) 102019103984	(11) EP4041971
(47) 26.07.2023	(32) 18.02.2019	(21) EP20792524.9
(22) 28.05.2021	(33) Germany	(47) 26.07.2023
(54) MULTI-SPORT CENTER	(51) E04H 12/08	(87) DE2020100868
(73) Cho, Byoungkoo	E04H 12/12	15.04.2021
Jeong, Yeonuk	F03D 13/20	(22) 06.10.2020
Kim, Bosub	E04H 12/16	(54) MOTOR VEHICLE LOCK, IN
(72) Jeong, Yeonuk	(11) EP3924577	PARTICULAR A MOTOR VEHICLE
Cho, Byoungkoo	(21) EP20705323.2	DOOR LOCK
Kim, Bosub	(47) 26.07.2023	(73) Kiekert Aktiengesellschaft
(31) 20200138571	(87) EP2020053361	(72) DRAGON, Marek
(32) 23.10.2020	20.08.2020	GROSSMANN, Alexander
(33) Korea (Republic)	(22) 10.02.2020	(31) 102019127445
(51) E04H 4/12	(54) HYBRID TOWER SECTION, HYBRID	(32) 11.10.2019
A61H 33/00	TOWER FOR A WIND POWER PLANT	(33) Germany
(11) EP3704330	AND METHOD OF PRODUCTION	(51) E05B 79/20
(21) EP18801160.5	(73) Wobben Properties GmbH	E05B 85/02
(47) 26.07.2023	(72) HÖLSCHER, Norbert	F16C 1/22
(87) US2018057496	(31) 102019103589	(11) EP4030024
09.05.2019	(32) 13.02.2019	(21) EP22150663.7
(22) 25.10.2018	(33) Germany	(47) 26.07.2023
(54) CONTROL BOXES PRINCIPALLY FOR	(51) E04H 15/54	(22) 10.01.2022
USE WITH EQUIPMENT OF SWIMMING	E04H 15/36	(54) MOTOR VEHICLE LOCK
POOLS AND SPAS	E04H 15/64	(73) Kiekert AG

(72) Sohlbach, Andreas Ochtrop, Matthias Handke, Armin Fuchs, Carsten	E05F 15/63 (11) EP3417135 (21) EP17703702.5 (47) 26.07.2023	(73) dormakaba Deutschland GmbH (72) FINKE, Andreas LIEBSCHER, Arne KLOSSAS, Jens HÖHER, Ralf
(31) 102021100390 (32) 12.01.2021 (33) Germany	(87) EP2017052127 24.08.2017 (22) 01.02.2017	(31) 102019101451 (32) 21.01.2019 (33) Germany
(51) E05B 85/14 E05B 85/20 E05B 85/22 E05F 15/00 E05B 85/10 E05B 85/04	(54) BRAKING DEVICE FOR A MOVING DOOR LEAF AND CORRESPONDING DOOR CLOSER (73) GEZE GmbH (72) HUCKER, Matthias (31) 102016202225 (32) 15.02.2016 (33) Germany	(51) E06B 9/24 H02J 1/08 G02F 1/163 (11) EP3350651 (21) EP16847427.8 (47) 26.07.2023 (87) US2016052211 23.03.2017 (22) 16.09.2016 (54) POWER DISTRIBUTION NETWORKS FOR ELECTROCHROMIC DEVICES (73) View, Inc. (72) BROWN, Stephen C. SHRIVASTAVA, Dhairya KANESHIRO, Kevin Kazuo VIGANO, Jose
(11) EP4077842 (21) EP20841875.6 (47) 26.07.2023 (87) DE2020101066 24.06.2021 (22) 15.12.2020 (54) MOTOR VEHICLE DOOR LOCK (73) Kiekert AG (72) WEICHSEL, Ulrich REDDMANN, Uwe	(51) E05F 15/40 E05F 15/611 E05F 15/70 (11) EP3757330 (21) EP20165501.6 (47) 26.07.2023 (22) 25.03.2020 (54) DRIVE FOR WING OF A WINDOW OR A DOOR (73) GEZE GmbH (72) Budarick, Marko Braun, Verena	(31) 201562220514 P (32) 18.09.2015 (33) United States of America
(31) 102019135418 (32) 20.12.2019 (33) Germany	(31) 102019209378 (32) 27.06.2019 (33) Germany	(51) E06B 9/322 E06B 9/68 E06B 9/78 E06B 9/80 E06B 9/90 (11) EP3902969 (21) EP19827847.5 (47) 26.07.2023 (87) NL2019050843 02.07.2020 (22) 17.12.2019 (54) OPERATING MECHANISM FOR A WINDOW COVERING AND WINDOW COVERING (73) Vako B.V. (72) VALKENBURG, Nanne Willem (31) 2022305 (32) 24.12.2018 (33) Netherlands
(51) E05D 1/04 E05D 7/082 E04D 13/035 E05D 11/10 E05D 11/06	(51) E05F 15/603 E05F 15/611 E05F 15/40 (11) EP3757334 (21) EP20165483.7 (47) 26.07.2023 (22) 25.03.2020 (54) DRIVE (73) GEZE GmbH (72) Budarick, Marko Braun, Verena	(51) E06B 3/66 E06B 3/663 E06B 3/673 E06B 3/02 E04B 2/96 E04B 2/88 (11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France
(11) EP4116532 (21) EP21216433.9 (47) 26.07.2023 (22) 21.12.2021 (54) HANDLING AND INSTALLATION ASSEMBLY FOR A ROOF WINDOW (73) VKR Holding A/S (72) JENSEN, Henrik (31) PA202170353 (32) 05.07.2021 (33) Denmark	(31) 102019209375 (32) 27.06.2019 (33) Germany	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(51) E05D 3/02 (11) EP3425147 (21) EP17179294.8 (47) 26.07.2023 (22) 03.07.2017 (54) A HINGE DEVICE (73) Ningbo Geely Automobile Research & Development Co., Ltd.	(51) E06B 3/66 E06B 3/663 E06B 3/673 E06B 3/02 E04B 2/96 E04B 2/88 (11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(31) PA202170353 (32) 05.07.2021 (33) Denmark	(31) 102019209375 (32) 27.06.2019 (33) Germany	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(51) E05D 15/26 E05D 15/40 E05F 1/10	(51) E06B 3/66 E06B 3/663 E06B 3/673 E06B 3/02 E04B 2/96 E04B 2/88 (11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(11) EP3625415 (21) EP17780229.5 (47) 26.07.2023 (87) TR2017000057 22.11.2018 (22) 15.05.2017 (54) FLAP BEARING WITH AN ADJUSTMENT AID (73) Samet Kalip Ve Madeni Esya San. Ve Tic. A.S.	(51) E06B 3/66 E06B 3/663 E06B 3/673 E06B 3/02 E04B 2/96 E04B 2/88 (11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(72) THENOON, Mohammad EARL, Tony	(11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(51) E05D 15/26 E05D 15/40 E05F 1/10	(51) E06B 3/66 E06B 3/663 E06B 3/673 E06B 3/02 E04B 2/96 E04B 2/88 (11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(11) EP3625415 (21) EP17780229.5 (47) 26.07.2023 (87) TR2017000057 22.11.2018 (22) 15.05.2017 (54) FLAP BEARING WITH AN ADJUSTMENT AID (73) Samet Kalip Ve Madeni Esya San. Ve Tic. A.S.	(51) E06B 3/66 E06B 3/663 E06B 3/673 E06B 3/02 E04B 2/96 E04B 2/88 (11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(72) HIRTSIEFER, Artur	(11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(51) E05F 5/02	(51) E06B 3/66 E06B 3/663 E06B 3/673 E06B 3/02 E04B 2/96 E04B 2/88 (11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(51) E05F 5/02	(51) E06B 3/66 E06B 3/663 E06B 3/673 E06B 3/02 E04B 2/96 E04B 2/88 (11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(51) E05F 5/02	(51) E06B 3/66 E06B 3/663 E06B 3/673 E06B 3/02 E04B 2/96 E04B 2/88 (11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(51) E05F 5/02	(51) E06B 3/66 E06B 3/663 E06B 3/673 E06B 3/02 E04B 2/96 E04B 2/88 (11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(51) E05F 5/02	(51) E06B 3/66 E06B 3/663 E06B 3/673 E06B 3/02 E04B 2/96 E04B 2/88 (11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(51) E05F 5/02	(51) E06B 3/66 E06B 3/663 E06B 3/673 E06B 3/02 E04B 2/96 E04B 2/88 (11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(51) E05F 5/02	(51) E06B 3/66 E06B 3/663 E06B 3/673 E06B 3/02 E04B 2/96 E04B 2/88 (11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(51) E05F 5/02	(51) E06B 3/66 E06B 3/663 E06B 3/673 E06B 3/02 E04B 2/96 E04B 2/88 (11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(51) E05F 5/02	(51) E06B 3/66 E06B 3/663 E06B 3/673 E06B 3/02 E04B 2/96 E04B 2/88 (11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(51) E05F 5/02	(51) E06B 3/66 E06B 3/663 E06B 3/673 E06B 3/02 E04B 2/96 E04B 2/88 (11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(51) E05F 5/02	(51) E06B 3/66 E06B 3/663 E06B 3/673 E06B 3/02 E04B 2/96 E04B 2/88 (11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(51) E05F 5/02	(51) E06B 3/66 E06B 3/663 E06B 3/673 E06B 3/02 E04B 2/96 E04B 2/88 (11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(51) E05F 5/02	(51) E06B 3/66 E06B 3/663 E06B 3/673 E06B 3/02 E04B 2/96 E04B 2/88 (11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(51) E05F 5/02	(51) E06B 3/66 E06B 3/663 E06B 3/673 E06B 3/02 E04B 2/96 E04B 2/88 (11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(51) E05F 5/02	(51) E06B 3/66 E06B 3/663 E06B 3/673 E06B 3/02 E04B 2/96 E04B 2/88 (11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(51) E05F 5/02	(51) E06B 3/66 E06B 3/663 E06B 3/673 E06B 3/02 E04B 2/96 E04B 2/88 (11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(51) E05F 5/02	(51) E06B 3/66 E06B 3/663 E06B 3/673 E06B 3/02 E04B 2/96 E04B 2/88 (11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.
(51) E05F 5/02	(51) E06B 3/66 E06B 3/663 E06B 3/673 E06B 3/02 E04B 2/96 E04B 2/88 (11) EP3933159 (21) EP21180230.1 (47) 26.07.2023 (22) 18.06.2021 (54) WINDOW DEVICE (73) Arcora (72) CLAVREUL, Arnaud (31) 2006851 (32) 30.06.2020 (33) France	(51) E06B 9/58 E06B 9/17 E06B 9/13 (11) EP3885525 (21) EP21000087.3 (47) 26.07.2023 (22) 25.03.2021 (54) CURTAIN OF A VERTICAL SLIDING ROLL-UP DOOR, PROVIDED WITH A LATERAL SEAL (73) BMPEUROPE S.r.l.

(72) Benotto, Danilo	(47) 26.07.2023	(87) US2015065227
(31) 202000006523	(22) 08.10.2008	16.06.2016
(32) 27.03.2020	(54) Underwater drilling device and method	(22) 11.12.2015
(33) Italy	for carrying out underwater drilling, in	(54) SYSTEM AND METHOD OF
(51) E06B 11/08	particular for attaching an underwater	ALIGNMENT FOR AN AUXILIARY
E05F 15/614	anchoring	LINES HYDRAULIC COUPLING
(11) EP3867481	(73) LEDI Subsea Drilling B.V.	(73) Hydril USA Distribution LLC
(21) EP19787241.9	(72) Van Leeuwen, Marinus Teunis jr.	(72) STIBICH, Alex David
(47) 26.07.2023	Vriesinga, René Fransiscus	GAMBLE, Jamie Clay
(87) EP2019077743	De Graaff, Didier René	LARSON, Eric Dale
23.04.2020	(31) 1034488	(31) 201514963849
(22) 14.10.2019	(32) 08.10.2007	201462097845 P
(54) PASSAGE BARRIER AND METHOD	(33) Netherlands	201462091160 P
FOR PRODUCING A PASSAGE	(51) E21B 17/02	(32) 09.12.2015
BARRIER	E21B 17/20	30.12.2014
(73) dormakaba Deutschland GmbH	H01R 13/52	12.12.2014
(72) EICHNER, Harald	(11) EP3111032	(33) United States of America
(31) 102018125483	(21) EP15752895.1	United States of America
(32) 15.10.2018	(47) 26.07.2023	United States of America
(33) Germany	(87) US2015017275	(51) E21B 23/08
(51) E06C 1/32	27.08.2015	E21B 19/086
E06C 7/48	(22) 24.02.2015	E21B 34/02
E06C 7/18	(54) ELECTROMAGNETIC DIRECTIONAL	(11) EP2697474
(11) EP3810885	COUPLER WIRED PIPE	(21) EP12771568.8
(21) EP19814793.6	TRANSMISSION DEVICE	(47) 26.07.2023
(47) 26.07.2023	(73) Baker Hughes Holdings LLC	(87) US2012030669
(87) US2019036172	(72) BRATSCHKE, Thomas	18.10.2012
12.12.2019	(31) 201414187923	(22) 27.03.2012
(22) 07.06.2019	(32) 24.02.2014	(54) PRESSURE EQUALIZATION
(54) COMBINATION LADDERS, LADDER	(33) United States of America	APPARATUS AND ASSOCIATED
COMPONENTS AND RELATED	(51) E21B 17/03	SYSTEMS AND METHODS
METHODS	E21B 17/042	(73) Halliburton Energy Services Inc.
(73) Little Giant Ladder Systems, LLC	E21B 17/10	(72) WILLIAMSON, Jimmie, R.
(72) RUSSELL, Brian B.	(11) EP3749827	VICK, James, D.
COOK, Benjamin Lynn	(21) EP19821540.2	(31) 201113085075
MOSS, N. Ryan	(47) 26.07.2023	(32) 12.04.2011
MINER, Steven S.	(87) US2019032234	(33) United States of America
MAXFIELD, Bradley Scott	26.12.2019	(51) E21B 29/02
MITTANCK, Travis	(22) 14.05.2019	E21B 43/114
(31) 201962834076 P	(54) DRILLING COMPONENT COUPLER	(11) EP3724443
201862732997 P	FOR REINFORCEMENT	(21) EP18888887.9
201862682673 P	(73) Halliburton Energy Services Inc.	(47) 26.07.2023
(32) 15.04.2019	(72) HOOPER, Michael Edward	(87) US2018065590
18.09.2018	(31) 201816014460	20.06.2019
08.06.2018	(32) 21.06.2018	(22) 14.12.2018
(33) United States of America	(33) United States of America	(54) THERMAL CUTTER
United States of America	(51) E21B 17/046	(73) Schlumberger Technology B.V.
United States of America	E21B 43/12	(72) HENDERSON, Steven
(51) E21B 7/06	E21B 17/20	HUANG, Hongfa
E21B 25/02	(11) EP3542023	SMART, Moises Enrique
E21B 23/01	(21) EP17811681.0	PRESAS, David
(11) EP3692238	(47) 26.07.2023	(31) 201815988098
(21) EP18793365.0	(87) GB2017053474	201762598603 P
(47) 26.07.2023	24.05.2018	(32) 24.05.2018
(87) EP2018077367	(22) 17.11.2017	14.12.2017
11.04.2019	(54) SPOOLABLE SPLICE CONNECTOR	(33) United States of America
(22) 08.10.2018	AND METHOD FOR TUBING	United States of America
(54) DIRECTIONAL DRILLING	ENCAPSULATED CABLE	(51) E21B 29/02
(73) Priority Drilling Ltd	(73) Zilift Holdings Limited	E21B 43/26
(72) DINEEN, Michael	(72) COCHRAN, Jamie	(11) EP2242896
(31) 201716427	MCCANN, Richard	(21) EP09703527.3
(32) 06.10.2017	(31) 201662423310 P	(47) 26.07.2023
(33) United Kingdom	(32) 17.11.2016	(87) US2009031588
(51) E21B 7/124	(33) United States of America	30.07.2009
E21B 15/02	(51) E21B 19/00	(22) 21.01.2009
B63B 22/02	(11) EP3230552	(54) SYSTEM AND METHOD FOR
(11) EP2063067	(21) EP15820718.3	ENHANCED WELLBORE
(21) EP08166074.8	(47) 26.07.2023	PERFORATIONS

(73) Owen Oil Tools LP	E21B 34/06	(54) HISTORY MATCHING OF
(72) HANEY, Joseph	(11) EP2984279	HYDROCARBON PRODUCTION FROM
CLAY, Matthew	(21) EP14723648.3	HETEROGENOUS RESERVOIRS
MONTANEZ, Thomas, C.	(47) 26.07.2023	(73) Landmark Graphics Corporation
PRATT, Dan, W.	(87) US2014033722	(72) KHAN, Hasnain A.
(31) 356362	16.10.2014	SINGH, Ajay Pratap
22753	(22) 11.04.2014	(31) 201562241441 P
(32) 20.01.2009	(54) TELEMETRY OPERATED TOOLS FOR	(32) 14.10.2015
22.01.2008	CEMENTING A LINER STRING	(33) United States of America
(33) United States of America	(73) Weatherford Technology Holdings, LLC	<hr/>
United States of America	(72) DUTHIE, Jason	(51) E21B 43/12
(51) E21B 33/068	PURKIS, Daniel	E21B 17/20
E21B 19/22	GIROUX, Richard Lee	E21B 33/12
(11) EP3585975	JAFFREY, Ian	(11) EP3612713
(21) EP18711830.2	DALZELL, Richard	(21) EP18788267.5
(47) 26.07.2023	(31) 201414250162	(47) 26.07.2023
(87) EP2018054601	201461950421 P	(87) US2018027553
30.08.2018	201361841058 P	25.10.2018
(22) 23.02.2018	201361811007 P	(22) 13.04.2018
(54) WELL ACCESS APPARATUS AND	(32) 10.04.2014	(54) DUAL-WALLED COILED TUBING WITH
METHOD	10.03.2014	DOWNHOLE FLOW ACTUATED PUMP
(73) Quality Intervention Technology AS	28.06.2013	(73) Baker Hughes Holdings LLC
(72) SØRENSEN, Bjørn Bro	11.04.2013	(72) RAMSEY, Timothy T.
(31) 201702936	(33) United States of America	LIVESCU, Silviu
(32) 23.02.2017	United States of America	(31) 201715488923
(33) United Kingdom	United States of America	(32) 17.04.2017
<hr/>	United States of America	(33) United States of America
(51) E21B 33/129	(51) E21B 34/14	(51) E21B 43/16
E21B 17/10	E21B 23/04	C01B 21/04
(11) EP3183416	E21B 34/10	C01B 3/26
(21) EP15834541.3	(11) EP2956617	(11) EP3906356
(47) 26.07.2023	(21) EP13875250.6	(21) EP19832416.2
(87) NO2015000019	(47) 26.07.2023	(47) 26.07.2023
25.02.2016	(87) US2013026105	(87) EP2019087138
(22) 20.08.2015	21.08.2014	09.07.2020
(54) AN APPARATUS FOR SEALING A	(22) 14.02.2013	(22) 30.12.2019
BORE, A SYSTEM COMPRISING THE	(54) STACKED PISTON SAFETY	(54) SYSTEM AND METHOD FOR
APPARATUS AND A METHOD FOR	VALVE WITH DIFFERENT PISTON	ADJUSTING PRESSURE IN A
USING THE APPARATUS	DIAMETERS	RESERVOIR
(73) E Holstad Holding AS	(73) Halliburton Energy Services Inc.	(73) L 2 Consultancy B.V.
(72) JOHANNESSEN, Øyvind, Næss	(72) VICK, James Dan, Jr.	(72) VAN LOOKEREN CAMPAGNE,
SVARTVATN, Tommy	(51) E21B 41/00	Constant, Johan
BERGE, Thomas	(11) EP3177806	(31) 2024566
HEGGESTAD, Frode, Flugheim	(21) EP15829079.1	19150094
HOLSTAD, Evald	(47) 26.07.2023	(32) 23.12.2019
BODE, Tom, Henning	(87) US2015042463	02.01.2019
JOHANSEN, Thomas, Bergan	11.02.2016	(33) Netherlands
BYE, Arnulf	(22) 28.07.2015	European Patent Office (EPO)
(31) 20141002	(54) MODELING CASING/RISER WEAR	<hr/>
(32) 20.08.2014	AND FRICTION FACTOR USING	(51) E21B 43/34
(33) Norway	DISCRETE INVERSION TECHNIQUES	G01N 33/00
(51) E21B 33/134	(73) Landmark Graphics Corporation	B01D 17/02
E21B 36/00	(72) MITTAL, Manish Kumar	(11) EP4051868
(11) EP3913185	ANIKET, (None)	(21) EP19870054.4
(21) EP21185219.9	SAMUEL, Robello	(47) 26.07.2023
(47) 26.07.2023	(31) 201462032845 P	(87) IB2019001210
(22) 05.05.2017	(32) 04.08.2014	06.05.2021
(54) CHEMICAL HEAT SOURCES FOR USE	(33) United States of America	(22) 28.10.2019
IN DOWN-HOLE OPERATIONS	(51) E21B 43/00	(54) SEPARATION DEVICE AND
(73) Bisn Tec Ltd	G06F 30/20	ASSOCIATED METHOD AND
(72) Carragher, Paul	G06F 111/06	INSTALLATION
(31) 201705149	G06F 111/10	(73) TotalEnergies One Tech
201607912	(11) EP3362640	(72) BICKERT, Jacques
(32) 30.03.2017	(21) EP15906405.4	RUAU, Olivier
06.05.2016	(47) 26.07.2023	MASSOUE, Didier
(33) United Kingdom	(87) US2015066672	<hr/>
United Kingdom	20.04.2017	(51) E21B 44/00
(51) E21B 33/14	(22) 18.12.2015	E21B 41/00
E21B 43/10		E21B 7/00
		(11) EP3334897
		(21) EP16837470.0

(47) 26.07.2023	(11) EP3992425	18.06.2020
(87) US2016044132	(21) EP21205209.6	(22) 11.12.2018
23.02.2017	(47) 26.07.2023	(54) LATTICE STRUCTURES FOR USE IN
(22) 27.07.2016	(22) 28.10.2021	A DAMPING SYSTEM FOR A TURBINE
(54) BORE PENETRATION DATA	(54) MODULAR PUMP	BLADE, VIBRATION DAMPING
MATCHING	(73) Suntec Industries France	SYSTEM FOR A TURBINE BLADE AND
(73) Geoquest Systems B.V.	(72) RENARD, Jérôme	TURBINE BLADE
(72) BRANNIGAN, James	FAUVIN, Valentin	(73) GENERAL ELECTRIC COMPANY
VEERAGONI, Suresh	(31) 2011104	(72) SUN, Changjie
LILAND, Eimund	(32) 29.10.2020	CHAKRABARTI, Suryarghya
(31) 201562205356 P	(33) France	<hr/>
(32) 14.08.2015	(51) F01D 5/10	(51) F01D 5/18
(33) United States of America	F01D 5/16	B22F 5/04
<hr/>	F04D 29/66	(11) EP3854992
(51) E21B 47/00	(11) EP3926140	(21) EP21150442.8
G01V 3/18	(21) EP21167526.9	(47) 26.07.2023
G01V 3/38	(47) 26.07.2023	(22) 06.01.2021
G01V 3/28	(22) 08.04.2021	(54) TURBINE ROTOR BLADE
(11) EP3482042	(54) PRESSURIZED DAMPING FLUID	(73) General Electric Company
(21) EP16912858.4	INJECTION FOR DAMPING TURBINE	(72) SNIDER, Zachary John
(47) 26.07.2023	BLADE VIBRATION	(31) 202016749158
(87) US2016046858	(73) General Electric Company	(32) 22.01.2020
15.02.2018	(72) DELVAUX, John McConnell	(33) United States of America
(22) 12.08.2016	CHAKRABARTI, Suryarghya	<hr/>
(54) TOOL AND METHOD TO MAKE	LANG, Claire Fridtjof	(51) F01D 5/18
HIGH RESOLUTION AND HIGH	(31) 202016902343	B23P 15/04
PENETRATION MEASUREMENT OF	(32) 16.06.2020	(11) EP3396108
CORROSION	(33) United States of America	(21) EP18169573.5
(73) Halliburton Energy Services, Inc.	(51) F01D 5/14	(47) 26.07.2023
(72) DONDERICI, Burkay	B23P 15/04	(22) 26.04.2018
KHALAJ AMINEH, Reza	F01D 5/18	(54) METHOD OF PROVIDING A COOLING
SAN MARTIN, Luis Emilio	F01D 5/28	STRUCTURE FOR A GAS TURBINE
<hr/>	(11) EP4010561	HOT GAS PATH COMPONENT
(51) E21B 47/12	(21) EP20764181.2	(73) General Electric Company
H04L 67/12	(47) 26.07.2023	(72) MORGAN, Victor John
(11) EP3642451	(87) US2020045191	GERGELY, George Andrew
(21) EP18821217.9	11.02.2021	(31) 201715497825
(47) 26.07.2023	(22) 06.08.2020	(32) 26.04.2017
(87) US2018037975	(54) AIRFOIL WITH THERMALLY	(33) United States of America
27.12.2018	CONDUCTIVE PINS	<hr/>
(22) 18.06.2018	(73) General Electric Company	(51) F01D 5/18
(54) DOWNHOLE DATA TRANSMISSION	(72) IVERSON, Jared	F01D 5/22
AND SURFACE SYNCHRONIZATION	HAMMER, Kimberly	(11) EP3163023
(73) Schlumberger Technology B.V.	WILLSON, Patrick	(21) EP16195004.3
(72) CLOSE, Alex David	DYSON, Thomas Earl	(47) 26.07.2023
THOMSON, William James Robert	SUZUKI, Akane	(22) 21.10.2016
KOTIAN, Nikhil	RAWCLIFFE, Gerald	(54) TURBINE BUCKET WITH COOLING
SAMUEL, Prince Mathew	(31) 201916533393	PASSAGE IN THE SHROUD
RAVELOSON, Nirina David	(32) 06.08.2019	(73) General Electric Company
(31) 201762522740 P	(33) United States of America	(72) TAYLOR, Zachary James
(32) 21.06.2017	(51) F01D 5/16	JAIWAL, Shashwat Swami
(33) United States of America	(11) EP3894665	CHOUHAN, Rohit
<hr/>	(21) EP18943159.6	(31) 201514923685
(51) E21D 11/08	(47) 26.07.2023	(32) 27.10.2015
(11) EP3625437	(87) US2018065051	(33) United States of America
(21) EP18730111.4	18.06.2020	<hr/>
(47) 26.07.2023	(22) 11.12.2018	(51) F01D 5/20
(87) IB2018053379	(54) TURBINE BLADE	(11) EP3704353
22.11.2018	(73) General Electric Company	(21) EP17889519.9
(22) 15.05.2018	(72) ERTAS, Bugra, Han	(47) 26.07.2023
(54) PRE-CAST SEGMENT FOR TUNNELS	CHAKRABARTI, Suryarghya	(87) US2017059211
AND METHOD FOR PRODUCING	(51) F01D 5/16	09.05.2019
AND MONITORING SAID PRE-CAST	F01D 25/06	(22) 31.10.2017
SEGMENT	B22F 5/04	(54) TURBINE BLADE WITH TIP TRENCH
(73) Safecertifiedstructure Tecnologia S.p.A.	(11) EP3894664	(73) Siemens Energy Global GmbH & Co. KG
(72) MANCINI, Giuseppe	(21) EP18942872.5	(72) AKTURK, Ali
(31) 201700052365	(47) 26.07.2023	MOHAN, Krishan
(32) 15.05.2017	(87) US2018065052	MONK, David
(33) Italy		MILLER, Andrew
<hr/>		<hr/>
(51) F01C 21/10		(51) F01D 5/30
F04C 2/10		F01D 5/28

(11) EP3751103	(54) GAS TURBINE ENGINE WITH BLADE	(54) TRANSLATING FLUID COUPLING
(21) EP20179070.6	OUTER AIR SEAL	DEVICE
(47) 26.07.2023	(73) Raytheon Technologies Corporation	(73) Raytheon Technologies Corporation
(22) 09.06.2020	(72) CIAMARRA, Christina G.	(72) DAVIS, Michael M
(54) CERAMIC MATRIX COMPOSITE	(31) 201916562527	NASMAN, Benjamin
ROTOR BLADE ATTACHMENT	(32) 06.09.2019	(31) 201916434532
(73) Raytheon Technologies Corporation	(33) United States of America	(32) 07.06.2019
(72) MCCAFFREY, Michael G	(51) F01D 9/04	(33) United States of America
(31) 201916441676	F01D 11/08	(51) F01D 11/08
(32) 14.06.2019	F01D 25/24	F01D 11/18
(33) United States of America	(11) EP3425168	F01D 11/24
(51) F01D 9/02	(21) EP18175826.9	F01D 25/24
F01D 11/00	(47) 26.07.2023	F01D 25/32
F01D 25/26	(22) 04.06.2018	(11) EP3994340
(11) EP3222820	(54) TURBINE SHROUD ASSEMBLY	(21) EP20747038.6
(21) EP17162637.7	(73) General Electric Company	(47) 26.07.2023
(47) 26.07.2023	(72) DELVAUX, John McConnell	(87) FR2020051108
(22) 23.03.2017	TAXACHER, Glenn Curtis	07.01.2021
(54) TRANSITION DUCT ASSEMBLY	HAFNER, Matthew Troy	(22) 25.06.2020
(73) General Electric Company	(31) 201715623696	(54) IMPROVED AIRCRAFT TURBINE
(72) MCMAHAN, Kevin Weston	(32) 15.06.2017	SHROUD COOLING DEVICE
LEBEGUE, Jeffrey Scott	(33) United States of America	(73) SAFRAN AIRCRAFT ENGINES
FLANAGAN, James Scott	(51) F01D 11/00	(72) QUENNEHEN, Lucien, Henri, Jacques
(31) 201615079083	F01D 11/02	TABLEAU, Nicolas, Paul
(32) 24.03.2016	B23P 6/00	CONGRATEL, Sébastien, Serge, Francis
(33) United States of America	(11) EP3042043	DANIS, Antoine, Claude, Michel, Etienne
(51) F01D 9/04	(21) EP14758008.8	JARROSSAY, Clément
F01D 5/18	(47) 26.07.2023	(31) 1907464
(11) EP3670841	(87) US2014049549	(32) 04.07.2019
(21) EP19207526.5	12.03.2015	(33) France
(47) 26.07.2023	(22) 04.08.2014	(51) F01D 11/22
(22) 06.11.2019	(54) TURBOMACHINE BUCKET	F01D 5/22
(54) AIRFOIL WITH HYBRID SKINCORE	HAVING ANGEL WING SEAL FOR	(11) EP4015880
PASSAGE RESUPPLY	DIFFERENTLY SIZED DISCOURAGERS	(21) EP21213053.8
(73) Raytheon Technologies Corporation	AND RELATED FITTING METHOD	(47) 26.07.2023
(72) ARISI, Allan N.	(73) General Electric Company	(22) 08.12.2021
PROPHETER-HINCKLEY, Tracy A.	(72) SOUTHER, Ronald Lee	(54) SEALING ARRANGEMENT FOR USE
MONGILLO, Dominic J.	LEWIS, Gareth William David	IN A GAS TURBINE AND ROTOR
(31) 201916532594	GRAFITTI, Andrew Daniel	ASSEMBLY FOR A GAS TURBINE
201862758096 P	LOMAS, Jonathan Matthew	(73) General Electric Company
(32) 06.08.2019	ROMAN-MORALES, Felipe	(72) BERRY, Jonathan Dwight
09.11.2018	(31) 201314017690	(31) 202017126333
(33) United States of America	(32) 04.09.2013	(32) 18.12.2020
United States of America	(33) United States of America	(33) United States of America
(51) F01D 9/04	(51) F01D 11/00	(51) F01D 11/22
F01D 5/28	F01D 11/08	F04D 29/08
F01D 25/24	F01D 25/24	F04D 29/16
(11) EP4006307	(11) EP3712384	F16J 15/3288
(21) EP21207463.7	(21) EP20163591.9	F01D 5/22
(47) 26.07.2023	(47) 26.07.2023	(11) EP4015779
(22) 10.11.2021	(22) 17.03.2020	(21) EP21212967.0
(54) VANE ARC SEGMENT WITH CURVED	(54) BLADE OUTER AIR SEAL WITH SEAL	(47) 26.07.2023
RADIAL FLANGE	CARRIER	(22) 07.12.2021
(73) Raytheon Technologies Corporation	(73) Raytheon Technologies Corporation	(54) SEALING ARRANGEMENT FOR USE
(72) SOBANSKI, Jon E.	(72) WHITNEY, Daniel J.	IN A TURBOMACHINE AND ROTOR
READ, Kathryn S.	BARKER, William M.	ASSEMBLY FOR A TURBOMACHINE
(31) 202063113276 P	CLARK, Thomas E.	(73) General Electric Company
(32) 13.11.2020	McGARRAH, Craig R.	(72) BERRY, Jonathan Dwight
(33) United States of America	(31) 201916356111	(31) 202017126301
(51) F01D 9/04	(32) 18.03.2019	(32) 18.12.2020
F01D 11/08	(33) United States of America	(33) United States of America
F01D 11/12	(51) F01D 11/00	(51) F01D 11/22
F01D 21/04	F01D 25/18	F16J 15/43
F01D 25/24	F16J 15/34	F16J 15/3284
(11) EP3789587	(11) EP3748129	F01D 5/22
(21) EP20192940.3	(21) EP20178614.2	(11) EP4015780
(47) 26.07.2023	(47) 26.07.2023	(21) EP21212968.8
(22) 26.08.2020	(22) 05.06.2020	(47) 26.07.2023

(22) 07.12.2021	Bunker, Ronald Scott	(32) 16.11.2018
(54) FLOW RESTRICTING ARRANGEMENT FOR USE IN A TURBOMACHINE AND ROTOR ASSEMBLY FOR A TURBOMACHINE	(31) 765372 (32) 22.04.2010 (33) United States of America	(33) France (51) F01D 25/18 (11) EP3412878 (21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(73) General Electric Company	(51) F01D 25/16 F01D 25/18	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(72) BERRY, Jonathan Dwight	F16J 15/34	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(31) 202017126276	F01D 11/00	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(32) 18.12.2020	(11) EP3783203	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(33) United States of America	(21) EP20189926.7	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(51) F01D 17/16	(47) 26.07.2023	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(11) EP3542033	(22) 06.08.2020	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(21) EP16922031.6	(54) GAS TURBINE ENGINE COMPONENT COMPRISING A RADIAL SEAL ARRANGEMENT WITH AXIALLY ELONGATED OIL COOLED RUNNER	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(47) 26.07.2023	(73) Raytheon Technologies Corporation	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(87) CN2016106323	(72) MILLER, Jonathan Logan	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
24.05.2018	ULLAH, M Rifat	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(22) 18.11.2016	(31) 201916546436	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(54) LOW-FRICTION INLET NOZZLE FOR A TURBOEXPANDER	(32) 21.08.2019	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(73) L'Air Liquide, Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude	(33) United States of America	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(72) LIU, Jingfeng	(51) F01D 25/16	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(51) F01D 17/16	F02C 6/12	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(11) EP3748135	(11) EP3540184	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(21) EP20177667.1	(21) EP19162841.1	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(47) 26.07.2023	(47) 26.07.2023	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(22) 01.06.2020	(22) 14.03.2019	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(54) BUSHING FOR VARIABLE VANE IN A GAS TURBINE ENGINE	(54) RADIAL - AXIAL TURBOEXPANDER	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(73) Raytheon Technologies Corporation	(73) Nuovo Pignone Tecnologie - S.r.l.	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(72) STOYANOV, Pantcho P.	(72) MARCHI, Roberto	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
MAKOWIEC, Mary E.	SASSANELLI, Giuseppe	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(31) 201916431334	DI FESTA, Paola	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(32) 04.06.2019	CANGIOLI, Francesco	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(33) United States of America	IURISCI, Giuseppe	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(51) F01D 21/04	BILIOTTI, Davide	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
F02C 7/277	(31) 201800003550	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(11) EP3885538	(32) 14.03.2018	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(21) EP21160517.5	(33) Italy	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(47) 26.07.2023	(51) F01D 25/16	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(22) 03.03.2021	F02C 7/06	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(54) AIR TURBINE STARTER FOR STARTING AN ENGINE AND METHOD OF FORMING A CONTAINMENT STRUCTURE FOR AN AIR TURBINE STARTER	(11) EP4124724	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(73) Unison Industries LLC	(21) EP22181134.2	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(72) DRANSCHAK, David	(47) 26.07.2023	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
MEYERS, Shiloh	(22) 27.06.2022	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
ASDEV, Jasraj	(54) ROLLER BEARING ARRANGEMENT FOR A GAS TURBINE ENGINE	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
PATIL, Sharad	(73) Rolls-Royce plc	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
RODRIGUEZ, Eliel	(72) Hicks, Robert	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
NAYAK, Subrata	(31) 202110451	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(31) 202011013207	(32) 21.07.2021	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(32) 26.03.2020	(33) United Kingdom	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(33) India	(51) F01D 25/16	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(51) F01D 25/12	F16C 27/04	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
F01D 5/18	F01D 21/04	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
F02C 7/12	(11) EP3880940	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(11) EP2381070	(21) EP19831779.4	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(21) EP11155087.7	(47) 26.07.2023	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(47) 26.07.2023	(87) FR2019052699	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(22) 18.02.2011	22.05.2020	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(54) Hot gas path component cooling system	(22) 14.11.2019	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(73) General Electric Company	(54) DEVICE FOR CENTRING AND GUIDING IN ROTATION A ROTATING PART WITH INTERLACED ARMS	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
(72) Itzel, Gary Michael	(73) SAFRAN AIRCRAFT ENGINES	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
Lacy, Benjamin Paul	(72) SERVANT, Régis Eugène Henri	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
	DESOMBRE, Didier Gabriel Bertrand	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America
	(31) 1860611	(21) EP18176150.3 (47) 26.07.2023 (22) 05.06.2018 (54) OIL FILTRATION SYSTEM (73) Raytheon Technologies Corporation (72) LEQUE, Nicholas D. (31) 201715613865 (32) 05.06.2017 (33) United States of America

F01M 1/16	B01D 24/00	(72) KULKARNI, Parag Prakash
F16N 7/34	F02B 47/00	DAVIS, Jr., Lewis Berkley
F16N 7/38	F02B 51/02	REED, Robert Joesph
F16N 13/16	F02B 51/04	(31) 201514753077
(11) EP3724467	F02M 25/12	(32) 29.06.2015
(21) EP18889474.5	F02M 27/02	(33) United States of America
(47) 26.07.2023	F02M 27/04	(51) F02C 7/045
(87) DK2018050355	F02M 35/02	F02K 1/82
20.06.2019	F02M 26/00	F02C 6/08
(22) 13.12.2018	(11) EP3791054	F02C 7/32
(54) A LARGE SLOW-RUNNING TWO-STROKE ENGINE AND A METHOD OF LUBRICATING IT	(21) EP18847139.5	G10K 11/175
(73) Hans Jensen Lubricators A/S	(47) 26.07.2023	G10K 11/16
(72) BAK, Peer	(87) EP2018025322	G10K 11/178
(31) PA201770938	27.06.2019	B64D 33/02
(32) 13.12.2017	(22) 18.12.2018	F04D 29/66
(33) Denmark	(54) A CLOSED CYCLE COMBUSTION SYSTEM FOR ENDOTHERMIC ENGINES	(11) EP3762595
(51) F01M 11/04	(73) Smorra, Ferdinando	(21) EP19713106.3
F01M 13/04	Sangermano, Luca	(47) 26.07.2023
(11) EP3980629	Sangermano, Paolo	(87) FR2019050496
(21) EP19732873.5	(72) Sangermano, Luca	12.09.2019
(47) 26.07.2023	Smorra, Ferdinando	(22) 06.03.2019
(87) AT2019060189	Sangermano, Paolo	(54) ACTIVE DEVICE FOR ATTENUATING ACOUSTIC EMISSIONS FOR A TURBOJET COMPRISING CONTROLLED TURBINES
10.12.2020	(31) 201700147860	(73) Safran Nacelles
(22) 07.06.2019	(32) 21.12.2017	(72) RAMI, Jean-Paul
(54) INTERNAL COMBUSTION ENGINE AND METHOD FOR OPERATING AN INTERNAL COMBUSTION ENGINE OF THIS TYPE	(33) Italy	ALLARD, Ambre
(73) Innio Jenbacher GmbH & Co OG	(51) F02B 43/10	GOULARD, Jean-Baptiste
(72) CHVATAL, Susanne	F02M 21/02	ROBERT, Raymond
WALL, Günther	F02M 23/00	MICHEAU, Philippe
HOLECEK, Jakob	(11) EP4026996	BERRY, Alain
(51) F01M 13/04	(21) EP21212815.1	HURLIN, Hervé
(11) EP3987160	(47) 26.07.2023	VERSAEVEL, Marc
(21) EP20728392.0	(22) 07.12.2021	DRANT, Julien
(47) 26.07.2023	(54) COMBUSTION ENGINE AND METHOD FOR OPERATING SAME	(31) 1852024
(87) EP2020000095	(73) PGES GmbH	(32) 08.03.2018
24.12.2020	(72) HERDIN, Rüdiger	(33) France
(22) 13.05.2020	(31) 500042021	(51) F02C 7/32
(54) OIL RETURN VALVE FOR A CRANKCASE VENTILATION SYSTEM	(32) 07.01.2021	F01D 25/28
(73) DEUTZ Aktiengesellschaft	(33) Austria	(11) EP3508711
(72) WERNER, Thomas	(51) F02B 63/04	(21) EP18214764.5
SLIWA, Marco	F16D 3/00	(47) 26.07.2023
KLOSTERBERG, Johannes	F16K 5/00	(22) 20.12.2018
(31) 102019004377	G01M 7/00	(54) SLIDING MOUNT
(32) 19.06.2019	H02K 5/24	(73) Hamilton Sundstrand Corporation
(33) Germany	H02K 7/18	(72) MARCONI, Gary R.
(51) F01N 1/00	(11) EP4045782	GRADISCHER, Glenn
F01N 3/10	(21) EP19794590.0	ZIMMERMAN, Elise N.
F01N 1/16	(47) 26.07.2023	RICKIS, Aaron
B60P 3/00	(87) FI2019050735	CORETTO, August M.
F01N 9/00	22.04.2021	MAROCCHINI, Francis P.
B60H 1/00	(22) 15.10.2019	(31) 201715852803
(11) EP3803069	(54) ENGINE-GENERATOR SET	(32) 22.12.2017
(21) EP18811647.9	(73) Wärtsilä Finland Oy	(33) United States of America
(47) 26.07.2023	(72) OUNI, Antti	(51) F02D 13/02
(87) IB2018001253	LOKASAARI, Tero	F02D 41/00
12.12.2019	OJALAMMI, Juha	F02D 15/00
(22) 05.06.2018	(51) F02C 6/08	F02M 21/02
(54) TRANSPORT REFRIGERATION UNIT EXHAUST SYSTEM MANAGEMENT FOR LOW NOISE EMISSIONS	F02C 9/18	F02D 19/02
(73) Carrier Corporation	F01D 25/30	(11) EP3256704
(72) RENAULT, Loïc	(11) EP3112635	(21) EP16748515.0
(51) F02B 43/10	(21) EP16175335.5	(47) 26.07.2023
	(47) 26.07.2023	(87) CA2016050122
	(22) 20.06.2016	18.08.2016
	(54) POWER GENERATION SYSTEM EXHAUST COOLING	(22) 10.02.2016
	(73) General Electric Company	(54) REDUCING UNBURNED HYDROCARBON EMISSIONS IN

GASEOUS FUELLED LEAN-BURN ENGINES	TAKEDA, Tomohiko	G01M 15/11
(73) Westport Fuel Systems Canada Inc.	OSHITA, Wasantha	(11) EP3569851
(72) HILL, Philip G.	(31) 2016200899	(21) EP19174747.6
MCTAGGART-COWAN, Gordon P.	(32) 12.10.2016	(47) 26.07.2023
PATYCHUK, Bronson D.	(33) Japan	(22) 15.05.2019
WU, Ning	(51) F02D 35/02	(54) METHOD AND SYSTEM FOR
(31) 2881529	F02D 41/00	NON-FUNCTIONAL COMBUSTION
(32) 10.02.2015	F02D 41/28	CHAMBER DETECTION
(33) Canada	(11) EP3283748	(73) Pratt & Whitney Canada Corp.
(51) F02D 19/02	(21) EP16721991.4	(72) GAGNON - MARTIN, David
F02D 41/00	(47) 26.07.2023	LANKTREE, Michael
F01N 3/10	(87) US2016027622	VILLENEUVE, Bruno
F02D 41/02	20.10.2016	(31) 201815980724
F02D 41/14	(22) 14.04.2016	(32) 15.05.2018
F01N 9/00	(54) COMBUSTION PRESSURE FEEDBACK	(33) United States of America
F02D 41/22	BASED ENGINE CONTROL WITH	(51) F02D 41/26
F02D 41/24	VARIABLE RESOLUTION SAMPLING	B25F 5/00
(11) EP3705707	WINDOWS	F02B 77/08
(21) EP20160120.0	(73) Woodward, Inc.	F02D 41/06
(47) 26.07.2023	(72) CARLSON, Jeffrey	F02D 41/24
(22) 28.02.2020	BARTA, Jason	F02N 3/00
(54) METHOD AND ASSEMBLY FOR	HAMPSON, Gregory James	F02P 9/00
CONTROLLING FUEL SUPPLY	(31) 201562147405 P	B27B 17/00
FOR A SPARK IGNITION INTERNAL	(32) 14.04.2015	B23D 59/00
COMBUSTION ENGINE, IN	(33) United States of America	F02D 41/28
PARTICULAR FOR A NATURAL GAS	(51) F02D 41/00	F02N 11/08
FUELED ENGINE	F02D 41/02	F02N 3/02
(73) FPT Motorenforschung AG	F02D 41/30	F02P 17/00
(72) GIANELLA, Matteo	F02D 41/14	(11) EP1875060
CAGNAZZO, Emanuele	(11) EP3942170	(21) EP06717128.0
(31) 201900003269	(21) EP19715008.9	(47) 26.07.2023
(32) 06.03.2019	(47) 26.07.2023	(87) SE2006050044
(33) Italy	(87) EP2019056984	05.10.2006
(51) F02D 23/00	24.09.2020	(22) 28.03.2006
F02D 41/04	(22) 20.03.2019	(54) DEVICE AND METHOD FOR
F02D 41/00	(54) A METHOD AND A CONTROL SYSTEM	COMMUNICATION BETWEEN A
F02B 39/10	FOR CONTROLLING AN INTERNAL	CONTROL SYSTEM FOR SMALL
F02D 41/14	COMBUSTION ENGINE	INTERNAL COMBUSTION ENGINES
F02D 41/30	(73) Volvo Penta Corporation	AND AN EXTERNAL COMPUTER
F02B 37/04	(72) ROMEBORN, Magnus	(73) SEM Aktiebolag
(11) EP3719288	(51) F02D 41/02	(72) OLSSON, Johan
(21) EP17933628.4	F02D 41/06	(31) 0500697
(47) 26.07.2023	F02D 41/14	(32) 29.03.2005
(87) JP2017042751	F01N 3/021	(33) Sweden
06.06.2019	F01N 3/10	(51) F02D 45/00
(22) 29.11.2017	F01N 3/20	(11) EP3929424
(54) CONTROL METHOD AND CONTROL	F01N 9/00	(21) EP20770641.7
DEVICE FOR VEHICULAR INTERNAL	F01N 13/00	(47) 26.07.2023
COMBUSTION ENGINE	(11) EP4030041	(87) JP2020006042
(73) Renault s.a.s	(21) EP21152288.3	17.09.2020
Nissan Motor Co., Ltd.	(47) 26.07.2023	(22) 17.02.2020
(72) ECHIGO, Ryo	(22) 19.01.2021	(54) STRADDLED VEHICLE ENGINE UNIT
(51) F02D 29/02	(54) SYSTEMS AND METHODS FOR	AND STRADDLED VEHICLE
F02D 41/04	THERMAL MANAGEMENT OF	(73) YAMAHA HATSUDOKI KABUSHIKI
F02D 41/10	AFTERTREATMENT SYSTEMS	KAISHA
F02D 11/10	(73) Cummins Emission Solutions Inc.	DENSO CORPORATION
F02D 41/14	(72) Brahma, Avra	(72) HOTTA, Minoru
(11) EP3527807	Mohanty, Rakesh	KAWASHIMA, Nobuyuki
(21) EP17860931.9	Gong, Jinqian	KINOSHITA, Hisatoshi
(47) 26.07.2023	(51) F02D 41/22	NONOGAKI, Yoshihiko
(87) JP2017036783	F02D 41/14	IWAMOTO, Kazuteru
19.04.2018	F02B 77/08	(31) 2019045538
(22) 11.10.2017	F02D 41/38	(32) 13.03.2019
(54) FUEL-SAVING CONTROL DEVICE AND	F02D 41/40	(33) Japan
FUEL-SAVING CONTROL METHOD	F02B 53/00	(51) F02D 45/00
(73) Isuzu Motors Limited	F02B 53/02	E02F 9/20
(72) KIKUCHI, Katsunori	F01C 1/22	E02F 9/22
	G01M 15/04	F02D 29/04

F02D 31/00	(72) JODET, Norman, Bruno, André	H01F 7/18
F02D 41/02	GONZALEZ, Jérémy, Paul, Francisco	F16K 37/00
F15B 21/08	(31) 1904653	F02D 41/20
(11) EP3441598	(32) 03.05.2019	(11) EP3467298
(21) EP16890898.6	(33) France	(21) EP17806127.1
(47) 26.07.2023	(51) F02K 3/06	(47) 26.07.2023
(87) JP2016057681	F04D 29/32	(87) JP2017010292
14.09.2017	F02C 7/36	07.12.2017
(22) 10.03.2016	(11) EP3734052	(22) 15.03.2017
(54) WORK MACHINE	(21) EP20175433.0	(54) DEVICE FOR CONTROLLING HIGH-PRESSURE FUEL SUPPLY PUMP, AND HIGH-PRESSURE FUEL SUPPLY PUMP
(73) Hitachi Construction Machinery Co., Ltd.	(47) 26.07.2023	(73) Hitachi Astemo, Ltd.
(72) EDAMURA, Manabu	(22) 29.06.2012	(72) SUGANAMI, Masayuki
ISHIHARA, Shinji	(54) EFFICIENT, LOW PRESSURE RATIO PROPULSOR FOR GAS TURBINE ENGINES	ARITOMI, Shunsuke
NISHIKAWA, Shinji	(73) Raytheon Technologies Corporation	WATANABE, Masanori
HOSHINO, Masatoshi	(72) JIANG, Jun	KUSAKABE Ryo
ISHIKAWA, Kouji	ROSE, Becky E.	(31) 2016108093
IMURA, Shinya	BIFULCO, Anthony R.	(32) 31.05.2016
(51) F02G 1/055	ELLIOTT, Jason	(33) Japan
F23D 14/22	GALLAGHER, Edward J.	(51) F03B 11/00
(11) EP4015811	(31) 201113176255	F03B 11/02
(21) EP20215681.6	(32) 05.07.2011	F03B 13/10
(47) 26.07.2023	(33) United States of America	(11) EP3690227
(22) 18.12.2020	(51) F02M 26/34	(21) EP20155218.9
(54) A SYSTEM FOR RECOVERY OF ENERGY FROM A RESIDUAL GAS	F02N 9/04	(47) 26.07.2023
(73) Swedish Stirling AB	(11) EP3980640	(22) 03.02.2020
(72) Lie Gustavsson, Victor	(21) EP19729511.6	(54) WATER TURBINE AND/OR WATER PUMP
Salomonsson, Krister	(47) 26.07.2023	(73) DIVE Turbinen GmbH & Co. KG
Svensson, Arne	(87) EP2019064726	(72) FELLA, Günter
Grimfeldt, Ulrika	10.12.2020	(31) 102019102620
Westenberg, Heije	(22) 05.06.2019	(32) 01.02.2019
Grant, Ann	(54) A METHOD FOR STARTING OPERATION OF AN INTERNAL COMBUSTION ENGINE	(33) Germany
Lenblad, Johan	(73) VOLVO TRUCK CORPORATION	(51) F03B 13/18
(51) F02K 1/12	(72) CARLÉN ANDERSSON, Johan	F03B 17/02
F02K 1/82	RAHM, Fredrik	(11) EP4118318
F02K 3/10	(51) F02M 26/41	(21) EP22705015.0
(11) EP4004358	F02M 26/12	(47) 26.07.2023
(21) EP20775387.2	F02M 26/21	(87) DK2022050020
(47) 26.07.2023	F02M 26/24	01.09.2022
(87) FR2020051504	F02M 26/28	(22) 08.02.2022
04.03.2021	F02M 26/30	(54) WAVE ENERGY PLANT
(22) 27.08.2020	F02M 26/32	(73) Christensen, Henrik Frans
(54) CONVERGENT-DIVERGENT FLAP PAIR FOR A VARIABLE-GEOMETRY TURBOJET ENGINE NOZZLE, THE FLAPS OF WHICH EACH COMPRISE A COOLING AIR CIRCULATION DUCT	F02F 1/26	(72) CHRISTENSEN, Henrik Frans
(73) SAFRAN AIRCRAFT ENGINES	F02F 1/36	(31) PA202170088
(72) LACOMBE, Florent, Luc	(11) EP3889417	(32) 25.02.2021
LEGLAYE, François	(21) EP21159265.4	(33) Denmark
OBLAZA, Sylvain, Marcel	(47) 26.07.2023	(51) F03D 1/00
MALBOIS, Pierre, André, Gabriel	(22) 25.02.2021	B63B 21/56
KOHN, Thierry	(54) ENGINE COMPRISING EGR SYSTEM AND AUTOMOBILE	(11) EP3078846
(31) 1909545	(73) MAZDA MOTOR CORPORATION	(21) EP15382116.0
(32) 30.08.2019	(72) KARIYA, Takashi	(47) 26.07.2023
(33) France	FUJIIHARA, Shinji	(22) 13.03.2015
(51) F02K 1/72	KINOSHITA, Hiroshi	(54) WIND TURBINE PARTS HANDLING METHOD AND DEVICE
F02K 1/82	TOMINAGA, Takayuki	(73) GE Renewable Technologies Wind B.V.
(11) EP3963197	TAKAHATA, Tatsuya	(72) Aguiló, Borja
(21) EP20715880.9	(31) 2020065764	Lanca Coelho, Miguel
(47) 26.07.2023	(32) 01.04.2020	(51) F03D 1/06
(87) EP2020059552	(33) Japan	F03D 80/30
12.11.2020	(51) F02M 59/36	(11) EP3483424
(22) 03.04.2020	F02M 59/44	(21) EP17201644.6
(54) THRUST REVERSER CASCADE INCLUDING AN ACOUSTIC TREATMENT	F02M 59/46	(47) 26.07.2023
(73) SAFRAN AIRCRAFT ENGINES	F02M 65/00	(22) 14.11.2017
	F02D 41/38	(54) A WIND TURBINE BLADE AND A WIND TURBINE
	F16K 31/06	

(73) Siemens Gamesa Renewable Energy A/S	CARVAJAL BRICIO, María Dolores	(21) EP17837862.6
(72) Christiansen, Thomas Lehrmann	BOHÓRQUEZ RODRÍGUEZ, José Antonio	(47) 26.07.2023
Girolamo, Donato	CURCHO ZARAGOZA, María del Mar	(87) EP2017082061
(51) F03D 7/02	ANDÚJAR MÁRQUEZ, José Manuel	25.10.2018
(11) EP3816434	SEGURA MANZANO, Francisca	(22) 08.12.2017
(21) EP20200725.8	(31) 201630500	(54) METHOD FOR INSTALLING
(47) 26.07.2023	(32) 20.04.2016	COMPONENTS OF A WIND TURBINE
(22) 08.10.2020	(33) Spain	AND LIFTING ARRANGEMENT
(54) WIND TURBINE AND ASSOCIATED METHOD	(51) F03D 9/18	(73) Siemens Gamesa Renewable Energy A/S
(73) Siemens Gamesa Renewable Energy A/S	F24H 7/00	(72) LARSEN, Hans Rico
(72) Couturier, Philippe	F28D 20/00	MASTRUP, Aage
(31) 201916665186	(11) EP4030053	QUIST, Niclas Damgaard
(32) 28.10.2019	(21) EP20875221.2	(31) 102017206527
(33) United States of America	(47) 26.07.2023	(32) 18.04.2017
(51) F03D 7/02	(87) CN2020094188	(33) Germany
(11) EP3997334	15.04.2021	(51) F03D 80/00
(21) EP20780943.5	(22) 03.06.2020	(11) EP2582968
(47) 26.07.2023	(54) ENERGY STORAGE APPARATUS, ENERGY STORAGE SYSTEM, ENERGY STORAGE METHOD, AND WIND TURBINE	(21) EP11796404.9
(87) EP2020075453	(73) Xinjiang Goldwind Science & Technology Co., Ltd.	(47) 26.07.2023
08.04.2021	(72) WANG, Feng	(87) US2011040596
(22) 11.09.2020	LIU, Yan	22.12.2011
(54) CONTROL DEVICE AND METHOD OF CONTROLLING A WIND TURBINE	ZHANG, Caisheng	(22) 15.06.2011
(73) Siemens Gamesa Renewable Energy A/S	XU, Kexin	(54) FACILITY FOR PRODUCING ELECTRICAL ENERGY FROM WIND
(72) NIELSEN, Anders Vangsgaard	BAI, Liang	(73) Baker, Brookes H.
(31) 19200503	(31) 201910969885	(72) Baker, Brookes H.
(32) 30.09.2019	(32) 12.10.2019	(31) 397665 P
(33) European Patent Office (EPO)	(33) China	201113161471
(51) F03D 7/02	(51) F03D 9/19	(32) 15.06.2010
(11) EP3757384	F03D 9/25	15.06.2011
(21) EP20182037.0	(11) EP3936715	(33) United States of America
(47) 26.07.2023	(21) EP21181441.3	United States of America
(22) 24.06.2020	(47) 26.07.2023	(51) F03D 80/80
(54) SYSTEMS AND METHODS FOR PITCHING OF ROTOR BLADES	(22) 24.06.2021	F03D 13/10
(73) General Electric Company	(54) WIND PARK WITH LIMITED TRANSMISSION CAPACITY	F03D 13/20
(72) Done, Vamshidhar	(73) Vattenfall AB	(11) EP2918828
Kathayanatt, Savio Sebastian	(72) HJORT, Thomas	(21) EP14158707.1
Kachhia, Bhavesh	MEYER, Karl	(47) 26.07.2023
Anandan, Krishna Prashanth	KORDKHEILI, Reza Ahmadi	(22) 11.03.2014
(31) 201916453037	SANGSTER, Michael	(54) Cable support arrangement
(32) 26.06.2019	(31) PA202070479	(73) Siemens Gamesa Renewable Energy A/S
(33) United States of America	(32) 10.07.2020	(72) Olesen, Joern
(51) F03D 9/00	(33) Denmark	(51) F03D 80/80
H02S 20/30	(51) F03D 9/25	F03D 80/60
F03D 13/20	F03D 15/00	(11) EP3663576
F03D 9/11	(11) EP3899255	(21) EP18211111.2
F03D 13/40	(21) EP19816526.8	(47) 26.07.2023
(11) EP3447281	(47) 26.07.2023	(22) 07.12.2018
(21) EP17785503.8	(87) DK2019050376	(54) A WIND TURBINE NACELLE COOLING SYSTEM
(47) 26.07.2023	25.06.2020	(73) Nissens Cooling Solutions A/S
(87) ES2017070241	(22) 03.12.2019	(72) MØRKHOLT, Morten
26.10.2017	(54) A GENERATOR-GEARBOX ASSEMBLY FOR A WIND TURBINE	JENSEN, Mikkel
(22) 19.04.2017	(73) VESTAS WIND SYSTEMS A/S	(51) F04B 11/00
(54) MOVABLE, AUTONOMOUS, SCALABLE, SELF-DEPLOYABLE, MONITORABLE, REMOTELY REPROGRAMMABLE SYSTEM FOR GENERATING ELECTRICAL ENERGY	(72) LANGVARDT KROGH, Lars	F04B 17/03
(73) Kemtecnica Tecnología Química Y Renovables, S.L.	MANNIK, Henrik Zaar	F04B 43/00
(72) RAMIREZ RODRIGUEZ, Antonio Angel	(31) PA201870841	F04B 43/12
VIGRE MAZA, Jorge	(32) 20.12.2018	F04B 53/16
MARTÍNEZ BOHÓRQUEZ, Miguel Angel	(33) Denmark	F04B 53/22
	(51) F03D 13/10	(11) EP3859151
	B66C 1/10	(21) EP21151557.2
	B66C 13/06	(47) 26.07.2023
	(31) EP3592973	(22) 14.01.2021
		(54) TUBE PUMP
		(73) Surpass Industry Co., Ltd.
		(72) IMAI, Hiroshi

(31) 2020015072	(54) CONTOURED CHECK VALVE DISC	F04D 29/28
(32) 31.01.2020	AND SCROLL COMPRESSOR	(11) EP3794236
(33) Japan	INCORPORATING SAME	(21) EP19711317.8
(51) F04B 17/04	(73) BITZER Kühlmaschinenbau GmbH	(47) 26.07.2023
F04B 43/02	(72) WILSON, Francis P.	(87) EP2019056279
F04B 43/04	(31) 418326	21.11.2019
F04B 45/04	(32) 03.04.2009	(22) 13.03.2019
F04B 45/047	(33) United States of America	(54) SIDE CHANNEL COMPRESSOR FOR A
(11) EP4019773	(51) F04C 18/32	FUEL CELL SYSTEM FOR CONVEYING
(21) EP21216145.9	F04C 28/26	AND/OR COMPRESSING A GASEOUS
(47) 26.07.2023	F04C 23/00	MEDIUM
(22) 20.12.2021	(11) EP3767106	(73) Robert Bosch GmbH
(54) PUMP SYSTEM, FLUID SUPPLY	(21) EP19823011.2	(72) KURZ, Michael
DEVICE AND METHOD FOR	(47) 26.07.2023	(31) 102018207891
CONTROLLING DRIVE OF PUMP	(87) CN2019073948	(32) 18.05.2018
SYSTEM	26.12.2019	(33) Germany
(73) Minebea Mitsumi Inc.	(22) 30.01.2019	(51) F04D 25/06
(72) INAMOTO, Shigenori	(54) COMPRESSOR AND AIR	F04D 29/42
KODAMA, Daisuke	CONDITIONER SYSTEM	(11) EP3833875
SEKIGUCHI, Chikara	(73) Gree Electric Appliances, Inc. of Zhuhai	(21) EP19725310.7
KURITA, Daisuke	(72) ZHENG, Bo	(47) 26.07.2023
TAKAHASHI, Yuki	LIANG, Xiangfei	(87) EP2019062393
YOSHII, Yuta	LIU, Xingru	28.05.2020
(31) 2020218021	(31) 201810654923	(22) 14.05.2019
(32) 25.12.2020	(32) 22.06.2018	(54) RADIAL VENTILATOR
(33) Japan	(33) China	(73) EBM-PAPST ST. GEORGEN GMBH &
(51) F04B 43/04	(51) F04C 18/34	CO. KG
(11) EP3841303	F04C 18/344	(72) SCHAAKE, Katrin
(21) EP19783618.2	F04C 29/00	EHLERS, Volker
(47) 26.07.2023	(11) EP4010596	(31) 102018129608
(87) IB2019057118	(21) EP20750667.6	102018129611
27.02.2020	(47) 26.07.2023	102018129613
(22) 23.08.2019	(87) EP2020072053	(32) 23.11.2018
(54) MICROBLOWER	18.02.2021	23.11.2018
(73) Bartels Mikrotechnik GmbH	(22) 05.08.2020	23.11.2018
(72) BARTELS, Frank	(54) ROTOR AND PUMP COMPRISING	(33) Germany
SIEMENROTH, Florian	SUCH ROTOR	Germany
STRUBE, Anja	(73) VHIT S.p.A. Societa Unipersonale	Germany
(31) 102018120782	(72) BELA, Simona	(51) F04D 27/02
(32) 24.08.2018	CAEDDU, Leonardo	F01D 17/08
(33) Germany	RUFRANO, Vito	F04D 29/32
(51) F04B 43/12	PASQUALI, Stefania	F04D 29/52
(11) EP3879104	(31) 201900014601	(11) EP3382208
(21) EP21157044.5	(32) 09.08.2019	(21) EP18157210.8
(47) 26.07.2023	(33) Italy	(47) 26.07.2023
(22) 15.02.2021	(51) F04C 28/24	(22) 16.02.2018
(54) HOSE PUMP	F04B 39/04	(54) SYSTEMS AND METHODS
(73) ulrich GmbH & Co. KG	F04C 29/02	FOR COMPRESSOR ANOMALY
(72) Bückle, Norbert	F04C 29/12	PREDICTION
Seibold, Felix	(11) EP3445973	(73) General Electric Company
Koch, Torsten	(21) EP17719536.9	(72) BASU, Wrichik
(31) 102020106372	(47) 26.07.2023	ABROL, Sidharth
(32) 09.03.2020	(87) EP2017059275	MINTO, Karl Dean
(33) Germany	26.10.2017	KALYA, Prabhanjana
(51) F04C 18/02	(22) 19.04.2017	RAHIMAN, Nisam Palakkavalappil
F04C 29/12	(54) SEPARATOR DEVICE FOR	BUFI, Corey Nicholas
F16K 15/02	SEPARATING A FLUID, IN	(31) 201715473776
F16K 15/00	PARTICULAR A LUBRICANT, FROM A	(32) 30.03.2017
F04C 29/00	COOLANT	(33) United States of America
F04C 23/00	(73) OET GmbH	(51) F04D 29/041
(11) EP2414682	(72) OBRIST, Frank	F04D 13/02
(21) EP10759198.4	OBRIST, Oliver	E21B 17/046
(47) 26.07.2023	GIESE, Peter	E21B 43/12
(87) US2010027618	(31) 102016107194	E21B 23/00
07.10.2010	(32) 19.04.2016	E21B 17/10
(22) 17.03.2010	(33) Germany	F16D 41/12
	(51) F04D 23/00	F04D 13/10
	F04D 29/059	(11) EP3841271

(21) EP19851090.1	(32) 17.04.2020	(32) 08.05.2019
(47) 26.07.2023	(33) Taiwan, Chinese Taipei	(33) Germany
(87) US2019037602	(51) F04D 29/32	(51) F15B 21/14
27.02.2020	F04D 29/66	E02F 9/22
(22) 18.06.2019	(11) EP3779207	F15B 11/024
(54) ONE-WAY CLUTCH DRIVE SHAFT	(21) EP18912353.2	F15B 1/02
COUPLING IN SUBMERSIBLE WELL	(47) 26.07.2023	(11) EP3604691
PUMP ASSEMBLY	(87) JP2018013288	(21) EP18784964.1
(73) Baker Hughes Oilfield Operations LLC	03.10.2019	(47) 26.07.2023
(72) DAVIS, Nikolas	(22) 29.03.2018	(87) KR2018004193
(31) 201916443046	(54) AXIAL FLOW BLADE, AND BLOWER	18.10.2018
201862721349 P	(73) Mitsubishi Electric Corporation	(22) 10.04.2018
(32) 17.06.2019	(72) YASUDA, Yuichi	(54) HYDRAULIC SYSTEM OF
22.08.2018	FUJITA, Akifumi	CONSTRUCTION MACHINERY
(33) United States of America	(51) F04D 29/38	(73) Hyundai Doosan Infracore Co., Ltd.
United States of America	F04D 29/68	(72) KANG, Byung Il
(51) F04D 29/046	(11) EP3916240	(31) 20170046226
F04D 29/049	(21) EP21186773.4	(32) 10.04.2017
F04D 29/42	(47) 26.07.2023	(33) Korea (Republic)
F04D 29/62	(22) 09.08.2017	(51) F16B 7/04
F04D 29/10	(54) AIR-SENDING DEVICE, AND	(11) EP3825559
F04D 13/06	REFRIGERATION CYCLE DEVICE	(21) EP19210987.4
(11) EP3879121	(73) MITSUBISHI ELECTRIC	(47) 26.07.2023
(21) EP21152603.3	CORPORATION	(22) 22.11.2019
(47) 26.07.2023	(72) HAMADA, Shingo	(54) CONNECTOR AND SYSTEM FOR
(22) 20.01.2021	ITO, Hiroya	INTERCONNECTING TUBULAR
(54) SUPPORT FOR A BEARING FOR	ABE, Takafumi	PROFILES
ELECTRIC PUMP AND ELECTRIC	IKEDA, Takashi	(73) Troax AB
PUMP WITH SUCH SUPPORT	UGAJIN, Yuki	(72) BENGTSOON, Staffan
(73) Dab Pumps S.p.A.	YAMAMOTO, Katsuyuki	(51) F16B 7/18
(72) SINICO, Francesco	TERAMOTO, Takuya	F16B 7/04
CAILOTTO, Pietro	TADOKORO, Takahide	F24S 30/425
CASAGRANDE, Mattia	(51) F15B 11/036	H02S 20/32
(31) 202000004873	F15B 20/00	F16B 5/12
(32) 09.03.2020	E21B 33/035	(11) EP3816459
(33) Italy	E21B 33/06	(21) EP19382955.3
(51) F04D 29/046	(11) EP3864300	(47) 26.07.2023
F04D 29/12	(21) EP19782999.7	(22) 31.10.2019
F04D 7/06	(47) 26.07.2023	(54) JOINED ASSEMBLY
F04D 29/62	(87) EP2019076687	(73) Soltec Innovations, S.L.
(11) EP3635259	16.04.2020	(72) Juan José, Maldonado Nicolás
(21) EP18726981.6	(22) 02.10.2019	De la Fuente de Pablo, Ayim Manuel
(47) 26.07.2023	(54) HYDRAULIC SYSTEM FOR	(51) F16B 19/10
(87) EP2018063495	UNDERWATER USE WITH A	B25B 31/00
13.12.2018	HYDRAULIC ACTUATOR	(11) EP3848595
(22) 23.05.2018	(73) Robert Bosch GmbH	(21) EP20217360.5
(54) CENTRIFUGAL PUMP FOR	(72) KARL, Simone	(47) 26.07.2023
CONVEYING HOT MEDIA	HENDRIX, Gottfried	(22) 28.12.2020
(73) KSB SE & Co. KGaA	ORTH, Alexandre	(54) FASTENER ASSEMBLY AND METHOD
(72) ENS, Rudolf	GERHARD, Oliver	FOR OPERATION OF SAID ASSEMBLY
WIESNER, Hermann	(31) 102018217150	(73) Centrix Inc.
(31) 102017209803	(32) 08.10.2018	(72) McClure, Travis
(32) 09.06.2017	(33) Germany	(31) 202062958181 P
(33) Germany	(51) F15B 21/0423	(32) 07.01.2020
(51) F04D 29/28	F15B 21/04	(33) United States of America
F04D 29/68	F15B 7/00	(51) F16B 21/02
(11) EP3896289	(11) EP3966458	B60R 19/02
(21) EP21154990.2	(21) EP20725124.0	B60R 19/52
(47) 26.07.2023	(47) 26.07.2023	F16B 5/02
(22) 03.02.2021	(87) EP2020062431	F16B 37/08
(54) IMPELLER AND CENTRIFUGAL FAN	12.11.2020	(11) EP3828039
INCLUDING THE SAME	(22) 05.05.2020	(21) EP20209569.1
(73) Sunonwealth Electric Machine Industry	(54) MOTOR COOLING VIA HYDRAULIC	(47) 26.07.2023
Co., Ltd.	FLUID	(22) 24.11.2020
(72) Tsai, Chi-Tsung	(73) MOOG GmbH	(54) SUPPORT DEVICE FOR AN EXTERNAL
Tang, Chung-Yen	(72) HELBIG, Achim	CLADDING SECTION OF A MOTOR
Hornig, Alex	HÄNDLE, Werner	VEHICLE
(31) 109113025	(31) 102019112022	

(73) Skoda Auto a.s. REHAU Automotive SE & Co. KG	(73) Carrier Corporation	(72) MIYAHARA, Masaki
(72) Svozil, Jakub	(72) SISHTLA, Vishnu M.	KOUTA, Naoki
Peller, David	QIU, Yifan	SATO, Toshio
Tuchbreiter, Tobias	(31) 202062705372 P	IMAMURA, Masaki
Kryspín, Radek	(32) 24.06.2020	MITA, Tsuyoshi
Svárovský, Milan	(33) United States of America	(31) 2021069473
(31) 202019106653 U	(51) F16C 17/10	2020085365
(32) 29.11.2019	F16C 25/02	(32) 16.04.2021
(33) Germany	F03D 80/70	14.05.2020
(51) F16B 31/02	F16C 35/063	(33) Japan
H01R 4/36	(11) EP3973200	Japan
F16B 2/06	(21) EP20736243.5	(51) F16D 1/10
(11) EP3492757	(47) 26.07.2023	F16H 57/04
(21) EP18207190.2	(87) AT2020060206	(11) EP4025795
(47) 26.07.2023	26.11.2020	(21) EP20774976.3
(22) 20.11.2018	(22) 19.05.2020	(47) 26.07.2023
(54) SHEARING SCREW	(54) NACELLE FOR A WIND TURBINE	(87) EP2020076039
(73) Ensto Oy	(73) Miba Gleitlager Austria GmbH	10.06.2021
(72) Kenkkilä, Hannele	(72) HÖLZL, Johannes Sebastian	(22) 17.09.2020
Toivanen, Antti	(31) 504652019	(54) DRIVE DEVICE FOR A VEHICLE
(31) 20176073	(32) 21.05.2019	(73) AUDI AG
(32) 29.11.2017	(33) Austria	(72) SCHÄFER, Markus
(33) Finland	(51) F16C 19/22	LUX, Moritz
(51) F16B 37/08	F16C 19/36	(31) 102019132590
F16B 23/00	F16C 33/58	(32) 02.12.2019
(11) EP3234384	F16C 23/08	(33) Germany
(21) EP15868708.7	(11) EP3717789	(51) F16D 28/00
(47) 26.07.2023	(21) EP18796839.1	H02N 13/00
(87) AU2015050803	(47) 26.07.2023	(11) EP3695130
23.06.2016	(87) DK2018050270	(21) EP18792752.0
(22) 17.12.2015	06.06.2019	(47) 26.07.2023
(54) SEGMENTED NUT	(22) 25.10.2018	(87) US2018054051
(73) Segnut Pty Ltd.	(54) ROLLER BEARING	18.04.2019
(72) BRADSHAW, Brian	(73) Vestas Wind Systems A/S	(22) 03.10.2018
(31) 2015901217	(72) HEUSER, Lutz	(54) ELECTROSTATIC ROTARY CLUTCH
2014905155	(31) PA201770893	(73) Microsoft Technology Licensing, LLC
(32) 02.04.2015	(32) 28.11.2017	(72) ROBINSON, Jonathan Shea
19.12.2014	(33) Denmark	SCHMITZ, Aaron
(33) Australia	(51) F16C 27/02	(31) 201715728288
Australia	F16C 27/06	(32) 09.10.2017
(51) F16B 43/00	F16C 32/06	(33) United States of America
F16B 39/24	F16C 33/22	(51) F16D 48/10
F16B 31/02	F16C 39/04	(11) EP3803147
(11) EP3382217	F16C 41/00	(21) EP19726992.1
(21) EP16877733.2	F16C 41/02	(47) 26.07.2023
(47) 26.07.2023	(11) EP4025794	(87) EP2019063622
(87) CN2016111330	(21) EP19787492.8	28.11.2019
29.06.2017	(47) 26.07.2023	(22) 27.05.2019
(22) 21.12.2016	(87) NL2019050579	(54) A POWERTRAIN FOR A VEHICLE
(54) FASTENER	11.03.2021	AND METHOD FOR CONTROLLING A
(73) Huawei Digital Power Technologies Co., Ltd.	(22) 05.09.2019	POWERTRAIN IN A VEHICLE
(72) FAN, Guohua	(54) FLUID BEARING	(73) Punch Powertrain PSA e-transmissions NV
HU, Xiong	(73) Delft Offshore Turbine B.V.	(72) VROEMEN, Bas Gerard
SONG, Dingnan	(72) VAN OSTAYEN, Ronald Adrianus	(31) 201805341
(31) 201510973583	Johannes	(32) 25.05.2018
(32) 22.12.2015	NIJSSEN, Joep Peter Abram	(33) Belgium
(33) China	(51) F16C 29/06	(51) F16D 51/22
(51) F16C 17/02	F16C 29/08	F16D 65/22
F16C 17/04	F16C 33/58	F16D 65/56
F16C 33/10	F16C 33/62	(11) EP3980657
F25B 1/04	F16C 29/00	(21) EP20730998.0
(11) EP3929453	F16H 25/20	(47) 26.07.2023
(21) EP21179315.3	(11) EP3910207	(87) EP2020064683
(47) 26.07.2023	(21) EP21172647.6	10.12.2020
(22) 14.06.2021	(47) 26.07.2023	(22) 27.05.2020
(54) FOIL BEARING LUBRICATION	(22) 07.05.2021	(54) SPREADER UNIT FOR A DRUM
	(54) ACTUATOR	BRAKE,
	(73) SMC Corporation	

(73) Continental Automotive Technologies GmbH	B60G 13/08 F16F 9/18	(47) 26.07.2023 (87) JP2018024318 18.04.2019
(72) MESSNER, Adrian SCHULITZ, Matthias VEY, Christian RITTER, Wolfgang HOFFMANN, Jens BACH, Uwe SEFO, Ahmed VON HAYN, Holger GÄDKE, Martin	(11) EP3907419 (21) EP19907698.5 (47) 26.07.2023 (87) ES2019070854 09.07.2020 (22) 17.12.2019 (54) SHOCK ABSORBER WITH HYDRAULIC LOAD REGULATION ACCORDING TO SPEED AND FREQUENCY SIMULTANEOUSLY	(22) 27.06.2018 (54) WEDGE CLAMP AND STEEL WIRE (73) Tokyo Rope Mfg. Co., Ltd. (72) URATA, Yousuke HIRAI, Hitoshi (31) 2017198255 (32) 12.10.2017 (33) Japan
(31) 102019208223 (32) 05.06.2019 (33) Germany	(73) KYB Europe GmbH, Sucursal en Navarra (72) LIZARRAGA SENAR, Javier	(51) F16H 1/28 F16H 57/08 F02C 7/36
(51) F16D 65/00 F16D 55/224 (11) EP3994370 (21) EP20760895.1 (47) 26.07.2023 (87) FR2020051179 07.01.2021 (22) 03.07.2020 (54) SECURING SYSTEM FOR A PART MOUNTED ON A BRAKE HEAD	(31) 201930008 (32) 04.01.2019 (33) Spain (51) F16F 13/14 (11) EP3303873 (21) EP16731520.9 (47) 26.07.2023 (87) EP2016062130 08.12.2016 (22) 30.05.2016 (54) ELASTOMERIC JOURNAL BEARING	(11) EP3974677 (21) EP21197706.1 (47) 26.07.2023 (22) 20.09.2021 (54) IMPROVED REDUCED FOR HOLDING THE RING GEAR (73) Safran Transmission Systems (72) SEYFRID, Marc, Dominique NIEPCERON, Clément, Paul, René (31) 2009657 (32) 23.09.2020 (33) France
(73) Tallano Technologie (72) MAISTRE, Adrien (31) 1907417 (32) 03.07.2019 (33) France	(72) PALLUCK, Karl-Walter VOSSSEL, Andreas (31) 102015108879 (32) 04.06.2015 (33) Germany	(51) F16H 7/08 (11) EP3943777 (21) EP20773867.5 (47) 26.07.2023 (87) JP2020010770 24.09.2020 (22) 12.03.2020 (54) CHAIN TENSIONER (73) NTN Corporation (72) SATO, Seiji ONIMARU, Kouichi (31) 2019052970 (32) 20.03.2019 (33) Japan
(51) F16D 65/18 F16H 25/20 B60T 13/74 F16D 55/226 F16D 121/24 F16D 125/40 (11) EP3426943 (21) EP17763814.5 (47) 26.07.2023 (87) US2017020866 14.09.2017 (22) 06.03.2017 (54) SPINDLE NUT ASSEMBLY HAVING MULTIPLE STOP CAMS	(51) F16F 15/02 F16F 15/04 F16F 15/08 H04R 1/02 (11) EP3532746 (21) EP17788256.0 (47) 26.07.2023 (87) EP2017077532 03.05.2018 (22) 26.10.2017 (54) PLATFORM TO REDUCE VIBRATIONS	(22) 12.03.2020 (54) CHAIN TENSIONER (73) NTN Corporation (72) SATO, Seiji ONIMARU, Kouichi (31) 2019052970 (32) 20.03.2019 (33) Japan (51) F16H 25/24 B64C 25/10 B66F 3/08 F16D 63/00 F16D 65/02 F16D 65/14 B64C 25/30
(73) Kelsey-Hayes Company ZF Active Safety GmbH (72) BARBOSA, Manuel SCHAEFER, Michael KWIERANT, David DILLA, Christian	(72) HANSEN, Søren (31) 16195689 (32) 26.10.2016 (33) European Patent Office (EPO) (51) F16G 11/04 B60P 7/00 F16B 45/00 F16G 11/12 (11) EP4006377 (21) EP21205411.8 (47) 26.07.2023 (22) 28.10.2021 (54) FIXING AND CLAMPING DEVICE AND MODULAR SYSTEM	(11) EP3721116 (21) EP18885986.2 (47) 26.07.2023 (87) US2018064458 13.06.2019 (22) 07.12.2018 (54) BLOW DOWN ACTUATOR ASSEMBLY HAVING A DRAG BRAKE (73) Aerocontrex Group, Inc. (72) FENN, Christopher L. CRONIN, Patrick (31) 201715836171 (32) 08.12.2017 (33) United States of America
(31) 201615065937 (32) 10.03.2016 (33) United States of America	(73) ModulFix GmbH (72) Kopp, Michael Kopp, Martin (31) 102020128514 (32) 29.10.2020 (33) Germany	(51) F16H 48/38 F16H 57/022 (11) EP3429883 (21) EP17767400.9 (47) 26.07.2023 (87) US2017022439 21.09.2017
(51) F16F 9/348 F16F 9/46 (11) EP4019802 (21) EP21206193.1 (47) 26.07.2023 (22) 03.11.2021 (54) VALVE ASSEMBLY FOR A VIBRATION DAMPER	(51) F16G 11/04 F16B 2/14 H02G 7/05 (11) EP3696446 (21) EP18866890.9	
(73) KTM AG (72) WIMMER, Johannes (31) 102020134820 (32) 23.12.2020 (33) Germany		
(51) F16F 9/348 F16F 9/512 F16F 9/06		

- (22) 15.03.2017
(54) AUTOMOTIVE DIFFERENTIAL AND METHOD OF ASSEMBLING SAME
(73) GKN Automotive Limited
(72) KAPLAN, Kevin, J.
GALL, David, E.
(31) 201662308696 P
(32) 15.03.2016
(33) United States of America
-
- (51) F16H 55/50
G01M 3/28
G01M 3/32
G01M 5/00
(11) EP3956584
(21) EP20722493.2
(47) 26.07.2023
(87) EP2020060658
22.10.2020
(22) 16.04.2020
(54) ROLLER
(73) C. u. A. Heiderich GmbH
(72) WEISSFLOG, Harald
(31) 202019102212 U
(32) 17.04.2019
(33) Germany
-
- (51) F16H 61/421
F16H 61/431
F16H 61/4157
(11) EP3879137
(21) EP21162127.1
(47) 26.07.2023
(22) 11.03.2021
(54) HYDROSTATIC TRANSMISSION FOR A WORK VEHICLE PROVIDED WITH A HILL-HOLDER SYSTEM
(73) CNH Industrial Italia S.p.A.
(72) Liberti, Stefano
Gravili, Andrea
Venezia, Antonio
Garramone, Adriano
(31) 202000005290
(32) 12.03.2020
(33) Italy
-
- (51) F16J 3/02
F16K 17/12
F16K 37/00
G06K 19/077
(11) EP3857099
(21) EP19779799.6
(47) 26.07.2023
(87) EP2019075726
02.04.2020
(22) 24.09.2019
(54) DIAPHRAGM FOR A DIAPHRAGM VALVE OR ACTUATOR VALVE WITH A TAB AND A TRANSPONDER
(73) Samson Aktiengesellschaft
SED Flow Control GmbH
(72) RUTSCH, Uwe
EHMIG, Uwe
(31) 102018123545
(32) 25.09.2018
(33) Germany
-
- (51) F16J 15/26
F16J 15/28
F16J 15/30
F16J 15/44
(11) EP3865740
- (21) EP21155956.2
(47) 26.07.2023
(22) 09.02.2021
(54) RADIAL SEAL SEGMENT JOINT
(73) Raytheon Technologies Corporation
(72) SHUAIB, Nasr A.
MILLER, Jonathan Logan
ZIMMITTI, Jonathan F.
(31) 202016788126
(32) 11.02.2020
(33) United States of America
-
- (51) F16J 15/32
F16J 15/3204
F16J 15/3236
F16J 15/3276
F16J 15/56
F16J 15/3224
(11) EP3910216
(21) EP21170717.9
(47) 26.07.2023
(22) 27.04.2021
(54) SEAL RING AND SEAL ASSEMBLY COMPRISING THE SEAL RING
(73) Carl Freudenberg KG
(72) Vöhringer, Dr. Marc-Christian
(31) 102020113090
(32) 14.05.2020
(33) Germany
-
- (51) F16J 15/34
F01D 11/00
(11) EP3628897
(21) EP19199522.4
(47) 26.07.2023
(22) 25.09.2019
(54) SHAFT FACE SEAL
(73) Hamilton Sundstrand Corporation
(72) JIANG, Yiwei
BLEWETT, Michael R.
(31) 201816145524
(32) 28.09.2018
(33) United States of America
-
- (51) F16K 1/20
F16K 1/22
F16K 31/06
H01F 7/14
(11) EP3885613
(21) EP20164763.3
(47) 26.07.2023
(22) 23.03.2020
(54) EDGE-SEALED TILTING ANCHOR FOR A VEHICLE MAGNETIC VALVE
(73) KNORR-BREMSE Systeme für Nutzfahrzeuge GmbH
(72) EISENBERGER, Andreas
MATAR, Maher
-
- (51) F16K 5/04
F16K 11/085
(11) EP3385583
(21) EP18165908.7
(47) 26.07.2023
(22) 05.04.2018
(54) MULTI-PORT VALVE
(73) ROBERTSHAW CONTROLS COMPANY
(72) Hawken, Philip C.
Davern, Thomas J.
Ledvora, Joe
(31) 201815945173
201762483167 P
- (32) 04.04.2018
07.04.2017
(33) United States of America
United States of America
-
- (51) F16K 7/06
F16K 11/02
(11) EP3679280
(21) EP18750381.8
(47) 26.07.2023
(87) EP2018070660
14.03.2019
(22) 31.07.2018
(54) DISTRIBUTOR DEVICE, METHOD FOR CONVEYING SOLIDS, AND METHOD FOR CLEANING A DISTRIBUTOR DEVICE
(73) Hüttlin GmbH
(72) PAASCHE, Christian Karl
(31) 102017215543
(32) 05.09.2017
(33) Germany
-
- (51) F16K 7/14
F16K 1/36
F16K 41/10
(11) EP3827189
(21) EP20701601.5
(47) 26.07.2023
(87) EP2020051496
06.08.2020
(22) 22.01.2020
(54) BLOCKING MEANS
(73) GEMÜ Gebr. Müller Apparatebau GmbH & Co. Kommanditgesellschaft
(72) HAIDT, Harald
(31) 102019102445
(32) 31.01.2019
(33) Germany
-
- (51) F16K 11/07
F16K 31/06
(11) EP3686465
(21) EP20152380.0
(47) 26.07.2023
(22) 17.01.2020
(54) QUICK SWITCH VALVE
(73) Robert Bosch GmbH
(72) Meyer, Frank
Gold, Theodor
Beck, Thorsten
(31) 102019200940
(32) 25.01.2019
(33) Germany
-
- (51) F16K 11/087
F16K 11/085
F01P 7/14
(11) EP4077991
(21) EP20853531.0
(47) 26.07.2023
(87) EP2020085697
24.06.2021
(22) 11.12.2020
(54) DEVICE FOR HANDLING FLUID WITHIN AN AT LEAST PARTIALLY ELECTRICALLY DRIVEN VEHICLE
(73) ECO Holding 1 GmbH
(72) MUDRA, Alexander
KREBS, Johannes
DEHRMANN, Sven
(31) 102019134435

(32) 16.12.2019	(21) EP16757139.7	(73) Inspired Designs Limited
(33) Germany	(47) 26.07.2023	(72) WADMAN, Alexis, Adrian, Felipe
(51) F16K 15/03	(87) DE2016100244	VAN DER MEIJDEN, Hendrikus,
(11) EP3258147	01.12.2016	Johannes
(21) EP16461526.2	(22) 26.05.2016	(31) 201519446
(47) 26.07.2023	(54) RETAINING ELEMENT	(32) 03.11.2015
(22) 14.06.2016	(73) Flint, Sören	(33) United Kingdom
(54) CHECK VALVES	(72) Flint, Sören	(51) F16L 37/088
(73) Hamilton Sundstrand Corporation	(31) 202016100388 U	F16L 37/14
(72) RESZEWICZ, Modest	(22) 202015102745 U	(11) EP3584489
CZARNECKI, Pawe	(32) 27.01.2016	(21) EP18290069.6
(51) F16K 21/12	27.05.2015	(47) 26.07.2023
F16K 21/14	(33) Germany	(22) 19.06.2018
E03C 1/042	Germany	(54) COUPLING ARRANGEMENT AND
F16K 11/074	(51) F16L 5/10	CONNECTOR FOR A COUPLING
F16K 31/385	F16L 5/14	ARRANGEMENT
F16K 21/10	(11) EP3712480	(73) MANN+HUMMEL GmbH
(11) EP3792534	(21) EP20164721.1	(72) Sarrazin, Maxime
(21) EP20194115.0	(47) 26.07.2023	Marteau, Christophe
(47) 26.07.2023	(22) 20.03.2020	Foulboeuf, Gwenaël
(22) 02.09.2020	(54) INSTALLATION STRUCTURE FOR PIPE	(51) F16L 37/14
(54) SELF-CLOSING VALVE	BUNDLES AND USE OF SUCH AN	F16L 37/56
(73) Hansgrohe SE	INSTALLATION STRUCTURE	A61M 39/10
(72) Dold, Florian	(73) Valsir S.p.A. A Socio Unico	F16L 3/237
Meier, Fridolin	(72) OMICCIOLI, Demis	(11) EP3204680
(31) 102019213943	PICCINELLI, Gianmario	(21) EP15787759.8
(32) 12.09.2019	(31) 201900004209	(47) 26.07.2023
(33) Germany	(32) 22.03.2019	(87) US2015054691
(51) F16K 37/00	(33) Italy	14.04.2016
(11) EP3875820	(51) F16L 19/065	(22) 08.10.2015
(21) EP21160258.6	F16L 33/22	(54) FEMALE COUPLING DEVICE
(47) 26.07.2023	F16L 41/10	(73) Colder Products Company
(22) 02.03.2021	(11) EP3913270	(72) WILHELM, Grant Armin
(54) METHOD FOR VERIFYING THE	(21) EP20175549.3	JOHNSON, Robert, Keith
OPERABILITY OF A SAFETY VALVE	(47) 26.07.2023	LANGER, Elizabeth Joy
(73) Samson Aktiengesellschaft	(22) 19.05.2020	(31) 201562102841 P
(72) Boll, Tobias	(54) HYGIENIC COUPLING SYSTEM	201462061791 P
(31) 102020105695	(73) ABB Schweiz AG	(32) 13.01.2015
(32) 03.03.2020	(72) BUCK, Meirion	09.10.2014
(33) Germany	FRANCOS, Angel	(33) United States of America
(51) F16K 47/02	URIOL, Luis	United States of America
F16K 27/00	CHAHAL, Harvinder Singh	(51) F16L 37/23
F16K 31/06	(51) F16L 29/02	F16L 37/42
(11) EP3584481	F16K 31/60	F16L 17/025
(21) EP18753889.7	F16K 37/00	F16L 17/03
(47) 26.07.2023	F16L 37/107	F16L 37/084
(87) JP2018003887	F16L 37/252	(11) EP3771856
23.08.2018	F16L 37/30	(21) EP19196834.6
(22) 06.02.2018	F16L 37/36	(47) 26.07.2023
(54) MANIFOLD BASE FOR	(11) EP3757438	(22) 11.09.2019
ELECTROMAGNETIC VALVE AND	(21) EP20178089.7	(54) UNIVERSAL FEMALE CONNECTOR
MANIFOLD-TYPE ELECTROMAGNETIC	(47) 26.07.2023	(73) Hui Bao Enterprise Co., Ltd.
VALVE	(22) 03.06.2020	(72) CHEN, WAN PAO
(73) SMC Corporation	(54) COUPLER WITH AN IMPROVED	(31) 108210243 U
(72) MIYAZOE, Shinji	HANDLE	(32) 02.08.2019
YOSHIMURA, Shinichi	(73) Mann Technik AB	(33) Taiwan, Chinese Taipei
YOSHIDA, Masaru	(72) Kopplin, Gerhard	(51) F16L 37/42
(31) 2017027123	(31) 1950798	F16L 55/115
(32) 16.02.2017	(32) 27.06.2019	(11) EP4123208
(33) Japan	(33) Sweden	(21) EP22184032.5
(51) F16L 3/13	(51) F16L 33/22	(47) 26.07.2023
F16B 2/16	(11) EP3371503	(22) 11.07.2022
F16B 2/22	(21) EP16805492.2	(54) A DEVICE ARRANGED FOR BEING
F16L 3/16	(47) 26.07.2023	PROVIDED AT AN END OF A TUBE
F16L 3/223	(87) IB2016001557	HAVING AN AXIAL DIRECTION
F16L 3/237	11.05.2017	(73) Roteal B.V.
(11) EP3303892	(22) 31.10.2016	(72) LOORBACH, Richt
	(54) TUBULAR CONNECTORS	DE WEERD, René

(31) 2028822	(54) A METHOD AND SYSTEM FOR SAFEGUARDING ELECTRICAL DEVICES	(47) 26.07.2023
(32) 23.07.2021		(22) 25.09.2020
(33) Netherlands		(54) PRESSURE TANK, SYSTEM FOR MONITORING A PRESSURE TANK AND MOTOR VEHICLE
(51) F16L 39/06	(73) Olszewski Tymoteusz Bitland	(73) Audi AG
B04B 5/02	(72) ZAKRZEWSKI, Tomasz	(72) Thurmeier, Markus
B04B 11/02	OLSZEWSKI, Tomasz	Fischlschweiger, Michael
B04B 15/00	(31) 43477921	Mlekusch, Bernd
F16L 27/087	(32) 24.07.2020	Berger, Johann
B04B 5/04	(33) Poland	(31) 102019128318
(11) EP3569913	(51) F17C 3/02	(32) 21.10.2019
(21) EP18739380.6	(11) EP3710742	(33) Germany
(47) 26.07.2023	(21) EP18819179.5	
(87) JP2018000329	(47) 26.07.2023	(51) F21K 99/00
19.07.2018	(87) FR2018052801	F21V 8/00
(22) 10.01.2018	16.05.2019	H01L 33/50
(54) ROTARY JOINT AND CENTRIFUGAL SEPARATOR	(22) 09.11.2018	(11) EP3356725
(73) FUJIFILM Corporation	(54) METHOD FOR PRODUCING A THERMAL INSULATION BARRIER FOR A WALL OF A VESSEL AND THERMAL INSULATION BARRIER PRODUCED THEREBY	(21) EP16721736.3
(72) KATO, Nobuhiko		(47) 26.07.2023
(31) 2017002147	(73) Gaztransport et Technigaz	(87) EP2016059220
(32) 10.01.2017	(72) PHILIPPE, Antoine	06.04.2017
(33) Japan	HERRY, Mickael	(22) 26.04.2016
(51) F16L 55/40	(31) 1760638	(54) LIGHT SOURCE WITH DIFFRACTIVE OUTCOUPLING
B08B 9/055	(32) 13.11.2017	(73) Signify Holding B.V.
(11) EP3475603	(33) France	(72) SOUREN, Anne
(21) EP17735356.2	(51) F17C 5/02	JAGT, Hendrik, Johannes, Boudewijn
(47) 26.07.2023	F04B 37/08	DE BOER, Dirk, Kornelis, Gerhardus
(87) US2017039309	F04B 15/08	VERSCHUUREN, Marcus, Antonius
28.12.2017	F04B 23/02	(31) 15187285
(22) 26.06.2017	F17C 9/00	(32) 29.09.2015
(54) MULTI-DIAMETER FOAM PIG	(11) EP3274618	(33) European Patent Office (EPO)
(73) TDW Delaware, Inc.	(21) EP16771131.6	(51) F21S 2/00
(72) MORROW, John R.	(47) 26.07.2023	B60Q 1/50
(31) 201662354560 P	(87) CA2016050353	F21V 8/00
(32) 24.06.2016	06.10.2016	B60R 1/12
(33) United States of America	(22) 24.03.2016	B60Q 9/00
(51) F16N 7/24	(54) CRYOGENIC TANK ASSEMBLY WITH A PUMP DRIVE UNIT DISPOSED WITHIN FLUID STORAGE VESSEL	(11) EP3757447
F16N 11/00	(73) Westport Fuel Systems Canada Inc.	(21) EP20187486.4
F16N 15/00	(72) BAROS, Davor	(47) 26.07.2023
B23Q 16/02	SCOTT, Cameron G.D.	(22) 17.12.2013
F16C 19/54	HATAMI AGHDAM, Kamal	(54) BLIND SPOT DETECTION MODULE
F16C 33/10	COLEMAN, Timothy S.	(73) LG Innotek Co., Ltd.
F16C 33/66	BARAKAT-HAMEL, Samira	(72) PARK, Kwang Ho
F16H 1/16	(31) 2886538	LEE, Byoung Eon
F16H 25/06	(32) 27.03.2015	KIM, Jin Hee
F16H 53/06	(33) Canada	YANG, Hyun Duck
F16H 57/04	(51) F17C 9/04	PARK, Moo Ryoung
(11) EP3748214	(11) EP3743652	(31) 20120148239
(21) EP19746939.8	(21) EP19710009.2	20120147666
(47) 26.07.2023	(47) 26.07.2023	(32) 18.12.2012
(87) JP2019002904	(87) FR2019050152	17.12.2012
08.08.2019	01.08.2019	(33) Korea (Republic)
(22) 29.01.2019	(22) 23.01.2019	Korea (Republic)
(54) LUBRICATION DEVICE AND CAM MECHANISM PROVIDED WITH LUBRICATION DEVICE	(54) CRYOGENIC HEAT PUMP AND USE THEREOF IN THE TREATMENT OF LIQUEFIED GAS	
(73) Sankyo Seisakusho Co.	(73) Gaztransport et Technigaz	(51) F21S 4/28
(72) SUZUKI, Kengo	(72) AOUN, Bernard	F21V 5/00
(31) 2018014806	(31) 1850519	F21V 5/04
(32) 31.01.2018	(32) 23.01.2018	(11) EP3842688
(33) Japan	(33) France	(21) EP20199839.0
(51) F16P 3/14	(51) F17C 13/12	(47) 26.07.2023
(11) EP3943799	(11) EP3812646	(22) 02.10.2020
(21) EP21461573.4	(21) EP20198446.5	(54) STRIP LAMP
(47) 26.07.2023		(73) Self Electronics Co., Ltd.
(22) 26.07.2021		Lin, Wanjong
		SELF ELECTRONICS Germany GmbH
		(72) XUE, Yuanfang
		ZHU, Quan
		PAN, Huangfeng

ZHENG, Zhaoyong	(72) GIJSBERS, Harry	(54) LIGHT EMISSIVE DISPLAYS
(31) 201911349454	MERTENS, Juergen	COMPRISING OVERPRINT
(32) 24.12.2019	(31) 18178446	VARNISHES
(33) China	(32) 19.06.2018	(73) Sun Chemical Corporation
(51) F21S 9/02	(33) European Patent Office (EPO)	(72) COUCH, Erick
F21V 23/06	(51) F21S 41/50	BAKAYSZA, Andrew M.
F21S 6/00	F21S 45/10	(31) 201862689468 P
F21V 17/00	(11) EP2674666	(32) 25.06.2018
F21Y 115/10	(21) EP13171950.2	(33) United States of America
(11) EP3748224	(47) 26.07.2023	(51) F21V 21/084
(21) EP20000186.5	(22) 14.06.2013	F21V 29/503
(47) 26.07.2023	(54) Illumination device of a motor vehicle	F21V 29/67
(22) 14.05.2020	(73) Marelli Automotive Lighting Reutlingen	F21V 29/70
(54) LAMP	(Germany) GmbH	F21L 4/04
(73) ProcServ GmbH	(72) Zehender, Daniel	A61B 90/30
(72) Jansen, Uwe	Kramer, Andrea	A42B 1/244
(31) 102019004044	(31) 202012005795 U	F21W 131/20
(32) 08.06.2019	(32) 14.06.2012	F21Y 115/10
(33) Germany	(33) Germany	A61B 17/00
(51) F21S 41/143	(51) F21S 45/60	A61B 90/50
F21S 41/153	F21S 41/25	(11) EP3861249
F21S 41/24	F21S 41/13	(21) EP18839574.3
F21S 41/663	F21S 41/147	(47) 26.07.2023
F21S 41/20	F21S 41/148	(87) US2018067220
F21S 41/255	F21S 41/255	09.04.2020
F21S 41/26	F21S 41/265	(22) 21.12.2018
(11) EP3521691	F21S 41/275	(54) HEAD WEARABLE DEVICES AND
(21) EP19154317.2	B60Q 1/00	METHODS
(47) 26.07.2023	(11) EP3980685	(73) Integra LifeSciences Corporation
(22) 29.01.2019	(21) EP20739751.4	(72) POGGIO, Frank, Thomas
(54) LIGHT MODULE FOR A MOTOR	(47) 26.07.2023	PRATS, Jaime, Luis
VEHICLE, AND LIGHTING AND/OR	(87) FR2020050867	(31) 201862741636 P
SIGNALLING DEVICE COMPRISING	10.12.2020	201862741385 P
SUCH A MODULE	(22) 25.05.2020	(32) 05.10.2018
(73) Valeo Vision	(54) OPTICAL UNIT FOR VEHICLES	04.10.2018
(72) GROMFELD, Yves	COMPRISING A HEATED LENS BY	(33) United States of America
(31) 1850800	INFRARED RADIATION	United States of America
(32) 31.01.2018	(73) PSA Automobiles SA	(51) F21V 21/35
(33) France	(72) MOLTO, Valerie	F21V 21/002
(51) F21S 41/176	ROYER, Guillaume	F21V 23/06
H01L 33/50	CHUFFART, Frederic	F21V 23/00
(11) EP4048942	(31) 1905887	F21S 8/04
(21) EP20789637.4	(32) 04.06.2019	F21V 21/02
(47) 26.07.2023	(33) France	H01R 25/14
(87) EP2020079339	(51) F21V 8/00	(11) EP3772611
29.04.2021	(11) EP3726285	(21) EP20189844.2
(22) 19.10.2020	(21) EP19748254.0	(47) 26.07.2023
(54) IMPROVED HEAT MANAGEMENT AND	(47) 26.07.2023	(22) 06.08.2020
EFFICIENCY FOR HIGH INTENSITY	(87) CN2019072194	(54) SYSTEM FOR IMPLEMENTING A
LASER PUMPED LIGHT SOURCE	08.08.2019	LIGHT WITH ELECTRICAL TAP WITH
(73) Signify Holding B.V.	(22) 17.01.2019	CONDUCTOR HOLDER
(72) VAN BOMMEL, Ties	(54) ELECTRONIC DEVICE, AND DISPLAY	(73) Trilux GmbH & Co. KG
CALON, Georges, Marie	ASSEMBLY AND BACKLIGHT MODULE	(72) Schönert, Marcel
HIKMET, Rifat, Ata, Mustafa	THEREOF	Hadeil, Mohammed
(31) 19204494	(73) GUANGDONG OPPO MOBILE	(31) 102019121165
(32) 22.10.2019	TELECOMMUNICATIONS CORP., LTD.	(32) 06.08.2019
(33) European Patent Office (EPO)	(72) LU, Zhongheng	(33) Germany
(51) F21S 41/19	(31) 201810106074	(51) F21V 23/04
F21S 41/147	(32) 31.01.2018	G01J 3/02
F21S 41/39	(33) China	F21W 131/405
(11) EP3810984	(51) F21V 8/00	F21Y 101/00
(21) EP19732285.2	G09F 13/20	(11) EP3311069
(47) 26.07.2023	(11) EP3810985	(21) EP16745819.9
(87) EP2019065307	(21) EP19746206.2	(47) 26.07.2023
26.12.2019	(47) 26.07.2023	(87) IB2016053581
(22) 12.06.2019	(87) US2019038654	22.12.2016
(54) LED LIGHTING ASSEMBLY	02.01.2020	(22) 16.06.2016
(73) Lumileds Holding B.V.	(22) 24.06.2019	

(54) LIGHTING DEVICE, IN PARTICULAR FOR LIGHTING EXHIBITION OBJECTS	(21) EP21209901.4	(33) France
(73) Sklaer GmbH	(47) 26.07.2023	France
(72) MIRAS, Jean-Pierre	(22) 16.10.2017	(51) F23H 17/12
(31) UB20151430	(54) MIDDLE-SUPPORTED BOILER CONSTRUCTION	F23H 3/02
(32) 16.06.2015	(73) Sumitomo SHI FW Energia Oy	(11) EP3994393
(33) Italy	(72) HOLOPAINEN, Heikki	(21) EP20716792.5
(51) F21V 29/74	(72) POREBA-SEBASTJAN, Martyna	(47) 26.07.2023
F21K 9/237	SOLIPIWKO, Slawomir	(87) EP2020059704
F21V 17/12	POLLARI, Jussi	14.01.2021
F21K 9/233	LANKINEN, Pentti	(22) 06.04.2020
F21V 29/77	(51) F23C 10/00	(54) GRATE BLOCK FOR A COMBUSTION GRATE
F21V 29/83	F23C 10/10	(73) Hitachi Zosen Inova AG
F21V 19/00	F23C 99/00	(72) WALDNER, Maurice Henri
F21Y 115/10	F23C 10/24	BRENNWALD, Werner
(11) EP3636995	(11) EP3853525	(31) 19184559
(21) EP18814286.3	(21) EP19772676.3	(32) 05.07.2019
(47) 26.07.2023	(47) 26.07.2023	(33) European Patent Office (EPO)
(87) KR2018006068	(87) EP2019074583	(51) F23N 1/00
13.12.2018	26.03.2020	F23N 1/02
(22) 29.05.2018	(22) 13.09.2019	F23D 14/02
(54) LED LIGHTING LAMP WITH ENHANCED HEAT DISSIPATION FUNCTION	(54) DEVICE AND METHOD FOR CHEMICAL LOOPING COMBUSTION, HAVING A PARTICLE SEPARATOR PROVIDED WITH AN INCLINED INTAKE DUCT	F23D 14/36
(73) Innocompany Co., Ltd	(73) IFP Energies nouvelles	F23D 14/64
(72) CHOI, Ho Jeong	TotalEnergies OneTech	F23K 5/00
(31) 20170070872	(72) TILLAND, Airy	F23C 5/08
(32) 07.06.2017	AMBLARD, Benjamin	(11) EP3974720
(33) Korea (Republic)	TEBIANIAN, Sina	(21) EP21193437.7
(51) F21V 31/00	GUILLOU, Florent	(47) 26.07.2023
F21V 23/00	BERTHOLIN, Stephane	(22) 27.08.2021
H02G 3/22	CLOUPET, Ann	(54) AN AIR-GAS MIXTURE BURNING APPLIANCE WITH A GAS GOVERNOR
H02G 15/013	YAZDANPANAH, Mahdi	(73) Bosch Thermotechnology Ltd (UK)
(11) EP2937629	(31) 1858511	(72) Collins, Tom
(21) EP15164609.8	(32) 20.09.2018	(31) 202015055
(47) 26.07.2023	(33) France	(32) 23.09.2020
(22) 22.04.2015	(51) F23R 3/00	(33) United Kingdom
(54) MOUNTING DEVICE FOR A LIGHT	F23R 3/06	(51) F23R 3/00
(73) Zumtobel Lighting GmbH	(11) EP3677837	F23R 3/06
(72) Ladstätter, Gerald	(21) EP20150392.7	(11) EP3677837
(31) 202014101962 U	(47) 26.07.2023	(21) EP20150392.7
(32) 25.04.2014	(22) 06.01.2020	(47) 26.07.2023
(33) Germany	(54) COMBUSTOR COOLING PANEL WITH FLOW GUIDE	(22) 06.01.2020
(51) F22B 21/22	(73) Raytheon Technologies Corporation	(54) COMBUSTOR COOLING PANEL WITH FLOW GUIDE
F22B 27/04	(72) ICHIHASHI, Fumitaka	(73) Raytheon Technologies Corporation
F22B 27/12	(31) 201916724980	(72) ICHIHASHI, Fumitaka
F28D 11/02	201962788594 P	(31) 201916724980
F23J 1/00	(32) 23.12.2019	201962788594 P
F22B 27/08	04.01.2019	(32) 23.12.2019
F22B 37/54	(33) United States of America	04.01.2019
(11) EP3792550	United States of America	(33) United States of America
(21) EP19798887.6	(51) F23R 3/16	United States of America
(47) 26.07.2023	F23R 3/28	(51) F23R 3/16
(87) ES2019070071	F23R 3/34	F23R 3/28
14.11.2019	F23R 3/46	F23R 3/34
(22) 11.02.2019	(11) EP3974724	F23R 3/46
(54) WATER-TUBE BOILER WITH CONCENTRIC HEAT-EXCHANGE COILS WITH ASH-REMOVAL SYSTEM	(21) EP21197175.9	(11) EP3974724
(73) Mas Sanz, Xavier	(47) 26.07.2023	(21) EP21197175.9
(72) Mas Sanz, Xavier	(22) 16.09.2021	(47) 26.07.2023
(31) 201830460	(54) GAS TURBINE COMBUSTOR WITH FUEL INJECTION ASSEMBLY	(22) 16.09.2021
(32) 10.05.2018	(73) General Electric Company	(54) GAS TURBINE COMBUSTOR WITH FUEL INJECTION ASSEMBLY
(33) Spain	(72) PENTECOST, Ronnie Ray	(73) General Electric Company
(51) F22B 37/14	CLIFFORD, Robert Wade	(72) PENTECOST, Ronnie Ray
F22B 37/20	GARCIA, Marissa Singley	CLIFFORD, Robert Wade
F22B 37/24	(31) 202017032405	GARCIA, Marissa Singley
(11) EP3982043	(32) 25.09.2020	(31) 202017032405
		(32) 25.09.2020

(33) United States of America	F24D 19/00	(32) 13.03.2019
(51) F23R 3/28	C02F 1/42	(33) Sweden
F23D 14/78	C02F 5/00	(51) F24D 19/00
F23R 3/00	E03B 7/07	C02F 1/00
F23R 3/34	E03C 1/10	C02F 5/08
(11) EP3892921	(11) EP3620723	C02F 1/68
(21) EP21164109.7	(21) EP18192979.5	F24D 3/10
(47) 26.07.2023	(47) 26.07.2023	(11) EP3458778
(22) 22.03.2021	(22) 06.09.2018	(21) EP17726009.8
(54) BURNER WITH BURNER COOLING STRUCTURES	(54) REFILLING DEVICE FOR A HYDRONIC HEATING SYSTEM AND METHOD OF OPERATING	(47) 26.07.2023
(73) General Electric Company	(73) Ademco Inc.	(87) GB2017000074
(72) LUEBCKE, Holger	(72) NEUREITHER, Patrick	23.11.2017
TERHAAR, Christian Steffen	ZDENEK, Jasa	(22) 15.05.2017
THEUER, Andre	JOOS, Pascal	(54) APPARATUS FOR AND OPERATION OF A LIQUID FLOW CIRCUIT CONTAINING A CHEMICAL ADDITIVE
BIAGIOLI, Nico	CHROMY, Ivo	(73) Sentinel Performance Solutions Ltd
(31) 202016842915	PAVELKA, Ondrej	(72) DAY, Paul
(32) 08.04.2020	RAULE, Steffen	HOCK, Jonathan Edmund
(33) United States of America	HLADKY, Josef	(31) 201608527
(51) F23R 3/34	(51) F24D 3/16	(32) 16.05.2016
F23R 3/00	F24D 3/12	(33) United Kingdom
F23R 3/60	F24D 3/14	(51) F24D 19/02
(11) EP3933268	F24D 3/02	F24D 13/02
(21) EP21179247.8	(11) EP4040051	F24H 3/04
(47) 26.07.2023	(21) EP22154951.2	F24H 9/06
(22) 14.06.2021	(47) 26.07.2023	(11) EP3916310
(54) ASSEMBLY FOR A TURBOMACHINE COMPRISING A COMBUSTOR, AN OUTER CASING AND A HIGH PRESSURE PLENUM	(22) 03.02.2022	(21) EP19919803.7
(73) General Electric Company	(54) INTERMEDIATE PRODUCT FOR MANUFACTURING AN AREA HEAT EXCHANGER AND THE LIKE	(47) 26.07.2023
(72) BHAGAT, Reena	(73) Schmöle GmbH	(87) CN2019109193
(31) 202016916483	(72) Neumann, Till	24.09.2020
(32) 30.06.2020	(31) 202021100591 U	(22) 29.09.2019
(33) United States of America	(32) 05.02.2021	(54) HOUSING STRUCTURE AND ELECTRIC HEATER PROVIDED WITH SAME
(51) F24C 14/00	(33) Germany	(73) Gree Electric Appliances, Inc. of Zhuhai
(11) EP3303931	(51) F24D 10/00	(72) XIE, Ruiliang
(21) EP16726106.4	G05D 23/19	(31) 201910214062
(47) 26.07.2023	(11) EP3983727	(32) 20.03.2019
(87) EP2016062315	(21) EP20733550.6	(33) China
15.12.2016	(47) 26.07.2023	(51) F24F 1/00
(22) 01.06.2016	(87) EP2020066161	F24F 13/02
(54) CLEANING DEVICE FOR COMMERCIAL COOKING DEVICES	17.12.2020	F24F 13/08
(73) Budich International GmbH	(22) 11.06.2020	F24F 13/24
(72) BUDICH, Meinrad	(54) METHOD AND CONTROL SERVER FOR CONTROLLING A DISTRICT THERMAL ENERGY DISTRIBUTION SYSTEM	F24F 13/20
(31) 102015109019	(73) E.ON Sverige AB	F24F 1/0025
(32) 08.06.2015	(72) ROSÉN, Per	(11) EP3640548
(33) Germany	ROSENQVIST, Fredrik	(21) EP18885141.4
(51) F24C 15/30	SKOGSTRÖM, Jacob	(47) 26.07.2023
A47B 77/00	(31) 19180029	(87) CN2018118958
(11) EP3839357	(32) 13.06.2019	13.06.2019
(21) EP20213685.9	(33) European Patent Office (EPO)	(22) 03.12.2018
(47) 26.07.2023	(51) F24D 17/00	(54) AIR CONDITIONER
(22) 14.12.2020	B60P 3/36	(73) Gree Electric Appliances, Inc. of Zhuhai
(54) BUILT-IN MODULE FOR A DOMESTIC APPLIANCE AND METHOD FOR INSTALLING A DOMESTIC APPLIANCE IN A FURNITURE BODY	C02F 9/00	(72) WANG, Zhenyong
(73) Miele & Cie. KG	E03B 1/04	FENG, Qinglong
(72) Ennen, Volker	(11) EP3712513	CHEN, Jiao
(31) 102019134567	(21) EP20162725.4	LIU, Leiming
(32) 16.12.2019	(47) 26.07.2023	LIAO, Junjie
(33) Germany	(22) 12.03.2020	HE, Zhenjian
(51) F24D 3/10	(54) A WATER DISTRIBUTION AND WATER TREATING ARCHITECTURE SYSTEM	LIN, Jinhuan
B08B 9/027	(73) Orbital Systems AB	QIN, Xiaoke
C23G 3/04	(72) RIDELL, Michael	(31) 201711299373
	(31) 1950315	(32) 08.12.2017
		(33) China
		(51) F24F 1/0014
		F24F 11/79
		F24F 13/14

F24F 13/072	(51) F24F 3/14	(21) EP18162569.0
(11) EP3575697	F24F 5/00	(47) 26.07.2023
(21) EP19177603.8	A01G 9/24	(22) 19.03.2018
(47) 26.07.2023	(11) EP3830490	(54) JUNCTION BOX FOR VENTILATION
(22) 31.05.2019	(21) EP19728522.4	(73) FläktGroup Sweden AB
(54) A CEILING TYPE AIR CONDITIONER	(47) 26.07.2023	(72) JOKELA, Hanne
AND CONTROLLING METHOD	(87) IB2019053399	SAARI, Vesa
THEREOF	06.02.2020	(31) 20175475
(73) LG ELECTRONICS INC.	(22) 24.04.2019	(32) 29.05.2017
(72) Lee, Juyoun	(54) LIQUID DESSICANT COOLER SYSTEM	(33) Finland
Kim, Jusu	AND METHOD	(51) F24F 13/08
(31) 20180063543	(73) King Abdullah University of Science and	F24F 13/14
(32) 01.06.2018	Technology	F24F 13/06
(33) Korea (Republic)	(72) LEFERS, Ryan Michael	(11) EP3418645
(51) F24F 1/01	LEIKNES, TorOve	(21) EP18174779.1
F24F 13/26	TESTER, Mark Alfred	(47) 26.07.2023
(11) EP3387329	(31) 201862757353 P	(22) 29.05.2018
(21) EP16872476.3	201862712355 P	(54) FASTENING MEANS FOR
(47) 26.07.2023	(32) 08.11.2018	FASTENING THE FRONT PLATE OF
(87) FI2016050862	31.07.2018	A VENTILATION TERMINAL DEVICE,
15.06.2017	(33) United States of America	SUCH AS A CEILING DIFFUSER, TO
(22) 09.12.2016	United States of America	THE FRAME
(54) A SUPPLY AIR DEVICE	(51) F24F 11/62	(73) FläktGroup Sweden AB
(73) Alme Solutions OY	F24F 11/70	(72) LAMPINEN, Esa
(72) HEINOVAARA, Jari	F24F 13/14	(31) 20175581
(31) 20155928	G01D 5/20	(32) 21.06.2017
(32) 09.12.2015	G01D 5/25	(33) Finland
(33) Finland	G05B 1/00	(51) F24F 13/10
(51) F24F 1/02	G01B 7/00	F24F 1/00
F24F 1/0328	(11) EP3173705	F24F 1/0007
F24F 1/04	(21) EP16196826.8	F24F 1/0018
F24F 3/16	(47) 26.07.2023	F24F 1/0057
F24F 120/12	(22) 02.11.2016	F24F 13/14
(11) EP3916311	(54) HVAC ACTUATOR WITH INDUCTIVE	(11) EP3617610
(21) EP20176350.5	POSITION SENSING	(21) EP17906866.3
(47) 26.07.2023	(73) Johnson Controls Technology Company	(47) 26.07.2023
(22) 25.05.2020	(72) ROMANOWICH, Gary A.	(87) CN2017118320
(54) METHOD OF AUTOMATICALLY	STREBE, Cory C.	01.11.2018
FOLLOWING HUMAN FOR PURIFYING	WEISS, Kevin A.	(22) 25.12.2017
AIR NEARBY	ALEXANDER, Robert K.	(54) AIR CONDITIONER
(73) Power Logic Tech. Inc.	JENKS, Russell T.	(73) Gree Electric Appliances (Wuhan) Co.,
(72) CHEN, Hung-Chou	(31) 201562260138 P	Ltd.
HSU, Chia-Heng	(32) 25.11.2015	Gree Electric Appliances, Inc. of Zhuhai
HSU, Wen-Faung	(33) United States of America	(72) DENG, Yiming
(51) F24F 3/044	(51) F24F 11/65	WANG, Chunjie
F24F 11/00	F24F 11/80	YU, Xinfeng
F24F 11/54	F24F 110/10	(31) 201710283589
F24F 11/56	F24F 110/20	(32) 26.04.2017
F24F 11/72	F24F 140/30	(33) China
F24F 13/02	F24F 13/22	(51) F24F 13/20
F24F 110/10	(11) EP3967945	F24F 1/0007
F24F 110/12	(21) EP20833691.7	F24F 1/0057
F24F 120/10	(47) 26.07.2023	(11) EP3760942
(11) EP3969820	(87) JP2020022739	(21) EP19772640.9
(21) EP20726817.8	30.12.2020	(47) 26.07.2023
(47) 26.07.2023	(22) 09.06.2020	(87) CN2019103801
(87) EP2020063861	(54) AIR CONDITIONING SYSTEM	26.11.2020
26.11.2020	(73) DAIKIN INDUSTRIES, LTD.	(22) 30.08.2019
(22) 18.05.2020	(72) FUJITA Naotoshi	(54) AIR-CONDITIONING INDOOR UNIT
(54) METHOD AND INSTALLATION FOR	UMASE Shinya	AND AIR CONDITIONER
THE MULTIZONAL HOT AND/OR	TATSUMI Kouji	(73) Midea Group Co., Ltd.
COLD THERMAL REGULATION OF A	KAWAGISHI Masaaki	GD Midea Air-Conditioning Equipment
BUILDING VIA AN AIR NETWORK	OKAMOTO Yasunori	Co., Ltd.
(73) Baillindustrie	(31) 2019118856	(72) CAI, Zhicai
(72) BAILLOEUIL, Alain	(32) 26.06.2019	LUO, Wenjun
(31) 1905188	(33) Japan	ZOU, Kuifang
(32) 17.05.2019	(51) F24F 13/06	(31) 201920749002 U
(33) France	(11) EP3410028	(32) 22.05.2019

(33) China	H02S 20/23	(73) Oxford Instruments Nanotechnology Tools Limited
(51) F24H 1/34	(11) EP3818311	(72) MATTHEWS, Anthony
F24H 1/40	(21) EP19735322.0	(31) 202002653
F28D 9/00	(47) 26.07.2023	(32) 25.02.2020
F28D 20/02	(87) EP2019067963	(33) United Kingdom
F28F 3/04	09.01.2020	(51) F25B 9/14
F28D 21/00	(22) 04.07.2019	F25D 19/00
F24H 1/30	(54) SOLAR ROOF FORMING ELEMENT, BUILDING, AND METHOD OF FORMING A ROOF	(11) EP4025845
F24H 1/32	(73) SABIC Global Technologies B.V.	(21) EP20764432.9
F24H 1/44	(72) VAN GIESEN, Roland	(47) 26.07.2023
(11) EP3327371	VENDERBOSCH, Robert Walter	(87) EP2020074869
(21) EP16828002.2	YANEVA, Petya Dochkova	11.03.2021
(47) 26.07.2023	STEENBAKKERS-MENTING, Henrica Norberta Alberta Maria	(22) 04.09.2020
(87) KR2016007715	VERLAEK, Roeland Leonardus Hubertus Maria	(54) REGENERATIVE CRYOGENIC MACHINE
26.01.2017	(31) 18181759	(73) Absolut System
(22) 15.07.2016	(32) 04.07.2018	(72) TANCHON, Julien
(54) HEAT EXCHANGER	(33) European Patent Office (EPO)	(31) 1909710
(73) Kyungdong Navien Co., Ltd.	(51) F24S 50/20	(32) 04.09.2019
(72) JEONG, Inchul	F24S 30/425	(33) France
(31) 20150104093	(11) EP3392576	(51) F25B 15/04
(32) 23.07.2015	(21) EP18167740.2	(11) EP4116640
(33) Korea (Republic)	(47) 26.07.2023	(21) EP22183504.4
(51) F24S 25/11	(22) 17.04.2018	(47) 26.07.2023
H02S 20/00	(54) SOLAR TRACKER HAVING A BIDIRECTIONAL LIMIT SWITCH DEVICE	(22) 07.07.2022
(11) EP3472401	(73) Soltec America, LLC	(54) SYSTEM FOR PRODUCING COLD AND ELECTRICITY FROM A LOW TEMPERATURE HEAT SOURCE, ALLOWING ADJUSTMENT OF THE RATIO BETWEEN PRODUCTION OF COLD AND OF ELECTRICITY.
(21) EP17814231.1	(72) CASTEJÓN MUÑOZ, Javier	(73) Commissariat à l'énergie atomique et aux énergies alternatives
(47) 26.07.2023	FERNÁNDEZ LUQUE, Francisco Jesús	Université Savoie Mont Blanc
(87) US2017038017	CHAOUKI ALMAGRO, Samir	Centre national de la recherche scientifique
21.12.2017	(31) 201715488605	(72) BRACCIO, Simone
(22) 16.06.2017	(32) 17.04.2017	TAUVERON, Nicolas
(54) SOLAR MODULE MOUNTING AND SUPPORT SYSTEM	(33) United States of America	PHAN, Hai Trieu
(73) PowerField Energy LLC	(51) F25B 1/00	LE PIERRES, Nolwenn
(72) BURDICK, Paul	C09K 5/04	(31) 2107442
FLORY, David	F25B 43/00	(32) 08.07.2021
(31) 201662412891 P	(11) EP3553416	(33) France
201662351593 P	(21) EP17878982.2	(51) F25B 21/00
(32) 26.10.2016	(47) 26.07.2023	H05B 3/02
17.06.2016	(87) JP2017039252	(11) EP4028701
(33) United States of America	14.06.2018	(21) EP20781154.8
United States of America	(22) 31.10.2017	(47) 26.07.2023
(51) F24S 25/13	(54) HEAT TRANSPORT DEVICE AND HEAT TRANSPORT METHOD USING SAME	(87) US2020050292
F24S 25/70	(73) Daikin Industries, Ltd.	18.03.2021
F16B 43/00	(72) Koba, Kouhei	(22) 11.09.2020
F16B 7/18	TANAKA, Masaru	(54) ELECTROCALORIC FIBER, FABRIC AND SYSTEM COMPRISING SAME
F16B 2/00	TSUCHIYA, Tatsumi	(73) Carrier Corporation
F16B 39/282	(31) 2016239242	(72) BURLATSKY, Sergei F.
F24S 25/00	(32) 09.12.2016	EASTMAN, Scott Alan
(11) EP3999789	(33) Japan	(31) 201962899394 P
(21) EP20742350.0	(51) F25B 9/10	(32) 12.09.2019
(47) 26.07.2023	F25B 9/12	(33) United States of America
(87) FR2020051036	F25B 9/14	(51) F25B 21/02
21.01.2021	F25D 19/00	(11) EP3885674
(22) 16.06.2020	F28D 15/02	(21) EP21159047.6
(54) TIE ROD FOR AN IN PARTICULAR TRELLIS STRUCTURE	(11) EP4111107	(47) 26.07.2023
(73) Nexans	(21) EP21707003.6	(22) 24.02.2021
(72) VIENNOIS, Fabien	(47) 26.07.2023	(54) DEVICE FOR GENERATING COLD AND POWER ACCORDING TO THE PELTIER EFFECT
TORDO, Jérôme	(87) GB2021050375	
(31) 1907919	02.09.2021	
(32) 15.07.2019	(22) 16.02.2021	
(33) France	(54) GAS GAP HEAT SWITCH CONFIGURATION	
(51) F24S 25/67		
F24S 20/67		
E04D 1/30		
E04D 3/32		
E04D 3/362		
E04D 3/365		

(73) Weißhaar, Peter	(31) 2019223963	A REFRIGERATED CABINET WITH A
(72) Weißhaar, Peter	(32) 11.12.2019	RESERVOIR
(31) 102020106024	(33) Japan	(73) Viessmann Refrigeration Solutions
(32) 05.03.2020	(51) F25B 49/02	GmbH
(33) Germany	(11) EP3757486	(72) ODENDAHL, Gerd
(51) F25B 21/02	(21) EP20182370.5	GEITZ, Benedikt
H10N 10/17	(47) 26.07.2023	VAUPEL, Manfred
F25B 21/04	(22) 25.06.2020	(31) 102017109357
(11) EP3660416	(54) SYSTEMS AND METHODS FOR	(32) 02.05.2017
(21) EP18837847.5	CONTROLLING DIFFERENTIAL	(33) Germany
(47) 26.07.2023	REFRIGERANT PRESSURE	(51) F25D 3/12
(87) KR2018008562	(73) Trane International Inc.	F17C 6/00
31.01.2019	(72) KOENIGSECKER, Stephane David	(11) EP3728967
(22) 27.07.2018	RAIMBAULT, Yves Jacques	(21) EP18839979.4
(54) COOLING/WARMING DEVICE	TISSERAND, Philippe Del Marcel	(47) 26.07.2023
(73) LG Innotek Co., Ltd.	(31) 201916457351	(87) US2018066120
(72) SOHN, Hyung Min	(32) 28.06.2019	27.06.2019
(31) 20170096479	(33) United States of America	(22) 18.12.2018
(32) 28.07.2017	(51) F25B 49/02	(54) METHODS FOR AUTOMATIC FILLING,
(33) Korea (Republic)	F25B 5/04	CHARGING AND DISPENSING
(51) F25B 27/00	F25B 31/00	CARBON DIOXIDE SNOW BLOCK
F25B 49/00	(11) EP4115128	(73) Praxair Technology, Inc.
G01N 1/22	(21) EP21737336.4	(72) ZHOU, Ying
F02D 41/22	(47) 26.07.2023	BURSAC, Ranko
F02D 19/02	(87) BY2021000007	SEVER, Robert
F02D 29/04	17.11.2022	(31) 201816221906
F02D 33/00	(22) 12.05.2021	201762599949 P
F02D 41/00	(54) COOLING DEVICE	(32) 17.12.2018
F02D 29/06	(73) Huawei Digital Power Technologies Co.,	18.12.2017
B60H 1/32	Ltd.	(33) United States of America
B60P 3/20	(72) QIU, Yongqi	United States of America
(11) EP3586073	(51) F25C 1/04	(51) F25D 11/02
(21) EP17715779.9	F25C 5/08	F25D 17/06
(47) 26.07.2023	F25B 39/02	(11) EP3926263
(87) IB2017000309	F25C 1/08	(21) EP20763168.0
30.08.2018	(11) EP3851765	(47) 26.07.2023
(22) 24.02.2017	(21) EP19861141.0	(87) CN2020075703
(54) METHANE-POWERED	(47) 26.07.2023	03.09.2020
REFRIGERATION UNIT	(87) KR2019011413	(22) 18.02.2020
(73) Carrier Corporation	19.03.2020	(54) REFRIGERATOR HAVING RETURN AIR
(72) RENAULT, Loic	(22) 04.09.2019	INLETS FORMED IN TWO SIDE WALLS
(51) F25B 39/00	(54) EVAPORATOR FOR ICE MAKER	OF REFRIGERATOR BODY
F25B 39/02	(73) Woongjin Coway Co., Ltd.	(73) Qingdao Haier Refrigerator Co., Ltd.
F25B 39/04	(72) KIM, Kyu-Jun	Haier Smart Home Co., Ltd.
F28F 21/08	LEE, Gyeong-Min	(72) LI, Wei
F28F 19/06	LEE, Kwon-Jae	CAO, Dongqiang
F24F 11/89	LEE, Jung-Hwan	LIU, Shanshan
F24F 140/20	KIM, Jae-Man	(31) 201910142805
F24F 13/20	KANG, Myeong-Hoon	(32) 26.02.2019
F24F 1/0067	JEON, Doo-Youl	(33) China
F24F 1/22	CHOI, Jin-Woo	(51) F25D 11/02
F25B 49/02	(31) 20180110494	F25D 17/06
F25D 29/00	(32) 14.09.2018	F25D 17/08
F28F 27/00	(33) Korea (Republic)	(11) EP3926264
G01K 1/14	(51) F25D 3/00	(21) EP20763756.2
(11) EP4053473	A47F 3/04	(47) 26.07.2023
(21) EP20897944.3	F25D 16/00	(87) CN2020075881
(47) 26.07.2023	F28D 20/02	03.09.2020
(87) JP2020033819	F25D 11/00	(22) 19.02.2020
17.06.2021	(11) EP3619483	(54) REFRIGERATOR HAVING
(22) 07.09.2020	(21) EP18716516.2	CENTRIFUGAL FAN WITH VOLUTE
(54) HEAT EXCHANGER, INDOOR UNIT	(47) 26.07.2023	(73) Qingdao Haier Refrigerator Co., Ltd.
FOR AIR-CONDITIONER, AND	(87) EP2018056335	Haier Smart Home Co., Ltd.
REFRIGERATION DEVICE	08.11.2018	(72) WU, Shujuan
(73) Daikin Industries, Ltd.	(22) 14.03.2018	ZHAO, Fa
(72) SASAI, Yasuhiro	(54) REFRIGERATED CABINET WITH A	WANG, Jing
AGOU, Shouta	RESERVOIR, COOLING SYSTEM	REN, Shufei
NAKANO, Hiroyuki	AND METHOD FOR CONTROLLING	NODA, Toshinori

(31) 201910143307	(22) 26.01.2016	(33) Germany
(32) 26.02.2019	(54) FOOD CONTAINER WITH A SPECIFICALLY ATTACHED DECORATION FOIL AS WELL AS A HOUSEHOLD REFRIGERATOR WITH SUCH A FOOD CONTAINER	(51) F28B 1/06
(33) China	(73) BSH Hausgeräte GmbH	F16L 3/02
(51) F25D 17/04	(72) LUX, Denis	F25B 39/04
F25D 17/06	DEISSLER, Stefan	F28B 9/08
F25D 27/00	PFISTER, Bernd	F28D 1/053
A61L 9/015	(31) 102015202889	(11) EP3688396
A61L 2/20	(32) 18.02.2015	(21) EP18861811.0
(11) EP4012303	(33) Germany	(47) 26.07.2023
(21) EP21214205.3	(51) F25D 29/00	(87) US2018052813
(47) 26.07.2023	F25D 23/02	04.04.2019
(22) 13.12.2021	(11) EP3147609	(22) 26.09.2018
(54) REFRIGERATOR	(21) EP16187178.5	(54) AIR-COOLED CONDENSER SYSTEM
(73) Whirlpool Corporation	(47) 26.07.2023	(73) Holtec International
(72) Limanskiy, Semen Viktorovich	(22) 05.09.2016	(72) SINGH, Krishna P.
(31) 202017120915	(54) A REFRIGERATOR DOOR INCLUDING AN EXTERIOR MEMBER	(31) 201762564000 P
(32) 14.12.2020	(73) LG ELECTRONICS INC.	(32) 27.09.2017
(33) United States of America	(72) MOON, Byungchun	(33) United States of America
(51) F25D 17/06	KIM, Sunggab	(51) F28C 1/00
(11) EP3550232	KIM, Pojin	F28C 3/00
(21) EP19151640.0	LEE, Kuhyeong	H01M 10/625
(47) 26.07.2023	KIM, Youngwoo	H01M 10/6569
(22) 14.01.2019	KOO, Jahun	H01M 10/6567
(54) REFRIGERATOR	(31) 20150144990	(11) EP3724587
(73) LG Electronics Inc.	20150140035	(21) EP18842532.6
(72) Lee, Sanggyun	20150137132	(47) 26.07.2023
Lee, Younseok	(32) 16.10.2015	(87) FR2018053294
Dong, Yongwon	05.10.2015	20.06.2019
Kim, Dongseok	25.09.2015	(22) 14.12.2018
(31) 20180038184	(33) Korea (Republic)	(54) DEVICE FOR REGULATING THE TEMPERATURE OF A BATTERY USING A DIELECTRIC FLUID, AND BATTERY PACK COMPRISING SUCH A DEVICE
(32) 02.04.2018	Korea (Republic)	(73) Valeo Systemes Thermiques-THS
(33) Korea (Republic)	Korea (Republic)	(72) AZZOUZ, Kamel
(51) F25D 21/02	(51) F25J 3/02	MAMMERI, Amrid
F25D 21/08	C01B 3/50	(31) 1762159
(11) EP3977029	C01B 32/40	(32) 14.12.2017
(21) EP19728041.5	(11) EP3147612	(33) France
(47) 26.07.2023	(21) EP16002035.0	(51) F28D 7/00
(87) EP2019064135	(47) 26.07.2023	F02C 7/18
03.12.2020	(22) 20.09.2016	F28D 7/08
(22) 30.05.2019	(54) METHOD AND SYSTEM FOR SEPARATION OF A GAS MIXTURE	F28D 7/16
(54) DEVICE FOR DETECTING FORMATION OF WATER ICE	(73) Linde GmbH	F28F 9/02
(73) Vestel Elektronik Sanayi ve Ticaret A.S.	(72) Klein, Bernd	F28D 1/047
(72) USLU, Mutlu	(31) 102015012317	F28F 1/02
YALIN, Nevzat	(32) 23.09.2015	(11) EP3889535
(51) F25D 23/02	(33) Germany	(21) EP21154252.7
F25D 23/00	(51) F27B 7/40	(47) 26.07.2023
(11) EP4040092	F26B 11/04	(22) 29.01.2021
(21) EP20891596.7	F28F 1/40	(54) DUCT MOUNTED HEAT EXCHANGER
(47) 26.07.2023	F27D 15/02	(73) Raytheon Technologies Corporation
(87) CN2020117102	F28D 11/04	(72) ROBERGE, Gary D.
03.06.2021	F27D 9/00	(31) 202016784630
(22) 23.09.2020	(11) EP3794295	(32) 07.02.2020
(54) REFRIGERATOR	(21) EP19727590.2	(33) United States of America
(73) Qingdao Haier Refrigerator Co., Ltd.	(47) 26.07.2023	(51) F28D 20/00
Haier Smart Home Co., Ltd.	(87) EP2019000140	(11) EP3789196
(72) LIU, Wenlong	21.11.2019	(21) EP20194617.5
MA, Mingming	(22) 10.05.2019	(47) 26.07.2023
(31) 201911206381	(54) ROTARY TUBE APPARATUS	(22) 04.09.2020
(32) 29.11.2019	(73) Grenzbach BSH GmbH	(54) A THERMAL ENERGY STORAGE PLANT
(33) China	(72) SCHULTHEIS, Niclas	(73) Aalborg CSP A/S
(51) F25D 23/04	(31) 102018003840	RK Projektentwicklungs- und
(11) EP3259541	(32) 14.05.2018	Beteiligungs GmbH
(21) EP16701510.6		(72) BOBACH, Morten Vang
(47) 26.07.2023		(31) PA201970563
(87) EP2016051535		
25.08.2016		

(32) 09.09.2019	(87) US2018031122	(54) INTEGRALLY SUPPRESSED
(33) Denmark	08.11.2018	HANDGUN
(51) F28D 20/00	(22) 04.05.2018	(73) STURM, RUGER & COMPANY, INC.
(11) EP3795936	(54) HEAT EXCHANGER FOR HEAT PUMP	(72) BARRETT, Jonathan
(21) EP20195858.4	APPLICATIONS	(31) 201862626450 P
(47) 26.07.2023	(73) Carrier Corporation	(32) 05.02.2018
(22) 11.09.2020	(72) SAITO, Kazuo	(33) United States of America
(54) STORAGE SYSTEM FOR THE	LEFFLER, Robert A.	(51) F41H 13/00
THERMOCHEMICAL STORAGE	JOARDAR, Arindom	(11) EP3807587
OF ENERGY AND METHOD FOR	(31) 201762502222 P	(21) EP19733095.4
OPERATING A STORAGE SYSTEM	(32) 05.05.2017	(47) 26.07.2023
(73) Deutsches Zentrum für Luft- und	(33) United States of America	(87) GB2019051636
Raumfahrt e.V.	(51) F28F 9/02	19.12.2019
(72) LINDER, Marc Philipp	F28D 1/053	(22) 13.06.2019
RISTHAUS, M. Sc. Kai	(11) EP3825638	(54) APPARATUS FOR A DIRECTED-
SCHMIDT, Matthias	(21) EP20193812.3	ENERGY WEAPON
(31) 102019125540	(47) 26.07.2023	(73) BAE SYSTEMS plc
(32) 23.09.2019	(22) 01.09.2020	(72) COLOSIMO, Nicholas Giacomo Robert
(33) Germany	(54) INTEGRATED HORN STRUCTURES	RIGBY, Keith Antony
(51) F28F 1/30	FOR HEAT EXCHANGER HEADERS	(31) 201809671
F25B 39/02	(73) Hamilton Sundstrand Corporation	18275079
F28D 1/053	(72) NORMAN, Joshua M.	(32) 13.06.2018
F28F 19/00	(31) 201916690975	13.06.2018
F28F 1/32	(32) 21.11.2019	(33) United Kingdom
F28F 1/12	(33) United States of America	European Patent Office (EPO)
F28F 1/02	(51) F41A 9/37	(51) F41J 9/18
F28D 21/00	F41A 9/20	(11) EP4031828
(11) EP3483544	F41A 9/22	(21) EP20768072.9
(21) EP16908178.3	F41A 9/42	(47) 26.07.2023
(47) 26.07.2023	F42B 5/38	(87) EP2020075648
(87) JP2016070185	F41A 3/10	25.03.2021
11.01.2018	(11) EP3875882	(22) 14.09.2020
(22) 07.07.2016	(21) EP21152302.2	(54) TARGET LAUNCHING DEVICE
(54) HEAT EXCHANGER	(47) 26.07.2023	(73) Laporte Holding
(73) Mitsubishi Electric Corporation	(22) 19.01.2021	(72) LAPORTE, Jean-Michel
(72) ITO, Daisuke	(54) DEVICE FOR SECURING A MUNITION	FOUQUES, Jean-Marc
KOMIYA, Yuta	OR PROPELLANT CHARGE AND	(31) 1910253
(51) F28F 9/02	WEAPON SYSTEM COMPRISING	(32) 17.09.2019
F25B 39/02	SUCH A DEVICE	(33) France
F28D 1/053	(73) Rheinmetall Waffe Munition GmbH	(51) F42B 3/12
F28D 1/04	(72) LAWITZKE, Klaus	(11) EP3987243
F28D 21/00	RABE, Jesko	(21) EP20737284.8
F28F 1/02	(31) 102020106157	(47) 26.07.2023
F28F 1/32	(32) 06.03.2020	(87) IB2020055577
F28F 9/26	(33) Germany	24.12.2020
F28F 19/00	(51) F41A 21/12	(22) 15.06.2020
F28F 1/12	F41A 3/30	(54) CIRCUIT FOR CONTROLLING
(11) EP3647711	(11) EP3800432	THE FIRING OF A PYROTECHNIC
(21) EP18842154.9	(21) EP19211234.0	COMPONENT
(47) 26.07.2023	(47) 26.07.2023	(73) Nexter Munitions
(87) JP2018022761	(22) 25.11.2019	(72) PERON, Jean-Luc
07.02.2019	(54) BOLT HEAD FOR A FIREARM	(31) 1906632
(22) 14.06.2018	(73) Glock Technology GmbH	(32) 21.06.2019
(54) HEAT EXCHANGER	(72) Markut, Karl	(33) France
(73) Mitsubishi Heavy Industries Thermal	(31) 19201453	(51) F42B 10/48
Systems, Ltd.	(32) 04.10.2019	F42B 10/52
(72) TATENOI, Hideaki	(33) European Patent Office (EPO)	(11) EP3800436
HARA, Yoshihiro	(51) F41A 21/28	(21) EP20199563.6
AOKI, Yasutaka	F41A 21/30	(47) 26.07.2023
SAKAI, Masayuki	F41A 21/32	(22) 01.10.2020
(31) 2017149664	F41A 3/66	(54) SHORTENED RANGE PROJECTILE
(32) 02.08.2017	F41C 23/16	(73) RWM Schweiz AG
(33) Japan	(11) EP3749913	(72) Engler, Markus Erwin
(51) F28F 9/02	(21) EP19746567.7	Arnold, Christian
F28D 1/00	(47) 26.07.2023	(31) 102019126585
(11) EP3619492	(87) US2019016586	(32) 02.10.2019
(21) EP18727502.9	08.08.2019	(33) Germany
(47) 26.07.2023	(22) 05.02.2019	

(51) F42B 12/40 F42C 1/04	(51) G01B 9/02 G01J 3/453	HASHIMOTO, Kazuki (31) 2015033520
(11) EP3546881	G01N 21/45	(32) 24.02.2015
(21) EP19164499.6	G01N 11/10	(33) Japan
(47) 26.07.2023	G01N 15/14	<hr/>
(22) 22.03.2019	G01N 21/64	(51) G01B 11/06
(54) PROJECTILE WITH BASE IGNITER AND MARKING CHARGE	(11) EP3835718	G01B 9/02
(73) RWM Schweiz AG	(21) EP21151195.1	G01N 21/86
(72) PFAFF, Andreas	(47) 26.07.2023	(11) EP3816573
(31) 102018107182	(22) 27.08.2012	(21) EP19206861.7
(32) 26.03.2018	(54) APPARATUS FOR PROVIDING MICRO- OPTICAL COHERENCE TOMOGRAPHY INSIDE A RESPIRATORY SYSTEM	(47) 26.07.2023
(33) Germany	(73) The General Hospital Corporation The UAB Research Foundation	(22) 04.11.2019
<hr/>	(72) ROWE, Steven M. CHU, Kengyeh Ken	(54) DEVICE AND METHOD FOR ANALYZING A MULTI-LAYER PLASTIC SHEET
(51) F42B 12/44 F42B 33/00	BOUMA, Brett Eugene	(73) Hch. Kündig & Cie. AG
(11) EP3338050	DIRKSEN, Gregory Andrew	(72) Hess, Hanspeter
(21) EP16756661.1	LIU, Linbo	Hänggli, Markus
(47) 26.07.2023	SORSCHER, Eric J.	<hr/>
(87) EP2016069462	WILSTERMAN JR., Eric James	(51) G01B 11/24
23.02.2017	TEARNEY, Guillermo J.	G01B 11/26
(22) 17.08.2016	(31) 201161527701 P	G01N 21/86
(54) PROJECTILE COMPRISING A COMPOSITE MATERIAL AND A PRODUCTION METHOD FOR SUCH PROJECTILES	201161527446 P	G01N 21/88
(73) RUAG Ammotec AG	(32) 26.08.2011	G01N 21/89
(72) MUSTER, Michael	25.08.2011	G06T 7/00
JAUZION- GRAVEROLLE, Franck	(33) United States of America	G06T 7/521
BUCHER, Markus	United States of America	H04N 23/56
STRÄHL, Daniel	<hr/>	(11) EP3182060
(31) 15181275	(51) G01B 9/02004	(21) EP16803373.6
(32) 17.08.2015	G01B 9/02056	(47) 26.07.2023
(33) European Patent Office (EPO)	G01B 9/02055	(87) JP2016066159
<hr/>	G01B 9/02	08.12.2016
(51) F42B 19/22 F42B 19/24	G01B 11/14	(22) 01.06.2016
(11) EP3736526	G01N 21/41	(54) SHAPE INSPECTION APPARATUS FOR METALLIC BODY AND SHAPE INSPECTION METHOD FOR METALLIC BODY
(21) EP19212099.6	G01N 21/45	(73) Nippon Steel Corporation
(47) 26.07.2023	G01S 17/34	(72) KONNO, Yusuke
(22) 28.11.2019	(11) EP3420304	UMEMURA, Jun
(54) MULTI-USE TORPEDO PROPULSION SYSTEM STARTER	(21) EP17706778.2	YAMAJI, Hironao
(73) Hamilton Sundstrand Corporation	(47) 26.07.2023	AKAGI, Toshio
(72) HIMMELMANN, Richard A.	(87) EP2017054128	(31) 2015114539
(31) 201916409474	31.08.2017	(32) 05.06.2015
(32) 10.05.2019	(22) 23.02.2017	(33) Japan
(33) United States of America	(54) MEASURING A CAVITY BY MEANS OF INTERFERENCE SPECTROSCOPY	<hr/>
<hr/>	(73) Habrich, Björn	(51) G01B 11/24
(51) G01B 9/02 G01B 9/02055	(72) Habrich, Björn	G01M 13/021
G01B 11/24	(31) 102016103109	(11) EP3701218
G03H 1/04	(32) 23.02.2016	(21) EP18801123.3
G01B 9/02001	(33) Germany	(47) 26.07.2023
G01B 9/02015	<hr/>	(87) US2018057000
(11) EP3581879	(51) G01B 11/00	02.05.2019
(21) EP19178393.5	G01N 21/01	(22) 23.10.2018
(47) 26.07.2023	G01N 21/64	(54) MEASUREMENT OF TOOTHED ARTICLES ON A COMPOSITE MACHINE TESTER PLATFORM UTILIZING A NON-CONTACT SENSOR
(22) 05.06.2019	H03M 7/30	(73) Gleason Metrology Systems Corporation
(54) METHOD AND DEVICE FOR INTERFEROMETRIC MEASUREMENT OF A SURFACE OF A MOVING SPECIMEN	(11) EP3264031	(72) WAGAJ, Parag Prakash
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	(21) EP16755545.7	SHEPHERD, Ethan James
(72) SCHILLER, Annelie	(47) 26.07.2023	TANNER, Michael R.
BECKMANN, Tobias	(87) JP2016055412	BEERCK, Douglas Charles
FRATZ, Markus	01.09.2016	DAMRON, Edward J.
(31) 102018113979	(22) 24.02.2016	SLUSSER, Aaron Timothy
(32) 12.06.2018	(54) DYNAMIC HIGH-SPEED HIGH- SENSITIVITY IMAGING DEVICE AND IMAGING METHOD	(31) 201762575631 P
(33) Germany	(73) Osaka University The University of Tokyo	(32) 23.10.2017
<hr/>	(72) OTA, Sadao	(33) United States of America
	HORISAKI, Ryoichi	<hr/>
		(51) G01B 11/25
		(11) EP3889541
		(21) EP21161782.4

(47) 26.07.2023	G01B 11/24	KUMAGAI, Kaoru
(22) 10.03.2021	G06T 7/55	OHTOMO, Fumio
(54) IMAGING SYSTEM AND METHOD USING PROJECTION APPARATUS	G01S 17/89	(31) 2019107780
(73) Varjo Technologies Oy	(11) EP3896388	(32) 10.06.2019
(72) Ollila, Mikko	(21) EP19910611.3	(33) Japan
Melakari, Klaus	(47) 26.07.2023	(51) G01C 17/28
(31) 202016836046	(87) JP2019018759	G01C 17/38
(32) 31.03.2020	23.07.2020	G01V 3/15
(33) United States of America	(22) 10.05.2019	G01V 13/00
(51) G01B 11/25	(54) THREE-DIMENSIONAL RECONSTRUCTION SYSTEM, THREE-DIMENSIONAL RECONSTRUCTION METHOD, AND THREE-DIMENSIONAL RECONSTRUCTION PROGRAM	G01V 1/38
A61C 9/00	(11) EP3555564	(21) EP17816730.0
G02B 27/42	(21) EP17816730.0	(47) 26.07.2023
(11) EP4100694	(73) MITSUBISHI ELECTRIC CORPORATION	(87) EP2017082436
(21) EP21836376.0	(72) SAKATA Shintaro	21.06.2018
(47) 26.07.2023	MIZUNO Shinji	(22) 12.12.2017
(87) EP2021084571	SAKAKIBARA Takumi	(54) CALIBRATION OF A MAGNETOMETER IN A TOWED OBJECT TELEMETRY UNIT BASED ON ROLL AND TURN DATA
23.06.2022	MINAGAWA Jun	(73) PGS Geophysical AS
(22) 07.12.2021	OKAHARA Kohei	(72) SÜDOW, Mattias
(54) METHOD AND INTRAORAL SCANNER FOR DETECTING THE TOPOGRAPHY OF THE SURFACE OF A TRANSLUCENT OBJECT, IN PARTICULAR A DENTAL OBJECT	YAMAZAKI Kento	(31) 201715834182
(73) Infinisense Technologies GmbH	(31) 2019004819	201662433370 P
(72) ULRICH, Nicolas Emanuel	(32) 16.01.2019	(32) 07.12.2017
WISSMANN, Patrick	(33) Japan	13.12.2016
(31) 102020133627	(51) G01C 3/00	(33) United States of America
(32) 15.12.2020	G01B 11/02	United States of America
(33) Germany	(11) EP3416370	(51) G01C 19/5684
(51) G01B 11/26	(21) EP16894878.4	(11) EP3779359
G06T 7/70	(47) 26.07.2023	(21) EP19215705.5
G06V 10/42	(87) CN2016077119	(47) 26.07.2023
G06V 20/64	28.09.2017	(22) 12.12.2019
(11) EP3438604	(22) 23.03.2016	(54) IMPROVED NOISE PERFORMANCE FOR VIBRATING STRUCTURE GYROSCOPES
(21) EP17184994.6	(54) PHOTOGRAPHY FOCUSING METHOD, DEVICE, AND APPARATUS FOR TERMINAL	(73) Atlantic Inertial Systems Limited
(47) 26.07.2023	(73) Huawei Technologies Co., Ltd.	(72) FELL, Christopher Paul
(22) 04.08.2017	(72) GUO, Xin	(31) 201911534
(54) METHOD FOR DETERMINING A POSITION OF AN AT LEAST PARTIALLY LINEAR OBJECT AND AUTOCOLLIMATOR	LUO, Wei	(32) 12.08.2019
(73) Bundesrepublik Deutschland, vertreten durch das Bundesministerium für Wirtschaft und Energie, endvertreten durch den Präsidenten der PTB	WU, Jin	(33) United Kingdom
(72) Schumann, Matthias	RONG, Huaiyang	(51) G01C 21/00
Geckeler, Ralf Dieter	DU, Cheng	(11) EP3671120
(51) G01B 21/04	(51) G01C 3/06	(21) EP18212851.2
G01B 11/06	B60R 21/00	(47) 26.07.2023
(11) EP3460390	H04N 13/00	(22) 17.12.2018
(21) EP18156150.7	(11) EP3211368	(54) ENHANCING THE ACCURACY FOR DEVICE LOCALIZATION
(47) 26.07.2023	(21) EP15852427.2	(73) HERE Global B.V.
(22) 09.02.2018	(47) 26.07.2023	(72) IVANOV, Pavel
(54) DISPLACEMENT MEASUREMENT DEVICE, MEASUREMENT SYSTEM, AND DISPLACEMENT MEASUREMENT METHOD	(87) JP2015005346	WIROLA, Lauri Aarne Johannes
(73) OMRON CORPORATION	28.04.2016	NURMINEN, Henri Jaakko Julius
(72) SUZUKI, Yuta	(22) 23.10.2015	(51) G01C 21/24
MATOBA, Kenichi	(54) STEREO CAMERA APPARATUS AND VEHICLE PROVIDED WITH STEREO CAMERA APPARATUS	(11) EP3293484
KONDO, Tomonori	(73) Kyocera Corporation	(21) EP16867581.7
(31) 2017185000	(72) OHARA, Naoto	(47) 26.07.2023
(32) 26.09.2017	(31) 2014217370	(87) CN2016080675
(33) Japan	(32) 24.10.2014	01.06.2017
(51) G01B 21/20	(33) Japan	(22) 29.04.2016
G01B 11/245	(51) G01C 11/06	(54) ASTRONOMICAL VELOCITY MEASUREMENT AND GROUND RADIO BASED MARS CAPTURE PHASE NAVIGATION METHOD
G01B 21/04	G01C 15/00	(73) Shanghai Institute of Satellite Engineering
	(11) EP3754297	(72) ZHANG, Wei
	(21) EP20177932.9	CHEN, Xiao
	(47) 26.07.2023	DU, Yang
	(22) 03.06.2020	
	(54) SURVEYING INSTRUMENT	
	(73) TOPCON CORPORATION	
	(72) ANAI, Tetsuji	

YOU, Wei	JÜRGENS, Stefan	G01D 5/244
ZHANG, Wei	BOHLKE, Henrik	G01R 33/00
(31) 201510847818	RECH, Bernd	G01R 33/07
(32) 27.11.2015	HUNGAR, Constanze	(11) EP3704400
(33) China	WILBERS, Daniel	(21) EP18782715.9
(51) G01C 21/30	MERFELS, Christian	(47) 26.07.2023
G01C 21/36	(31) 102020115746	(87) EP2018076856
G01C 21/00	(32) 15.06.2020	09.05.2019
G06V 20/56	(33) Germany	(22) 02.10.2018
G08G 1/16	(51) G01C 25/00	(54) MAGNETIC FIELD SENSOR AND
G09B 29/00	(11) EP3299769	METHOD FOR MOUNTING A MAGNET
(11) EP3819594	(21) EP17001442.7	(73) ZF Friedrichshafen AG
(21) EP18925560.7	(47) 26.07.2023	(72) KRAHN, Stefan
(47) 26.07.2023	(22) 28.08.2017	STRATMANN, Julian
(87) IB2018000830	(54) SELF-CALIBRATION OF AN INERTIAL	KLANK, Michael
09.01.2020	SYSTEM	(31) 102017219584
(22) 04.07.2018	(73) Northrop Grumman Systems Corporation	(32) 03.11.2017
(54) TRAVEL ASSISTANCE METHOD AND	(72) Trusov, Alexander	(33) Germany
TRAVEL ASSISTANCE DEVICE	McCammon, George H.	(51) G01D 5/20
(73) NISSAN MOTOR CO., LTD.	Phillips, Mark R.	G01D 18/00
Renault s.a.s	(31) 201615256168	(11) EP4047323
(72) MIYAGAWA, Tadahisa	(32) 02.09.2016	(21) EP21157650.9
(51) G01C 21/34	(33) United States of America	(47) 26.07.2023
G08G 1/01	(51) G01C 25/00	(22) 17.02.2021
G08G 1/0968	G01C 21/16	(54) INDUCTIVE ANGULAR SENSOR
(11) EP3299766	(11) EP3983759	METHOD AND SYSTEM
(21) EP17167338.7	(21) EP20731504.5	(73) Melexis Technologies SA
(47) 26.07.2023	(47) 26.07.2023	(72) Akermi, Yassine
(22) 20.04.2017	(87) EP2020066436	Jordan, Paul
(54) NODE-CENTRIC NAVIGATION	17.12.2020	El-Shennawy, Mohammed
OPTIMIZATION	(22) 15.06.2020	(51) G01D 5/245
(73) HERE Global B.V.	(54) METHOD FOR MONITORING THE	(11) EP3803278
(72) LINDER, Eric	PERFORMANCE OF INERTIAL	(21) EP19726997.0
(31) 201615135863	MEASUREMENT UNITS	(47) 26.07.2023
(32) 22.04.2016	(73) Safran Electronics & Defense	(87) EP2019063659
(33) United States of America	(72) DELHAYE, Fabrice	28.11.2019
(51) G01C 21/36	ELIE, Philippe	(22) 27.05.2019
G01C 21/00	BRUNSTEIN, Etienne	(54) ABSOLUTE ENCODER
(11) EP3859281	(31) 1906413	(73) Sensitec GmbH
(21) EP21152935.9	(32) 14.06.2019	(72) GLENSKE, Claudia
(47) 26.07.2023	(33) France	PAUL, Johannes
(22) 22.01.2021	(51) G01D 5/14	(31) 102018118477
(54) APPARATUS AND METHOD FOR	(11) EP3553474	102018112653
COLLECTING DATA FOR MAP	(21) EP19167772.3	(32) 31.07.2018
GENERATION	(47) 26.07.2023	25.05.2018
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	(22) 08.04.2019	(33) Germany
(72) KOREISHI, Jun	(54) ROTARY ENCODER WITH ADDITIVE	Germany
NEYAMA, Ryo	MANUFACTURING FEATURES	(51) G01D 5/34
TANAKA, Masahiro	(73) Simmonds Precision Products, Inc.	G01D 5/347
(31) 2020012845	(72) BABEL, Andrew S.	(11) EP3593092
(32) 29.01.2020	TANGUDU, Jagadeesh	(21) EP18708193.0
(33) Japan	(31) 201815949883	(47) 26.07.2023
(51) G01C 21/36	(32) 10.04.2018	(87) GB2018050557
G01C 21/00	(33) United States of America	13.09.2018
G01C 21/16	(51) G01D 5/14	(22) 06.03.2018
G06V 20/56	(11) EP3929537	(54) ENCODER APPARATUS
(11) EP3926304	(21) EP20181538.8	(73) Renishaw PLC
(21) EP21175571.5	(47) 26.07.2023	(72) MCKENDRICK, Alexander, David
(47) 26.07.2023	(22) 23.06.2020	(31) 17275030
(22) 25.05.2021	(54) ENCODER FOR A FLUID DISPENSING	(32) 07.03.2017
(54) METHOD FOR EVALUATING THE	SYSTEM AND METHOD OF	(33) European Patent Office (EPO)
ACCURACY OF A POSITION	OPERATING SAME	(51) G01D 21/02
DETERMINATION OF A LANDMARK	(73) TE Connectivity Germany GmbH	G01D 3/036
AND EVALUATION SYSTEM	(72) BARTOS, Axel	(11) EP3971534
(73) MAN Truck & Bus SE	MEISENBERG, Armin	(21) EP21196720.3
VOLKSWAGEN	(51) G01D 5/14	(47) 26.07.2023
AKTIENGESELLSCHAFT	G01B 7/30	(22) 14.09.2021
(72) KOCH, Niklas		(54) SENSOR INTERFACE

(73) Baker Hughes Oilfield Operations LLC	(22) 02.06.2016	G01F 23/14
(72) HUTCHINSON, Andrew DOHERTY, Declan	(54) FLOWMETER WITH MEASURING FLOW CHANNEL AND AUXILIARY FLOW CHANNELS	H01F 27/14 H01F 27/40 B61C 17/00
(31) 202117406882 202063079546 P	(73) Diehl Metering GmbH	(11) EP3745098
(32) 19.08.2021 17.09.2020	(72) SONNENBERG, Hans-Michael	(21) EP19177321.7
(33) United States of America United States of America	(31) 102015008146	(47) 26.07.2023
(51) G01F 1/40	(32) 24.06.2015	(22) 29.05.2019
G01F 1/42	(33) Germany	(54) METHOD FOR MEASURING A QUANTITY OF LIQUID IN A LIQUID-INSULATED ELECTRICAL COMPONENT, LIQUID-INSULATED ELECTRICAL COMPONENT AND RAILROAD VEHICLE HAVING THE SAME
G01F 1/44	(51) G01F 1/667	(73) Hitachi Energy Switzerland AG
G01F 15/00	G01F 15/00	(72) Isler, Stephane
F15D 1/02	(11) EP3848678	(51) G01F 23/263
F16L 55/027	(21) EP20210107.7	B60K 15/03
(11) EP3745095	(47) 26.07.2023	(11) EP3819604
(21) EP19757374.4	(22) 26.11.2020	(21) EP20201431.2
(47) 26.07.2023	(54) MEASURING CHANNEL AND METHOD FOR SPATIALLY ARRANGING A SENSOR COMPONENT OR SET OF SENSORS IN A MEASURING CHANNEL	(47) 26.07.2023
(87) CN2019071962 29.08.2019	(73) Samson Aktiengesellschaft	(22) 13.10.2020
(22) 16.01.2019	(72) Krüger, Marcel	(54) FLEXIBLE MEDIA CONTAINER
(54) THROTTLING COMPONENT AND RECTIFICATION AND FLOW MEASUREMENT DEVICE	Richter, Gaetano	(73) Continental Reifen Deutschland GmbH
(73) NANJING EXACTRA AUTOMATION CONTROL TECHNOLOGY CO., LTD.	Merscher, Michael	(72) Dohmen, Christian
(72) MING, Xiao	Krause, Sebastian	Smolarz, Darius
(31) 201810155154	(31) 102019132552	Franke, Andreas Robert
201810155152	(32) 29.11.2019	Gatzweiler, Horst
201810155101	(33) Germany	(31) 102019217024
(32) 23.02.2018	(51) G01F 1/84	(32) 05.11.2019
23.02.2018	(11) EP3458814	(33) Germany
23.02.2018	(21) EP17719616.9	(51) G01F 23/284
(33) China	(47) 26.07.2023	G01S 13/88
China	(87) EP2017060076	(11) EP4102194
China	23.11.2017	(21) EP21178038.2
(51) G01F 1/56	(22) 27.04.2017	(47) 26.07.2023
G01F 1/60	(54) VIBRATION-TYPE SENSOR	(22) 07.06.2021
G01F 1/74	(73) Endress+Hauser Flowtec AG	(54) FILL LEVEL RADAR WITH VARIABLE QUANTIZATION ACCURACY
G01F 1/58	(72) ECKERT, Gerhard	(73) VEGA Grieshaber KG
(11) EP3830527	ZHU, Hao	(72) KLEISER, Samuel
(21) EP19735093.7	RIEDER, Alfred	WELLE, Roland
(47) 26.07.2023	BITTO, Ennio	(51) G01F 23/288
(87) US2019037680	(31) 102016109251	G01T 1/20
12.03.2020	(32) 19.05.2016	(11) EP3405758
(22) 18.06.2019	(33) Germany	(21) EP17703559.9
(54) FLUID CONTAMINANT DETECTION USING NOISE LEVELS IN MAGNETIC FLOW METER SENSOR SIGNALS	(51) G01F 23/00	(47) 26.07.2023
(73) Micro Motion Inc.	G01F 23/284	(87) US2017014491
(72) KLINE, Andrew Thomas	G01S 13/88	27.07.2017
FOSS, Scot Ronald	G01F 23/80	(22) 23.01.2017
(31) 201816123495	G01S 7/02	(54) FLEXIBLE NUCLEAR LEVEL SENSING GAUGE
(32) 06.09.2018	G01S 7/41	(73) Vega Americas, Inc.
(33) United States of America	G01S 13/34	(72) CAHILL, Bonaventure
(51) G01F 1/66	G01N 9/24	NINEMENTS, Thomas
G01F 1/667	(11) EP3857183	(31) 201662396861 P
G01F 5/00	(21) EP19769782.4	201615004516
G01F 15/00	(47) 26.07.2023	(32) 20.09.2016
G01F 1/58	(87) EP2019074626	22.01.2016
G01F 7/00	02.04.2020	(33) United States of America United States of America
G01F 15/12	(22) 16.09.2019	(51) G01F 23/292
G01F 15/18	(54) SYSTEM AND METHOD FOR DETERMINING LEVEL AND DENSITY DISTRIBUTION	G01F 23/284
(11) EP3314214	(73) Rosemount Tank Radar AB	G01S 7/40
(21) EP16729189.7	(72) NYBERG, Håkan	G01S 7/52
(47) 26.07.2023	WESTERLING, Jan	G01S 13/88
(87) EP2016000907	(31) 201816140783	G01S 13/87
29.12.2016	(32) 25.09.2018	
	(33) United States of America	
	(51) G01F 23/18	

G01S 15/87	(51) G01F 23/80	(73) ABB Schweiz AG
G01S 15/88	G06N 3/044	(72) Subbiah, Subanatarajan
G01S 7/539	G06N 3/08	Kotriwala, Arzam Muzaffa
G01H 5/00	G06N 20/00	Amihai, Ido
G01N 29/22	(11) EP3997425	Chioua, Moncef
G01F 23/2962	(21) EP20733779.1	(51) G01H 3/10
G01N 29/024	(47) 26.07.2023	(11) EP3781915
G01S 13/00	(87) EP2020066934	(21) EP19719591.0
G01S 13/10	14.01.2021	(47) 26.07.2023
G01S 15/10	(22) 18.06.2020	(87) GB2019050911
G01S 15/00	(54) METHOD OF DETERMINING	24.10.2019
G01S 13/46	AN INTERFACE HEIGHT OF AN	(22) 29.03.2019
(11) EP3115779	INTERFACE BETWEEN AN UPPER	(54) VIBRATION DOSE MEASUREMENT
(21) EP15196352.7	AND A LOWER LAYER COMPRISED IN	APPARATUS
(47) 26.07.2023	A THICKENER	(73) COVENTRY UNIVERSITY
(22) 25.11.2015	(73) Endress+Hauser Group Services AG	(72) GRIFFIN, James Marcus
(54) SYSTEM AND METHOD FOR	(72) NAIDOO, Dhiren	FERARU, Andrei Mihai
MEASURING A SIGNAL PROPAGATION	CADIZ, Nicolas	(31) 201806393
SPEED IN A LIQUID OR GASEOUS	BRENNINGER, Matthias	(32) 19.04.2018
MEDIUM	VAISSIERE, Dimitri	(33) United Kingdom
(73) ABB Schweiz AG	GHEEWALA, Jenish	(51) G01J 1/04
(72) Lenner, Miklos	MCKERTICH, Taylor	G01J 1/02
Kaufmann, Tobias	(31) 102019118413	G01J 1/42
Pape, Dettlef	(32) 08.07.2019	(11) EP3128300
Kassubek, Frank	(33) Germany	(21) EP16182423.0
(31) 15002011	(51) G01F 25/20	(47) 26.07.2023
(32) 06.07.2015	G01F 22/02	(22) 02.08.2016
(33) European Patent Office (EPO)	G01F 17/00	(54) SYSTEM FOR READING
(51) G01F 23/2962	G01F 23/14	PHOTOMETRIC DATA WITH
G01S 7/539	(11) EP3837508	IMPROVED REPEATABILITY
G01S 15/10	(21) EP19755613.7	(73) Bouygues Energies et Services
G01F 25/20	(47) 26.07.2023	(72) LEBRET, Jean
G01S 7/527	(87) EP2019071985	DAEL, Clémence
(11) EP3115754	20.02.2020	HORTON, Franck
(21) EP15195850.1	(22) 16.08.2019	(31) 1557476
(47) 26.07.2023	(54) METHOD FOR ON-SITE CALIBRATION	(32) 03.08.2015
(22) 23.11.2015	OF A FILL LEVEL MEASURING	(33) France
(54) SYSTEM AND METHOD FOR NON-	DEVICE, AND ON-SITE CALIBRATION	(51) G01J 1/46
INTRUSIVE AND CONTINUOUS	MODULE	G01T 1/29
LEVEL MEASUREMENT IN A	(73) Endress+Hauser Group Services AG	H01L 27/146
CYLINDRICAL VESSEL	(72) BRÄNDLIN, Stefan	G01J 1/44
(73) ABB Schweiz AG	ABRAHAM, Jürgen	H04N 25/75
(72) Lenner, Miklos	THIEL, Torsten	H04N 25/42
Kaufmann, Tobias	(31) 102018119951	(11) EP3605044
Pape, Dettlef	(32) 16.08.2018	(21) EP18187018.9
(31) 15002014	(33) Germany	(47) 26.07.2023
(32) 06.07.2015	(51) G01H 1/00	(22) 02.08.2018
(33) European Patent Office (EPO)	G01P 21/02	(54) DETECTOR, METHODS FOR
(51) G01F 23/80	(11) EP3232169	OPERATING A DETECTOR AND
G01S 7/35	(21) EP17167019.3	DETECTOR PIXEL CIRCUIT
G01S 13/34	(47) 26.07.2023	(73) Bruker Nano GmbH
G01S 13/536	(22) 19.04.2017	(72) Trigilio, Paolo
G01S 13/88	(54) SYSTEM AND METHOD FOR	Goran, Daniel Radu
G01F 23/284	DETECTING ENGINE VIBRATION	Bombelli, Luca
(11) EP3811040	(73) Raytheon Technologies Corporation	(51) G01J 3/02
(21) EP19732624.2	(72) HAGSHENAS, Behzad	G01J 3/08
(47) 26.07.2023	YACONO, Thomas T.	G01J 3/18
(87) EP2019066319	(31) 201615099495	G01J 3/20
26.12.2019	(32) 14.04.2016	G01J 3/32
(22) 20.06.2019	(33) United States of America	(11) EP3819612
(54) RADAR LEVEL GAUGE	(51) G01H 3/04	(21) EP19207205.6
(73) Rosemount Tank Radar AB	G05B 23/02	(47) 26.07.2023
(72) BLOMBERG, Urban	(11) EP3712577	(22) 05.11.2019
LARSSON, Lars-Ove	(21) EP19164535.7	(54) OPTICAL SYSTEM FOR
DELIN, Håkan	(47) 26.07.2023	SPECTROMETERS
(31) 201816014509	(22) 22.03.2019	(73) Hitachi High-Tech Analytical Science
(32) 21.06.2018	(54) APPARATUS FOR EQUIPMENT	GmbH
(33) United States of America	MONITORING	(72) Simons, Rainer

Rak, Marzena Beata	(54) SURFACE MICRO-MACHINED	H01R 24/30
(51) G01J 3/28	INFRARED SENSOR USING	H01R 13/66
G01J 3/02	HIGHLY TEMPERATURE STABLE	H01R 103/00
H04N 23/55	INTERFEROMETRIC ABSORBER	(11) EP3483990
H04N 25/13	(73) Excelitas Technologies Singapore Pte	(21) EP18171854.5
G01J 3/12	Ltd.	(47) 26.07.2023
(11) EP3860107	(72) KROPELNICKI, Piotr	(22) 11.05.2018
(21) EP21153986.1	MARINESCU, Radu	(54) POWER CONNECTOR
(47) 26.07.2023	CHUAN, Kai Liang	(73) Delta Electronics, Inc.
(22) 28.01.2021	KARAGOEZOGLU, Hermann	(72) HUANG, Chin-Chu
(54) OPTICAL SENSOR DEVICE	(31) 201414484856	LO, Tzu-Hao
(73) Viavi Solutions Inc.	(32) 12.09.2014	(31) 106139163
(72) SMITH, Valton	(33) United States of America	(32) 13.11.2017
HOUCK, William D.	(51) G01J 5/12	(33) Taiwan, Chinese Taipei
(31) 202017117958	G01J 5/14	(51) G01K 7/026
202062969428 P	G01J 5/20	G01R 31/52
202062969436 P	G01J 5/068	G01K 15/00
(32) 10.12.2020	(11) EP4006509	(11) EP3548855
03.02.2020	(21) EP21211154.6	(21) EP17829758.6
03.02.2020	(47) 26.07.2023	(47) 26.07.2023
(33) United States of America	(22) 29.11.2021	(87) US2017064426
United States of America	(54) THERMOGRAPHIC SENSOR WITH	28.06.2018
United States of America	THERMAL TRANSISTORS DRIVEN BY	(22) 04.12.2017
(51) G01J 3/453	THERMO-COUPLES	(54) SHORTED THERMOCOUPLE
G01J 3/10	(73) STMicroelectronics S.r.l.	DIAGNOSTIC
(11) EP4163608	(72) BRUNO, Giuseppe	(73) Rosemount Inc.
(21) EP22208726.4	RECCHIA, Angelo	(72) PASCHKE, Randy, Kenneth
(47) 26.07.2023	CASTAGNA, Maria Eloisa	WOLFF, Corey, Gerald
(22) 01.11.2021	VAIANA, Michele	(31) 201615388316
(54) DUAL-COMB SPECTROMETRY	(31) 202000029141	(32) 22.12.2016
(73) IRsweep AG	(32) 30.11.2020	(33) United States of America
(72) HUGI, Andreas	(33) Italy	(51) G01K 17/10
SCHILT, Stéphane	(51) G01J 5/48	G01F 1/696
BROCHARD, Pierre	G01J 1/02	G01F 1/74
TERRASANTA, Giulio	G01J 1/44	(11) EP3887785
KOMAGATA, Kenichi	H04N 5/33	(21) EP19809834.5
(31) 202017556	H01L 27/146	(47) 26.07.2023
(32) 06.11.2020	H04N 23/00	(87) EP2019082763
(33) United Kingdom	H04N 25/79	04.06.2020
(51) G01J 5/00	(11) EP3370048	(22) 27.11.2019
B65B 57/00	(21) EP17845860.0	(54) METHOD FOR OPERATING A HEAT
B65B 9/20	(47) 26.07.2023	METER
G01J 5/05	(87) JP2017023713	(73) Simplex Armaturen & Systeme GmbH
B65B 41/16	08.03.2018	(72) HOESSEL, Hendrik
B65B 55/10	(22) 28.06.2017	LAUTERLEN, Alexander Thomas
(11) EP3129760	(54) IMAGE PICKUP DEVICE	(31) 102018130194
(21) EP15718449.0	(73) Sony Semiconductor Solutions	(32) 28.11.2018
(47) 26.07.2023	Corporation	(33) Germany
(87) EP2015056172	(72) HOSAKA, Hajime	(51) G01L 9/00
15.10.2015	OKUMURA, Kenichi	G01L 13/02
(22) 24.03.2015	NITTA, Yoshikazu	G01L 19/04
(54) ROLLER DEVICE COMPRISING	SUKEGAWA, Shunichi	G01L 19/14
TEMPERATURE SENSOR FOR	(31) 2016171472	C04B 37/02
SENSING TEMPERATURE OF	(32) 02.09.2016	B23K 20/02
PACKAGING MATERIAL	(33) Japan	B23K 101/36
(73) Tetra Laval Holdings & Finance SA	(51) G01K 1/14	B23K 103/14
(72) SVENLE, Martin	(11) EP3825667	B23K 103/18
(31) 1450449	(21) EP19306508.3	B23K 103/00
(32) 11.04.2014	(47) 26.07.2023	B23K 20/233
(33) Sweden	(22) 22.11.2019	(11) EP3807608
(51) G01J 5/02	(54) TEMPERATURE MEASUREMENT	(21) EP19726665.3
G01J 5/10	ACCESSORY	(47) 26.07.2023
G01J 5/20	(73) Tyco Electronics France SAS	(87) EP2019063406
G01J 5/08	(72) DELIGNY, Charlotte	19.12.2019
(11) EP2995916	FRANCE, Philippe	(22) 23.05.2019
(21) EP15183849.7	VIRLOUVET, Annie	(54) PRESSURE MEASURING DEVICE AND
(47) 26.07.2023	PIONCHON, Laurence	METHOD FOR PRODUCING SAME
(22) 04.09.2015	(51) G01K 1/16	(73) Endress+Hauser SE+Co. KG

(72) CONRADT, Jonas SCHMIDT, Elke UEHLIN, Thomas PONATH, Nils ROßBERG, Andreas WANG, Yanli THAM, Anh Tuan (31) 102018114300 (32) 14.06.2018 (33) Germany	(54) INERTIAL TORQUE DEVICE FOR VISCOMETER CALIBRATION AND RHEOLOGY MEASUREMENTS (73) Ametek, Inc. (72) GENOVESE, Mark SALOMON, James A. (31) 201715833237 (32) 06.12.2017 (33) United States of America	(54) METHOD OF IDENTIFYING A FAULT IN A SYSTEM OF GEARS IN A WIND TURBINE (73) Vestas Wind Systems A/S (72) NARAYANPUR, Mallikarjun RAMAKRISHNAN, Pattabiraman Trichy (31) 201670295 (32) 04.05.2016 (33) Denmark
(51) G01L 19/14 (11) EP3384264 (21) EP16782067.9 (47) 26.07.2023 (87) EP2016074896 08.06.2017 (22) 17.10.2016 (54) METHOD FOR PRODUCING A DEVICE FOR DETECTING AT LEAST ONE PROPERTY OF A FLUID MEDIUM IN A MEASURING CHAMBER (73) Robert Bosch GmbH (72) BARNSTORFF, Vincent ROEHLER, Andreas PATZNER, Patrik LUX, Alexander WOLF, Ronny OTTO, Andreas VOLLERT, Jens REINHARD, Markus (31) 102015223850 (32) 01.12.2015 (33) Germany	(51) G01M 3/32 G01M 3/28 B01L 1/02 B60J 10/00 (11) EP4031847 (21) EP20804614.4 (47) 26.07.2023 (87) FR2020051884 29.04.2021 (22) 20.10.2020 (54) SEALING TEST DEVICE FOR DOUBLE- DOOR TRANSFER SYSTEM (73) Getinge Life Science France (72) PAPIN, Didier (31) 1911997 (32) 25.10.2019 (33) France	(51) G01N 1/10 G01N 1/12 G01N 1/40 (11) EP3519796 (21) EP17855187.5 (47) 26.07.2023 (87) IN2017050440 05.04.2018 (22) 29.09.2017 (54) A DEVICE FOR COLLECTING WATER SAMPLE TO CONCENTRATE DIVERSIFIED BACTERIA FROM DIFFERENT WATER DEPTH (73) Council Of Scientific & Industrial Research (72) MANNA, Paramita HALDAR, Soumya BHATTACHARYA, Amit BINOD, Sweta Kumar (31) 201611033417 (32) 30.09.2016 (33) India
(51) G01L 25/00 G01M 5/00 G01M 7/04 G01M 7/08 G01L 27/00 (11) EP4034856 (21) EP20746955.2 (47) 26.07.2023 (87) EP2020071134 01.04.2021 (22) 27.07.2020 (54) QUALITY CONTROL FOR PRE- TENSIONED COMPONENT (73) Robert Bosch GmbH (72) BOUVIER, Valerie CROMME, Peter NGUYEN-TUONG, The Duy HILDEBRAND, Felix Eberhard KONSTANDIN, Alexander PICHT, Gunnar STORCK, Heiner (31) 102019214743 (32) 26.09.2019 (33) Germany	(51) G01M 5/00 G01B 21/32 (11) EP3299762 (21) EP17192529.0 (47) 26.07.2023 (22) 22.09.2017 (54) STRUCTURE ELEMENT MADE OF INSTRUMENTED CONCRETE (73) Consolis COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES (72) CARMONA, Mikaël JOUANET, Laurent CAMUEL, Tony (31) 1659035 (32) 26.09.2016 (33) France	(51) G01N 1/31 B01L 3/00 G01N 1/00 G01N 1/28 G01N 1/06 G01N 1/36 (11) EP3335025 (21) EP16833557.8 (47) 26.07.2023 (87) US2016044379 09.02.2017 (22) 28.07.2016 (54) SECTIONABLE CASSETTE AND EMBEDDING FRAME WITH TISSUE IMMOBILIZING SEPARABLE LID, AND METHODS FOR PREPARING BIOPSY TISSUE SAMPLES (73) BioPath Automation, L.L.C. (72) WILLIAMSON IV, Warren, P. (31) 201662356170 P 201562200753 P (32) 29.06.2016 04.08.2015 (33) United States of America United States of America
(51) G01L 25/00 G01N 11/14 G01N 11/00 (11) EP3721194 (21) EP18830339.0 (47) 26.07.2023 (87) US2018063985 13.06.2019 (22) 05.12.2018	(51) G01M 7/00 G01M 13/00 (11) EP3911932 (21) EP19824257.0 (47) 26.07.2023 (87) EP2019084613 23.07.2020 (22) 11.12.2019 (54) METHOD FOR CHECKING COMPONENTS, IN PARTICULAR INJECTORS (73) Robert Bosch GmbH (72) ENGLERT, Karl-Otto (31) 102019200610 (32) 18.01.2019 (33) Germany	(51) G01N 1/42 H01J 37/18 H01J 37/20 (11) EP3761002 (21) EP20193728.1 (47) 26.07.2023 (22) 14.01.2016 (54) SAMPLE TRANSFER DEVICE (73) Leica Mikrosysteme GmbH (72) Pfeifer, Thomas Bock, Günther Gaechter, Leander

(31) 102015100727	G01N 9/02	A61B 6/00
(32) 20.01.2015	G01N 9/34	A61B 8/08
(33) Germany	G01F 1/20	G01N 15/10
(51) G01N 3/00	G01F 1/708	A61B 8/00
G01M 7/02	G01F 15/02	(11) EP3240472
(11) EP3875939	G01F 25/00	(21) EP15876378.9
(21) EP19886599.0	G01F 1/86	(47) 26.07.2023
(47) 26.07.2023	G01F 1/38	(87) US2015068341
(87) JP2019035957	G01F 1/28	07.07.2016
28.05.2020	G01F 1/7086	(22) 31.12.2015
(22) 12.09.2019	B01F 35/21	(54) DEVICES AND METHODS FOR
(54) DYNAMIC CHARACTERISTIC	B01F 35/22	FRACTIONATED PHOTOACOUSTIC
MEASUREMENT DEVICE	B01F 35/71	FLOW CYTOMETRY
(73) Saginomiya Seisakusho, Inc.	B01F 31/65	(73) Bioventures, LLC.
(72) IN, Eisei	(11) EP3625542	(72) ZHAROV, Vladimir Pavlovich
HIZONO, Kohei	(21) EP18803287.4	(31) 201462098893 P
(31) 2018216485	(47) 26.07.2023	(32) 31.12.2014
(32) 19.11.2018	(87) US2018033129	(33) United States of America
(33) Japan	22.11.2018	(51) G01N 15/14
(51) G01N 3/08	(22) 17.05.2018	G01N 33/48
B21B 27/00	(54) APPARATUS THAT MEASURES	G01N 21/64
B21B 27/02	DEFLECTION AT MULTIPLE POINTS	G01N 33/537
G01N 3/00	TO DETERMINE FLOW RATE	G01N 15/10
G01N 3/10	(73) Red Meters LLC	(11) EP3120130
C21D 8/02	(72) MOTH, David John	(21) EP15764027.7
C21D 9/46	(31) 201815873646	(47) 26.07.2023
G01N 3/20	201762507634 P	(87) US2015021264
B21B 45/00	(32) 17.01.2018	24.09.2015
(11) EP3387410	17.05.2017	(22) 18.03.2015
(21) EP16873724.5	(33) United States of America	(54) PARALLEL FLOW CYTOMETER USING
(47) 26.07.2023	United States of America	RADIOFREQUENCY MULTIPLEXING,
(87) US2016065298	(51) G01N 15/02	AND METHOD
15.06.2017	G01N 15/14	(73) The Regents of the University of
(22) 07.12.2016	G01N 21/65	California
(54) SHEAR ENHANCED ROLLING (SER).	B01L 3/00	(72) BUCKLEY, Brandon
A METHOD TO IMPROVE GRAIN SIZE	G01N 15/10	JALALI, Bahram
UNIFORMITY IN ROLLED ALLOY	(11) EP3811052	DIEBOLD, Eric
BILLETS.	(21) EP19734003.7	(31) 201461955137 P
(73) The American University in Cairo	(47) 26.07.2023	(32) 18.03.2014
(72) SALEM, Hanadi, G.	(87) EP2019066106	(33) United States of America
ELKHODARY, Khalil, I.	26.12.2019	(51) G01N 21/01
BAKR, Mohamed	(22) 18.06.2019	G01M 13/00
ELBADRY, Mohamed	(54) SINGLE PARTICLE AUTOMATED	G01N 29/44
(31) 201562264653 P	RAMAN TRAPPING ANALYSIS	G01N 29/14
(32) 08.12.2015	(73) Imperial College Innovations Limited	G05B 13/00
(33) United States of America	(72) PENDERS, Jelle	G05B 23/02
(51) G01N 3/40	STEVENS, Molly	B65G 47/00
B23Q 17/09	PENCE, Isaac	G01N 21/89
(11) EP3814742	(31) 201810010	G01N 21/898
(21) EP19742676.0	(32) 19.06.2018	(11) EP3452806
(47) 26.07.2023	(33) United Kingdom	(21) EP17792557.5
(87) DE2019000163	(51) G01N 15/08	(47) 26.07.2023
02.01.2020	F24F 11/39	(87) FI2017050322
(22) 18.06.2019	F24F 11/89	09.11.2017
(54) METHOD FOR CHECKING AT	F24F 13/02	(22) 28.04.2017
LEAST ONE SUBREGION OF A	(11) EP3882602	(54) A MACHINE VISION METHOD AND
COMPONENT AND CHECKING	(21) EP21162456.4	SYSTEM
DEVICE FOR CHECKING AT LEAST	(47) 26.07.2023	(73) Procemex Oy
ONE SUBREGION OF A COMPONENT	(22) 12.03.2021	(72) VALKONEN, Mika
(73) MTU Aero Engines AG	(54) PROBE FOR SAFETY DUCT HOUSING	(31) 20165389
(72) BAMBERG, Joachim	FOR FILTER	(32) 06.05.2016
ECKSTEIN, Martin	(73) Sifa Technology S.r.l.	(33) Finland
BUßMANN, Martin	(72) FEDELI, FEDERICO	(51) G01N 21/01
PFIRRMANN, Daniel	(31) 202000005785	G01N 21/67
(31) 102018210463	(32) 18.03.2020	F17C 13/08
(32) 27.06.2018	(33) Italy	B62B 3/10
(33) Germany	(51) G01N 15/14	(11) EP4060328
(51) G01N 9/32	A61B 5/00	(21) EP21163405.0

(47) 26.07.2023	(73) Meiji Co., Ltd.	G01N 21/359
(22) 18.03.2021	(72) KONISHI Nobuyuki	G01N 21/41
(54) A MOUNTING ASSEMBLY FOR A PRESSURE VESSEL IN A MOBILE INSTRUMENT	(31) 2016096075	G01N 21/3577
(73) Hitachi High-Tech Analytical Science GmbH	(32) 12.05.2016	G01N 21/59
(72) PETERS, André	(33) Japan	(11) EP3980749
(51) G01N 21/03	(51) G01N 21/25	(21) EP20732148.0
G01N 21/39	G01N 21/31	(47) 26.07.2023
(11) EP4038368	G01N 21/47	(87) EP2020065460
(21) EP20781448.4	G01N 21/49	10.12.2020
(47) 26.07.2023	G01J 3/02	(22) 04.06.2020
(87) EP2020076324	G01J 3/36	(54) METHOD AND DEVICE FOR ANALYSING A SAMPLE USING A RESONANT SUPPORT, ILLUMINATED BY INFRARED RADIATION
01.04.2021	A61B 5/00	(73) Ecole Centrale de Lyon
(22) 21.09.2020	G01J 3/12	COMMISSARIAT À L'ÉNERGIE ATOMIQUE ET AUX ÉNERGIES ALTERNATIVES
(54) GAS CELL	G16H 50/20	Institut National des Sciences Appliquées de Lyon
(73) Mettler-Toledo GmbH	(11) EP3789754	Université Claude Bernard Lyon 1
(72) BERGSTROEM, Pär Wilhelm TAZREITER, Martin KONDZIELLA, Ralph HERTEL, Martin VENTURINI, Francesca	(21) EP20198404.4	CPE Lyon Formation Continue et Recherche
(31) 102019006763	(47) 26.07.2023	Centre National de la Recherche Scientifique
(32) 27.09.2019	(22) 13.03.2015	(72) GAIGNEBET, Nicolas
(33) Germany	(54) SPECTROSCOPIC ANALYSIS DEVICE WITH TUNABLE FILTERS FOR SPECTRAL SENSING	DUPOY, Mathieu
(51) G01N 21/03	(73) Koninklijke Philips N.V.	GEHIN, Thomas
G01N 21/64	(72) LUCASSEN, Gerhardus Wilhelmus HENDRIKS, Bernardus Hendrikus Wilhelmus	BERGUIGA, Lotfi
G02B 5/28	WIJBRANS, Klaas Cornelis Jan	FOURNIER, Maryse
(11) EP1629266	(31) 14178156	BENYATTOU, Taha
(21) EP04735866.8	14160522	JAMOIS, Cécile
(47) 26.07.2023	(32) 23.07.2014	(31) 1906134
(87) CH2004000340	18.03.2014	(32) 07.06.2019
09.12.2004	(33) European Patent Office (EPO)	(33) France
(22) 03.06.2004	European Patent Office (EPO)	(51) G01N 21/359
(54) OPTICAL SUBSTRATE FOR ENHANCED DETECTABILITY OF FLUORESCENCE	(51) G01N 21/27	G01N 21/31
(73) Oerlikon Surface Solutions AG, Pfäffikon	G01N 21/64	G01N 21/41
(72) MAISENHOELDER, Bernd KRAUS, Joerg THOME-FOERSTER, Heidi KASPAR, Martin EDLINGER, Johannes WIKI, Max HEINE-KEMPKENS, Claus	G01N 21/84	G01N 21/59
(31) 539872 P	(11) EP3362782	(11) EP3980751
475395 P	(21) EP16854649.7	(21) EP20732151.4
(32) 28.01.2004	(47) 26.07.2023	(47) 26.07.2023
03.06.2003	(87) AU2016050965	(87) EP2020065484
(33) United States of America	20.04.2017	10.12.2020
United States of America	(22) 14.10.2016	(22) 04.06.2020
(51) G01N 21/17	(54) DEVICE FOR READING AN IVD ASSAY	(54) METHOD AND DEVICE FOR ANALYSING A SAMPLE, IMPLEMENTING A RESONANT SUPPORT
B01D 9/02	(73) Lumos Diagnostics IP PTY LTD	(73) Université Claude Bernard Lyon 1
B01D 9/04	(72) HUNTER, William Samuel	Ecole Centrale de Lyon
G01F 23/292	(31) 2015904206	CPE Lyon Formation Continue et Recherche
G01N 21/51	(32) 15.10.2015	Avalun
(11) EP3457114	(33) Australia	Centre national de la recherche scientifique
(21) EP17796204.0	(51) G01N 21/35	COMMISSARIAT À L'ÉNERGIE ATOMIQUE ET AUX ÉNERGIES ALTERNATIVES
(47) 26.07.2023	G01N 33/28	Institut National des Sciences Appliquées de Lyon (Insa Lyon)
(87) JP2017017769	(11) EP2771670	(72) BENYATTOU, Taha
16.11.2017	(21) EP12778807.3	BERGUIGA, Lotfi
(22) 11.05.2017	(47) 26.07.2023	DUPOY, Mathieu
(54) METHOD FOR DETECTING SOLID-LIQUID DISTRIBUTION IN SOLID-LIQUID SEPARATION COLUMN OF SOLID-LIQUID SEPARATION DEVICE AND DETECTION DEVICE	(87) IB2012055667	FOURNIER, Maryse
	02.05.2013	GAIGNEBET, Nicolas
	(22) 17.10.2012	JAMOIS, Cécile
	(54) METHOD AND APPARATUS FOR THE CHARACTERISATION OF A HYDRAULIC FLUID	FEDELI, Jean-Marc
	(73) Appareillages et Bancs Hydrauliques Chatelleraudais	
	(72) PIERRE-LOTI-VIAUD, Daniel RICHARD, Christian RICHARD, Jean-Paul	
	(31) 1159630	
	(32) 24.10.2011	
	(33) France	
	(51) G01N 21/3504	
	G01N 21/3581	

<p>POUTEAU, Patrick (31) 1906132 (32) 07.06.2019 (33) France</p> <hr/> <p>(51) G01N 21/39 G01J 3/42 G01J 3/02 (11) EP3011314 (21) EP14814152.6 (47) 26.07.2023 (87) US2014043170 24.12.2014 (22) 19.06.2014 (54) TUNABLE DIODE LASER ABSORPTION SPECTROSCOPY WITH WATER VAPOR DETERMINATION (73) Rosemount Inc. (72) KLUCZYNSKI, Pawel (31) 201361837386 P (32) 20.06.2013 (33) United States of America</p> <hr/> <p>(51) G01N 21/41 G01N 21/47 G01N 21/49 A61B 5/00 (11) EP3945307 (21) EP20204594.4 (47) 26.07.2023 (22) 29.10.2020 (54) THREE-DIMENSIONAL OPTICAL TOMOGRAPHY METHOD AND APPARATUS USING PARTIALLY COHERENT LIGHT AND MULTI- ILLUMINATION PATTERN (73) Tomocube, Inc. (72) Park, YongKeun Hugonnet, Herve Jerome (31) 20200093713 (32) 28.07.2020 (33) Korea (Republic)</p> <hr/> <p>(51) G01N 21/64 (11) EP3714256 (21) EP18881688.8 (47) 26.07.2023 (87) US2018061999 31.05.2019 (22) 20.11.2018 (54) METHOD OF MEASURING HYDROPHOBIC CONTAMINANTS IN A PULP SLURRY OR A PAPERMAKING SYSTEM (73) Solenis Technologies, L.P. (72) BARRETT, Matthew John SHAROYAN, Davit E. ZHANG, Fushan (31) 201762589261 P (32) 21.11.2017 (33) United States of America</p> <hr/> <p>(51) G01N 21/64 G02B 21/06 (11) EP3839483 (21) EP19218212.9 (47) 26.07.2023 (22) 19.12.2019 (54) AN ILLUMINATOR, AN IMAGING APPARATUS AND A SYSTEM (73) Imec VZW</p>	<p>(72) VAN DORPE, Pol</p> <hr/> <p>(51) G01N 21/65 A61K 9/00 A61K 9/14 G01N 21/85 B01F 35/213 G01N 21/95 (11) EP3833964 (21) EP19779127.0 (47) 26.07.2023 (87) IB2019056737 13.02.2020 (22) 07.08.2019 (54) APPLICATION OF RAMAN SPECTROSCOPY FOR THE MANUFACTURE OF INHALATION POWDERS (73) Norton (Waterford) Limited (72) SHAH, Hardik Kirtikumar (31) 201862715463 P (32) 07.08.2018 (33) United States of America</p> <hr/> <p>(51) G01N 21/76 G01N 21/01 G01N 21/64 (11) EP3654021 (21) EP18832384.4 (47) 26.07.2023 (87) JP2018026789 17.01.2019 (22) 17.07.2018 (54) BIOLOGICAL SAMPLE ANALYSIS DEVICE (73) HORIBA Advanced Techno, Co., Ltd. (72) ARIMOTO, Kimihiko NAKAYAMA, Hideki NAKAI, Yoko NAKAGAWA, Kazuya (31) 2017138551 (32) 14.07.2017 (33) Japan</p> <hr/> <p>(51) G01N 21/78 G01N 33/00 G01N 21/64 G01N 21/77 (11) EP3282244 (21) EP17183201.7 (47) 26.07.2023 (22) 26.07.2017 (54) DEVICE FOR DETERMINING THE CONCENTRATION OF AN ANALYTE IN A GASEOUS MEDIUM (73) Pyro Science GmbH (72) Thar, Roland Fischer, Jan (31) 102016114918 (32) 11.08.2016 (33) Germany</p> <hr/> <p>(51) G01N 23/083 G01T 1/24 A61B 6/03 A61B 6/00 (11) EP3062093 (21) EP14855053.6 (47) 26.07.2023 (87) CN2014089368 30.04.2015 (22) 23.10.2014</p>	<p>(54) PHOTON COUNT-BASED RADIATION IMAGING SYSTEM, METHOD, AND APPARATUS (73) Nanovision Technology (Beijing) Co., Ltd. (72) CAO, Hongguang ZHENG, Hailiang LI, Yunxiang (31) 201410337142 201410137171 201310504035 (32) 15.07.2014 04.04.2014 23.10.2013 (33) China China China</p> <hr/> <p>(51) G01N 23/20008 G01N 23/205 (11) EP2818851 (21) EP13173816.3 (47) 26.07.2023 (22) 26.06.2013 (54) Diffraction Imaging (73) Malvern Panalytical B.V. (72) Gateshki, Milen Beckers, Detlef</p> <hr/> <p>(51) G01N 23/2055 G01N 23/203 G01N 23/2251 H01J 37/26 H01J 37/28 G01N 23/207 H01J 37/295 (11) EP3702766 (21) EP18870897.8 (47) 26.07.2023 (87) JP2018039705 02.05.2019 (22) 25.10.2018 (54) CRYSTAL ORIENTATION MAP GENERATION DEVICE, CHARGED PARTICLE RADIATION DEVICE, CRYSTAL ORIENTATION MAP GENERATION METHOD, AND PROGRAM (73) Nippon Steel Corporation (72) MORI, Takashige MARUYAMA, Naoki AMINO, Takafumi (31) 2017206457 (32) 25.10.2017 (33) Japan</p> <hr/> <p>(51) G01N 23/2055 G01N 23/207 (11) EP3667304 (21) EP18844423.6 (47) 26.07.2023 (87) JP2018019359 14.02.2019 (22) 18.05.2018 (54) CRYSTAL-PHASE QUANTITATIVE ANALYSIS DEVICE, CRYSTAL-PHASE QUANTITATIVE ANALYSIS METHOD, AND CRYSTAL-PHASE QUANTITATIVE ANALYSIS PROGRAM (73) Rigaku Corporation (72) MUROYAMA, Norihiro TORAYA, Hideo</p>
--	--	--

(31) 2017154292	DOGAMI, Naganori	04.09.2015
(32) 09.08.2017	(31) 2018148446	04.09.2015
(33) Japan	(32) 07.08.2018	05.09.2015
(51) G01N 24/08	(33) Japan	02.09.2015
G01N 33/18	(51) G01N 27/12	02.09.2015
G01N 33/24	G01N 33/00	02.09.2015
A01C 23/00	(11) EP3754329	(33) United States of America
(11) EP3069127	(21) EP19181581.0	United States of America
(21) EP14862472.9	(47) 26.07.2023	United States of America
(47) 26.07.2023	(22) 21.06.2019	United States of America
(87) DK2014050380	(54) HYDROGEN SENSOR AND METHOD	United States of America
21.05.2015	FOR PRODUCING THE SAME,	United States of America
(22) 11.11.2014	MEASURING DEVICE AND METHOD	United States of America
(54) A METHOD FOR QUANTITATIVE	FOR MEASURING HYDROGEN	United States of America
DETERMINATION OF NITROGEN IN AN	CONCENTRATION	United States of America
AQUEOUS FLUID	(73) Materion GmbH	United States of America
(73) NanoNord A/S	(72) WIENECKE, Marion	United States of America
(72) SØRENSEN, Morten Kjæruff	(51) G01N 27/22	United States of America
NIELSEN, Niels Christian	G01N 27/407	United States of America
JENSEN, Ole Nørgaard	(11) EP3622279	United States of America
(31) 201370682	(21) EP18727611.8	(51) G01N 27/414
(32) 13.11.2013	(47) 26.07.2023	B01L 3/00
(33) Denmark	(87) US2018032061	(11) EP2972281
(51) G01N 27/02	15.11.2018	(21) EP14714021.4
D21D 1/30	(22) 10.05.2018	(47) 26.07.2023
G01N 33/34	(54) METHOD FOR GAS TESTING	(87) US2014020892
H03H 7/01	(73) Carrier Corporation	25.09.2014
(11) EP3877757	(72) CHEN, Lei	(22) 05.03.2014
(21) EP19881863.5	YANG, Zhiwei	(54) CHEMICAL DEVICE WITH THIN
(47) 26.07.2023	(31) 201762505648 P	CONDUCTIVE ELEMENT
(87) SE2019051044	(32) 12.05.2017	(73) Life Technologies Corporation
14.05.2020	(33) United States of America	(72) FIFE, Keith
(22) 23.10.2019	(51) G01N 27/414	BUSTILLO, James
(54) A FIBER CONCENTRATION PROFILE	(11) EP3344980	LI, Shifeng
MEASURING APPARATUS	(21) EP16843156.7	OWENS, Jordan
(73) Daprox Ab	(47) 26.07.2023	(31) 201361868942 P
(72) ÅKERBLUM, Bengt	(87) US2016050295	201361790866 P
(31) 1851372	09.03.2017	(32) 22.08.2013
(32) 05.11.2018	(22) 02.09.2016	15.03.2013
(33) Sweden	(54) CHEMICALLY-SENSITIVE FIELD	(33) United States of America
(51) G01N 27/02	EFFECT TRANSISTORS, SYSTEMS	United States of America
G01N 33/28	AND METHODS FOR USING THE	(51) G01N 27/416
(11) EP3654025	SAME	G01N 27/30
(21) EP19208956.3	(73) Cardea Bio, Inc.	(11) EP3994457
(47) 26.07.2023	(72) HOFFMAN, Paul	(21) EP20740775.0
(22) 31.05.2013	GOLDSMITH, Brett R.	(47) 26.07.2023
(54) METHOD OF DESIGNING AND/OR	(31) 201615239800	(87) US2020040300
CONTROLLING A HEAT TRANSFER	201615225764	07.01.2021
SYSTEM AND HEAT TRANSFER	201615182533	(22) 30.06.2020
SYSTEM	201615065744	(54) PH MEASUREMENT OF AN AQUEOUS
(73) Universiteit Gent	201514963253	SAMPLE WITH A BORON DOPED
(72) DE PAEPE, Michel	201562215018 P	DIAMOND-BASED PH ELECTRODE
DE KERPEL, Kathleen	201562214901 P	COMPRISING A SP2 CARBON REGION
CANIÈRE, Hugo	201562214910 P	(73) UNIVERSITY OF WARWICK
(31) 12170296	201562214892 P	Hach Company
(32) 31.05.2012	201562214850 P	(72) MACPHERSON, Julie, Victoria
(33) European Patent Office (EPO)	201562214912 P	DUNCAN, Zoe
(51) G01N 27/12	201562213151 P	COBB, Samuel, James
(11) EP3786627	201562213117 P	(31) 201916459300
(21) EP19847126.0	201562213112 P	(32) 01.07.2019
(47) 26.07.2023	(32) 17.08.2016	(33) United States of America
(87) JP2019030567	01.08.2016	(51) G01N 27/90
13.02.2020	14.06.2016	(11) EP3143390
(22) 02.08.2019	09.03.2016	(21) EP15724346.0
(54) MEMS TYPE SEMICONDUCTOR GAS	09.12.2015	(47) 26.07.2023
DETECTION ELEMENT	06.09.2015	(87) FR2015051219
(73) New Cosmos Electric Co., Ltd.	04.09.2015	19.11.2015
(72) MITSUHASHI, Hirokazu	04.09.2015	(22) 07.05.2015

(54) METHOD FOR MANUFACTURING A INSPECTION HEAD OF AN EDDY CURRENT NON-DESTRUCTIVE TESTING SENSOR	(72) GENG, Xindu	(32) 06.06.2017
(73) Commissariat à l'Énergie Atomique et aux Énergies Alternatives	(51) G01N 30/56	(33) United States of America
(72) DELABRE, Benjamin	B01D 15/20	(51) G01N 33/48
DECITRE, Jean-Marc	(11) EP3151004	G01N 1/44
(31) 1454411	(21) EP16182362.0	G01N 33/49
(32) 16.05.2014	(47) 26.07.2023	(11) EP3450977
(33) France	(22) 02.08.2016	(21) EP17788837.7
(51) G01N 30/24	(54) METHOD OF PACKING	(47) 26.07.2023
G01N 35/00	CHROMATOGRAPHIC COLUMNS	(87) CN2017082757
G01N 35/04	(73) Dionex Corporation	02.11.2017
(11) EP3807634	Thermo Hypersil-Keystone LLC	(22) 02.05.2017
(21) EP19734599.4	(72) SHERANT, Ronald	(54) APPARATUS FOR MEASURING BLOOD COAGULATION DATA, AND USE METHOD, CONNECTION MEMBER AND SUPPORT THEREOF
(47) 26.07.2023	LIU, Xiaodong	(73) Haemonetics Corporation
(87) US2019036698	TRACY, Mark	(72) YU, Bangzhong
19.12.2019	NGUYEN, Jennifer	JIANG, Feng
(22) 12.06.2019	(31) 201514872139	(31) 201610755814
(54) SAMPLE ORGANIZER, TRAY, SYSTEM AND METHOD	(32) 01.10.2015	201610755564
(73) Waters Technologies Corporation	(33) United States of America	201610755577
(72) KEENAN, Paul	(51) G01N 33/00	201610347497
OSSWALD, Peter	(11) EP3761025	201620477597 U
BURNETT, Joshua, A.	(21) EP20180576.9	201610278393
SIMPSON, David, A.	(47) 26.07.2023	201620383166 U
LEMELIN, Marc, E.	(22) 17.06.2020	(32) 30.08.2016
(31) 201862684866 P	(54) A METHOD OF OPERATING A GAS SENSING DEVICE, AND CORRESPONDING GAS SENSING DEVICE	30.08.2016
(32) 14.06.2018	(73) STMicroelectronics S.r.l.	30.08.2016
(33) United States of America	(72) PASSANITI, Fabio	24.05.2016
(51) G01N 30/34	ALESSI, Enrico Rosario	24.05.2016
B01D 15/16	(31) 201900010647	29.04.2016
(11) EP2790821	(32) 02.07.2019	29.04.2016
(21) EP12857685.7	(33) Italy	(33) China
(47) 26.07.2023	(51) G01N 33/00	China
(87) US2012068438	G01N 21/35	China
20.06.2013	G01N 21/3504	China
(22) 07.12.2012	G01N 21/31	China
(54) TARGETED FREQUENCY MULTIPLE PATH LENGTH MIXERS	(11) EP3223012	China
(73) Waters Technologies Corporation	(21) EP17169889.7	China
(72) SHREVE, Joshua	(47) 26.07.2023	(51) G01N 33/487
(31) 201161570487 P	(22) 05.12.2012	(11) EP3114466
(32) 14.12.2011	(54) METHOD AND SYSTEM FOR GAS DETECTION	(21) EP15758509.2
(33) United States of America	(73) Dräger Safety AG & Co. KGaA	(47) 26.07.2023
(51) G01N 30/46	(72) SAGBERG, Håkon	(87) US2015019158
G01N 30/02	(31) 201120870	11.09.2015
G01N 30/10	(32) 05.12.2011	(22) 06.03.2015
G01N 30/20	(33) United Kingdom	(54) 3-ELECTRODE APPARATUS AND METHODS FOR MOLECULAR ANALYSIS
B01D 15/34	(51) G01N 33/00	(73) Board of Regents, The University of Texas System
B01D 15/42	G01N 27/407	(72) SELVAM, Anjan Panneer
B01D 15/18	(11) EP3635390	PRASAD, Shalini
B01D 15/36	(21) EP18813840.8	(31) 201562110141 P
B01D 15/30	(47) 26.07.2023	201461949858 P
G01N 30/88	(87) US2018036006	(32) 30.01.2015
C07K 1/16	13.12.2018	07.03.2014
(11) EP2891881	(22) 05.06.2018	(33) United States of America
(21) EP12883934.7	(54) HYDROGEN MONITORING AND DELIVERY COMPONENTS AND METHODS	United States of America
(47) 26.07.2023	(73) University of Connecticut	(51) G01N 33/49
(87) CN2012080868	Skyre, Inc.	C12Q 1/04
06.03.2014	(72) MOLTER, Trent M.	G01N 27/403
(22) 31.08.2012	BONVILLE, Leonard J.	(11) EP4018191
(54) MULTIDIMENSIONAL LIQUID CHROMATOGRAPHY SEPARATION SYSTEM AND SEPARATION METHOD FOR PROTEIN SEPARATION	PRESTON, Joshua S.	(21) EP20753960.2
(73) Xi'an Aolan Science and Technology Co.	PASAOGULLARI, Ugur	(47) 26.07.2023
(31) 201762515970 P	BANAS, Charles	(87) EP2020072947
	HESLER, Gregory	25.02.2021
	(31) 201762515970 P	(22) 17.08.2020

<p>(54) SYSTEM INCLUDING A HOUSING AND AN INSTRUMENTED CONTAINER FOR DETECTING THE PRESENCE OF MICRO-ORGANISMS IN A LIQUID SAMPLE</p> <p>(73) Commissariat à l'Energie Atomique et aux Energies Alternatives</p> <p>(72) MARCOUX, Pierre GOUGIS, Maxime</p> <p>(31) 1909333 (32) 22.08.2019 (33) France</p> <hr/> <p>(51) G01N 33/493 (11) EP4016077 (21) EP20306576.8 (47) 26.07.2023 (22) 15.12.2020 (54) URINALYSIS DEVICE</p> <p>(73) Usense (72) OUERIEMMI, Amir</p> <hr/> <p>(51) G01N 33/493 G01N 33/58 (11) EP3486652 (21) EP18214564.9 (47) 26.07.2023 (22) 01.06.2015 (54) METHOD FOR IDENTIFYING OF A BIOLOGICAL SAMPLE OF A MAMMAL, COMPOSITION FOR USE IN THIS METHOD AND KIT FOR PERFORMANCE OF THIS METHOD</p> <p>(73) Ruma GmbH (72) Keller, Ruprecht (31) 102014008723 (32) 18.06.2014 (33) Germany</p> <hr/> <p>(51) G01N 33/50 G01N 33/49 G01N 15/00 B01L 3/00 B03C 1/32 C12Q 1/18 C12N 13/00 G01N 27/76 G01N 15/06 G01N 33/487 G01N 33/574 G01N 33/80 G01N 15/10 (11) EP3111213 (21) EP15756020.2 (47) 26.07.2023 (87) US2015017705 03.09.2015 (22) 26.02.2015 (54) METHOD FOR CELL LEVITATION AND MONITORING</p> <p>(73) Brigham and Women's Hospital, Inc. Beth Israel Deaconess Medical Center The Board of Trustees of the Leland Stanford Junior University</p> <p>(72) DURMUS, Naside, Gozde DAVIS, Ronald, W. DEMIRCI, Utkan TEKIN, Huseyin, Cumhur TASOGLU, Savas GHIRAN, Ionita STEINMETZ, Lars</p>	<p>(31) 201462072040 P 201461944707 P (32) 29.10.2014 26.02.2014 (33) United States of America United States of America</p> <hr/> <p>(51) G01N 33/543 G01N 33/53 G01N 33/72 B01L 3/00 (11) EP3318876 (21) EP16820774.4 (47) 26.07.2023 (87) CN2016087518 12.01.2017 (22) 28.06.2016 (54) BIOLOGICAL SAMPLE REACTION BOX</p> <p>(73) Leadway (HK) Limited (72) LIU, Shengqiang HE, Huanjun GONG, Tingfeng (31) 201510397989 (32) 03.07.2015 (33) China</p> <hr/> <p>(51) G01N 33/58 G01N 33/68 G01N 33/50 (11) EP3431999 (21) EP17767005.6 (47) 26.07.2023 (87) KR2017002858 21.09.2017 (22) 16.03.2017 (54) METHOD FOR DETECTING AGGREGATE OF AGGREGATE-FORMING POLYPEPTIDE</p> <p>(73) Peoplebio, Inc. (72) LIM, Kun Taek LEE, Kwan Soo YU, Ji Sun KIM, Gwang Je KIM, Shin Won LEE, Byoung Sub (31) 20160031534 (32) 16.03.2016 (33) Korea (Republic)</p> <hr/> <p>(51) G01N 33/68 (11) EP3423836 (21) EP17710367.8 (47) 26.07.2023 (87) GB2017050539 08.09.2017 (22) 28.02.2017 (54) DETECTION OF MEMBRANE PROTEINS</p> <p>(73) Oxford University Innovation Limited (72) AMBROSE, Stephen HOPPER, Jonathan ROBINSON, Carol (31) 201603507 (32) 29.02.2016 (33) United Kingdom</p> <hr/> <p>(51) G01N 35/00 G01N 35/04 (11) EP3644063 (21) EP18202153.5 (47) 26.07.2023 (22) 23.10.2018</p>	<p>(54) METHOD OF HANDLING LABORATORY SAMPLE CONTAINERS</p> <p>(73) F. Hoffmann-La Roche AG (72) Baumgart, Julian Baltasar Badaya, Raul</p> <hr/> <p>(51) G01N 35/00 G01N 35/10 B01L 7/00 (11) EP3109641 (21) EP16166497.4 (47) 26.07.2023 (22) 21.04.2016 (54) APPARATUS FOR THE AUTOMATIC PERFORMANCE OF IMMUNOHEMATOLOGY ANALYSIS ON GEL CARDS</p> <p>(73) Grifols, S.A. (72) MARTINELL GISPERSAUCH, Enrique PUIG CEBRIA, Jordi (31) 201530927 (32) 26.06.2015 (33) Spain</p> <hr/> <p>(51) G01N 35/04 G02B 21/34 G01N 1/28 B01L 99/00 B65H 1/26 H01L 21/677 B01L 9/00 G01N 35/00 (11) EP3611512 (21) EP18784514.4 (47) 26.07.2023 (87) JP2018009451 18.10.2018 (22) 12.03.2018 (54) IMAGE ACQUISITION DEVICE AND IMAGE ACQUISITION METHOD</p> <p>(73) Hamamatsu Photonics K.K. (72) KAWASHIMA Takayuki WATANABE Satoshi SUZUKI Yasumoto SHIBATA Takeshi (31) 2017079667 (32) 13.04.2017 (33) Japan</p> <hr/> <p>(51) G01N 35/10 (11) EP3974841 (21) EP20198497.8 (47) 26.07.2023 (22) 25.09.2020 (54) MULTICHANNEL PIPETTING DEVICE</p> <p>(73) Tecan Trading AG (72) Bauer, Christina Kälin, Remo Kunz, Thomas</p> <hr/> <p>(51) G01N 35/10 B01J 4/02 B01L 3/02 G01N 1/00 (11) EP3502710 (21) EP17843499.9 (47) 26.07.2023 (87) JP2017029679 01.03.2018 (22) 18.08.2017 (54) DISPENSING CYLINDER, AND DISPENSING DEVICE AND</p>
--	---	--

<p>DISPENSING TREATMENT METHOD USING SAME (73) Universal Bio Research Co., Ltd. (72) TAJIMA, Hideji NAKAMURA, Kazuhiro SUGIYAMA, Yu (31) 2016162141 (32) 22.08.2016 (33) Japan <hr/>(51) G01N 35/10 C12M 1/34 G01N 21/17 G06T 7/00 G01N 21/90 (11) EP3663767 (21) EP18840296.0 (47) 26.07.2023 (87) JP2018020952 07.02.2019 (22) 31.05.2018 (54) APPARATUS, METHOD FOR DETERMINING STATE OF SAMPLE, AND ANALYSIS SYSTEM (73) Hitachi High-Tech Corporation (72) KAKISHITA, Yasuki HATTORI, Hideharu SUZUKI, Yoichiro SAKAZUME, Taku (31) 2017147629 (32) 31.07.2017 (33) Japan <hr/>(51) G01P 1/00 G01P 1/02 G01D 11/30 (11) EP3642634 (21) EP18734168.0 (47) 26.07.2023 (87) EP2018066492 27.12.2018 (22) 20.06.2018 (54) ARRANGEMENT OF VEHICLE SPEED SENSOR AND CLAMPING SLEEVE FOR SENSING THE SPEED OF ROTATION OF A ROTOR (73) KNORR-BREMSE Systeme für Nutzfahrzeuge GmbH (72) KLUFTINGER, Andre BLESSING, Michael (31) 102017113604 (32) 20.06.2017 (33) Germany <hr/>(51) G01P 5/165 G01P 21/02 G01K 3/04 G01K 7/42 G01K 13/02 B64D 43/02 B64F 5/40 (11) EP3855189 (21) EP21150812.2 (47) 26.07.2023 (22) 08.01.2021 (54) AIR DATA PROBE REPLACEMENT DETERMINATION SYSTEM (73) Honeywell International Inc. (72) ANDERSON, Morris G. GORDON, Grant A. SAND, Merle L</p>	<p>(31) 202016752399 (32) 24.01.2020 (33) United States of America <hr/>(51) G01P 13/00 F04B 49/20 F04C 14/08 F04D 15/00 G01P 3/00 G01P 3/487 H02K 11/21 H02K 7/14 (11) EP3586149 (21) EP18758395.0 (47) 26.07.2023 (87) IB2018051078 30.08.2018 (22) 21.02.2018 (54) PUMP ASSEMBLY HAVING A CONTROLLER INCLUDING A CIRCUIT BOARD AND 3D ROTARY SENSOR FOR DETECTING ROTATION OF ITS PUMP (73) Stackpole International Engineered Products, Ltd. (72) WANG, Liping (31) 201762462078 P (32) 22.02.2017 (33) United States of America <hr/>(51) G01P 13/00 H02K 11/21 G01B 7/04 H03K 17/97 G08B 13/14 (11) EP3799275 (21) EP18925009.5 (47) 26.07.2023 (87) CN2018093460 02.01.2020 (22) 28.06.2018 (54) ELECTRIC MOTOR ASSEMBLY (73) Siemens Aktiengesellschaft (72) SUN, Yao JIANG, Kai <hr/>(51) G01P 15/125 G01P 15/18 G01P 15/08 (11) EP3757579 (21) EP20178469.1 (47) 26.07.2023 (22) 05.06.2020 (54) CAPACITIVE MICROMECHANICAL ACCELEROMETER (73) Murata Manufacturing Co., Ltd. (72) KATO, Yoshitaka Rytkönen, Ville-Pekka KONNO, Akira (31) 20195563 (32) 26.06.2019 (33) Finland <hr/>(51) G01R 15/06 G01R 19/25 (11) EP2872903 (21) EP12762239.7 (47) 26.07.2023 (87) EP2012067226 13.03.2014 (22) 04.09.2012</p>	<p>(54) MEASURING DEVICE, USE OF THE MEASURING DEVICE, AND METHOD FOR MEASURING AN ALTERNATING VOLTAGE (73) Siemens Aktiengesellschaft (72) DÖSCH, Peter <hr/>(51) G01R 15/18 (11) EP3748372 (21) EP20188058.0 (47) 26.07.2023 (22) 09.06.2017 (54) CURRENT SENSOR (73) Analog Devices International Unlimited Company (72) Hurwitz, Jonathan Smith, David Minciunescu, Petre Yaney, David (31) 201615179249 (32) 10.06.2016 (33) United States of America <hr/>(51) G01R 21/133 G01R 22/10 (11) EP3563161 (21) EP17826518.7 (47) 26.07.2023 (87) EP2017084360 05.07.2018 (22) 22.12.2017 (54) ELECTRICITY METER WITH AN IMPEDANCE LEARNING ALGORITHM (73) Kamstrup A/S (72) KIRKEGAARD, Dennis (31) 16207560 (32) 30.12.2016 (33) European Patent Office (EPO) <hr/>(51) G01R 29/08 (11) EP4001932 (21) EP21208772.0 (47) 26.07.2023 (22) 17.11.2021 (54) ELECTROMAGNETIC ENVIRONMENT ANALYSIS SYSTEM, ELECTROMAGNETIC ENVIRONMENT ANALYSIS METHOD, AND PROGRAM (73) TDK Corporation (72) HAYASHI, Tatsuya SATO, Shunya (31) 2020191878 (32) 18.11.2020 (33) Japan <hr/>(51) G01R 29/08 G01R 29/10 H04B 17/10 H01Q 19/12 (11) EP3796008 (21) EP19197656.2 (47) 26.07.2023 (22) 17.09.2019 (54) SYSTEM AND METHOD FOR PARALLEL MEASUREMENT OF DEVICES UNDER TEST IN AN OPEN OVER THE AIR ENVIRONMENT (73) Rohde & Schwarz GmbH & Co. KG (72) Rowell, Corbett Derat, Benoit Ahmed, Sherif</p>
--	--	--

(51) G01R 29/08 G01R 29/10 H04B 17/10 H01Q 19/12	21.03.2017 29.11.2016	(32) 20.03.2018 (33) Japan
(11) EP3828558	(33) Japan Japan Japan	(51) G01R 31/367 H01M 10/48 B60L 58/12
(21) EP19212373.5 (47) 26.07.2023 (22) 29.11.2019	(51) G01R 31/28 (11) EP3771912 (21) EP20185249.8 (47) 26.07.2023 (22) 10.07.2020	(11) EP3417303 (21) EP16763605.9 (47) 26.07.2023 (87) US2016045084 24.08.2017
(54) OVER THE AIR MEASURING DEVICE WITH FEED SWITCHER POSITIONER (73) Rohde & Schwarz GmbH & Co. KG (72) Meissner, Ralf Rowell, Corbett, Dr.	(47) 26.07.2023 (54) AUTOMATIC CIRCUIT BOARD TEST SYSTEM (73) Cheng Uei Precision Industry Co., Ltd.	(22) 02.08.2016 (54) SYSTEMS AND METHODS FOR REAL- TIME ESTIMATION OF CAPACITY OF A RECHARGEABLE BATTERY
(51) G01R 29/08 H04B 17/12 H04B 7/0413	(72) Chu, Chien Hang Lee, James Cheng Lo, Sheng Chieh	(73) Clarios Advanced Solutions GmbH CPS Technology Holdings LLC
(11) EP3767845 (21) EP18914040.3 (47) 26.07.2023 (87) CN2018122664 17.10.2019 (22) 21.12.2018	(31) 201910705478 (32) 01.08.2019 (33) China	(72) ALIYEV, Timur L. KUPER, Christian JIN, Zhihong H. GUO, Qingzhi
(54) TEST METHOD AND TRANSMITTING APPARATUS (73) HUAWEI TECHNOLOGIES CO., LTD. (72) HAO, Bo ZHAO, Xubo LI, Xiaopeng	(51) G01R 31/327 (11) EP3835799 (21) EP19214848.4 (47) 26.07.2023 (22) 10.12.2019	(31) 201615048816 (32) 19.02.2016 (33) United States of America
(31) 201810326946 (32) 12.04.2018 (33) China	(54) CIRCUIT DEVICE FOR SECURITY APPLICATIONS (73) Schneider Electric Industries SAS (72) Geoffroy, Guillaume Kloeser, Frank	(51) G01R 31/3842 G01R 31/387 (11) EP3792646 (21) EP20178548.2 (47) 26.07.2023 (22) 05.06.2020
(51) G01R 31/11 (11) EP3646045 (21) EP18733577.3 (47) 26.07.2023 (87) EP2018066461 03.01.2019 (22) 20.06.2018	(51) G01R 31/36 G01R 31/367 (11) EP3845917 (21) EP20195235.5 (47) 26.07.2023 (22) 09.09.2020	(54) METHOD FOR UPDATING CAPACITY OF BATTERY, DEVICE FOR UPDATING CAPACITY OF BATTERY, ELECTRONIC DEVICE, AND STORAGE UNIT (73) Dongguan NVT Technology Limited (72) SUN, Ya-Qing XIE, Hong WANG, Zhi-Feng ZHANG, Bai-Qing
(54) REFLECTOMETRY SYSTEM FOR ANALYSING FAULTS IN A TRANSMISSION LINE (73) Commissariat à l'Énergie Atomique et aux Énergies Alternatives (72) LAYER, Christophe CABANILLAS, Esteban	(54) METHOD AND APPARATUS FOR DETERMINING STATE OF POWER OF BATTERY SYSTEM (73) CALB Co., Ltd. CALB Technology Co., Ltd. (72) WANG, Huaitao QIAO, Peipei	(22) 05.06.2020 (54) METHOD FOR UPDATING CAPACITY OF BATTERY, DEVICE FOR UPDATING CAPACITY OF BATTERY, ELECTRONIC DEVICE, AND STORAGE UNIT (73) Dongguan NVT Technology Limited (72) SUN, Ya-Qing XIE, Hong WANG, Zhi-Feng ZHANG, Bai-Qing
(31) 1756097 (32) 30.06.2017 (33) France	(72) WANG, Huaitao QIAO, Peipei (31) 201911425010 (32) 31.12.2019 (33) China	(31) 201910866407 (32) 12.09.2019 (33) China
(51) G01R 31/26 H01L 21/66 H01L 21/683 G01R 31/28 H01L 21/67	(31) 201911425010 (32) 31.12.2019 (33) China	(51) G01R 31/3842 H02J 7/34 G01R 31/36 H02J 7/00
(11) EP3550313 (21) EP17876248.0 (47) 26.07.2023 (87) JP2017036400 07.06.2018 (22) 29.09.2017	(51) G01R 31/367 G01R 31/36 H01M 10/42 H01M 10/48 H02J 7/00 G01R 31/374 G01R 31/392 G06N 20/00 H02J 3/32 H02J 3/38 H02J 13/00	(11) EP2662698 (21) EP11855111.8 (47) 26.07.2023 (87) JP2011079813 12.07.2012 (22) 22.12.2011
(54) ELECTRONIC DEVICE INSPECTING APPARATUS (73) Tokyo Electron Limited (72) FUJISAWA, Yoshinori KASAI, Shigeru	(11) EP3770618 (21) EP19770649.2 (47) 26.07.2023 (87) JP2019010542 26.09.2019 (22) 14.03.2019	(54) SECONDARY BATTERY STATE DETECTION DEVICE AND SECONDARY BATTERY STATE DETECTION METHOD (73) Furukawa Electric Co., Ltd. Furukawa Automotive Systems Inc. (72) SATO Etsuzo YOKOYAMA Koichi
(31) 2017135401 2017054366 2016231844 (32) 11.07.2017	(54) ENERGY STORAGE DEVICE DEGRADATION DETERMINATION APPARATUS AND METHOD (73) GS Yuasa International Ltd. (72) UKUMORI, Nan (31) 2018053015	(31) 2011040144 2011001074 (32) 25.02.2011 06.01.2011 (33) Japan Japan
		(51) G01R 31/389 (11) EP3916410 (21) EP21170367.3

(47) 26.07.2023	(11) EP3923008	(54) STRAY-FIELD-IMMUNE MAGNETIC
(22) 26.04.2021	(21) EP20178960.9	FIELD SENSOR ARRANGEMENT,
(54) BATTERY INTERNAL RESISTANCE	(47) 26.07.2023	MAGNETIC TORQUE SENSOR
DETECTION DEVICE AND METHOD	(22) 09.06.2020	ARRANGEMENT AND METHOD FOR
(73) Delta Electronics (Shanghai) Co., Ltd.	(54) METHOD AND APPARATUS FOR	DETERMINING A MAGNETIC FLUX
(72) QIU, Aibin	MEASURING THE ELECTRIC	(73) Melexis Technologies SA
WANG, Changyong	CURRENT OF A BATTERY SYSTEM	(72) Bilbao de Mendizabal, Javier
DONG, Mingxuan	(73) Samsung SDI Co., Ltd.	(31) 19181624
(31) 202010459504	(72) Renato, Mandic	(32) 21.06.2019
(32) 27.05.2020	Fritz, Jürgen	(33) European Patent Office (EPO)
(33) China	Trathnigg, Thomas	<hr/>
(51) G01R 31/392	Hofer, Maximilian	(51) G01R 33/02
G01R 31/378	(51) G01R 31/50	G01R 33/00
G01R 31/387	G01R 31/3835	G01R 15/14
(11) EP3690462	G01R 29/027	A61B 5/24
(21) EP19860512.3	H01M 10/48	(11) EP3510414
(47) 26.07.2023	H02J 7/00	(21) EP17848238.6
(87) KR2019011871	(11) EP3982139	(47) 26.07.2023
19.03.2020	(21) EP20894276.3	(87) IB2017055378
(22) 11.09.2019	(47) 26.07.2023	15.03.2018
(54) BATTERY MANAGEMENT APPARATUS	(87) KR2020016897	(22) 06.09.2017
AND METHOD	03.06.2021	(54) ELECTRIC CURRENT IMAGING
(73) LG Energy Solution, Ltd.	(22) 26.11.2020	SYSTEM
(72) KIM, Yong-Jun	(54) CIRCUIT DIAGNOSING APPARATUS	(73) Lacouture, Shelby
LEE, Eun-Ju	AND BATTERY PACK INCLUDING THE	Texas Tech University System
BAE, Yoon-Jung	SAME	(72) LACOUTURE, Shelby
(31) 20190112316	(73) LG Energy Solution, Ltd.	(31) 201662384260 P
20180109210	(72) JUNG, Geon	(32) 07.09.2016
(32) 10.09.2019	(31) 20190153700	(33) United States of America
12.09.2018	(32) 26.11.2019	<hr/>
(33) Korea (Republic)	(33) Korea (Republic)	(51) G01R 33/34
Korea (Republic)	(51) G01R 31/62	G01R 33/422
(51) G01R 31/396	G01R 31/72	G01R 33/48
(11) EP3754354	(11) EP3311179	(11) EP3289371
(21) EP20178092.1	(21) EP16723770.0	(21) EP16718374.8
(47) 26.07.2023	(47) 26.07.2023	(47) 26.07.2023
(22) 03.06.2020	(87) EP2016061401	(87) EP2016059253
(54) A METHOD OF OPERATING	22.12.2016	03.11.2016
BATTERY MANAGEMENT SYSTEMS,	(22) 20.05.2016	(22) 26.04.2016
CORRESPONDING DEVICE AND	(54) TEST DEVICE AND METHOD FOR	(54) RADIO FREQUENCY VOLUME
VEHICLE	OPERATING A TEST DEVICE	COIL WITH IMPROVED SPACE AND
(73) STMicroelectronics S.r.l.	(73) Omicron electronics GmbH	ACCESS FOR USE IN A MAGNETIC
(72) ZELLA, Daniele	(72) FLAX, Dirk	RESONANCE EXAMINATION SYSTEM
D'ANGELO, Vittorio	KAUFMANN, Reinhard	(73) Koninklijke Philips N.V.
BENDOTTI, Valerio	(31) 505032015	(72) FINDEKLEE, Christian
PENNISI, Orazio	(32) 17.06.2015	LEUSSLER, Christoph
(31) 201900009234	(33) Austria	(31) 15166023
(32) 17.06.2019	(51) G01R 31/74	(32) 30.04.2015
(33) Italy	H01H 85/30	(33) European Patent Office (EPO)
(51) G01R 31/396	H02H 3/04	<hr/>
(11) EP3754355	(11) EP4063888	(51) G01R 33/3815
(21) EP20178099.6	(21) EP21164816.7	H01F 6/06
(47) 26.07.2023	(47) 26.07.2023	(11) EP3213103
(22) 03.06.2020	(22) 25.03.2021	(21) EP15787935.4
(54) A METHOD OF OPERATING	(54) METHOD AND APPARATUS FOR	(47) 26.07.2023
BATTERY MANAGEMENT SYSTEMS,	DETECTION OF A FUSE FAILURE	(87) EP2015074525
CORRESPONDING DEVICE AND	(73) Future Systems Besitz GmbH	06.05.2016
VEHICLE	(72) Masel, Joram	(22) 22.10.2015
(73) STMicroelectronics S.r.l.	Lenker, Hubert	(54) SUPPORT OF SUPERCONDUCTING
(72) TURBANTI, Mr. Paolo	(51) G01R 33/00	COILS FOR MRI SYSTEMS
D'ANGELO, Mr. Vittorio	G01R 33/025	(73) Siemens Healthcare Limited
BENDOTTI, Mr. Valerio	G01R 33/07	(72) NOYS, Jonathan
PENNISI, Mr. Orazio	G01R 33/09	CALVERT, Simon James
(31) 201900009237	G01L 3/10	(31) 201515687
(32) 17.06.2019	(11) EP3754356	201419125
(33) Italy	(21) EP20177793.5	201419124
(51) G01R 31/396	(47) 26.07.2023	(32) 04.09.2015
G01R 31/3842	(22) 02.06.2020	27.10.2014
		27.10.2014
		(33) United Kingdom
		United Kingdom

United Kingdom	WOJTOWICZ, Marek A.	(54) SOUND SOURCE LOCALIZATION
(51) G01R 33/48	DRUKIER, Gordon A.	CONFIDENCE ESTIMATION USING
G01R 33/565	SOLOMON, Peter R.	MACHINE LEARNING
G01R 33/561	RUBENSTEIN, Eric P.	(73) Microsoft Technology Licensing, LLC
(11) EP3151027	RUBENSTEIN, Yonatan B.	(72) VENALAINEN, Kevin Juho
(21) EP16002132.5	(31) 201261725226 P	(31) 201715657475
(47) 26.07.2023	(32) 12.11.2012	(32) 24.07.2017
(22) 04.10.2016	(33) United States of America	(33) United States of America
(54) MRI METHOD FOR JOINTLY RECONSTRUCTING AN IMAGE AND ESTIMATING THE ACTUAL K-SPACE TRAJECTORY	(51) G01R 35/04	(51) G01S 5/02
(73) THE GENERAL HOSPITAL CORPORATION	G01R 22/06	G01S 5/14
(72) Setsompop, Kawin	(11) EP3446143	B60D 1/00
Cauley, Stephen	(21) EP17785194.6	B60W 40/00
Wald, Lawrence	(47) 26.07.2023	G01S 5/08
(31) 201562235738 P	(87) CA2017050448	G01S 5/12
(32) 01.10.2015	26.10.2017	B60D 1/62
(33) United States of America	(22) 12.04.2017	B60W 40/10
(51) G01R 33/561	(54) ONLINE CALIBRATION OF METERS AND DETECTION OF ELECTRICAL NON-CONFORMITIES	G01S 13/87
G01R 33/565	(73) Hydro-Québec	G01S 13/931
G01R 33/563	(72) VIAU, Mathieu	(11) EP3803440
G01R 33/28	ZINFLOU, Arnaud	(21) EP19726945.9
(11) EP3607340	BOUFFARD, Alexandre	(47) 26.07.2023
(21) EP18780847.2	LÉONARD, François	(87) EP2019063204
(47) 26.07.2023	(31) 2927482	05.12.2019
(87) US2018023762	(32) 20.04.2016	(22) 22.05.2019
11.10.2018	(33) Canada	(54) METHOD AND DEVICE FOR DETERMINING VEHICLE PARAMETERS
(22) 22.03.2018	(51) G01S 3/02	(73) Continental Automotive Technologies GmbH
(54) SYSTEM AND METHOD FOR IMPROVED SPIN-ECHO-BASED MAGNETIC RESONANCE IMAGING	G01S 3/48	(72) WEINLICH, Andreas
(73) Beth Israel Deaconess Medical Center, Inc.	G01S 13/78	SCHMALRIEDE, Tobias
(72) ALSOP, David	G01S 13/933	KABUTZ, Marten
ZHAO, Li	G08G 5/00	SMITS, Thomas
(31) 201762481786 P	G08G 5/04	(31) 102018208526
(32) 05.04.2017	G01S 7/40	(32) 29.05.2018
(33) United States of America	(11) EP3896476	(33) Germany
(51) G01R 33/563	(21) EP21168731.4	(51) G01S 5/16
A61B 5/055	(47) 26.07.2023	(11) EP2718668
(11) EP2572638	(22) 15.04.2021	(21) EP12797037.4
(21) EP11842125.4	(54) SIMPLIFIED TCAS SURVEILLANCE	(47) 26.07.2023
(47) 26.07.2023	(73) HONEYWELL INTERNATIONAL INC.	(87) IB2012052889
(87) JP2011076328	(72) BRANDAO, Ruy C.	13.12.2012
24.05.2012	(31) 202016850343	(22) 07.06.2012
(22) 15.11.2011	(32) 16.04.2020	(54) SENSOR POSITIONING FOR 3D SCANNING
(54) MAGNETIC RESONANCE IMAGING APPARATUS AND MAGNETIC RESONANCE IMAGING METHOD	(33) United States of America	(73) Creaform Inc.
(73) Toshiba Medical Systems Corporation	(51) G01S 3/802	(72) GIGNAC, Olivier
(72) MIYAZAKI, Mitsue	(11) EP3807669	CARETTE, Alexandre
(31) 946549	(21) EP19737854.0	TUBIC, Dragan
(32) 15.11.2010	(47) 26.07.2023	HÉBERT, Patrick
(33) United States of America	(87) FR2019051377	ROCHETTE, Félix
(51) G01R 35/00	19.12.2019	SAINT-PIERRE, Éric
G01T 7/00	(22) 07.06.2019	(31) 201161494075 P
(11) EP2917753	(54) LOCATION OF SOUND SOURCES IN A GIVEN ACOUSTIC ENVIRONMENT	(32) 07.06.2011
(21) EP13852440.0	(73) ORANGE	(33) United States of America
(47) 26.07.2023	(72) KITIC, Srdan	(51) G01S 7/40
(87) US2013069706	GUERIN, Alexandre	G01S 7/497
15.05.2014	LEFORT, Arnaud	G01S 13/931
(22) 12.11.2013	(31) 1855188	G01S 17/931
(54) CROWD-SOURCED HARDWARE CALIBRATION	(32) 13.06.2018	G01S 7/41
(73) Image Insight, Inc.	(33) France	(11) EP3550322
(72) KESSLER, Joshua C.	(51) G01S 3/808	(21) EP19164918.5
	(11) EP3639051	(47) 26.07.2023
	(21) EP18731702.9	(22) 25.03.2019
	(47) 26.07.2023	(54) CALIBRATION LINE FOR CALIBRATING A MEASURING SYSTEM AND A METHOD FOR CALIBRATING A MEASURING SYSTEM
	(87) US2018034816	
	31.01.2019	
	(22) 29.05.2018	

(73) ZF Friedrichshafen AG	(51) G01S 7/4911	(54) RADAR IMAGE PROCESSING DEVICE
(72) Maile, Florian	G01S 7/4913	AND RADAR IMAGE PROCESSING
Oprisan, Dan	G01S 7/4912	METHOD
(31) 102018204899	G01S 7/493	(73) Mitsubishi Electric Corporation
(32) 29.03.2018	G01S 17/34	(72) SUWA, Kei
(33) Germany	(11) EP4083657	KATAYAMA, Yumiko
(51) G01S 7/40	(21) EP21170473.9	(31) PCT/JP2018/013795
H01Q 9/16	(47) 26.07.2023	(32) 30.03.2018
H01Q 9/04	(22) 26.04.2021	(33) World Intellectual Property Office (WIPO)
H01Q 1/22	(54) FMCW LIDAR DISTANCE MEASURING	(51) G01S 13/931
(11) EP3624265	DEVICE	G01S 13/87
(21) EP18822774.8	(73) SICK AG	H04L 27/00
(47) 26.07.2023	(72) Menzel, Christoph	H04L 7/06
(87) CN2018092184	Blöhbaum, Frank	(11) EP3591434
03.01.2019	(51) G01S 7/62	(21) EP18305860.1
(22) 21.06.2018	G01S 15/89	(47) 26.07.2023
(54) ANTENNA, PERIPHERAL CIRCUIT,	(11) EP3096159	(22) 02.07.2018
ANTENNA SYSTEM, AND SIGNAL	(21) EP16170460.6	(54) COMMUNICATION UNIT, INTEGRATED
PROCESSING METHOD	(47) 26.07.2023	CIRCUITS AND METHOD FOR CLOCK
(73) Huawei Technologies Co., Ltd.	(22) 19.05.2016	AND DATA SYNCHRONIZATION
(72) WANG, Sunjie	(54) SONAR SYSTEMS AND METHODS	(73) NXP USA, Inc.
INSERRA, Daniele	USING INTERFEROMETRY AND	(72) PAVAO MOREIRA, Cristian
ZHANG, Huaizhi	BEAMFORMING FOR 3D IMAGING	DOARE, Olivier
WEN, Guangjun	(73) Navico Holding AS	SALLE, Didier
(31) 201710526872	(72) HORNER,, Ronald Joe	VIGIER, Jean-Stephane
(32) 30.06.2017	PROCTOR,, Alan Lee	ORLANDO, Julien
(33) China	(31) 201514717458	BARRILADO GONZALEZ, Andres
(51) G01S 7/481	(32) 20.05.2015	(51) G01S 17/10
G01S 7/493	(33) United States of America	G01S 7/497
G01S 17/894	(51) G01S 13/34	G01S 7/4865
(11) EP3114503	G01S 7/282	G01S 7/484
(21) EP15758148.9	G01S 7/35	G01S 17/931
(47) 26.07.2023	G01S 13/02	(11) EP3717938
(87) NZ2015000012	(11) EP3696570	(21) EP18811482.1
11.09.2015	(21) EP19157470.6	(47) 26.07.2023
(22) 06.03.2015	(47) 26.07.2023	(87) EP2018082518
(54) TIME OF FLIGHT CAMERA SYSTEM	(22) 15.02.2019	31.05.2019
WHICH RESOLVES DIRECT	(54) RADAR TRANSCEIVER	(22) 26.11.2018
AND MULTI-PATH RADIATION	(73) Stichting IMEC Nederland	(54) OPTOELECTRONIC DETECTION
COMPONENTS	(72) MERCURI, Marco	DEVICE, METHOD FOR OPERATING
(73) University of Waikato	LIU, Yao-Hong	SUCH A DETECTION DEVICE, AND
(72) DORRINGTON, Adrian Andrew	(51) G01S 13/88	MOTOR VEHICLE HAVING SUCH A
WHYTE, Refael Zabdi	G01S 13/34	DETECTION DEVICE
(31) 70134514	G01V 3/12	(73) Valeo Schalter und Sensoren GmbH
62211714	G01S 7/02	(72) SCHENK, Jochen
(32) 23.10.2014	G01V 8/00	KLEISER, Michael
06.03.2014	(11) EP3994489	NIES, Jürgen
(33) New Zealand	(21) EP19755334.0	SELBMANN, Frank
New Zealand	(47) 26.07.2023	(31) 102017127922
(51) G01S 7/481	(87) EP2019071688	(32) 27.11.2017
G01S 17/89	24.12.2020	(33) Germany
G01S 17/10	(22) 13.08.2019	(51) G01S 17/10
(11) EP4134702	(54) RECONFIGURABLE GPR DEVICE	G01S 17/58
(21) EP22185910.1	(73) Proceq SA	G01S 17/93
(47) 26.07.2023	(72) GEISER, Michael	G01S 7/491
(22) 20.07.2022	LEHNER, Samuel	G01S 7/493
(54) BEAM SPLITTER ARRANGEMENT	POSER, Marcel	G01S 17/32
FOR AN OPTOELECTRONIC SENSOR,	KNORR, Thomas	(11) EP3436845
OPTOELECTRONIC SENSOR	TSALICOGLOU, Isaak	(21) EP17726445.4
COMPRISING SUCH A DEVICE AND	(51) G01S 13/90	(47) 26.07.2023
METHOD FOR BEAM SPLITTING IN AN	(11) EP3757610	(87) US2017033265
OPTOELECTRONIC SENSOR	(21) EP19776654.6	30.11.2017
(73) SICK AG	(47) 26.07.2023	(22) 18.05.2017
(72) Baldischweiler, Boris	(87) JP2019014008	(54) DIRECT DETECTION LIDAR SYSTEM
Menzel, Christoph	03.10.2019	AND METHOD WITH FREQUENCY
(31) 102021120698	(22) 29.03.2019	MODULATION (FM) TRANSMITTER
(32) 09.08.2021		AND QUADRATURE RECEIVER
(33) Germany		(73) Veoneer US, LLC

- (72) PUGLIA, Kenneth V.
DE MERSEMAN, Bernard
(31) 201615264830
201662340758 P
(32) 14.09.2016
24.05.2016
(33) United States of America
United States of America
-
- (51) G01S 17/88
G01S 7/497
G01B 21/04
G01B 11/00
G01S 17/66
G01S 7/481
F16B 7/04
(11) EP3721256
(21) EP18886126.4
(47) 26.07.2023
(87) US2018064781
13.06.2019
(22) 10.12.2018
(54) LASER TRACKER CALIBRATION
SYSTEM AND METHODS
(73) Brunson Instrument Company
(72) MEURET, Mark
(31) 201762596447 P
(32) 08.12.2017
(33) United States of America
-
- (51) G01S 17/89
G01S 17/36
G01S 17/894
G01S 7/481
G01S 7/4861
G01S 7/4914
G01S 7/4915
G01S 7/497
(11) EP3715906
(21) EP20152070.7
(47) 26.07.2023
(22) 15.01.2020
(54) IMAGING DEVICE AND IMAGE
SENSOR
(73) Samsung Electronics Co., Ltd.
(72) KEEL, Minsun
BAE, Myunghan
KIM, Daeyun
KIM, Yeomyung
RYU, Hyunsurk
(31) 20190034179
(32) 26.03.2019
(33) Korea (Republic)
-
- (51) G01S 17/931
G01S 7/486
G01S 7/497
G01S 17/42
(11) EP3665505
(21) EP18749368.9
(47) 26.07.2023
(87) EP2018070935
14.02.2019
(22) 02.08.2018
(54) DETERMINING THE MAXIMUM RANGE
OF A LIDAR SENSOR
(73) Valeo Schalter und Sensoren GmbH
(72) FISCHER, Michael
(31) 102017118160
(32) 09.08.2017
(33) Germany
-
- (51) G01S 19/50
G01S 19/11
(11) EP3698173
(21) EP18826434.5
(47) 26.07.2023
(87) FR2018053133
13.06.2019
(22) 06.12.2018
(54) POSITIONING SYSTEM WITH GNSS
SIGNAL GENERATION MEANS AND
RADIATING CABLE
(73) Syntony
(72) PATOUT, Benjamin
GERNOT, Cyrille
GERNOT, Florence
(31) 1761856
(32) 08.12.2017
(33) France
-
- (51) G01V 1/30
(11) EP3090279
(21) EP14835715.5
(47) 26.07.2023
(87) IB2014002948
09.07.2015
(22) 12.12.2014
(54) METHODS AND SYSTEMS OF
DETERMINING A FAULT PLANE OF A
MICROSEISMIC EVENT
(73) Sercel
(72) BARDAINNE, Thomas
(31) 201361921951 P
(32) 30.12.2013
(33) United States of America
-
- (51) G01V 1/36
(11) EP3596513
(21) EP18767221.7
(47) 26.07.2023
(87) NO2018050077
20.09.2018
(22) 19.03.2018
(54) A METHOD OF DEGHOSTING SEISMIC
S-WAVE DATA
(73) Equinor Energy AS
(72) GUTTORMSEN, Marit Stustad
KING, Ben
WESTERDAHL, Harald
ØSTMO, Svend
(31) 201704290
(32) 17.03.2017
(33) United Kingdom
-
- (51) G01V 1/36
(11) EP3191872
(21) EP15797392.6
(47) 26.07.2023
(87) IB2015001930
17.03.2016
(22) 09.09.2015
(54) WAVE-FIELD RECONSTRUCTION
USING A REFLECTION FROM A
VARIABLE SEA SURFACE
(73) CGG Services SAS
(72) KING, Simon
POOLE, Gordon
(31) 201462048286 P
(32) 10.09.2014
(33) United States of America
-
- (51) G01V 1/38
(11) EP2577355
(21) EP11792934.9
(47) 26.07.2023
(87) US2011039156
15.12.2011
(22) 03.06.2011
(54) FLARING METHODOLOGIES FOR
MARINE SEISMIC DATA ACQUISITION
(73) ConocoPhillips Company
(72) BREWER, Joel D.
EICK, Peter M.
(31) 352098 P
(32) 07.06.2010
(33) United States of America
-
- (51) G01V 1/50
G01V 1/46
G01N 29/07
G01N 29/11
G01N 29/46
G01N 29/50
G01V 1/40
(11) EP3408497
(21) EP17744705.9
(47) 26.07.2023
(87) US2017014022
03.08.2017
(22) 19.01.2017
(54) NON-LINEAR ACOUSTIC FORMATION
EVALUATION
(73) Baker Hughes Holdings LLC
(72) HAN, Wei
YAO, Xiaochu
ZHANG, Hao
ZHOU, Quming
(31) 201615010730
201662286932 P
(32) 29.01.2016
25.01.2016
(33) United States of America
United States of America
-
- (51) G01V 3/08
(11) EP3427088
(21) EP17714851.7
(47) 26.07.2023
(87) FR2017050537
14.09.2017
(22) 09.03.2017
(54) METHOD FOR DETECTING AN
ANOMALY IN THE CONTEXT OF
USING A MAGNETIC POSITIONING
DEVICE
(73) Minmaxmedical
Commissariat à l'Energie Atomique et
aux Energies Alternatives
(72) BERTRAND, François
CHAVE, Mickaël
LAVALLÉE, Stéphane
ALOUÏ, Saifeddine
(31) 1652053
(32) 11.03.2016
(33) France
-
- (51) G01V 3/12
G01V 8/00
G01F 23/284
G01S 13/34
G01S 13/88
(11) EP3258296
(21) EP16174419.8
(47) 26.07.2023

(22) 14.06.2016	(21) EP14752508.3	(33) Belgium
(54) REFLECTION MICROWAVE BARRIER	(47) 26.07.2023	(51) G02B 5/26
(73) VEGA Grieshaber KG	(87) US2014048666	B32B 7/02
(72) WÄLDE, Steffen	12.03.2015	G02B 5/22
GRIESSBAUM, Karl	(22) 29.07.2014	(11) EP2899574
WELLE, Roland	(54) OPAQUE COLOR STACK FOR	(21) EP13838930.9
(51) G01W 1/14	ELECTRONIC DEVICE	(47) 26.07.2023
G05D 9/12	(73) Apple Inc.	(87) JP2013073881
G01F 23/296	(72) WEBER, Douglas J.	27.03.2014
G01W 1/02	MATSUYUKI, Naoto	(22) 05.09.2013
(11) EP3707536	(31) 201314019526	(54) HEAT RAY CUTTING FILM AND
(21) EP18875735.5	(32) 05.09.2013	METHOD FOR PRODUCING SAME,
(47) 26.07.2023	(33) United States of America	AND LAMINATED GLASS AND HEAT
(87) AU2018051205	(51) G02B 5/04	RAY CUTTING MEMBER
16.05.2019	F21V 8/00	(73) FUJIFILM Corporation
(22) 08.11.2018	G02B 1/118	(72) TAGUCHI Takao
(54) RAIN GAUGE/WEATHER STATION	(11) EP3428694	YOSHIKAWA Masaru
(73) Rubicon Research Pty Ltd	(21) EP17770349.3	KATOH Shunya
(72) SIRAGUSANO, Mario, Joseph	(47) 26.07.2023	OKI Kazuhiro
DITTOFF, Rolf	(87) JP2017011729	(31) 2012204198
DELACORN, Joel, Michael	28.09.2017	(32) 18.09.2012
AUGHTON, David, John	(22) 23.03.2017	(33) Japan
(31) 2018900611	(54) OPTICAL BODY AND LIGHT-EMITTING	(51) G02B 5/30
2017904534	DEVICE	G02B 5/08
(32) 26.02.2018	(73) Dexerials Corporation	G09F 9/00
08.11.2017	(72) SAKURAI, Kyoko	G02B 5/26
(33) Australia	HANASHIMA, Naoki	(11) EP3447548
Australia	KANEKO, Naoto	(21) EP17785770.3
(51) G02B 1/04	HAYASHIBE, Kazuya	(47) 26.07.2023
(11) EP3724699	KAJIYA, Shunichi	(87) JP2017013882
(21) EP18827237.1	DOI, Katsuhiro	26.10.2017
(47) 26.07.2023	(31) 2016062290	(22) 03.04.2017
(87) IB2018059474	(32) 25.03.2016	(54) MIRROR WITH IMAGE DISPLAY
20.06.2019	(33) Japan	FUNCTION AND HALF MIRROR
(22) 29.11.2018	(51) G02B 5/124	(73) FUJIFILM Corporation
(54) METHOD FOR PRODUCING MPS-	G02B 5/08	(72) TOMARU, Mikio
COMPATIBLE WATER GRADIENT	(11) EP3153908	TAKADA, Katsuyuki
CONTACT LENSES	(21) EP15802533.8	TAGUCHI, Takao
(73) Alcon Inc.	(47) 26.07.2023	(31) 2016169864
(72) SAMUEL, Newton T.	(87) JP2015066196	2016085025
PRUITT, John Dallas	10.12.2015	(32) 31.08.2016
QIU, Yongxing	(22) 04.06.2015	21.04.2016
MCCOLLUM, Matthew	(54) IMAGE DISPLAY DEVICE AND IMAGE	(33) Japan
TALLAU, Kelly Kayi	DISPLAY METHOD	Japan
CHIANG, Chung-Yuan	(73) Asukanet Company, Ltd.	(51) G02B 5/30
MINICK, Kasey Jon	(72) OTSUBO, Makoto	G02B 27/28
GOVAN, Richard	(31) 2014116904	G02B 6/27
(31) 201762598029 P	(32) 05.06.2014	H04Q 11/00
201762598028 P	(33) Japan	G02B 6/28
201762598025 P	(51) G02B 5/20	G02B 6/35
201762598018 P	G02B 5/22	(11) EP3224664
(32) 13.12.2017	G02B 5/26	(21) EP15862819.8
13.12.2017	G02B 5/08	(47) 26.07.2023
13.12.2017	C03C 17/36	(87) US2015062131
13.12.2017	B32B 17/10	02.06.2016
(33) United States of America	(11) EP2577368	(22) 23.11.2015
United States of America	(21) EP11723911.1	(54) LAUNCH OPTICS WITH OPTICAL
United States of America	(47) 26.07.2023	PATH COMPENSATION FOR A
United States of America	(87) EP2011058540	WAVELENGTH SELECTIVE SWITCH
(51) G02B 1/115	01.12.2011	(73) Molex, LLC
G02B 1/11	(22) 25.05.2011	(72) WAGENER, Jefferson L.
C03C 17/36	(54) SOLAR CONTROL GLAZING WITH	HALLER, Mitchell E.
C03C 17/34	LOW SOLAR FACTOR	(31) 201414554633
G06F 3/044	(73) AGC Glass Europe	(32) 26.11.2014
B05D 5/06	(72) HEVESI, Kadosa	(33) United States of America
G02B 26/00	SICHA, Jan	(51) G02B 6/10
G02F 1/1335	(31) 201000310	G02B 6/27
(11) EP3014405	(32) 25.05.2010	G02B 6/126

G02B 6/14	(51) G02B 6/42	(47) 26.07.2023
(11) EP3339922	H01S 5/022	(22) 08.11.2019
(21) EP16206810.0	(11) EP4022376	(54) METHOD OF PROCESSING CAMERA
(47) 26.07.2023	(21) EP20725346.9	LENS, CAMERA LENS, CAMERA
(22) 23.12.2016	(47) 26.07.2023	ASSEMBLY AND ELECTRONIC DEVICE
(54) OPTICAL CHIP AND METHOD FOR	(87) US2020029345	(73) Beijing Xiaomi Mobile Software Co., Ltd.
COUPLING LIGHT	04.03.2021	(72) YIN, Zhidong
(73) Huawei Technologies Research &	(22) 22.04.2020	(31) 201811331003
Development Belgium NV	(54) MICRO-OPTICAL BENCH INCLUDING	(32) 09.11.2018
(72) LAMPONI, Marco	OFFSET PATTERNED MICRO-LENS	(33) China
TASSAERT, Martijn	(73) HRL LABORATORIES, LLC	
(51) G02B 6/124	(72) PATTERSON, Pamela	(51) G02B 19/00
G02B 6/27	HERRAULT, Florian	F21V 5/04
G02B 6/02	SAYYAH, Keyvan R.	F21V 7/00
(11) EP3812812	EFIMOV, Oleg M.	(11) EP3044626
(21) EP20199124.7	(31) 201962892249 P	(21) EP14777977.1
(47) 26.07.2023	(32) 27.08.2019	(47) 26.07.2023
(22) 29.09.2020	(33) United States of America	(87) US2014055511
(54) INTEGRATED PHOTONICS MODE	(51) G02B 6/44	19.03.2015
SPLITTER AND CONVERTER	(11) EP3771935	(22) 12.09.2014
(73) Honeywell International Inc.	(21) EP20187874.1	(54) LIGHT-EMITTING DEVICE WITH
(72) TIN, Steven	(47) 26.07.2023	TOTAL INTERNAL REFLECTION (TIR)
PUCKETT, Matthew Wade	(22) 27.07.2020	EXTRACTOR
FERTIG, Chad	(54) CABLE SKIN LAYER WITH ACCESS	(73) Quarkstar LLC
(31) 202016803820	SECTIONS INTEGRATED INTO A	(72) MAGEL, Gregory A.
201962924058 P	CABLE JACKET	GARDNER, Robert C.
(32) 27.02.2020	(73) Corning Research & Development	SPEIER, Ingo
21.10.2019	Corporation	HAITZ, Roland H.
(33) United States of America	(72) Register, III, James Arthur	SCHINAGL, Ferdinand
United States of America	Abernathy, George Cornelius	STORMBERG, Hans Peter
(51) G02B 6/30	(31) 201962881298 P	(31) PCT/US2013/059511
G02B 6/122	(32) 31.07.2019	(32) 12.09.2013
(11) EP3123218	(33) United States of America	(33) World Intellectual Property Office (WIPO)
(21) EP15716705.7	(51) G02B 6/44	(51) G02B 21/00
(47) 26.07.2023	G02B 6/38	A61B 90/20
(87) US2015024614	(11) EP3271766	G02B 23/24
15.10.2015	(21) EP16710755.6	G02B 21/36
(22) 07.04.2015	(47) 26.07.2023	A61B 1/00
(54) EDGE COUPLING USING	(87) EP2016056068	A61B 1/04
ADIABATICALLY TAPERED	29.09.2016	A61B 5/00
WAVEGUIDES	(22) 18.03.2016	A61B 90/30
(73) Huawei Technologies Co. Ltd.	(54) CLOSURE WITH AXIAL PULL	A61B 90/00
(72) PAN, Huapu	PROTECTION FOR CONNECTORIZED	G01N 21/64
ZHENG, Xueyan	CABLES	A61B 90/50
CHEN, Hongmin	(73) CommScope Connectivity Belgium BVBA	(11) EP3671306
(31) 201461976803 P	(72) VAN BAELEN, David, Jan, Irma	(21) EP18215010.2
(32) 08.04.2014	(31) 201562136256 P	(47) 26.07.2023
(33) United States of America	(32) 20.03.2015	(22) 21.12.2018
(51) G02B 6/42	(33) United States of America	(54) IMAGE-PROCESSING DEVICE,
(11) EP4057039	(51) G02B 7/00	FLUORESCENCE OBSERVATION
(21) EP22161009.0	G02B 26/00	DEVICE AND METHOD FOR
(47) 26.07.2023	(11) EP3705925	EMULATING A FIRST TYPE OF
(22) 09.03.2022	(21) EP19174259.2	FLUORESCENCE OBSERVATION
(54) OPTOELECTRONIC DEVICE	(47) 26.07.2023	DEVICE ON A SECOND TYPE OF
COMPRISING AN ACTIVE	(22) 14.05.2019	FLUORESCENCE OBSERVATION
PHOTONIC SPACER TO WHICH A	(54) LIGHT FILTERING ASSEMBLY USED IN	DEVICE
MICROELECTRONIC CHIP AND AN	A LENS MODULE	(73) Leica Instruments (Singapore) Pte. Ltd.
ELECTRO-OPTICAL CONVERSION	(73) DRAGONSTATE TECHNOLOGY CO.,	(72) THEMELIS, George
CHIP ARE CONNECTED	LTD.	(51) G02B 21/00
(73) COMMISSARIAT À L'ÉNERGIE	(72) ZHUANG, Yankui	A61B 90/20
ATOMIQUE ET AUX ÉNERGIES	YANG, Heng	G06T 7/00
ALTERNATIVES	(31) 108107175	(11) EP3488281
(72) BERNABE, Stéphane	(32) 05.03.2019	(21) EP17784567.4
CHARBONNIER, Jean	(33) Taiwan, Chinese Taipei	(47) 26.07.2023
THONNART, Yvain	(51) G02B 7/02	(87) EP2017074488
(31) 2102420	G02B 13/00	05.04.2018
(32) 11.03.2021	(11) EP3680698	(22) 27.09.2017
(33) France	(21) EP19208015.8	

(54) DETERMINING A TISSUE TYPE OF A TISSUE OF AN ANIMAL OR HUMAN INDIVIDUAL	(73) Continental Automotive Technologies GmbH	G02B 25/00 H04N 13/30 G02B 27/01 G02B 30/25
(73) Siemens Healthcare GmbH	(72) SCHAPER, Thomas	(11) EP3620844
(72) GIGLER, Alexander Michael	EFE, Yilmaz	(21) EP19793950.7
PASTUSIAK, Remigiusz	VETSCH, Eugen	(47) 26.07.2023
PAUST, Tobias	(31) 102017221531	(87) JP2019010450
OTTE, Clemens	(32) 30.11.2017	31.10.2019
VOGL, Stefanie	(33) Germany	(22) 14.03.2019
STÜTZ, Evamaria	(51) G02B 27/01	(54) EYEPIECE OPTICAL SYSTEM, MEDICAL VIEWER, AND MEDICAL VIEWER SYSTEM
SIMON, Elfriede	G02B 27/42	(73) Sony Group Corporation
ENGEL, Thomas	G02B 27/44	(72) HATAKEYAMA, Takeshi
(31) 102016218520	G02B 6/00	TSUJIMURA, Ichiro
(32) 27.09.2016	G02B 5/18	NAGAE, Satoshi
(33) Germany	F21V 8/00	(31) 2018081967
(51) G02B 26/08	G02B 6/293	(32) 23.04.2018
G02B 26/10	(11) EP3729178	(33) Japan
G09G 3/02	(21) EP19775555.6	(51) G02B 27/10
G02B 27/01	(47) 26.07.2023	G02B 5/18
(11) EP3746834	(87) FI2019050240	G02B 5/20
(21) EP19746976.0	03.10.2019	G02B 6/34
(47) 26.07.2023	(22) 22.03.2019	G02B 27/01
(87) US2019015879	(54) WAVEGUIDE DISPLAY ELEMENT	G02B 27/42
08.08.2019	(73) Dispelix Oy	(11) EP3732530
(22) 30.01.2019	(72) OLKKONEN, Juuso	(21) EP19774459.2
(54) METHOD AND SYSTEM FOR LARGE FIELD OF VIEW DISPLAY WITH SCANNING MIRROR HAVING OPTICAL POWER	BLOMSTEDT, Kasimir	(47) 26.07.2023
(73) Magic Leap, Inc.	(31) 20185292	(87) FI2019050149
(72) PELLMAN, Asaf	(32) 28.03.2018	03.10.2019
FREEDMAN, Barak	(33) Finland	(22) 25.02.2019
WEINSTEIN, Ori	(51) G02B 27/01	(54) DIFFRACTIVE GRATING
(31) 201862624762 P	G02C 3/00	(73) Dispelix Oy
(32) 31.01.2018	(11) EP3646105	(72) RAHOMÄKI, Jussi
(33) United States of America	(21) EP18779843.4	VARTIAINEN, Ismo
(51) G02B 26/12	(47) 26.07.2023	BLOMSTEDT, Kasimir
B23K 26/046	(87) US2018048998	(31) 20185294
B23K 26/082	14.03.2019	(32) 28.03.2018
B23K 26/12	(22) 31.08.2018	(33) Finland
B23K 26/064	(54) HEAD-MOUNTED DISPLAY WITH ADJUSTMENT MECHANISM	(51) G02B 27/28
B23K 26/0622	(73) Apple Inc.	G01R 15/24
B23K 26/38	(72) SAUERS, Jason C.	(11) EP2579088
B23K 26/402	ROTHKOPF, Fletcher R.	(21) EP11786337.3
B23K 26/06	MEURSING, Marinus	(47) 26.07.2023
B23K 103/16	OLSON, Jeffrey C.	(87) JP2011002919
(11) EP3812826	POORE, Killian J.	01.12.2011
(21) EP19826698.3	(31) 201762555143 P	(22) 25.05.2011
(47) 26.07.2023	(32) 07.09.2017	(54) OPTICAL FIBRE BIREFRINGENCE COMPENSATION MIRROR AND CURRENT SENSOR
(87) JP2019024302	(33) United States of America	(73) Adamant Namiki Precision Jewel Co., Ltd.
02.01.2020	(51) G02B 27/01	(72) KONNO, Yoshihiro
(22) 19.06.2019	G06F 3/01	SASAKI, Masaru
(54) LIGHTGUIDE DEVICE AND LASER PROCESSING DEVICE	G06V 20/20	(31) 2010134473
(73) Kawasaki Jukogyo Kabushiki Kaisha	(11) EP3382443	(32) 27.05.2010
(72) NAKAZAWA, Mutsuhiro	(21) EP18171699.4	(33) Japan
(31) 2018119597	(47) 26.07.2023	(51) G02B 27/42
(32) 25.06.2018	(22) 19.03.2015	H04N 13/349
(33) Japan	(54) HEAD-MOUNTED DISPLAY AND METHOD OF OPERATING THE SAME	H04N 13/398
(51) G02B 27/01	(73) Samsung Electronics Co., Ltd.	H04N 13/315
(11) EP3717955	(72) JOO, Ga-hyun	H04N 13/32
(21) EP18804272.5	(31) 20150004456	(11) EP3794404
(47) 26.07.2023	20140091319	(21) EP19725559.9
(87) EP2018081287	20140033704	(47) 26.07.2023
06.06.2019	(32) 12.01.2015	(87) US2019031332
(22) 15.11.2018	18.07.2014	21.11.2019
(54) HEAD-UP-DISPLAY-SYSTEM	21.03.2014	
	(33) Korea (Republic)	
	Korea (Republic)	
	Korea (Republic)	
	(51) G02B 27/02	

(22) 08.05.2019	(54) DEVICE INCLUDING STRUCTURE OVER AIRGAP	G02F 1/13363
(54) 3D DISPLAY DIRECTIONAL BACKLIGHT BASED ON DIFFRACTIVE ELEMENTS	(73) Hewlett Packard Enterprise Development LP	G02F 1/1347
(73) InterDigital Madison Patent Holdings, SAS	(72) LIANG, Di	(11) EP3682289
(72) OJALA, Kai	(31) 201815963543	(21) EP18857077.4
(31) MAKINEN, Jukka-Tapani	(32) 26.04.2018	(47) 26.07.2023
(32) 201862673025 P	(33) United States of America	(87) US2018051027
(33) 17.05.2018	(51) G02F 1/11	21.03.2019
(51) G02C 7/04	(11) EP3529660	(22) 14.09.2018
B29C 39/02	(21) EP17797242.9	(54) SWITCHABLE DIRECTIONAL DISPLAY APPARATUS
C08F 290/06	(47) 26.07.2023	(73) RealD Spark, LLC
C08G 77/20	(87) EP2017076484	(72) ROBINSON, Michael G.
G02B 1/04	26.04.2018	RAMSEY, Robert A.
(11) EP3627212	(22) 17.10.2017	HARROLD, Jonathan
(21) EP18801754.5	(54) HIGH-FREQUENCY DRIVER CIRCUIT FOR AN ACOUSTO-OPTICAL COMPONENT AND METHOD FOR OPERATING A HIGH-FREQUENCY DRIVER CIRCUIT	WOODGATE, Graham J.
(47) 26.07.2023	(73) TRUMPF Schweiz AG	(31) 201862699914 P
(87) JP2018018102	(72) BRENNDÖRFER, Knut	201862673359 P
22.11.2018	(31) 102016220349	201862641657 P
(22) 10.05.2018	(32) 18.10.2016	201862634168 P
(54) CONTACT LENS COMPOSITION, AND CONTACT LENS AND METHOD FOR MANUFACTURING SAME	(33) Germany	201762592085 P
(73) Toray Industries, Inc.	(51) G02F 1/1333	201762582052 P
(72) NAKAMURA, Masataka	G02F 1/1335	201762565836 P
IIMORI, Hirokazu	G02F 1/1362	201762559187 P
(31) 2017202349	H01L 27/12	(32) 18.07.2018
2017099489	(11) EP3598216	18.05.2018
(32) 19.10.2017	(21) EP17870627.1	12.03.2018
19.05.2017	(47) 26.07.2023	22.02.2018
(33) Japan	(87) CN2017108052	29.11.2017
Japan	20.09.2018	06.11.2017
(51) G02C 7/08	(22) 27.10.2017	29.09.2017
G02C 7/04	(54) CURVED DISPLAY PANEL	15.09.2017
G02C 11/00	(73) BOE Technology Group Co., Ltd.	(33) United States of America
G02F 1/1339	Chongqing Boe Optoelectronics Technology Co., Ltd.	United States of America
G02F 1/29	(72) DU, Hongwei	United States of America
(11) EP3853660	CHUNG, Jaemoon	United States of America
(21) EP18808073.3	(31) 201710156155	United States of America
(47) 26.07.2023	(32) 16.03.2017	United States of America
(87) GB2018053311	(33) China	United States of America
26.03.2020	(51) G02F 1/1333	United States of America
(22) 15.11.2018	G06F 1/16	United States of America
(54) FLEXIBLE, ADJUSTABLE LENS POWER LIQUID CRYSTAL CELLS AND LENSES	(11) EP3865933	(51) G02F 1/1347
(73) CooperVision International Limited	(21) EP21156233.5	G02F 1/13363
(72) WANG, Yu-Jen	(47) 26.07.2023	G02F 1/139
LO, Hao-Ren	(22) 10.02.2021	(11) EP3710889
LIN, Yi-Hsin	(54) DISPLAY DEVICE INCLUDING BONDING MEMBER	(21) EP18879175.0
LIN, Hung-Chun	(73) Samsung Display Co., Ltd.	(47) 26.07.2023
(31) 201816138675	(72) Ahn, Na Ri	(87) US2018061861
(32) 21.09.2018	Park, Young Gil	23.05.2019
(33) United States of America	Park, Jun Su	(22) 19.11.2018
(51) G02F 1/025	Kwon, O Jun	(54) SELF-COMPENSATING LIQUID CRYSTAL RETARDATION SWITCH
H01L 21/20	Kwon, Gi Suk	(73) Meta Platforms Technologies, LLC
H01L 21/764	(31) 20200099969	(72) McGettigan, Anthony D.
H01S 5/06	20200018502	Sharp, Gary D.
H01S 5/22	(32) 10.08.2020	(31) 201762588095 P
(11) EP3785294	14.02.2020	(32) 17.11.2017
(21) EP19794011.7	(33) Korea (Republic)	(33) United States of America
(47) 26.07.2023	Korea (Republic)	(51) G03B 5/04
(87) US2019029478	(51) G02F 1/1335	H04M 1/02
31.10.2019	G02B 6/00	G02B 7/10
(22) 26.04.2019	F21V 8/00	G02B 13/00
	G02B 30/25	G02B 15/14
		G02B 7/02
		G03B 5/00
		G03B 17/12
		G03B 30/00
		H04N 23/55
		H04N 23/57
		(11) EP3895412

(21) EP19705480.2	23.06.2016	C08G 63/91
(47) 26.07.2023	23.06.2016	(11) EP3264184
(87) EP2019053421	(33) China	(21) EP16755398.1
20.08.2020	China	(47) 26.07.2023
(22) 12.02.2019	China	(87) JP2016055009
(54) OPTICAL SYSTEM FOR A CAMERA, AND ELECTRONIC DEVICE	China	01.09.2016
COMPRISING SAID OPTICAL SYSTEM	(51) G03B 37/04	(22) 22.02.2016
(73) HUAWEI TECHNOLOGIES CO., LTD.	H04N 13/332	(54) TONER BINDER AND TONER
(72) VIRTA, Markus	H04N 13/296	(73) Sanyo Chemical Industries, Ltd.
(51) G03B 15/05	H04N 13/344	(72) IZUMI, Tsuyoshi
G03B 15/03	H04N 13/243	ODAJIMA, Hiroshi
(11) EP3685228	G02B 27/01	HONDA, Masaru
(21) EP18857327.3	H04N 5/073	MINAKI, Masashi
(47) 26.07.2023	H04N 5/04	(31) 2015171052
(87) SE2018050940	(11) EP3467585	2015171015
21.03.2019	(21) EP18189223.3	2015124666
(22) 17.09.2018	(47) 26.07.2023	2015115956
(54) A FLASH HOUSING FOR	(22) 16.08.2018	2015035320
PHOTOGRAPHIC PURPOSES AND A	(54) HEAD-MOUNTED DISPLAY TRACKING	(32) 31.08.2015
METHOD FOR SIMULATING A FLASH	SYSTEM	31.08.2015
LIGHT	(73) Facebook Technologies, LLC	22.06.2015
(73) Profoto Aktiebolag	(72) LINDE, Oskar	08.06.2015
(72) STENBACKA, Emil	MELIN, Andrew	25.02.2015
ANSÉHN, Johan	(31) 201715728389	(33) Japan
(31) 1751151	PCT/US2017/056183	Japan
(32) 18.09.2017	(32) 09.10.2017	Japan
(33) Sweden	11.10.2017	Japan
(51) G03B 21/56	(33) United States of America	Japan
G03B 21/602	World Intellectual Property Office (WIPO)	(51) G03G 9/09
(11) EP3985435	(51) G03F 7/00	G03G 9/087
(21) EP20834893.8	G04D 3/00	(11) EP3610330
(47) 26.07.2023	C25D 1/00	(21) EP18719678.7
(87) CN2020098452	C25D 5/02	(47) 26.07.2023
07.01.2021	G04B 13/02	(87) JP2018014653
(22) 28.06.2020	(11) EP3839627	18.10.2018
(54) PROJECTION SCREEN	(21) EP19217760.8	(22) 06.04.2018
(73) Appotronics Corporation Limited	(47) 26.07.2023	(54) TONER, TONER STORED UNIT, IMAGE
(72) LI, Yi	(22) 18.12.2019	FORMING APPARATUS, AND IMAGE
SUN, Wei	(54) METHOD FOR MANUFACTURING	FORMING METHOD
WANG, Lin	A MICROMOULD FOR	(73) Ricoh Company, Ltd.
HU, Fei	ELECTROFORMING OF	(72) SUZUKI, Kazumi
(31) 201910598796	MICROMECHANICAL COMPONENTS	SAWADA, Toyoshi
(32) 04.07.2019	(73) Mimotec S.A.	MATSUSHITA, Natsuko
(33) China	(72) MARTINS, John	NAITO, Yu
(51) G03B 30/00	GENOLET, Grégoire	(31) 2017078710
G03B 17/12	LORENZ, Hubert	(32) 12.04.2017
G02B 7/02	(51) G03F 7/20	(33) Japan
H04N 23/55	H01L 21/683	(51) G03G 15/04
G03B 11/00	F25B 23/00	H01L 33/62
(11) EP3477352	(11) EP3712703	B41J 2/45
(21) EP17814753.4	(21) EP18897285.5	H01L 25/16
(47) 26.07.2023	(47) 26.07.2023	H01L 27/15
(87) CN2017089749	(87) JP2018043987	H01L 33/00
28.12.2017	04.07.2019	(11) EP4047420
(22) 23.06.2017	(22) 29.11.2018	(21) EP21191358.7
(54) FIXED-FOCUS CAMERA MODULE	(54) COOLING DEVICE, SEMICONDUCTOR	(47) 26.07.2023
(73) Ningbo Sunny Opotech Co., Ltd.	MANUFACTURING DEVICE, AND	(22) 13.08.2021
(72) WANG, Mingzhu	SEMICONDUCTOR MANUFACTURING	(54) METHOD FOR MANUFACTURING A
ZHAO, Bojie	METHOD	LAMINATED SUBSTRATE, LAMINATED
SU, Xiaojuan	(73) CANON KABUSHIKI KAISHA	SUBSTRATE AND LIGHT EMITTING
CHEN, Zhenyu	(72) NOMOTO, Makoto	ELEMENT SUBSTRATE WITH THE
(31) 201620638177 U	(31) 2017250107	SAME
201610487305	(32) 26.12.2017	(73) Fujifilm Business Innovation Corp.
201620650844 U	(33) Japan	(72) TAKAHASHI, Mutsuya
201610480992	(51) G03G 9/087	ONO, Seiji
(32) 23.06.2016	C08G 63/00	KONDO, Yoshinao
23.06.2016	C08K 5/29	(31) 2021025527
	C08L 67/00	(32) 19.02.2021

(33) Japan	(51) G03G 21/18	G04B 37/05
(51) G03G 15/08	G03G 21/16	G04B 37/08
G03G 15/00	(11) EP3447587	(11) EP3561612
B41J 2/175	(21) EP18200591.8	(21) EP18168748.4
(11) EP3695279	(47) 26.07.2023	(47) 26.07.2023
(21) EP18721655.1	(22) 15.06.2017	(22) 23.04.2018
(47) 26.07.2023	(54) DEVELOPMENT CARTRIDGE	(54) METHOD FOR ASSEMBLING A
(87) US2018027599	(73) Hewlett-Packard Development Company,	TIMEPIECE
17.10.2019	L.P.	(73) ROLEX SA
(22) 13.04.2018	(72) LEE, Seung-gweon	(72) VILLARET, Pierre
(54) COLORANT SENSORS	YANG, Seung-beom	ROTARU, Mihaela
(73) Hewlett-Packard Development Company,	LEE, Sang-hoon	(51) G04F 7/08
L.P.	(31) 20160151308	(11) EP3825786
(72) FITZGERALD, Sean Daniel	(32) 14.11.2016	(21) EP19210650.8
LUKE, Jeff	(33) Korea (Republic)	(47) 26.07.2023
LAVIGNE, Mathew	(51) G04B 13/02	(22) 21.11.2019
(51) G03G 15/08	G04B 15/14	(54) DISPLAY MECHANISM FOR A
G03G 21/18	G04B 17/06	TIMEPIECE
(11) EP3982201	G04B 19/10	(73) Patek Philippe SA Genève
(21) EP21199766.3	G04D 3/00	(72) Krüttli, Anthony
(47) 26.07.2023	G04B 19/12	(51) G04G 9/00
(22) 15.09.2020	(11) EP4022398	G04G 17/02
(54) TONER CARTRIDGE AND IMAGE	(21) EP20735065.3	G04G 17/04
FORMING APPARATUS	(47) 26.07.2023	G04G 19/10
(73) CANON KABUSHIKI KAISHA	(87) EP2020065984	G04G 21/02
(72) ATSU, Yusuke	04.03.2021	G09F 9/30
HAMADA, Takatoshi	(22) 09.06.2020	(11) EP3794414
ASANUMA, Naoya	(54) METHOD FOR GLUING CLOCK	(21) EP20755771.1
KAWAMURA, Tomofumi	COMPONENTS	(47) 26.07.2023
TANABE, Masato	(73) ETA SA Manufacture Horlogère Suisse	(87) CN2020074300
(31) 2020093285	(72) HUOT-MARCHAND, Sylvain	20.08.2020
2019168214	VERARDO, M. Marco	(22) 04.02.2020
(32) 28.05.2020	(31) 19194407	(54) SMART WATCH WITH FLEXIBLE
17.09.2019	(32) 29.08.2019	DISPLAY PANEL
(33) Japan	(33) European Patent Office (EPO)	(73) Zhejiang Geely Holding Group Co., Ltd.
Japan	(51) G04B 17/28	(72) Li, Shufu
(51) G03G 15/23	G04B 33/06	(31) 201910111783
G03G 15/00	(11) EP4016195	(32) 12.02.2019
(11) EP3221752	(21) EP21206642.7	(33) China
(21) EP15795188.0	(47) 26.07.2023	(51) G04G 17/02
(47) 26.07.2023	(22) 05.11.2021	G04B 37/02
(87) EP2015076906	(54) TOURBILLON FOR A CLOCKWORK	G04B 37/22
26.05.2016	(73) Manufacture d'Horlogerie Audemars	G04G 17/08
(22) 18.11.2015	Piguet SA	G04B 47/00
(54) PRINTING SYSTEM FOR CUT SHEETS	(72) PAPI, Giulio	(11) EP4073597
COMPRISING A PAPER PATH WITH A	GUILLAUME, Xavier	(21) EP20817441.7
LOOP	CALAME, Laurent	(47) 26.07.2023
(73) Canon Production Printing Netherlands	(31) 16112020	(87) EP2020085360
B.V.	(32) 17.12.2020	17.06.2021
(72) KANDELAARS, Jacobus J.	(33) Switzerland	(22) 09.12.2020
VESTJENS, Patrick G.H.	(51) G04B 23/02	(54) WATCH COMPRISING AN ELEMENT
(31) 14194335	G04B 9/02	FOR OPTICAL FILTERING AND A
(32) 21.11.2014	(11) EP3811158	DEWAR DEVICE
(33) European Patent Office (EPO)	(21) EP19744846.7	(73) Omega SA
(51) G03G 21/16	(47) 26.07.2023	(72) FRANZI, Edoardo
(11) EP3457218	(87) IB2019054754	DUNBAR, Andrea
(21) EP18187071.8	26.12.2019	STADELMANN, Patrick
(47) 26.07.2023	(22) 07.06.2019	(31) 19214444
(22) 02.08.2018	(54) ALARM CLOCK MECHANISM AND	(32) 09.12.2019
(54) DEVELOPING APPARATUS	TIMEPIECE COMPRISING SUCH A	(33) European Patent Office (EPO)
(73) CANON KABUSHIKI KAISHA	MECHANISM	(51) G05B 13/04
(72) MATSUMOTO, Kazuki	(73) Patek Philippe SA Genève	G05B 19/05
SUESHIGE, Kazutaka	(72) GIACOBINO, Julien	(11) EP3726301
ABE, Tsukasa	HUMAIR, Pascal	(21) EP18888916.6
(31) 2017166002	(31) 18178908	(47) 26.07.2023
(32) 30.08.2017	(32) 20.06.2018	(87) JP2018046199
(33) Japan	(33) European Patent Office (EPO)	20.06.2019
(51) G04D 7/00	(22) 14.12.2018	

(54) CONTROL DEVICE	(54) INDUSTRIAL CONTROL SYSTEM	(54) A SAFETY UNIT AND AN IMPROVED
(73) Omron Corporation	HAVING MULTI-LAYERED CONTROL	SAFETY SYSTEM COMPRISING A
(72) EGI, Mamoru	LOGIC EXECUTION	NUMBER OF SAFETY UNITS
(31) 2017240771	(73) Honeywell International Inc.	(73) SSPN SAFETY SYSTEM PRODUCTS
(32) 15.12.2017	(72) PANE, Joseph J	NORTH AB
(33) Japan	URSO, Jason Thomas	(72) LINGER, Mats
(51) G05B 17/02	MCLAUGHLIN, Paul Francis	(31) 1550919
G05B 13/04	SUNDARESH, Nagaraja	(32) 30.06.2015
G05B 11/36	STEINMAN, Jethro Francis	(33) Sweden
B25J 9/16	FELIX, Joseph Pradeep	(51) G05B 19/05
(11) EP3726303	ANUGU, Ram Mohan	(11) EP3657278
(21) EP18887317.8	(31) 202117352779	(21) EP19208521.5
(47) 26.07.2023	202063047049 P	(47) 26.07.2023
(87) JP2018045694	(32) 21.06.2021	(22) 12.11.2019
20.06.2019	01.07.2020	(54) METHOD FOR PROXY EXECUTION
(22) 12.12.2018	(33) United States of America	AND COMPUTATION WITH AN
(54) CONTROL DEVICE	United States of America	INDUSTRIAL CONTROLLER
(73) Omron Corporation	(51) G05B 19/042	(73) Rockwell Automation Technologies, Inc.
(72) EGI, Mamoru	G05B 19/418	(72) VISTE, Michael J.
(31) 2017240764	(11) EP3671379	JOHNSTON, David A.
(32) 15.12.2017	(21) EP19216824.3	SCHNELL, Ryan L.
(33) Japan	(47) 26.07.2023	(31) 201916575606
(51) G05B 19/042	(22) 17.12.2019	201862760568 P
(11) EP3885853	(54) AUTHENTICATION SYSTEM AND	(32) 19.09.2019
(21) EP21164736.7	AUTHENTICATION METHOD FOR	13.11.2018
(47) 26.07.2023	PERFORMING A WORK PROCESS ON	(33) United States of America
(22) 24.03.2021	AN OBJECT	United States of America
(54) I/O MESH ARCHITECTURE FOR A	(73) Francotyp-Postalia GmbH	(51) G05B 19/05
SAFETY INSTRUMENTED SYSTEM	(72) GÜNTHER, Stephan	G05B 19/042
(73) Honeywell International Inc.	HÜBLER, Uwe	H04L 67/125
(72) VAN WENSEN, Aad	HEINRICH, Clemens	H04L 67/02
FELIX, Joseph	ROSENAU, Dirk	G05B 19/409
HAMERS, Adrianus Cornelis Maria	(31) 102018132993	(11) EP3620870
(31) 202016827934	(32) 19.12.2018	(21) EP19194536.9
(32) 24.03.2020	(33) Germany	(47) 26.07.2023
(33) United States of America	(51) G05B 19/042	(22) 30.08.2019
(51) G05B 19/042	H01H 85/32	(54) DEVICE AND METHOD FOR
(11) EP3295264	(11) EP3798763	EMBEDDING A WEB FRAME IN
(21) EP15759681.8	(21) EP20189730.3	PROCESS GRAPHICS
(47) 26.07.2023	(47) 26.07.2023	(73) Fisher-Rosemount Systems, Inc.
(87) EP2015069175	(22) 06.08.2020	(72) HOUJI, Snehalata
23.02.2017	(54) ELECTRICAL STATUS INDICATION	HAVEKOST, Robert
(22) 20.08.2015	SYSTEM AND CORRESPONDING	SANCHEZ, Adrian
(54) METHOD FOR GENERATING A	METHOD	STRINDEN, Daniel
SWITCHING SEQUENCE IN AN	(73) Rockwell Automation Technologies, Inc.	WESTBROCK, Jon
INDUSTRIAL SYSTEM, AND DEVICE	(72) Hecht, Karen R.	TAJMAJER, Michael
(73) Siemens Aktiengesellschaft	Murgatroyd, Ian	FADUL, Camilo
(72) MÜLLER, Andreas	Di Stefano, Claudio	(31) 201816121091
PESCHKE, Jörn	Bellows, Troy M.	(32) 04.09.2018
(51) G05B 19/042	Pethick, Stephen	(33) United States of America
(11) EP3702849	Main-Reade, David	(51) G05B 19/4093
(21) EP19159406.8	Hemmingson, Mayo D.	B23Q 17/24
(47) 26.07.2023	Branicki, Maciej	G01B 21/00
(22) 26.02.2019	Scudder, Austen K.	B23Q 9/00
(54) OPTIMIZED PROCESS CONTROL	Lasko, Scott B.	(11) EP3704553
(73) Sartorius Stedim Data Analytics AB	(31) 201916580987	(21) EP18793665.3
(72) HÖHSE, Marek	(32) 24.09.2019	(47) 26.07.2023
LANG, Chloe	(33) United States of America	(87) EP2018079491
GRIMM, Christian	(51) G05B 19/042	09.05.2019
HULTMAN, Johan	H05K 5/00	(22) 26.10.2018
(51) G05B 19/042	(11) EP3317733	(54) METHOD FOR MACHINING A
G05B 19/05	(21) EP16751366.2	WORKPIECE
G05B 19/418	(47) 26.07.2023	(73) Festool GmbH
(11) EP3933520	(87) SE2016050598	(72) KÜBELER, Matthias
(21) EP21182174.9	05.01.2017	RUSCH, Marc
(47) 26.07.2023	(22) 21.06.2016	(31) 102017126487
(22) 28.06.2021		102017125665
		(32) 10.11.2017

02.11.2017	LINGE, Simon	(51) G05D 1/00
(33) Germany	DOPPELHAMER, Jens	(11) EP3876064
Germany	MACZEY, Sylvia	(21) EP21161049.8
(51) G05B 19/4093	K R, Chandrika	(47) 26.07.2023
G05B 19/4097	(51) G05B 23/02	(22) 05.03.2021
(11) EP3336629	(11) EP3751373	(54) SYSTEM AND CONTROL METHOD
(21) EP17206309.1	(21) EP20178139.0	FOR A REMOTELY CONTROLLABLE
(47) 26.07.2023	(47) 26.07.2023	MATERIAL HANDLING VEHICLE
(22) 11.12.2017	(22) 03.06.2020	(73) The Raymond Corporation
(54) MACHINING SYSTEM AND PROGRAM	(54) PREDICTIVE TROUBLESHOOTING	(72) Garrison, III, Theodore C.
(73) Roland DG Corporation	FOR ABNORMAL PLANT OPERATIONS	(31) 202062986299 P
(72) SUYAMA, Akihiro	(73) Honeywell International Inc.	(32) 06.03.2020
(31) 2016241063	(72) NIXON, David Ross	(33) United States of America
(32) 13.12.2016	NATH, Rahul C	(51) G05D 1/02
(33) Japan	KEMPF, Alicia	(11) EP3392731
(51) G05B 19/418	(31) 201916442408	(21) EP18166796.5
(11) EP3460609	(32) 14.06.2019	(47) 26.07.2023
(21) EP18195906.5	(33) United States of America	(22) 11.04.2018
(47) 26.07.2023	(51) G05B 23/02	(54) METHOD FOR OPERATING A SYSTEM
(22) 21.09.2018	(11) EP4010770	COMPOSED OF SELF-PROPELLED
(54) INFORMATION COLLECTING DEVICE	(21) EP20792924.1	SOIL WORKING VEHICLES
AND METHOD FOR COLLECTING	(47) 26.07.2023	(73) Andreas Stihl AG & Co. KG
INFORMATION	(87) EP2020074734	(72) Matt, Sebastian
(73) Yokogawa Electric Corporation	08.04.2021	Zöttl, Samuel
(72) ZHANG, Jisong	(22) 04.09.2020	Hornbacher, Christian
IRIGUCHI, Hiroshi	(54) DIAGNOSIS OF TECHNICAL SYSTEMS	(31) 102017003735
TAKUBO, Masatoshi	USING PRINCIPAL COMPONENTS	(32) 19.04.2017
NAGAI, Eiji	ANALYSIS (PCA)	(33) Germany
(31) 2017182093	(73) Siemens Mobility GmbH	(51) G05D 1/02
(32) 22.09.2017	(72) AUFDERHEIDE, Helge	(11) EP3844585
(33) Japan	(31) 102019215068	(21) EP18932156.5
(51) G05B 19/418	(32) 30.09.2019	(47) 26.07.2023
(11) EP4060440	(33) Germany	(87) CN2018102780
(21) EP22150356.8	(51) G05B 23/02	05.03.2020
(47) 26.07.2023	B65G 35/08	(22) 28.08.2018
(22) 05.01.2022	F27B 21/06	(54) AN AUTONOMOUS LAWN MOWER
(54) SYSTEM WITH AT LEAST ONE	G05B 19/418	AND A SYSTEM FOR NAVIGATING
INSTALLATION SYSTEM WITH AT	F27B 9/24	THEREOF
LEAST SEVERAL PARTS	F27D 3/12	(73) Techtronic Cordless GP
(73) SICK AG	(11) EP4004665	(72) HASSAN, Syed Kashif
(72) Ams, Mathias	(21) EP20742279.1	VINES, Brian
(31) 102021106584	(47) 26.07.2023	ZHANG, Xing
(32) 18.03.2021	(87) EP2020070729	MONTGOMERY, Benjamin Edgar
(33) Germany	04.02.2021	(51) G05D 1/02
(51) G05B 19/418	(22) 22.07.2020	B60W 30/00
G06Q 10/06	(54) TRAVELLING GRATE CONDITION	G06N 3/00
(11) EP4043973	MONITORING	(11) EP3800521
(21) EP21156885.2	(73) Paul Wurth S.A.	(21) EP19465568.4
(47) 26.07.2023	(72) NAVEZ, David	(47) 26.07.2023
(22) 12.02.2021	STRÜBER, Georg	(22) 01.10.2019
(54) GENERATING EXECUTION	VAN DORPE, Pierre	(54) DEEP LEARNING BASED MOTION
PROTOCOLS FOR PERFORMING	(31) 101334	CONTROL OF A VEHICLE
STANDARD OPERATING	(32) 30.07.2019	(73) Elektrobot Automotive GmbH
PROCEDURES IN INDUSTRIAL	(33) Luxembourg	(72) Grigorescu, Sorin Mihai
PLANTS	(51) G05D 1/00	(51) G05D 1/02
(73) ABB Schweiz AG	(11) EP3789840	G01S 17/87
(72) ZIOBRO, Dawid	(21) EP20192843.9	G01S 17/89
KLOEPPER, Benjamin	(47) 26.07.2023	G01S 17/931
ABUKWAIK, Hadil	(22) 26.08.2020	(11) EP4004668
SCHMIDT, Benedikt	(54) VEHICLE REMOTE INSTRUCTION	(21) EP19756114.5
RODRIGUEZ, Pablo	SYSTEM	(47) 26.07.2023
BERNING, Matthias	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	(87) EP2019070691
SHARMA, Divyasheel	(72) OTAKI, Sho	04.02.2021
GAERTLER, Marco	IWAMOTO, Takayuki	(22) 31.07.2019
KOTRIWALA, Arzam	(31) 2019163066	(54) A METHOD FOR FORMING A
BORRISON, Reuben	(32) 06.09.2019	TRAVELLING PATH FOR A VEHICLE
DIX, Marcel	(33) Japan	(73) VOLVO TRUCK CORPORATION
GOPALAKRISHNAN, Gayathri		(72) FORCOLIN, Fabio

ALDEBES, Kinan	(54) FROTH COALESCING	(87) CN2019124529
(51) G05D 1/02	(73) Hewlett-Packard Development Company, L.P.	02.07.2020
H02J 7/00		(22) 11.12.2019
(11) EP4057099	(72) WICKWIRE, Robert S.	(54) TERMINAL DEVICE
(21) EP20881014.3	STUDER, Anthony D.	(73) VIVO MOBILE COMMUNICATION CO., LTD.
(47) 26.07.2023	(51) G05G 9/047	(72) ZHU, Lei
(87) CN2020110690	E03C 1/04	WU, Shuang
06.05.2021	G05G 1/06	(31) 201811639144
(22) 24.08.2020	(11) EP3835915	(32) 29.12.2018
(54) UNIVERSAL RECHARGE CONTROL METHOD FOR ROBOT, CHIP AND ROBOT	(21) EP20210545.8	(33) China
(73) Amicro Semiconductor Co., Ltd.	(47) 26.07.2023	(51) G06F 1/16
(72) YANG, Wu	(22) 30.11.2020	G06F 3/04847
LI, Ming	(54) SANITARY TAP WITH PULL-OUT HOSE	G06F 3/04883
LI, Yongyong	(73) Hansgrohe SE	H04M 1/72418
(31) 201911050338	(72) Riestler, Patrik	H04W 4/80
(32) 31.10.2019	Stulz, Thomas	H04M 1/72454
(33) China	(31) 102019219489	H04M 1/72457
(51) G05D 7/06	(32) 12.12.2019	H04M 1/72469
F16K 31/00	(33) Germany	H04W 4/02
(11) EP3844590	(51) G06F 1/16	H04W 12/06
(21) EP19766158.0	(11) EP3407157	H04W 12/63
(47) 26.07.2023	(21) EP18172853.6	H04W 12/64
(87) US2019048589	(47) 26.07.2023	(11) EP3977763
05.03.2020	(22) 17.05.2018	(21) EP20729694.8
(22) 28.08.2019	(54) COMPUTING SYSTEM IMPLEMENTING AN ALGORITHM FOR FUSING DATA FROM INERTIAL SENSORS, AND METHOD	(47) 26.07.2023
(54) MASS FLOW CONTROLLER, CONTROLLER ALGORITHM, AND SET POINT FILTER	(73) STMicroelectronics S.r.l.	(87) EP2020064826
(73) Illinois Tool Works, Inc.	(72) FERRAINA, Michele	03.12.2020
(72) LULL, John	RIVOLTA, Stefano Paolo	(22) 28.05.2020
WHITELEY, Jeffrey	RIZZARDINI, Federico	(54) METHODS, COMPUTER PROGRAM, APPARATUS AND SYSTEMS FOR OPERATING A MOBILE RADIO
BANARES, Berwin	ZANCANATO, Alberto	(73) Safenow GmbH
(31) 201816116786	(31) 201700057066	(72) RUMLAND, Tilman
(32) 29.08.2018	(32) 25.05.2017	(31) 102020106434
(33) United States of America	(33) Italy	102019114453
(51) G05D 7/06	(51) G06F 1/16	(32) 10.03.2020
G01M 3/18	G06F 3/041	29.05.2019
G01M 3/22	G06F 3/044	(33) Germany
G01M 3/40	H04M 1/02	Germany
G01F 1/32	B32B 7/02	(51) G06F 1/16
G01F 1/66	B32B 7/12	G06F 3/04883
G08B 21/20	B32B 27/08	H04M 1/724
H02K 7/18	(11) EP3751390	(11) EP3770722
(11) EP3769176	(21) EP20179612.5	(21) EP20152176.2
(21) EP19789301.9	(47) 26.07.2023	(47) 26.07.2023
(47) 26.07.2023	(22) 12.06.2020	(22) 16.01.2020
(87) US2019028145	(54) DISPLAY DEVICE, AND MANUFACTURING METHOD FOR DISPLAY DEVICE	(54) SCREEN DISPLAY METHOD AND DEVICE, MOBILE TERMINAL AND STORAGE MEDIUM
24.10.2019	(73) Samsung Display Co., Ltd.	(73) Beijing Xiaomi Mobile Software Co., Ltd.
(22) 18.04.2019	(72) Kwon, OJun	(72) LI, Jiayi
(54) WATER LEAK CONTROL SYSTEM	Park, Junsu	LI, Jiayan
(73) Kairos Water, Inc	Song, Kicheol	JIN, Fan
(72) TAYLOR, Seth Lawrence	Ahn, Nari	(31) 201910672203
FUNG-A-WING, Dean Ruiz	Jung, Jung-hun	(32) 24.07.2019
(31) 201862659741 P	Park, Youngsang	(33) China
(32) 19.04.2018	Ahn, Hung Kun	(51) G06F 1/16
(33) United States of America	Kim, Youngmoon	G09F 9/30
(51) G05D 9/12	(31) 20190071056	(11) EP3876078
B01D 17/12	(32) 14.06.2019	(21) EP21159533.5
B41J 2/185	(33) Korea (Republic)	(47) 26.07.2023
B41J 2/19	(51) G06F 1/16	(22) 26.02.2021
(11) EP3707575	G06F 3/042	(54) FLEXIBLE DISPLAY DEVICE
(21) EP17931090.9	H04M 1/02	(73) Samsung Display Co., Ltd.
(47) 26.07.2023	(11) EP3905647	(72) Kim, Hyungsik
(87) US2017060355	(21) EP19906258.9	Khachatryan, Hayk
16.05.2019	(47) 26.07.2023	Choi, Dongwon
(22) 07.11.2017		

<p>Kim, Jeongho Choi, Jin Hwan (31) 20200026192 (32) 02.03.2020 (33) Korea (Republic)</p> <hr/> <p>(51) G06F 1/16 H04M 1/02 (11) EP3564777 (21) EP19169151.8 (47) 26.07.2023 (22) 15.04.2019 (54) FOLDABLE SCREEN ASSEMBLY AND ELECTRONIC DEVICE (73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. (72) JIA, Yuhu (31) 201810455352 201810455330 201810408514 (32) 14.05.2018 14.05.2018 02.05.2018 (33) China China China</p> <hr/> <p>(51) G06F 1/16 H04M 1/02 F16C 11/00 (11) EP3890283 (21) EP19890728.9 (47) 26.07.2023 (87) CN2019119909 04.06.2020 (22) 21.11.2019 (54) ROTARY CONNECTION ASSEMBLY AND FOLDING MOBILE TERMINAL (73) VIVO MOBILE COMMUNICATION CO., LTD. (72) DENG, Yongjin LUO, Zhengjun MA, Jingqiu XU, Jingwei (31) 201811459285 (32) 30.11.2018 (33) China</p> <hr/> <p>(51) G06F 1/16 H04M 1/04 H05K 5/02 (11) EP3994546 (21) EP20733877.3 (47) 26.07.2023 (87) US2020031384 07.01.2021 (22) 04.05.2020 (54) REMOVABLE FEET FOR ELECTRONIC DEVICES (73) Microsoft Technology Licensing, LLC (72) HALLIN, Brooks BOWERS, Scott Douglas (31) 201916459125 (32) 01.07.2019 (33) United States of America</p> <hr/> <p>(51) G06F 1/16 H05K 7/14 (11) EP3118715 (21) EP16182430.5 (47) 26.07.2023 (22) 27.02.2014</p>	<p>(54) ELECTRICAL INTERCONNECTION OF RACK-MOUNTED FIELD REPLACEABLE UNITS (73) ORACLE INTERNATIONAL CORPORATION (72) BROVALD, Russell STEWART, E., Thomas GELFOND, Yefim MEERT, L., Carl ROGERS, Richard GILES, E., Thomas (31) 201313781151 201313781085 201313781020 201313780916 201313780818 (32) 28.02.2013 28.02.2013 28.02.2013 28.02.2013 (33) United States of America United States of America United States of America United States of America United States of America</p> <hr/> <p>(51) G06F 1/16 H05K 7/14 (11) EP3118716 (21) EP16182431.3 (47) 26.07.2023 (22) 27.02.2014 (54) OUT OF BAND MANAGEMENT OF RACK-MOUNTED FIELD REPLACEABLE UNITS (73) ORACLE INTERNATIONAL CORPORATION (72) BROVALD, Russell ROGERS, Richard MEERT, L., Carl GELFOND, Yefim GILES, E. Thomas STEWART, E., Thomas (31) 201313781151 201313781085 201313781020 201313780916 201313780818 (32) 28.02.2013 28.02.2013 28.02.2013 28.02.2013 28.02.2013 (33) United States of America United States of America United States of America United States of America United States of America</p> <hr/> <p>(51) G06F 1/20 H05K 7/20 (11) EP3577535 (21) EP18704679.2 (47) 26.07.2023 (87) US2018015113 09.08.2018 (22) 25.01.2018 (54) SELF-ADAPTIVE VENTS (73) Microsoft Technology Licensing, LLC</p>	<p>(72) HO, Chau Van WAHL, James David DAN, Bo (31) 201715422180 (32) 01.02.2017 (33) United States of America</p> <hr/> <p>(51) G06F 1/20 H05K 7/20 (11) EP3381248 (21) EP16891803.5 (47) 26.07.2023 (87) US2016019107 31.08.2017 (22) 23.02.2016 (54) DEFLECTION OF HEATED AIR FROM A POSTERIOR ELECTRICAL COMPONENT (73) Hewlett Packard Enterprise Development LP (72) FRANZ, John JOSHI, Rahul V. VIJIL, John HUGHES, Jonathon MOORE, David A.</p> <hr/> <p>(51) G06F 3/01 (11) EP3535645 (21) EP17801554.1 (47) 26.07.2023 (87) US2017059991 11.05.2018 (22) 03.11.2017 (54) AUGMENTED REALITY THERAPEUTIC MOVEMENT DISPLAY AND GESTURE ANALYZER (73) Zimmer US, Inc. (72) DITTMER, Travis WELLS, Richard PRICE, Timothy R. LEIGHTON, Jason SPOONER, Ted VAN ANDEL, Dave KOTWICK, John (31) 201662440588 P 201662421001 P 201662416869 P (32) 30.12.2016 11.11.2016 03.11.2016 (33) United States of America United States of America United States of America</p> <hr/> <p>(51) G06F 3/01 (11) EP3877829 (21) EP19809240.5 (47) 26.07.2023 (87) US2019058990 14.05.2020 (22) 31.10.2019 (54) HAPTIC ACTUATOR USING FORCE MULTIPLYING SPRING AND SMART ALLOY WIRE (73) Microsoft Technology Licensing, LLC (72) LIN, Nelson BOWERS, Scott Douglas (31) 201816184666 (32) 08.11.2018 (33) United States of America</p> <hr/> <p>(51) G06F 3/01</p>
---	---	---

G01C 21/26	(87) US2017066499	G16Y 40/30
G08G 1/005	28.06.2018	H04N 5/445
G09B 29/10	(22) 14.12.2017	G08C 17/02
G01C 21/36	(54) SYSTEM AND METHOD FOR	G06F 21/30
(11) EP3502841	PLACEMENT OF AUGMENTED	G08C 23/04
(21) EP17841281.3	REALITY INFORMATION FOR USERS	H04N 21/422
(47) 26.07.2023	BASED ON THEIR ACTIVITY	H04N 21/45
(87) JP2017022476	(73) InterDigital VC Holdings, Inc.	H04N 21/442
22.02.2018	(72) SINGH, Mona	(11) EP3862846
(22) 19.06.2017	(31) 201662437455 P	(21) EP20155516.6
(54) INFORMATION PROCESSING DEVICE,	(32) 21.12.2016	(47) 26.07.2023
INFORMATION PROCESSING SYSTEM	(33) United States of America	(22) 05.02.2020
AND INFORMATION PROCESSING	(51) G06F 3/01	(54) METHOD AND SYSTEM FOR
METHOD	G02B 27/01	MANAGING REMOTE CONTROLLER
(73) Sony Group Corporation	G06T 19/00	OF A HOME ELECTRONIC DEVICE
Sony Mobile Communications Inc.	G06T 17/05	(73) Vestel Elektronik Sanayi ve Ticaret A.S.
(72) NARUSE, Tetsuya	G06F 3/0481	(72) CANDAN, Murat
TAKENAKA, Mikio	G06F 3/04815	AKDEMIR, Onur
YOKOYAMA, Ryo	(11) EP3542248	(51) G06F 3/01
OHNO, Kazutoshi	(21) EP17811766.9	G06T 19/00
AMBE, Mioko	(47) 26.07.2023	G06F 9/54
ONO, Akira	(87) US2017061816	G06F 9/451
MURAKAMI, Ryosuke	24.05.2018	G06F 3/0481
MURAMATSU, Seiji	(22) 15.11.2017	G06F 3/04815
TAKAHASHI, Tetsuya	(54) LOCATION GLOBE IN VIRTUAL	(11) EP3671411
HAYASHI, Hideaki	REALITY	(21) EP19217987.7
TAKEUCHI, Ryosuke	(73) Google LLC	(47) 26.07.2023
(31) 2016160681	(72) PALATNIK, Aleksandr	(22) 19.12.2019
(32) 18.08.2016	GLAZIER, Adam	(54) LOCATION-ENABLED AUGMENTED
(33) Japan	KAESER, Dominik Philemon	REALITY (AR) SYSTEM AND METHOD
(51) G06F 3/01	PODWAL, Michael	FOR INTEROPERABILITY OF AR
G01S 13/88	WANG, Chun-Po	APPLICATIONS
G01S 7/41	TAO, Ran	(73) HERE Global B.V.
G06N 3/08	JAGNOW, Robert Carl	(72) FOWE, James
G01S 13/02	ABDEL-GAWAD, Tarik	(31) 201816228162
A61B 5/1171	ASHKENAZI, Nadav	(32) 20.12.2018
A61B 5/05	LE, Andre	(33) United States of America
A61B 5/00	SEEGMILLER, Matthew	(51) G06F 3/01
A61B 5/0507	CHU, Han-Wei	G06T 19/00
G06V 40/20	KIM, Joanna	G06V 20/20
G06F 18/2413	(31) 201662422563 P	G06V 40/16
(11) EP3577544	(32) 15.11.2016	(11) EP3841454
(21) EP18760487.1	(33) United States of America	(21) EP19773216.7
(47) 26.07.2023	(51) G06F 3/01	(47) 26.07.2023
(87) KR2018001786	G06F 1/32	(87) US2019047824
07.09.2018	A61B 5/11	27.02.2020
(22) 12.02.2018	A61B 5/00	(22) 23.08.2019
(54) METHOD FOR RECOGNIZING A	A61B 5/0205	(54) MULTI-DEVICE MAPPING AND
GESTURE AND AN ELECTRONIC	A61B 5/024	COLLABORATION IN AUGMENTED-
DEVICE THEREOF	G06F 1/3215	REALITY ENVIRONMENTS
(73) Samsung Electronics Co., Ltd.	G16H 40/67	(73) Meta Platforms, Inc.
(72) KLETSOV, Andrey Vladimirovich	G06F 1/3206	(72) MURRELL, Tullie
POLONSKY, Stanislav Vladimirovich	(11) EP3577537	KISH, Steven
CHERNOKALOV, Alexander	(21) EP18748198.1	GERME, Gregory Daniel Louis
Gennadyevich	(47) 26.07.2023	STAHL, Justin David
(31) 20180009832	(87) SE2018050062	SEAD, Narin
2017106851	09.08.2018	(31) 201816112475
(32) 26.01.2018	(22) 29.01.2018	(32) 24.08.2018
02.03.2017	(54) DEVICE AND METHOD FOR MOTION	(33) United States of America
(33) Korea (Republic)	DETECTION	(51) G06F 3/023
Russian Federation	(73) Outsmart AB	(11) EP3914999
(51) G06F 3/01	(72) LEANDERSSON, Carl Fredrik	(21) EP20709960.7
G02B 27/00	(31) 1750078	(47) 26.07.2023
G02B 27/01	(32) 31.01.2017	(87) US2020017400
G06F 3/04815	(33) Sweden	03.09.2020
(11) EP3559786	(51) G06F 3/01	(22) 10.02.2020
(21) EP17826644.1	G06F 3/048	(54) MULTILAYOUT KEYBOARD
(47) 26.07.2023	G16Y 20/40	(73) Microsoft Technology Licensing, LLC

(72) AUTIO, Henri Antero AROLA, Joni Kristian (31) 201916285139 (32) 25.02.2019 (33) United States of America	(73) Cambridge Touch Technologies Ltd. (72) ASTLEY, Michael NATHAN, Arokia CHENG, Xiang BASTANI, Babak (33) Denmark Denmark Denmark Denmark (31) 201809320 PCT/GB2019/051400 (32) 06.06.2018 21.05.2019 (33) United Kingdom World Intellectual Property Office (WIPO)	27.09.2019 26.09.2019 26.09.2019 09.09.2019 Denmark Denmark Denmark United States of America United States of America United States of America United States of America United States of America
(51) G06F 3/03 H04N 7/15 H04N 7/14 H04N 5/222 H04N 23/50 (11) EP3602253 (21) EP18722648.5 (47) 26.07.2023 (87) FR2018050745 04.10.2018 (22) 27.03.2018 (54) TRANSPARENCY SYSTEM FOR COMMONPLACE CAMERA (73) ORANGE (72) SALOU, Catherine CHODOROWSKI, Jacques (31) 1752712 (32) 30.03.2017 (33) France	(31) 201809320 PCT/GB2019/051400 (32) 06.06.2018 21.05.2019 (33) United Kingdom World Intellectual Property Office (WIPO) (51) G06F 3/041 H01Q 1/22 G01S 13/87 G01S 13/02 (11) EP3142185 (21) EP14894487.9 (47) 26.07.2023 (87) CN2014079647 17.12.2015 (22) 11.06.2014 (54) SENSITIVE SCREEN, CONTROL CIRCUIT THEREOF, CONTROL METHOD THEREFOR, AND SENSITIVE SCREEN APPARATUS (73) Huawei Technologies Co. Ltd. (72) CHEN, Jingtao CAI, Hua CAO, Chang	(51) G06F 3/0481 G06F 3/041 G06F 3/0488 G09G 5/00 G09G 5/36 G09G 5/38 G09G 5/14 G09G 5/373 G09G 5/377 G09G 5/397 G06F 3/147 (11) EP3876084 (21) EP19864391.8 (47) 26.07.2023 (87) JP2019023926 02.04.2020 (22) 17.06.2019 (54) OPERATION INPUT CONTROL DEVICE (73) Schneider Electric Japan Holdings Ltd. (72) KEIYA, Osamu (31) 2018180833 (32) 26.09.2018 (33) Japan
(51) G06F 3/0346 G04G 21/00 G04G 17/04 G01P 15/00 G04G 19/12 G04G 21/08 G04C 3/00 G09G 5/00 (11) EP3249498 (21) EP15881601.7 (47) 26.07.2023 (87) CN2015073131 18.08.2016 (22) 15.02.2015 (54) DISPLAY SCREEN CONTROLLING METHOD AND APPARATUS (73) Huawei Technologies Co. Ltd. (72) ZHANG, Zhenqi LIU, Wei	(51) G06F 3/0481 G06F 1/16 G06F 1/3234 G06F 3/0488 (11) EP3896560 (21) EP21169911.1 (47) 26.07.2023 (22) 11.08.2020 (54) TECHNIQUES FOR MANAGING DISPLAY USAGE (73) Apple Inc. (72) LEMAY, Stephen O. DYE, Alan C. NIE, Yiqiang SUNDSTROM, Matthew J. CHAO, Edward GUZMAN, Aurelio WEISS, Jacob Z. CHEN, Kevin Will EDWARDS, Dylan Ross AGNOLI, Giovanni M. WILSON, Christopher	(11) EP3249498 (21) EP15881601.7 (47) 26.07.2023 (87) JP2019023926 02.04.2020 (22) 17.06.2019 (54) OPERATION INPUT CONTROL DEVICE (73) Schneider Electric Japan Holdings Ltd. (72) KEIYA, Osamu (31) 2018180833 (32) 26.09.2018 (33) Japan (51) G06F 3/04815 G06F 3/0488 (11) EP2585900 (21) EP11797662.1 (47) 26.07.2023 (87) FI2011050563 29.12.2011 (22) 15.06.2011 (54) APPARATUS AND METHOD FOR PROXIMITY BASED INPUT (73) Nokia Technologies Oy (72) PIHLAJA, Pekka (31) 822496 (32) 24.06.2010 (33) United States of America
(51) G06F 3/0354 G06F 3/044 G06F 3/038 (11) EP3605283 (21) EP18814095.8 (47) 26.07.2023 (87) JP2018014180 13.12.2018 (22) 03.04.2018 (54) POSITION INDICATOR (73) Wacom Co., Ltd. (72) YAMAMOTO Sadao (31) 2017111236 (32) 06.06.2017 (33) Japan	(31) 201916585721 201916585714 201916584445 201916584281 201962897959 P (32) 26.09.2019 26.09.2019 26.09.2019 26.09.2019 27.09.2019	(51) G06F 3/0482 G06F 3/04812 (11) EP3862858 (21) EP20203787.5 (47) 26.07.2023 (22) 29.12.2014 (54) DISPLAY METHOD OF MOBILE DEVICE SELECTION AND TERMINAL DEVICE (73) Ekstrand, Simon Huawei Technologies Co., Ltd. (72) CHENG, Cheng EKSTRAND, Simon (31) 201410064984 (32) 25.02.2014 (33) China
(51) G06F 3/041 G06F 3/044 (11) EP3803550 (21) EP19729346.7 (47) 26.07.2023 (87) GB2019051568 12.12.2019 (22) 06.06.2019 (54) PRESSURE SENSING APPARATUS AND METHOD	(51) G06F 3/0481 G06F 3/041 G06F 3/0488 G09G 5/00 G09G 5/36 G09G 5/38 G09G 5/14 G09G 5/373 G09G 5/377 G09G 5/397 G06F 3/147 (11) EP3876084 (21) EP19864391.8 (47) 26.07.2023 (87) JP2019023926 02.04.2020 (22) 17.06.2019 (54) OPERATION INPUT CONTROL DEVICE (73) Schneider Electric Japan Holdings Ltd. (72) KEIYA, Osamu (31) 2018180833 (32) 26.09.2018 (33) Japan (51) G06F 3/04815 G06F 3/0488 (11) EP2585900 (21) EP11797662.1 (47) 26.07.2023 (87) FI2011050563 29.12.2011 (22) 15.06.2011 (54) APPARATUS AND METHOD FOR PROXIMITY BASED INPUT (73) Nokia Technologies Oy (72) PIHLAJA, Pekka (31) 822496 (32) 24.06.2010 (33) United States of America (51) G06F 3/0482 G06F 3/04812 (11) EP3862858 (21) EP20203787.5 (47) 26.07.2023 (22) 29.12.2014 (54) DISPLAY METHOD OF MOBILE DEVICE SELECTION AND TERMINAL DEVICE (73) Ekstrand, Simon Huawei Technologies Co., Ltd. (72) CHENG, Cheng EKSTRAND, Simon (31) 201410064984 (32) 25.02.2014 (33) China	(51) G06F 3/0483

G06Q 10/10	G06V 30/146	(54) SYSTEMS AND METHODS FOR LOW
G06F 3/0482	G06T 11/20	LATENCY 3-AXIS ACCELEROMETER
G06F 3/04883	(11) EP3879390	CALIBRATION
G06F 3/04855	(21) EP18942154.8	(73) Calamp Corp.
G06Q 10/109	(47) 26.07.2023	(72) HERGESHEIMER, Peter
(11) EP3893097	(87) JP2018045156	SPRAGUE, Todd
(21) EP21164398.6	11.06.2020	DLAGNEKOV, Alexandre
(47) 26.07.2023	(22) 07.12.2018	(31) 201313770917
(22) 20.10.2011	(54) INPUT DISPLAY CONTROL METHOD,	(32) 19.02.2013
(54) SCREEN DISPLAY METHOD AND	AND INPUT DISPLAY SYSTEM	(33) United States of America
APPARATUS OF A MOBILE TERMINAL	(73) Mitsubishi Electric Corporation	(51) G06F 7/02
(73) Samsung Electronics Co., Ltd.	(72) HIRAI, Masato	G06F 7/72
(72) KIM, Tae Yeon	(51) G06F 3/12	A63F 13/20
LEE, Jae Myoung	G06F 8/61	A63F 13/25
(31) 20100102405	G06F 9/445	A63F 13/335
(32) 20.10.2010	(11) EP3699749	G06F 16/903
(33) Korea (Republic)	(21) EP20152337.0	(11) EP3962613
(51) G06F 3/0488	(47) 26.07.2023	(21) EP19926938.2
G06F 3/0481	(22) 17.01.2020	(47) 26.07.2023
G06F 3/041	(54) IMAGE FORMING DEVICE	(87) US2019052807
(11) EP3511813	(73) Oki Electric Industry Co., Ltd.	05.11.2020
(21) EP16916542.0	(72) WATANABE, Tadayuki	(22) 24.09.2019
(47) 26.07.2023	TAKEYA, Hitoshi	(54) IMPROVED DISCOVERABILITY IN
(87) CN2016099868	(31) 2019031247	SEARCH
29.03.2018	(32) 25.02.2019	(73) Roblox Corporation
(22) 23.09.2016	(33) Japan	(72) SONNTAG, Nikolaus
(54) FORCE TOUCH METHOD AND	(51) G06F 3/147	MANOHARAN, Aswath
TERMINAL	G09G 3/36	RATHORE, Shailendra
(73) Huawei Technologies Co., Ltd.	(11) EP3032525	(31) 201916400413
(72) WU, Gang	(21) EP14847445.5	(32) 01.05.2019
XU, Jie	(47) 26.07.2023	(33) United States of America
(51) G06F 3/0488	(87) JP2014073015	(51) G06F 7/552
G06F 3/0484	02.04.2015	(11) EP3869327
G06F 3/041	(22) 02.09.2014	(21) EP18937378.0
G06F 3/042	(54) DISPLAY DEVICE AND ELECTRONIC	(47) 26.07.2023
(11) EP3678013	EQUIPMENT	(87) JP2018038830
(21) EP18860894.7	(73) Sony Group Corporation	23.04.2020
(47) 26.07.2023	(72) HIDAKA, Yukinori	(22) 18.10.2018
(87) KR2018011635	KINOSHITA, Naoto	(54) CALCULATION PROCESSING DEVICE
04.04.2019	OOTSUKA, Ken	AND CONTROL METHOD FOR
(22) 01.10.2018	(31) 2013197791	CALCULATION PROCESSING DEVICE
(54) DEVICE AND METHOD FOR	(32) 25.09.2013	(73) FUJITSU LIMITED
CONTROLLING TOUCH DISPLAY, AND	(33) Japan	(72) WADA, Hiroyuki
TOUCH DISPLAY SYSTEM	(51) G06F 3/16	OSONOI, Takeshi
(73) SK Telecom Co., Ltd.	G06F 40/35	(51) G06F 8/36
(72) JEON, Jinsoo	G06F 40/205	H04L 67/51
LIM, Gukchan	(11) EP3612926	H04L 67/60
SHIN,Seungho	(21) EP18803835.0	(11) EP4104417
BAE, Yong Woo	(47) 26.07.2023	(21) EP20811591.5
SINN, Dongyoub	(87) US2018058030	(47) 26.07.2023
SEEN, Seungmin	09.05.2019	(87) EP2020082923
LEE, Hak-Soon	(22) 29.10.2018	19.08.2021
(31) 20170127048	(54) PARSING ELECTRONIC	(22) 20.11.2020
(32) 29.09.2017	CONVERSIONS FOR	(54) METHOD AND NETWORK ENTITY FOR
(33) Korea (Republic)	PRESENTATION IN AN ALTERNATIVE	SERVICE API PUBLISHING
(51) G06F 3/04883	INTERFACE	(73) Telefonaktiebolaget LM Ericsson (publ)
G06F 3/0481	(73) Google LLC	(72) XU, Wenliang
G06F 3/0484	(72) MAILEY, Stephen	(31) PCT/CN2020/075379
G06F 3/0485	(31) 201715805049	(32) 14.02.2020
G06F 3/0486	(32) 06.11.2017	(33) World Intellectual Property Office (WIPO)
G06F 40/166	(33) United States of America	(51) G06F 8/61
G06T 11/60	(51) G06F 7/00	G06F 8/71
G06F 3/0488	G01P 21/00	(11) EP3961381
G06F 3/16	G01P 15/18	(21) EP20805391.8
G06F 3/04842	(11) EP3543841	(47) 26.07.2023
G06F 40/109	(21) EP19159016.5	(87) CN2020083626
G06V 10/22	(47) 26.07.2023	19.11.2020
G06V 10/44	(22) 14.08.2013	(22) 08.04.2020

(54) METHOD AND APPARATUS FOR NODE SELECTION	(87) CN2017120053 04.07.2019	(47) 26.07.2023
(73) Huawei Technologies Co., Ltd.	(22) 29.12.2017	(87) IB2018054821 03.01.2019
(72) CHEN, Yuanfeng WANG, Yawei	(54) PROGRAM ORCHESTRATION METHOD AND ELECTRONIC DEVICE	(22) 28.06.2018
(31) 201910407397	(73) HUAWEI TECHNOLOGIES CO., LTD.	(54) VARYING FIRMWARE FOR VIRTUALIZED DEVICE
(32) 16.05.2019	(72) YANG, Xiaoyun	(73) ATI Technologies ULC
(33) China	XIONG, Yuanfeng	(72) LIU, Haibo
(51) G06F 8/65	ZHUANG, Zhishan	XU, Zhidong
G06F 9/445	NI, Yuanqiang	MING, Dezhi
G06F 8/61	YANG, Lin	QIAO, Guopei
(11) EP3992782	(51) G06F 9/445	ABDELKHALEK, Ahmed M.
(21) EP21204626.2	G06F 3/041	JIANG, Yinan
(47) 26.07.2023	(11) EP3550430	SUNG, Andy
(22) 26.10.2021	(21) EP17935049.1	(31) 201715639971
(54) CONFIGURATION RETENTION SERVICE FOR WEB APPLICATION SERVERS	(47) 26.07.2023	(32) 30.06.2017
(73) SAP SE	(87) CN2017117529 27.06.2019	(33) United States of America
(72) Jain, Nikita	(22) 20.12.2017	(51) G06F 9/455
Biswas, Devashish	(54) METHOD FOR PROCESSING CONFIGURATION FILE, TOUCH CHIP, APPARATUS, AND MEDIUM	H04L 45/64
(31) 202017081699	(73) Shenzhen Goodix Technology Co., Ltd.	H04L 12/46
(32) 27.10.2020	(72) CHEN, Yanran	(11) EP3281364
(33) United States of America	(51) G06F 9/445	(21) EP16777296.1
(51) G06F 8/656	G06N 5/046	(47) 26.07.2023
G05B 19/042	G06N 7/01	(87) US2016026487 13.10.2016
G05B 19/418	G06N 3/02	(2) 07.04.2016
G06F 9/445	G06N 3/044	(54) DYNAMIC ORCHESTRATION OF OVERLAY TUNNELS
G06F 11/00	G06N 3/045	(73) Avago Technologies International Sales Pte. Limited
(11) EP3521950	(11) EP3734446	(72) MADAPURATH, Ritesh
(21) EP17855495.2	(21) EP18907535.1	HOLLA, Sachin
(47) 26.07.2023	(47) 26.07.2023	GOWDA, Manjunath A. G.
(87) JP2017030048 05.04.2018	(87) CN2018121809 06.09.2019	JOSHI, Sanjeev
(22) 23.08.2017	(22) 18.12.2018	(31) 201615091319 201562144709 P
(54) CONTROL UNIT, DATA REFRESHING METHOD, DATA REFRESHING PROGRAM	(54) PROCESSING METHOD, STORAGE MEDIUM AND ELECTRONIC DEVICE	(32) 05.04.2016
(73) Omron Corporation	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	08.04.2015
(72) KOJIMA, Tatsuya	(72) DUAN, Yaohui	(33) United States of America
OHNUKI, Katsushige	(31) 201810167173	United States of America
YAOITA, Koji	(32) 28.02.2018	(51) G06F 9/48
(31) 2016194882	(33) China	(11) EP3391212
(32) 30.09.2016	(51) G06F 9/451	(21) EP16812800.7
(33) Japan	G06F 8/30	(47) 26.07.2023
(51) G06F 8/656	G06Q 10/0631	(87) GB2016053878 22.06.2017
G06F 8/41	G06Q 10/10	(22) 09.12.2016
(11) EP4055473	G06F 3/16	(54) CONTROLLING OPERATION OF A GPU
(21) EP20824224.8	(11) EP3591521	(73) Imagination Technologies Limited
(47) 26.07.2023	(21) EP19159992.7	(72) DSOUZA, Jackson
(87) EP2020085799 17.06.2021	(47) 26.07.2023	ROBERTS, Dave
(22) 11.12.2020	(22) 28.02.2019	(31) 201522462
(54) METHOD FOR UPDATING A CONTROL PROGRAM OF AN AUTOMATION SYSTEM WITH DATA MIGRATION FOR A PROGRAM STATE OF THE CONTROL PROGRAM	(54) ASSISTANCE SYSTEM, METHOD, AND PROGRAM FOR ASSISTING A USER IN FULFILLING A TASK	(32) 18.12.2015
(73) Beckhoff Automation GmbH	(73) Honda Research Institute Europe GmbH	(33) United Kingdom
(72) DREESSEN, Ralf	(72) Nabizadeh, Mr. Nima	(51) G06F 9/50
(31) 102019134373	Heckmann, Dr. Martin	(11) EP3616057
(32) 13.12.2019	Kolossa, Prof. Dr. Dorothea	(21) EP18729262.8
(33) Germany	(31) 18182032	(47) 26.07.2023
(51) G06F 9/44	(32) 05.07.2018	(87) US2018033156 28.02.2019
G06F 8/61	(33) European Patent Office (EPO)	(22) 17.05.2018
(11) EP3726376	(51) G06F 9/455	(54) METHOD FOR INTRA-SUBGRAPH OPTIMIZATION IN TUPLE GRAPH PROGRAMS
(21) EP17936165.4	G06F 9/48	(73) Google LLC
(47) 26.07.2023	G06F 9/50	(72) POSVA, Ivan
	(11) EP3646178	THAMBIDORAI, Gautham
	(21) EP18824970.0	GHEMAWAT, Sanjay

ROSENCRANTZ, Matthew	(54) AUTOMATIC DISPLAY UNIT BACKUP	(47) 26.07.2023
PETROVIC, Srdjan	DURING FAILURES OF ONE MORE	(22) 03.10.2019
(31) 201715685055	DISPLAY UNITS THROUGH THE	(54) STORAGE DEVICE USING BUFFER
(32) 24.08.2017	UTILIZATION OF GRAPHIC USER	MEMORY IN READ RECLAIM
(33) United States of America	INTERFACE OBJECTS DEFINED	OPERATION
(51) G06F 9/50	FOR CONTROL TRANSFER AND	(73) Samsung Electronics Co., Ltd.
(11) EP3414661	REVERSION AFTER RESOLUTION OF	(72) MA, Jin-hee
(21) EP16816813.6	THE FAILURES	KIM, Jisoo
(47) 26.07.2023	(73) GE Aviation Systems LLC	LEE, Sukhee
(87) US2016064738	(72) FAIRCHILD, David Allen	(31) 20180119087
21.09.2017	(31) 201715616905	(32) 05.10.2018
(22) 02.12.2016	(32) 07.06.2017	(33) Korea (Republic)
(54) EFFICIENT LIVE-MIGRATION OF	(33) United States of America	(51) G06F 12/06
REMOTELY ACCESSED DATA	(51) G06F 11/34	G06N 3/08
(73) Google LLC	H04L 43/106	H03M 7/36
(72) SANDERSON, Tyler	(11) EP2270665	H03M 7/30
(31) 201615071852	(21) EP10166760.8	G06N 3/04
(32) 16.03.2016	(47) 26.07.2023	(11) EP3822795
(33) United States of America	(22) 22.06.2010	(21) EP18931202.8
(51) G06F 9/54	(54) Systems and methods for web logging of	(47) 26.07.2023
(11) EP3376388	trace data in a multi-core system	(87) CN2018101597
(21) EP18156807.2	(73) Citrix Systems, Inc.	27.02.2020
(47) 26.07.2023	(72) Annamalaisami, Saravana	(22) 21.08.2018
(22) 14.02.2018	Joshi, Rajesh	(54) DATA STORAGE AND ACQUISITION
(54) A COMMUNICATION METHOD FOR	Chauhan, Abhishek	METHOD AND DEVICE
COMMUNICATING COMPUTER DATA	Jagadish, Ashwin	(73) HUAWEI TECHNOLOGIES CO., LTD.
BETWEEN AT LEAST ONE AIRCRAFT	(31) 219213 P	(72) CHEN, Ming
AND AT LEAST ONE SEPARATE PIECE	(32) 22.06.2009	(51) G06F 12/1027
OF ELECTRONIC EQUIPMENT	(33) United States of America	G06F 9/38
(73) Airbus Helicopters	(51) G06F 12/02	(11) EP3844624
(72) BOURDILLON, Rémi	(11) EP3764237	(21) EP19765883.4
VICQ, Alexandre	(21) EP19788187.3	(47) 26.07.2023
(31) 1770258	(47) 26.07.2023	(87) US2019048207
(32) 16.03.2017	(87) CN2019075599	05.03.2020
(33) France	24.10.2019	(22) 26.08.2019
(51) G06F 9/54	(22) 20.02.2019	(54) METHOD, APPARATUS, AND SYSTEM
G06F 9/445	(54) SYSTEM STARTUP METHOD AND	FOR REDUCING PIPELINE STALLS
G06Q 10/10	APPARATUS, ELECTRONIC DEVICE	DUE TO ADDRESS TRANSLATION
G06Q 10/06	AND STORAGE MEDIUM	MISSES
H04L 51/046	(73) HUAWEI TECHNOLOGIES CO., LTD.	(73) QUALCOMM INCORPORATED
H04L 51/02	(72) ZANG, Leizhen	(72) EIBL, Patrick
(11) EP3617884	TONG, Chaozhu	SPEIER, Thomas Philip
(21) EP19187444.5	XUE, Jun	STEMPEL, Brian
(47) 26.07.2023	(31) 201810351166	RAY, David Scott
(22) 19.07.2019	(32) 18.04.2018	(31) 201816113141
(54) ADAPTER EXTENSION FOR INBOUND	(33) China	(32) 27.08.2018
MESSAGES FROM ROBOTIC	(51) G06F 12/02	(33) United States of America
AUTOMATION PLATFORMS TO	G06F 12/1009	(51) G06F 12/1036
UNIFIED AUTOMATION PLATFORM	G06F 13/16	G06F 21/80
(73) Accenture Global Solutions Limited	G06F 12/10	G06F 9/455
(72) CHIKKAVEERIAIAH, Chandra Shekar	(11) EP3893119	G06F 12/14
THANGARAJ, Naveen Kumar	(21) EP19916504.4	(11) EP3311268
NEGI, Bikram Singh	(47) 26.07.2023	(21) EP16720486.6
JOSYULA, Sreenivasa Sekhar	(87) CN2019075754	(47) 26.07.2023
RAGHUNATH, Hema	27.08.2020	(87) GB2016051167
BALASUBRAMANIAN, Ramkumar	(22) 21.02.2019	22.12.2016
STURTIVANT, Alan	(54) SYSTEM ON CHIP, ROUTING METHOD	(22) 26.04.2016
PALKONDA, Pramod Chander	FOR ACCESS COMMAND AND	(54) SECURE INITIALISATION
(31) 201811032362	TERMINAL	(73) Arm Ltd
(32) 29.08.2018	(73) Huawei Technologies Co., Ltd.	(72) PARKER, Jason
(33) India	(72) ZHOU, Wenmin	GRISENTHWAITE, Richard Roy
(51) G06F 11/20	HE, Shiming	ROSE, Andrew Christopher
G06F 3/14	ZHANG, Zhiqiang	EVANS, Matthew Lucien
(11) EP3413202	SUN, Bo	(31) 201510534
(21) EP18176213.9	(51) G06F 12/02	(32) 16.06.2015
(47) 26.07.2023	G06F 12/121	(33) United Kingdom
(22) 06.06.2018	(11) EP3633516	(51) G06F 12/126
	(21) EP19201359.7	(11) EP3910484

(21) EP21170204.8	01.02.2018	(72) MURAMOTO, Takahide
(47) 26.07.2023	(22) 28.11.2016	(51) G06F 16/182
(22) 23.04.2021	(54) SYSTEMS, APPARATUSES AND	(11) EP3583520
(54) SYSTEMS AND METHODS FOR	METHODS FOR DUAL LINE	(21) EP18714147.8
MANAGING CACHE REPLACEMENT	INBOUND DETECTION ON A DATA	(47) 26.07.2023
(73) NXP USA, Inc.	COMMUNICATION BUS	(87) EP2018055919
(72) Mueller, Marcus	(73) Hubbell Incorporated	18.10.2018
Macario, Cristian	(72) ILIJIC, Nik	(22) 09.03.2018
Rohleder, Michael	JONES, Andrew Rhydian	(54) METHOD OF OPERATING A DATA
(31) 202016869249	(31) 201662367266 P	STORAGE SYSTEM, COMPUTER
(32) 07.05.2020	(32) 27.07.2016	PROGRAM FOR IMPLEMENTING
(33) United States of America	(33) United States of America	THE METHOD AND DATA STORAGE
(51) G06F 12/14	(51) G06F 13/42	SYSTEM OPERATING ACCORDING TO
G06F 21/78	G06F 1/3215	THE METHOD
(11) EP3714393	G06F 1/3234	(73) Siemens Aktiengesellschaft
(21) EP18888559.4	(11) EP3696684	(72) RIPPLINGER, Thomas
(47) 26.07.2023	(21) EP20151478.3	(31) 17166208
(87) CN2018121184	(47) 26.07.2023	(32) 12.04.2017
20.06.2019	(22) 13.01.2020	(33) European Patent Office (EPO)
(22) 14.12.2018	(54) FAST LINK TURNAROUND USING MIPI	(51) G06F 16/21
(54) MEMORY PROTECTIVE APPARATUS	D-PHY	G06F 16/22
FOR INDIRECT ACCESS MEMORY	(73) NXP USA, Inc.	G06F 16/27
CONTROLLER	(72) Brett, Maik	(11) EP3360057
(73) Alibaba Group Holding Limited	Singh, Shreya	(21) EP16781958.0
(72) WANG, Jie	Jain, Naveen Kumar	(47) 26.07.2023
HUANG, Huanhuan	(31) 201916248356	(87) US2016054930
WU, Youfei	(32) 15.01.2019	13.04.2017
JIANG, Peng	(33) United States of America	(22) 30.09.2016
(31) 201711344559	(51) G06F 16/00	(54) RELATIONAL DATABASE
(32) 15.12.2017	(11) EP3782038	ORGANIZATION FOR SHARDING
(33) China	(21) EP19789553.5	(73) ORACLE INTERNATIONAL
(51) G06F 13/28	(47) 26.07.2023	CORPORATION
(11) EP3465450	(87) US2019028173	(72) BALL, Stephen
(21) EP17733209.5	24.10.2019	DE LAVARENE, Jean
(47) 26.07.2023	(22) 18.04.2019	ZENG, Zheng
(87) US2017033951	(54) HYBRID CLOUD COMPUTING	HU, Wei-Ming
07.12.2017	NETWORK MANAGEMENT	NOVAK, Leonid
(22) 23.05.2017	(73) IBOSS, Inc.	BENADJAOUD, Ghazi Nouridine
(54) IMPROVING THROUGHPUT IN	(72) MARTINI, Paul Michael	DILMAN, Mark
OPENFABRICS ENVIRONMENTS	(31) 201862659644 P	TARANOV, Ilya
(73) Veritas Technologies LLC	(32) 18.04.2018	HEGDE, Vidya
(72) TOLEY, Abhijit	(33) United States of America	(31) 201615268438
JOSHI, Adhiraj	(51) G06F 16/11	201615268318
(31) 201615168449	G06F 16/174	201615268108
(32) 31.05.2016	(11) EP3819782	201615267395
(33) United States of America	(21) EP19207084.5	201562238193 P
(51) G06F 13/28	(47) 26.07.2023	(32) 16.09.2016
(11) EP3451179	(22) 05.11.2019	16.09.2016
(21) EP18191029.0	(54) COMPUTING DEVICE, METHOD	16.09.2016
(47) 26.07.2023	OF OPERATION AND COMPUTER	16.09.2016
(22) 27.08.2018	PROGRAM FOR A COMPUTING	07.10.2015
(54) DIRECT MEMORY ACCESS	DEVICE	(33) United States of America
CONTROLLER, CORRESPONDING	(73) Vestel Elektronik Sanayi ve Ticaret A.S.	United States of America
DEVICE AND METHOD FOR	(72) YILMAZ, Evren Gökhan	United States of America
RECEIVING, STORING AND	ÖZTEKIN, Güner	United States of America
PROCESSING DATA	(51) G06F 16/178	United States of America
(73) Commissariat à l'énergie atomique et aux	G06F 40/12	(51) G06F 16/22
énergies alternatives	G06Q 40/00	G06F 16/2455
(72) BERNARD, Christian	(11) EP3866050	(11) EP3550441
DURAND, Yves	(21) EP18936342.7	(21) EP19175302.9
(31) 1757998	(47) 26.07.2023	(47) 26.07.2023
(32) 30.08.2017	(87) JP2018038004	(22) 10.03.2010
(33) France	16.04.2020	(54) MANAGING STORAGE OF
(51) G06F 13/42	(22) 11.10.2018	INDIVIDUALLY ACCESSIBLE DATA
(11) EP3491530	(54) CONVERSION METHOD,	UNITS
(21) EP16910783.6	CONVERSION APPARATUS, AND	(73) AB Initio Technology LLC
(47) 26.07.2023	CONVERSION PROGRAM	(72) SCHMIDT, Stephen
(87) US2016063838	(73) FUJITSU LIMITED	KULKARNI, Vrshal

STANFILL, Craig, W VISHNIAC, Ephraim, Meriwether	(54) METHOD AND SYSTEM FOR GENERATING LATTICE RECOMMENDATIONS IN COMPUTER AIDED DESIGN APPLICATIONS	G06V 10/143 G06V 10/80 G06V 20/80
(51) G06F 16/25	(73) Autodesk, Inc.	(11) EP3625724
(11) EP3695290	(72) BANDARA, Konara Mudiyansele	(21) EP17723700.5
(21) EP18796236.0	Kosala	(47) 26.07.2023
(47) 26.07.2023	SHAYANI, Hooman	(87) EP2017061694
(87) US2018055250	(31) 201662328219 P	23.11.2017
18.04.2019	(32) 27.04.2016	(22) 16.05.2017
(22) 10.10.2018	(33) United States of America	(54) A METHOD TO AUTHENTICATE A SUBSTRATE USING SPECKLE PATTERNS AND A DEVICE TO PERFORM THE METHOD
(54) ALIGNMENT OF SOURCE INFRASTRUCTURE DATA WITH A BIS CONCEPTUAL SCHEMA	(51) G06F 17/10	(73) COLOP Digital GmbH
(73) Bentley Systems, Incorporated	G01C 21/20	(72) BERGQVIST, Johan
(72) WILSON, Samuel W.	G05D 1/02	(51) G06F 18/28
BENTLEY, Keith A.	G06F 17/12	G06V 10/75
MULLEN, Casey	(11) EP3756109	G06V 20/20
(31) 201762570294 P	(21) EP19709844.5	G06V 10/22
(32) 10.10.2017	(47) 26.07.2023	(11) EP3646292
(33) United States of America	(87) EP2019054467	(21) EP18859313.1
(51) G06F 16/27	29.08.2019	(47) 26.07.2023
G06F 16/901	(22) 22.02.2019	(87) KR2018011287
(11) EP3851974	(54) SCALABLE GRAPH SLAM FOR HD MAPS	28.03.2019
(21) EP20020031.9	(73) Robert Bosch GmbH	(22) 21.09.2018
(47) 26.07.2023	(72) RAMAKRISHNAN, Naveen	(54) METHOD AND DEVICE FOR PROVIDING AUGMENTED REALITY SERVICE
(22) 20.01.2020	IRION, Jeff	(73) Samsung Electronics Co., Ltd.
(54) SYSTEM AND A METHOD IMPLEMENTING A DIRECTED ACYCLIC GRAPH (DAG) CONSENSUS ALGORITHM VIA A GOSSIP PROTOCOL	DHAR, Sauptik	(72) MOON, Sun-ho
(73) DECARD AG	(31) 201862634327 P	JUNG, Han-sub
(72) Rasmussen, Carsten Bleser	(32) 23.02.2018	HAN, Dong-hyun
(51) G06F 16/51	(33) United States of America	RYU, Seong-ki
G06F 16/41	(51) G06F 17/16	(31) 20180007295
G06F 16/61	H04N 21/262	20170122807
(11) EP3398048	H04N 21/2347	(32) 19.01.2018
(21) EP16882570.1	H04L 9/30	22.09.2017
(47) 26.07.2023	H04N 19/46	(33) Korea (Republic)
(87) US2016068898	(11) EP3195604	Korea (Republic)
06.07.2017	(21) EP15833594.3	(51) G06F 21/31
(22) 28.12.2016	(47) 26.07.2023	H04W 12/065
(54) RESPONDING TO REMOTE MEDIA CLASSIFICATION QUERIES USING CLASSIFIER MODELS AND CONTEXT PARAMETERS	(87) US2015046382	H04W 12/08
(73) Gracenote Inc.	25.02.2016	H04W 12/126
(72) CRAMER, Jason	(22) 21.08.2015	H04W 12/082
SUMMERS, Cameron Aubrey	(54) DATA ADAPTIVE COMPRESSION AND DATA ENCRYPTION USING KRONECKER PRODUCTS	(11) EP3469506
CREMER, Markus K.	(73) Nova Southeastern University	(21) EP17810921.1
POPP, Phillip	(72) BOUROUJHIYA, Abdelkrim	(47) 26.07.2023
(31) 201615185616	(31) 201462040674 P	(87) US2017036321
201615185654	(32) 22.08.2014	14.12.2017
201662274362 P	(33) United States of America	(22) 07.06.2017
(32) 17.06.2016	(51) G06F 18/2413	(54) METHOD AND APPARATUS FOR DETECTING UNAUTHORIZED USE OF A MOBILE DEVICE
17.06.2016	G06V 10/44	(73) Visa International Service Association
03.01.2016	G06V 10/764	(72) CIDAMBI, Chandrasekhar
(33) United States of America	G06V 10/82	(31) 201615177070
United States of America	G06T 7/00	(32) 08.06.2016
United States of America	A61B 6/00	(33) United States of America
(51) G06F 17/00	(11) EP3657391	(51) G06F 21/44
G06T 17/00	(21) EP18207641.4	G06F 21/53
(11) EP3449399	(47) 26.07.2023	G07C 9/29
(21) EP17720089.6	(22) 21.11.2018	H04B 1/7163
(47) 26.07.2023	(54) PROCESSING A MEDICAL IMAGE	H04L 9/40
(87) EP2017059918	(73) Siemens Healthcare GmbH	H04W 12/06
02.11.2017	(72) Grbic, Sasa	H04W 4/02
(22) 26.04.2017	Kärgel, Rainer	(11) EP3944588
	Comaniciu, Dorin	(21) EP21195846.7
	Sperl, Jonathan	(47) 26.07.2023
	Ionasec, Razvan	
	Chabin, Guillaume	
	(51) G06F 18/25	

(22) 30.08.2019	G06F 21/54	(22) 24.05.2018
(54) METHOD FOR UWB TRANSACTION AND ELECTRONIC DEVICE THEREFOR	(11) EP3761198	(54) DEVICE FOR DETECTING VARIANT MALICIOUS CODE ON BASIS OF NEURAL NETWORK LEARNING, METHOD THEREFOR, AND COMPUTER-READABLE RECORDING MEDIUM IN WHICH PROGRAM FOR EXECUTING SAME METHOD IS RECORDED
(73) Samsung Electronics Co., Ltd.	(21) EP18909785.0	(73) Estsecurity Corp.
(72) YANG, Yi	(47) 26.07.2023	(72) BYEON, Hyeong Jin
CHOI, Sehwan	(87) CN2018102667	CHUNG, Ui Jung
KIM, Hyunchul	19.09.2019	LEE, Won Kyung
YOON, Sejong	(22) 28.08.2018	(31) 20170064301
KANG, Moonseok	(54) CONTAINER ESCAPE DETECTION METHOD, APPARATUS AND SYSTEM, AND STORAGE MEDIUM	(32) 24.05.2017
JANG, Jonghoon	(73) Huawei Cloud Computing Technologies Co., Ltd.	(33) Korea (Republic)
SHIN, Jiho	(72) CHEN, Yu	(51) G06F 21/57
LEE, Jonghyo	YU, Yue	(11) EP3876123
(31) 20190091278	KUANG, Dahu	(21) EP20160996.3
20190081494	ZHANG, Yu	(47) 26.07.2023
20180167912	(31) PCT/CN2018/079338	(22) 04.03.2020
20180107359	(32) 16.03.2018	(54) ARRANGEMENT AND OPERATING METHOD FOR A SECURE START-UP OF AN ELECTRONIC DEVICE
(32) 26.07.2019	(33) World Intellectual Property Office (WIPO)	(73) Siemens Aktiengesellschaft
05.07.2019	(51) G06F 21/53	(72) Feist, Christian Peter
21.12.2018	H04W 12/00	Papagudi Subrahmanyam, Niranjana
07.09.2018	H04L 9/08	Falk, Rainer
(33) Korea (Republic)	G06F 21/57	Aschauer, Hans
Korea (Republic)	H04W 12/10	(51) G06F 21/57
Korea (Republic)	(11) EP3764258	G06F 9/455
Korea (Republic)	(21) EP18916363.7	G06F 9/50
(51) G06F 21/52	(47) 26.07.2023	G06F 8/61
G06F 21/55	(87) CN2018084931	G06F 8/65
G06F 21/56	31.10.2019	(11) EP3835987
(11) EP3769247	(22) 27.04.2018	(21) EP20206397.0
(21) EP19721761.5	(54) CONSTRUCTING COMMON TRUSTED APPLICATION FOR A PLURALITY OF APPLICATIONS	(47) 26.07.2023
(47) 26.07.2023	(73) HUAWEI TECHNOLOGIES CO., LTD.	(22) 09.11.2020
(87) IB2019052326	(72) LI, Zhuofei	(54) METHOD AND SYSTEM FOR AUTOMATICALLY IDENTIFYING AND CORRECTING SECURITY VULNERABILITIES IN CONTAINERS
26.09.2019	(51) G06F 21/56	(73) Accenture Global Solutions Limited
(22) 21.03.2019	(11) EP3839785	(72) JANARDHANAN, Satish
(54) SYSTEM AND METHOD FOR PREVENTING UNWANTED BUNDLED SOFTWARE INSTALLATION	(21) EP21157581.6	RAMASAMY, Manoharan
(73) Morphisec Information Security 2014 Ltd.	(47) 26.07.2023	(31) 201916707514
(72) GURI, Mordechai	(22) 02.03.2017	(32) 09.12.2019
YEHOSHUA, Ronen	(54) CHARACTERIZING MALWARE FILES FOR SIMILARITY SEARCHING	(33) United States of America
GORELIK, Michael	(73) X Development LLC	(51) G06F 21/57
(31) 201862646679 P	(72) MARTÍNEZ CONTRERAS, Emiliano	G06F 21/51
(32) 22.03.2018	(51) G06F 21/56	(11) EP3716113
(33) United States of America	G06F 8/75	(21) EP20161046.6
(51) G06F 21/52	G06F 21/12	(47) 26.07.2023
G06F 21/56	(11) EP3629206	(22) 04.03.2020
G06F 21/55	(21) EP19199241.1	(54) DETERMINING SECURITY RISKS IN BINARY SOFTWARE CODE
G06F 21/57	(47) 26.07.2023	(73) BlackBerry Limited
(11) EP3535681	(22) 24.09.2019	(72) Boulton, Adam John
(21) EP17867010.5	(54) CODE DUPLICATE IDENTIFICATION METHOD FOR CONVERTING SOURCE CODE INTO NUMERIC IDENTIFIERS AND COMPARISON AGAINST LARGE DATA SETS	(31) 201916370738
(47) 26.07.2023	(73) Snyk Sweden AB	(32) 29.03.2019
(87) IL2017051206	(72) COCCIA, Julian	(33) United States of America
11.05.2018	(31) 201816141613	(51) G06F 21/57
(22) 05.11.2017	(32) 25.09.2018	G06F 21/60
(54) SYSTEM AND METHOD FOR DETECTING AND FOR ALERTING OF EXPLOITS IN COMPUTERIZED SYSTEMS	(33) United States of America	G06F 21/64
(73) Perception Point Ltd	(51) G06F 21/56	H04L 9/32
(72) AMINOV, Michael	G06N 3/08	(11) EP3659058
LEVIN, Shlomi	(11) EP3483767	(21) EP17757706.1
(31) 201762516126 P	(21) EP18805159.3	(47) 26.07.2023
201662418294 P	(47) 26.07.2023	
(32) 07.06.2017	(87) KR2018005866	
07.11.2016	29.11.2018	
(33) United States of America		
United States of America		
(51) G06F 21/53		

(87) EP2017070407 14.02.2019	(11) EP3928236	(54) SYSTEM AND METHOD FOR PROVIDING A REPRESENTATIONAL STATE TRANSFER PROXY SERVICE FOR A BLOCKCHAIN CLOUD SERVICE
(22) 11.08.2017	(21) EP19921365.3	(73) Oracle International Corporation
(54) DEVICES AND METHODS FOR KEY ATTESTATION WITH MULTIPLE DEVICE CERTIFICATES	(47) 26.07.2023	(72) ZHANG, Qingsheng
(73) Huawei Technologies Co., Ltd.	(87) KR2019017915 01.10.2020	LI, Shun
(72) SOVIO, Sampo	(22) 17.12.2019	ZHOU, Shi Xiang
LIAN, Gang	(54) ELECTRONIC DEVICE AND METHOD FOR SECURING PERSONAL INFORMATION INCLUDED IN IMAGE	SHI, Pierce
LI, Qiming	(73) Samsung Electronics Co., Ltd.	LI, Jared
SHAN, Zhihua	(72) VALERIY, Prushinskiy	LITTLE, Todd
LAITINEN, Pekka	LEE, Dasom	ZHU, Weiguo
(51) G06F 21/57	PARK, Hyunhee	ZHU, Sheng
H04L 9/40	KIM, Sungoh	JIN, Jim
(11) EP3542300	WON, Jonghoon	(31) 201816141339
(21) EP16795336.3	YEO, Hyungsok	201816141337
(47) 26.07.2023	(31) 20190035716	201816141329
(87) EP2016077665	(32) 28.03.2019	201762565999 P
24.05.2018	(33) Korea (Republic)	(32) 25.09.2018
(22) 15.11.2016	(51) G06F 21/62	25.09.2018
(54) METHOD FOR OPERATING A PEER- TO-PEER APPLICATION	G06Q 30/02	25.09.2018
(73) Innogy Innovation GmbH	H04L 9/08	29.09.2017
(72) STÖCKER, Carsten	H04L 9/40	(33) United States of America
(51) G06F 21/60	G06Q 30/0251	United States of America
H04L 9/14	H04L 9/06	United States of America
H04L 9/00	(11) EP4038532	United States of America
H04L 9/32	(21) EP20829257.3	(51) G06F 21/64
H04L 9/40	(47) 26.07.2023	H04L 9/32
H04L 9/06	(87) US2020063409	(11) EP3811267
H04L 9/08	09.06.2022	(21) EP19727419.4
G06F 21/85	(22) 04.12.2020	(47) 26.07.2023
(11) EP3721579	(54) SECURED MANAGEMENT OF DATA DISTRIBUTION RESTRICTIONS	(87) EP2019064376
(21) EP18887104.0	(73) Google LLC	26.12.2019
(47) 26.07.2023	(72) WANG, Gang	(22) 03.06.2019
(87) IL2018051331	YEO, Kevin	(54) DIGITAL FILE ANTI-FORGERY PROTECTION
13.06.2019	(51) G06F 21/64	(73) SICPA HOLDING SA
(22) 04.12.2018	G06F 3/06	(72) DECOUX, Eric
(54) SECURE CONTENT ROUTING USING ONE-TIME PADS	H04W 12/10	THEVOZ, Philippe
(73) Defender Cyber Technologies Ltd.	H04N 21/2347	WALLACE, Elisabeth
(72) SOLOMON, Doron	H04N 21/835	GILLET, Philippe
SOLOMON, Maria	(11) EP3710974	(31) 18178628
(31) 201762594550 P	(21) EP17932180.7	(32) 19.06.2018
(32) 05.12.2017	(47) 26.07.2023	(33) European Patent Office (EPO)
(33) United States of America	(87) SE2017051145	(51) G06F 21/72
(51) G06F 21/62	23.05.2019	H04B 7/212
(11) EP3940572	(22) 17.11.2017	H04B 7/185
(21) EP20769499.3	(54) METHOD AND ARRANGEMENT FOR DETECTING DIGITAL CONTENT TAMPERING	H04J 3/06
(47) 26.07.2023	(73) Telefonaktiebolaget LM Ericsson (publ)	G06F 11/10
(87) JP2020006711	(72) MEIROSU, Catalin	G06F 21/64
17.09.2020	(51) G06F 21/64	H03M 13/09
(22) 20.02.2020	G06Q 20/38	H04L 1/00
(54) DATA GENERALIZATION DEVICE, DATA GENERALIZATION METHOD, AND PROGRAM	H04L 67/565	(11) EP3584965
(73) NIPPON TELEGRAPH AND TELEPHONE CORPORATION	G06F 9/54	(21) EP19180994.6
(72) HASEGAWA, Satoshi	G06Q 20/06	(47) 26.07.2023
(31) 2019043664	G06F 21/62	(22) 18.06.2019
(32) 11.03.2019	H04L 9/40	(54) DATA TRANSPORT AND TIME SYNCHRONIZATION FOR ISR SYSTEMS
(33) Japan	H04L 67/1097	(73) Goodrich Corporation
(51) G06F 21/62	H04L 9/00	(72) RICCI, Louis
G06F 21/32	(11) EP3688650	RAMSEY, Scott W.
G06T 3/40	(21) EP18789749.1	JAROK, Jonathan C.
G06T 5/00	(47) 26.07.2023	(31) 201816013609
H04N 1/44	(87) US2018053556	(32) 20.06.2018
H04N 1/00	04.04.2019	(33) United States of America
	(22) 28.09.2018	(51) G06F 21/74
		G06F 21/62

G06F 21/60	KANDI, Girish	H04W 12/06
H04L 9/08	(31) 632KO2014	(11) EP3855772
H04L 9/40	201414535844	(21) EP19872337.1
G06F 21/76	(32) 10.06.2014	(47) 26.07.2023
(11) EP3631670	07.11.2014	(87) CN2019111130
(21) EP18809780.2	(33) India	23.04.2020
(47) 26.07.2023	United States of America	(22) 15.10.2019
(87) CA2018050630	(51) G06F 30/00	(54) TRANSLATION METHOD AND
06.12.2018	G06T 15/00	ELECTRONIC DEVICE
(22) 30.05.2018	G06T 11/00	(73) HUAWEI TECHNOLOGIES CO., LTD.
(54) HARDWARE SECURITY MODULE	G06F 30/12	(72) WANG, Long
(73) Crypto4A Technologies Inc.	G06F 113/22	GU, Hejin
(72) GOODMAN, James Ross	G06F 30/17	(31) 201811198981
RITCHIE, Bradley Clare	(11) EP3961467	(32) 15.10.2018
FISET, Jean-Pierre	(21) EP19926612.3	(33) China
COUILLARD, Bruno	(47) 26.07.2023	(51) G06K 7/08
(31) 201762532138 P	(87) KR2019010722	(11) EP3891648
201762513103 P	29.10.2020	(21) EP19816465.9
(32) 13.07.2017	(22) 22.08.2019	(47) 26.07.2023
31.05.2017	(54) CASTING SYSTEM DESIGN METHOD	(87) IB2019060323
(33) United States of America	AND SYSTEM THEREFOR	11.06.2020
United States of America	(73) Anycasting Software Co., Ltd.	(22) 29.11.2019
(51) G06F 21/83	(72) KIM, Sungbin	(54) READER DEVICE FOR READING
G06F 9/451	ROH, Donghoon	INFORMATION STORED ON A
G06F 21/74	(31) 20190047697	MAGNETIC STRIP AND A METHOD
G06Q 20/32	(32) 24.04.2019	FOR DECODING THE READ
G06F 21/53	(33) Korea (Republic)	INFORMATION
(11) EP3678021	(51) G06F 30/23	(73) Crocus Technology S.A.
(21) EP19822186.3	G06F 111/10	(72) ALAOUI, Ali
(47) 26.07.2023	(11) EP3203390	ATES GURCAN, Hakan
(87) CN2019087338	(21) EP15791467.2	(31) 201862776024 P
26.12.2019	(47) 26.07.2023	(32) 06.12.2018
(22) 17.05.2019	(87) CN2015070874	(33) United States of America
(54) USER INTERFACE DISPLAY METHOD	07.04.2016	(51) G06K 7/10
AND TERMINAL DEVICE	(22) 16.01.2015	(11) EP3841514
(73) Huawei Technologies Co. Ltd.	(54) FINE MASK PLATE NET STRETCHING	(21) EP18758608.6
(72) LIU, Chenguang	PROCESS ANALYSIS METHOD	(47) 26.07.2023
ZHANG, Peng	(73) Ordos Yuansheng Optoelectronics Co.,	(87) EP2018072581
(31) 201810637260	Ltd.	27.02.2020
(32) 20.06.2018	BOE Technology Group Co., Ltd.	(22) 21.08.2018
(33) China	(72) XU, Jingbo	(54) RFID READER AND METHOD FOR
(51) G06F 30/00	LIU, Jiantao	READING OUT RFID TAGS
(11) EP3841511	XUAN, Minghua	(73) Fraunhofer-Gesellschaft zur Förderung
(21) EP18765563.4	JI, Fengli	der angewandten Forschung e.V.
(47) 26.07.2023	BAI, Shanshan	(72) ROBERT, Jörg
(87) EP2018072458	(31) 201410515610	KORN, Clemens
27.02.2020	(32) 29.09.2014	(51) G06K 7/10
(22) 20.08.2018	(33) China	H02J 7/02
(54) VISUAL MODELLING SYSTEM AND	(51) G06F 30/3315	H04B 5/00
METHOD THEREOF	G06F 11/36	(11) EP3748529
(73) The Giant Company Attractions Limited	G06F 119/12	(21) EP20177713.3
(72) DUNNING, Paddy	(11) EP4064057	(47) 26.07.2023
(51) G06F 30/00	(21) EP21305374.7	(22) 01.06.2020
G06F 30/13	(47) 26.07.2023	(54) CHARGER FOR NFC DEVICE
G06F 30/15	(22) 24.03.2021	(73) STMicroelectronics (Rousset) SAS
(11) EP3155568	(54) METHOD AND SYSTEM FOR	(72) TRAMONI, Alexandre
(21) EP15807448.4	CORRECTING THE OPERATION OF	(31) 1905860
(47) 26.07.2023	A TARGET COMPUTER SYSTEM BY	(32) 03.06.2019
(87) US2015034616	USING TIMED REQUIREMENTS	(33) France
17.12.2015	(73) Mitsubishi Electric Corporation	(51) G06K 19/00
(22) 08.06.2015	Institut National de Recherche en	G06K 19/02
(54) NAVIGATING AND AUTHORING	Informatique et en Automatique	G06K 19/04
CONFIGURED PRODUCT LIFECYCLE	(72) SANKUR, Ocan	G06K 19/077
DATA	JÉRON, Thierry	F16K 7/12
(73) Siemens Industry Software Inc.	NOGUCHI, Reiya	F16K 37/00
(72) GOYAL, Nitin	MARKEY, Nicolas	H01Q 1/22
SRINIVASAN, Krishnan	(51) G06F 40/58	(11) EP3867813
RAY, Charubrata	G06F 9/451	(21) EP19789920.6

(47) 26.07.2023	(47) 26.07.2023	F16N 29/04
(87) EP2019077816 23.04.2020	(87) CN2019074516 08.08.2019	G01M 15/04
(22) 14.10.2019	(22) 01.02.2019	G01M 15/10
(54) DEVICE HAVING A BLIND BORE FOR THE INTRODUCTION OF A TRANSPONDER	(54) MEMORY CARD, AND TERMINAL	G01N 33/30
(73) Samson Aktiengesellschaft SED Flow Control GmbH	(73) HUAWEI TECHNOLOGIES CO., LTD.	(11) EP3891368
(72) RUTSCH, Uwe EHMIG, Uwe	(72) YANG, Jiangtao	(21) EP19816530.0
(31) 102018125524	(31) 201810103746	(47) 26.07.2023
(32) 15.10.2018	(32) 01.02.2018	(87) EP2019000331 11.06.2020
(33) Germany	(33) China	(22) 03.12.2019
(51) G06K 19/077	(51) G06K 19/077	(54) METHOD FOR DETERMINING AND PREDICTING THE INDIVIDUAL OIL CHANGE INTERVAL OF AN INTERNAL COMBUSTION ENGINE
(11) EP3005244	(11) EP4022511	(73) DEUTZ Aktiengesellschaft
(21) EP14729629.7	(21) EP20768841.7	(72) HOEN, Thomas WINKLER, Markus
(47) 26.07.2023	(47) 26.07.2023	JOISTEN-PIERITZ, Joachim
(87) EP2014061473 11.12.2014	(87) US2020048520 04.03.2021	STEINHAUSEN, Andreas
(22) 03.06.2014	(22) 28.08.2020	KLEIN, Ulf
(54) METHOD FOR MANUFACTURING AN ANTI-CRACKING ELECTRONIC DEVICE	(54) ROTATION-INSENSITIVE RFID DEVICES AND METHODS OF FORMING THE SAME	(31) 102018009521
(73) Thales Dis France SAS	(73) Avery Dennison Retail Information Services LLC	(32) 06.12.2018
(72) ALLOT, Francis LOMBARDO, Sophie BLACHON, Frédéric KAMAGATE, Youssiph LANKINEN, Mikko	(72) FORSTER, Ian J. SOWLE, Elizabeth MCGINNISS, Edward J.	(33) Germany
(31) 13305764	(31) 201962892879 P	(51) G06N 20/00 G08G 1/01
(32) 07.06.2013	(32) 28.08.2019	(11) EP3719714
(33) European Patent Office (EPO)	(33) United States of America	(21) EP20163940.8
(51) G06K 19/077	(51) G06N 3/045 G06N 3/0464 G06N 3/09 G01T 1/36	(47) 26.07.2023
(11) EP3853775	(11) EP3989126	(22) 18.03.2020
(21) EP19768845.0	(21) EP21203776.6	(54) MACHINE LEARNING SYSTEM FOR CLASSIFYING AN AREA AS VEHICLE WAY
(47) 26.07.2023	(47) 26.07.2023	(73) GEOTAB Inc.
(87) EP2019074999 26.03.2020	(22) 20.10.2021	(72) Nguyen, Brenda Zhang, Xiaochen Lewis, Daniel Jacob
(22) 18.09.2019	(54) METHOD FOR THE AUTOMATIC IDENTIFICATION AND QUANTIFICATION OF RADIOISOTOPES IN GAMMA SPECTRA	(31) 201962829539 P
(54) METHOD FOR MANUFACTURING A CARD MODULE AND MODULE OBTAINED	(73) Due2Lab S.r.l. Consiglio Nazionale Delle Ricerche	(32) 04.04.2019
(73) Smart Packaging Solutions (SPS)	(72) ZAMBELLI, Nicola SARZI AMADÈ, Nicola BETTELLI, Manuele ZAPPETTINI, Andrea	(33) United States of America
(72) GERIN, Guillaume MEAR, Benjamin	(31) 202000025006	(51) G06Q 10/04 G06Q 10/08 G06Q 50/26 G06N 3/04 G06N 3/08 G06N 20/20 H04W 4/90
(31) 1858423	(32) 22.10.2020	(11) EP4040353
(32) 18.09.2018	(33) Italy	(21) EP21820072.3
(33) France	(51) G06N 3/0464 G06N 3/084 G06N 3/0895	(47) 26.07.2023
(51) G06K 19/077	(11) EP3542319	(87) CN2021097958 30.06.2022
(11) EP3853773	(21) EP17817337.3	(22) 02.06.2021
(21) EP19763008.0	(47) 26.07.2023	(54) METHOD FOR ESTABLISHING RISK PREDICTION MODEL, REGIONAL RISK PREDICTION METHOD AND CORRESPONDING APPARATUS
(47) 26.07.2023	(87) US2017061853 24.05.2018	(73) Beijing Baidu Netcom Science and Technology Co., Ltd.
(87) EP2019074069 26.03.2020	(22) 15.11.2017	(72) ZHOU, Jingbo HUANG, Jizhou WANG, Haifeng ZHOU, An DOU, Dejing XIONG, Haoyi LIU, Ji
(22) 10.09.2019	(54) TRAINING NEURAL NETWORKS USING A CLUSTERING LOSS	(31) 202011515953
(54) METHOD FOR MANUFACTURING AN ELECTRONIC MODULE FOR A PORTABLE OBJECT	(73) Google LLC	(32) 21.12.2020
(73) Smart Packaging Solutions (SPS)	(72) SONG, Hyun Oh	(33) China
(72) CALVAS, Bernard CASTANO, Philippe	(31) 201662422555 P	
(31) 1858425	(32) 15.11.2016	
(32) 18.09.2018	(33) United States of America	
(33) France	(51) G06N 3/08 F01M 11/10	
(51) G06K 19/077		
(11) EP3723004		
(21) EP19748275.5		

(51) G06Q 10/06	(47) 26.07.2023	(51) G06Q 30/02
(11) EP3803727	(87) US2018057237	(11) EP3616150
(21) EP18729932.6	02.05.2019	(21) EP18789871.3
(47) 26.07.2023	(22) 24.10.2018	(47) 26.07.2023
(87) EP2018064666	(54) PREDICTIVE ANALYSIS OF DATA	(87) US2018029846
12.12.2019	FROM MULTIPLE TEST SCENARIOS	01.11.2018
(22) 04.06.2018	TO IMPROVE READ ACCURACY	(22) 27.04.2018
(54) METHOD AND SYSTEM FOR	(73) Avery Dennison Retail Information	(54) GENERATION OF INTERACTIVE
PROVIDING PROCESS PROTOCOLS	Services LLC	CONTENT WITH ADVERTISING
FOR PHYSICAL OBJECTS	(72) FORSTER, Ian	(73) Snap Inc.
(73) Celonis SE	(31) 201762576175 P	(72) ANDREOU, Jacob
(72) NOMINACHER, Bastian	(32) 24.10.2017	(31) 201715582251
RINKE, Alexander	(33) United States of America	(32) 28.04.2017
KLENK, Martin	(51) G06Q 10/0832	(33) United States of America
(51) G06Q 10/06	G06Q 10/0835	(51) G06Q 30/0241
(11) EP3803728	G06Q 10/087	H04L 67/14
(21) EP18730688.1	G05B 19/042	H04L 67/12
(47) 26.07.2023	(11) EP3583560	H04L 67/10
(87) EP2018064664	(21) EP18753600.8	G06F 16/43
12.12.2019	(47) 26.07.2023	G06F 16/9535
(22) 04.06.2018	(87) US2018018186	B67D 7/04
(54) METHOD AND SYSTEM FOR	23.08.2018	B67D 7/06
PROVIDING PROCESS PROTOCOLS	(22) 14.02.2018	G06Q 30/0251
FOR MACHINE DATA	(54) DANGEROUS GOODS SHIPPING	H04L 67/52
(73) Celonis SE	MANAGEMENT SYSTEMS	(11) EP3907175
(72) KLENK, Martin	(73) United Parcel Service Of America, Inc.	(21) EP21182673.0
NOMINACHER, Bastian	(72) COLLINS, Shawn	(47) 26.07.2023
RINKE, Alexander	ENGBERG, Kaj	(22) 11.05.2017
(51) G06Q 10/067	BONIN, Paul	(54) MANAGEMENT OF FUEL DISPENSER
G06Q 30/06	JANNEY, Taylor	MEDIA
G06Q 10/06	(31) 201815895767	(73) Wayne Fueling Systems LLC
(11) EP3234898	201762458729 P	(72) Fieglein, Henry
(21) EP14908616.7	(32) 13.02.2018	Kulvicki, Daniel
(47) 26.07.2023	14.02.2017	(31) 201615153966
(87) US2014071402	(33) United States of America	(32) 13.05.2016
23.06.2016	United States of America	(33) United States of America
(22) 19.12.2014	(51) G06Q 10/10	(51) G06Q 50/22
(54) MODEL-DRIVEN ARCHITECTURE FOR	(11) EP3649592	(11) EP3161779
USER-CENTERED DESIGN	(21) EP18828646.2	(21) EP15815912.9
(73) Ent. Services Development Corporation	(47) 26.07.2023	(47) 26.07.2023
LP	(87) CA2018050821	(87) US2015038289
(72) MARNEY, Steve	10.01.2019	07.01.2016
ROHNER, Aric	(22) 05.07.2018	(22) 29.06.2015
HILL, Joe	(54) SYSTEMS AND METHODS FOR	(54) AUTOMATIC RESET OF PHYSICAL
(51) G06Q 10/08	CONTENT SHARING THROUGH	PERFORMANCE INFORMATION
G05B 19/418	EXTERNAL SYSTEMS	(73) Garmin Switzerland GmbH
(11) EP3662427	(73) Open Text SA ULC	(72) LAUGHLIN, Daniel B.
(21) EP18842064.0	(72) TEMPLETON, David Andrew	(31) 201514751248
(47) 26.07.2023	HAWA, Raja Elias	201462018922 P
(87) US2018044501	(31) 201815902311	(32) 26.06.2015
07.02.2019	201762529617 P	30.06.2014
(22) 31.07.2018	(32) 22.02.2018	(33) United States of America
(54) SYSTEM AND METHOD FOR	07.07.2017	United States of America
MANAGING AN INDUSTRIAL	(33) United States of America	(51) G06Q 50/22
EQUIPMENT SYSTEM	United States of America	A61C 7/00
(73) ABB Schweiz AG	(51) G06Q 20/32	A61C 7/08
(72) ACHARYA, Mithun P.	G06F 21/60	A61C 13/00
MAHATE, Shakeel	(11) EP3364329	(11) EP3770845
BRONMARK, Jonas	(21) EP17157273.8	(21) EP20181729.3
ALEKSY, Markus	(47) 26.07.2023	(47) 26.07.2023
(31) 201715665361	(22) 21.02.2017	(22) 12.10.2007
(32) 31.07.2017	(54) SECURITY ARCHITECTURE FOR	(54) METHOD FOR FACILITATING
(33) United States of America	DEVICE APPLICATIONS	AUTOMATED DENTAL
(51) G06Q 10/08	(73) Mastercard International Incorporated	MEASUREMENTS
G07F 7/08	(72) WARD, Michael	(73) Align Technology, Inc.
G07F 7/10	ROBERTS, David Anthony	(72) LUONG, Jenghwei, Gene
(11) EP3701454	SMETS, Patrik	KUO, Eric
(21) EP18799993.3	ABOU EL ENIN, Mohamed	WU, Fuming

MATOV, Vadim	(22) 27.04.2020	(87) US2015037307
(31) 581067	(54) FACIAL IMAGE PROCESSING	30.12.2015
(32) 13.10.2006	METHOD AND APPARATUS, IMAGE	(22) 24.06.2015
(33) United States of America	DEVICE, AND STORAGE MEDIUM	(54) SYSTEM AND METHOD FOR
(51) G06T 3/40	(73) Beijing Sensetime Technology	CLASSIFYING PIXELS
(11) EP3734545	Development Co., Ltd.	(73) Microsoft Technology Licensing, LLC
(21) EP20166878.7	(72) SUN, Keqiang	(72) EDMONDS, Christopher Douglas
(47) 26.07.2023	QIAN, Chen	FINOCCHIO, Mark J.
(22) 30.03.2020	WU, Wenyang	LEE, Kyungsuk David
(54) METHOD AND APPARATUS FOR	WU, Qianyi	CRANE, Randy
PERSON SUPER RESOLUTION FROM	XU, Yuanyuan	TARDIF, John Allen
LOW RESOLUTION IMAGE	(31) 201910804179	CARRIE, Susan
(73) INTEL Corporation	(32) 28.08.2019	MUFF, Adam James
(72) BORTMAN, Maria	(33) China	(31) 201414318135
ASHKENAZI, Tzach	(51) G06T 5/00	(32) 27.06.2014
MISHAEV, Roland	H04N 23/68	(33) United States of America
SHPALENSKY, Yuri	H04N 7/18	(51) G06T 7/12
(31) 201916397941	(11) EP3973499	A61B 6/00
(32) 29.04.2019	(21) EP19936730.1	G06T 3/00
(33) United States of America	(47) 26.07.2023	G06T 7/00
(51) G06T 5/00	(87) CN2019130004	(11) EP3639242
(11) EP4071708	14.01.2021	(21) EP18743083.0
(21) EP21215180.7	(22) 30.12.2019	(47) 26.07.2023
(47) 26.07.2023	(54) METHODS AND SYSTEMS FOR VIDEO	(87) IB2018054462
(22) 16.12.2021	STABILIZATION	20.12.2018
(54) METHODS AND SYSTEMS FOR	(73) Zhejiang Dahua Technology Co., Ltd.	(22) 18.06.2018
LOCALISED SMOKE REMOVAL AND	(72) WANG, Tingniao	(54) METHOD FOR DETECTION AND
COLOR RESTORATION OF REAL-TIME	(31) 201910606441	QUANTIFICATION OF ARTERIAL
VIDEO	(32) 05.07.2019	CALCIFICATION
(73) Tata Consultancy Services Limited	(33) China	(73) Volpara Health Technologies Limited
(72) SENGAR, VARTIKA	(51) G06T 7/00	(72) HIGHNAM, Ralph
JAYARAMAN, SRINIVASAN	(11) EP3378037	HILL, Melissa
Sampathkumar, VIVEK Bangalore	(21) EP16790581.9	(31) 17732921
PODUVAL, MURALI	(47) 26.07.2023	(32) 16.06.2017
Gubbi Lakshminarasimha, Jayavardhana	(87) EP2016076282	(33) New Zealand
Rama	26.05.2017	(51) G06T 7/20
SEEMAKURTHY, KARTHIK	(22) 01.11.2016	G06T 7/00
PURUSHOTHAMAN,	(54) OPTIMIZING USER INTERACTIONS IN	G06F 18/25
BALAMURALIDHAR	SEGMENTATION	G06V 10/56
GHOSE, AVIK	(73) Koninklijke Philips N.V.	G06V 10/80
KANAKATTE GURUMURTHY, APARNA	(72) KUTRA, Dominik Benjamin	G06V 40/16
SAHA, JAYEETA	BYSTROV, Daniel	(11) EP2586011
(31) 202121016802	(31) 15195285	(21) EP11797659.7
(32) 09.04.2021	(32) 19.11.2015	(47) 26.07.2023
(33) India	(33) European Patent Office (EPO)	(87) FI2011050528
(51) G06T 5/00	(51) G06T 7/00	29.12.2011
G06T 7/73	G01N 33/50	(22) 07.06.2011
(11) EP3355268	(11) EP3452985	(54) METHOD, APPARATUS AND
(21) EP18153407.4	(21) EP17730378.1	COMPUTER PROGRAM PRODUCT
(47) 26.07.2023	(47) 26.07.2023	FOR TRACKING FACE PORTION
(22) 25.01.2018	(87) EP2017060532	(73) Nokia Technologies Oy
(54) METHOD, COMPUTING APPARATUS	09.11.2017	(72) MISHRA, Pranav
AND SYSTEM FOR MEASURING AN	(22) 03.05.2017	JO, Chang-Yeon
X-RAY RECORDING OF A MEDICAL	(54) NUCLEOLAR STRUCTURE	MUNINDER, Veldandi
EXAMINATION AREA	EVALUATION AND MANIPULATION	GOVINDARAO, Krishna
(73) Raylytic GmbH	(73) Université Libre de Bruxelles	(31) 1769CH2010
(72) Dreischarf, Marcel	(72) LAFONTAINE, Denis	(32) 23.06.2010
Trautwein, Frank Thilo	PARISOT, Pascaline	(33) India
(31) 102017201164	DE VLEESCHOUWER, Christophe	(51) G06T 7/246
(32) 25.01.2017	NICOLAS, Emilien	G06V 10/764
(33) Germany	(31) 16168087	G06V 20/56
(51) G06T 5/00	(32) 03.05.2016	G06F 18/2413
G06T 11/60	(33) European Patent Office (EPO)	(11) EP3723046
(11) EP3839879	(51) G06T 7/00	(21) EP18894813.7
(21) EP20859023.2	G06V 10/94	(47) 26.07.2023
(47) 26.07.2023	(11) EP3161788	(87) CN2018125157
(87) CN2020087231	(21) EP15741665.2	04.07.2019
04.03.2021	(47) 26.07.2023	(22) 29.12.2018

(54) TARGET TRACKING METHOD AND DEVICE	(51) G06T 7/70	(73) CANON KABUSHIKI KAISHA
(73) HUAWEI TECHNOLOGIES CO., LTD.	(11) EP3896655	(72) HAYASHI, Masayuki
(72) QIAN, Li	(21) EP20208271.5	TAKEMOTO, Kazuki
LIU, Jianzhuang	(47) 26.07.2023	(31) 2018182093
LI, Zhigang	(22) 18.11.2020	(32) 27.09.2018
(31) 201811572062	(54) AUGMENTED REALITY (AR) DEVICE	(33) Japan
201711479274	AND METHOD OF PREDICTING POSE	(51) G06T 19/00
(32) 21.12.2018	THEREIN	G06T 19/20
29.12.2017	(73) Korea University Research and Business	(11) EP2541501
(33) China	Foundation	(21) EP12170176.7
China	Samsung Electronics Co., Ltd.	(47) 26.07.2023
(51) G06T 7/292	(72) LEE, Hongseok	(22) 31.05.2012
G08B 5/00	SULL, Sanghoon	(54) Shape data generation method and
(11) EP3387625	JEON, Myungjae	apparatus
(21) EP16873664.3	SUNG, Geeyoung	(73) FUJITSU LIMITED
(47) 26.07.2023	KIM, Yuntae	The University of Tokyo
(87) US2016065100	(31) 20200046268	(72) Hisada, Toshiaki
15.06.2017	(32) 16.04.2020	Iwamura, Takashi
(22) 06.12.2016	(33) Korea (Republic)	Hatanaka, Kohei
(54) OCCUPANCY DETECTION	(51) G06T 13/20	Kadooka, Yoshimasa
(73) Signify Holding B.V.	G06T 15/20	Washio, Takumi
(72) WALMA, Kenneth, Dale	G06T 17/00	Sugiura, Seiryu
(31) 201562264132 P	G06T 19/20	Okada, Jun-ichi
(32) 07.12.2015	G06T 7/33	(31) 2011147078
(33) United States of America	(11) EP3414744	(32) 01.07.2011
(51) G06T 7/30	(21) EP17750602.9	(33) Japan
G06T 5/00	(47) 26.07.2023	(51) G06T 19/20
G06T 5/50	(87) US2017016633	(11) EP2960870
(11) EP3686845	17.08.2017	(21) EP15173296.3
(21) EP18866515.2	(22) 06.02.2017	(47) 26.07.2023
(47) 26.07.2023	(54) SYNCHRONIZATION AND ANIMATION	(22) 23.06.2015
(87) CN2018109951	OF VIEWS SHOWING DIGITAL 3D	(54) A VISUALIZATION METHOD FOR A
18.04.2019	MODELS OF TEETH	HUMAN SKELETON FROM A MEDICAL
(22) 12.10.2018	(73) 3M Innovative Properties Company	SCAN
(54) IMAGE PROCESSING METHOD AND	(72) CRUIKSHANK, Matthew R.	(73) Siemens Healthcare GmbH
DEVICE AND APPARATUS	SOMASUNDARAM, Guruprasad	(72) KRETSCHMER, Jan
(73) Huawei Technologies Co., Ltd.	MA, Judy J.	LAY, Nathan
(72) WANG, Yinting	RIBNICK, Evan J.	ZHOU, Shaohua Kevin
ZHANG, Xi	LABAHN, Lindsay L.	(31) 201514706160
HU, Biying	(31) 201615042424	201462018083 P
(31) 201710959936	(32) 12.02.2016	(32) 07.05.2015
201710954301	(33) United States of America	27.06.2014
(32) 16.10.2017	(51) G06T 19/00	(33) United States of America
13.10.2017	(11) EP3282427	United States of America
(33) China	(21) EP17186006.7	(51) G06V 10/143
China	(47) 26.07.2023	G06V 40/13
(51) G06T 7/33	(22) 11.08.2017	G06V 40/12
(11) EP3384428	(54) COMPOSING AN ANIMATION SCENE	G06V 40/70
(21) EP16871666.0	IN A COMPUTER-GENERATED	(11) EP3799785
(47) 26.07.2023	ANIMATION	(21) EP19929718.5
(87) US2016064816	(73) DreamWorks Animation LLC	(47) 26.07.2023
08.06.2017	(72) WALTERS, Brian R.	(87) CN2019088028
(22) 02.12.2016	(31) 201715674361	26.11.2020
(54) KEYPOINT-BASED POINT-PAIR-	201662374647 P	(22) 22.05.2019
FEATURE FOR SCALABLE	(32) 10.08.2017	(54) METHOD FOR BIOMETRIC
AUTOMATIC GLOBAL REGISTRATION	12.08.2016	RECOGNITION, FINGERPRINT
OF LARGE RGB-D SCANS	(33) United States of America	RECOGNITION APPARATUS, AND
(73) Autodesk, Inc.	United States of America	ELECTRONIC DEVICE
(72) PRECIOSO, Frederic	(51) G06T 19/00	(73) SHENZHEN GOODIX TECHNOLOGY
ROBERT, Luc Franck	G06T 7/00	CO., LTD.
NOUTARY, Yann	(11) EP3629302	(72) WANG, Bingwen
LINGRAND, Diane	(21) EP19199496.1	LI, Shunzhan
GROS, Nicolas	(47) 26.07.2023	(51) G06V 10/764
MALLEUS, Lucas	(22) 25.09.2019	G06V 10/82
(31) 201562263476 P	(54) INFORMATION PROCESSING	G06V 20/69
(32) 04.12.2015	APPARATUS, INFORMATION	(11) EP3792828
(33) United States of America	PROCESSING METHOD, AND	(21) EP20196364.2
	STORAGE MEDIUM	(47) 26.07.2023

(22) 16.09.2020	BODY, INFORMATION PROCESSING	(31) 201815941980
(54) METHODS AND SYSTEMS FOR AUTOMATED ASSESSMENT OF SPERMATOGENESIS	METHOD, AND COMPUTER PROGRAM PRODUCT	(32) 30.03.2018
(73) Airamatrix Private Limited	(73) Ricoh Company, Ltd.	(33) United States of America
(72) Samanta, Pranab	(72) KIMURA, Sukehiro	(51) G06V 40/19
Rohit, Rohit	OKADA, Daisuke	G06F 3/01
(31) 201921037223	YOSHIDA, Jun	A61B 3/113
(32) 16.09.2019	SUZUKI, Tabito	(11) EP3438882
(33) India	KUBOZONO, Hiroki	(21) EP18189000.5
(51) G06V 10/774	YAMADA, Yuu	(47) 26.07.2023
G06V 10/82	KIDA, Shintaroh	(22) 12.12.2016
G01N 33/46	OHBAYASHI, Yohichiroh	(54) EYE GESTURE TRACKING
(11) EP3798908	(31) 2017171243	(73) Artlux Inc.
(21) EP20196294.1	2016232556	(72) CHEN, Shu-Lu
(47) 26.07.2023	(32) 06.09.2017	LIU, Han-Din
(22) 15.09.2020	30.11.2016	CHEN, Chien-Lung
(54) COMPUTER-IMPLEMENTED	(33) Japan	NA, Yun-Chung
METHOD FOR TRAINING OR USING	Japan	(31) 201615359460
A SOFTWARE INFRASTRUCTURE	(51) G06V 20/58	201615228282
BASED ON MACHINE-LEARNING	(11) EP3774500	201662363179 P
TECHNIQUES	(21) EP19716114.4	201562271386 P
(73) Microtec S.r.l.	(47) 26.07.2023	(32) 22.11.2016
(72) BOSCHETTO, Davide	(87) EP2019058307	04.08.2016
Giudiceandrea, Federico	10.10.2019	15.07.2016
URSELLA, Enrico	(22) 02.04.2019	28.12.2015
(31) 201900017138	(54) METHOD FOR OBSTACLE	(33) United States of America
(32) 24.09.2019	IDENTIFICATION	United States of America
(33) Italy	(73) IEE International Electronics &	United States of America
(51) G06V 20/20	Engineering S.A.	United States of America
G06T 7/20	(72) LARSEN, Peter	(51) G07C 5/00
(11) EP4064120	(31) 100761	G07C 5/08
(21) EP21164888.6	(32) 03.04.2018	(11) EP3588452
(47) 26.07.2023	(33) Luxembourg	(21) EP19193205.2
(22) 25.03.2021	(51) G06V 20/64	(47) 26.07.2023
(54) METHOD FOR DETERMINING IMAGES	G06V 40/16	(22) 03.06.2013
PLAUSIBLE TO HAVE A FALSE	G06V 40/60	(54) VIN BASED ACCELEROMETER
NEGATIVE OBJECT DETECTION	G06T 17/20	THRESHOLD
(73) Axis AB	G06T 7/55	(73) GEOTAB Inc.
(72) Molin, Simon	(11) EP3274916	(72) Cawse, Neil Charles
Grundström, Jakob	(21) EP16718537.0	(31) 201213507085
Ljungqvist, Martin	(47) 26.07.2023	(32) 04.06.2012
Colliander, Christian	(87) US2016024325	(33) United States of America
(51) G06V 20/56	06.10.2016	(51) G07C 9/00
(11) EP3343434	(22) 25.03.2016	B60R 25/20
(21) EP17177305.4	(54) AUTOMATED THREE DIMENSIONAL	(11) EP3803810
(47) 26.07.2023	MODEL GENERATION	(21) EP19742831.1
(22) 22.06.2017	(73) Snap Inc.	(47) 26.07.2023
(54) METHOD FOR GENERATING A LANE	(72) EVANS, Michael John	(87) FR2019051214
DEPARTURE WARNING IN A VEHICLE,	MCPHEE, Andrew James	05.12.2019
RELATED SYSTEM AND COMPUTER	HARE, Samuel Edward	(22) 24.05.2019
PROGRAM PRODUCT	CHARLTON, Ebony James	(54) METHOD OF VERIFYING OWNERSHIP
(73) STMicroelectronics S.r.l.	(31) 201615080367	OF A VEHICLE BY SYNCHRONIZATION
(72) GUARNERI, Ms. Nunziata Ivana	201562139009 P	OF TIME COUNTERS
BRUNA, Mr. Arcangelo Ranieri	(32) 24.03.2016	(73) PSA Automobiles SA
(31) 201600132670	27.03.2015	(72) PATUREAU MIRAND, Sylvain
(32) 30.12.2016	(33) United States of America	REBOUL, Noe
(33) Italy	United States of America	(31) 1854666
(51) G06V 20/58	(51) G06V 40/18	(32) 31.05.2018
(11) EP3549056	G06F 3/01	(33) France
(21) EP17804000.2	(11) EP3547216	(51) G07C 9/00
(47) 26.07.2023	(21) EP19165766.7	B60R 25/25
(87) JP2017039780	(47) 26.07.2023	(11) EP3547270
07.06.2018	(22) 28.03.2019	(21) EP19165675.0
(22) 02.11.2017	(54) DEEP LEARNING FOR THREE	(47) 26.07.2023
(54) INFORMATION PROCESSING DEVICE,	DIMENSIONAL (3D) GAZE	(22) 28.03.2019
IMAGING DEVICE, APPARATUS	PREDICTION	(54) METHOD FOR VERIFYING A
CONTROL SYSTEM, MOVABLE	(73) Tobii AB	BIOMETRIC AUTHENTICATION
	(72) LINDÉN, Erik	(73) Idemia Identity & Security France
		(72) SOUMAH, Christophe

PORTERET, Cyril	(73) FUJIFILM Business Innovation Corp.	(33) Germany
(31) 1852739	(72) ITO Kensuke	(51) G07F 7/06
(32) 29.03.2018	(31) 2015225265	(11) EP3557541
(33) France	(32) 18.11.2015	(21) EP19163376.7
(51) G07C 9/00	(33) Japan	(47) 26.07.2023
E05B 47/02	(51) G07D 7/00	(22) 18.03.2019
E05B 63/00	G07D 7/1205	(54) BOTTLE POSITIONER, REVERSE
(11) EP3349192	(11) EP3746992	VENDING MACHINE AND ASSEMBLY
(21) EP18151719.4	(21) EP19702192.6	(73) Sielaff GmbH & Co. KG Automatenbau
(47) 26.07.2023	(47) 26.07.2023	Herrieden
(22) 15.01.2018	(87) EP2019051023	(72) HUFFER, Thomas
(54) MODULE, METHOD AND	08.08.2019	(31) 102018208581
CONTROLLER FOR CONTROLLING A	(22) 16.01.2019	102018208575
LOCK	(54) METHOD FOR CHECKING THE	102018205834
(73) Loqed Holding B.V.	AUTHENTICITY AND/OR INTEGRITY	(32) 30.05.2018
(72) Van Oorschot, Jeroen Lennard	OF A SECURITY DOCUMENT	30.05.2018
Van den Oord, Petrus Robinus	HAVING A PRINTED SECURITY	17.04.2018
(31) 1042227	FEATURE, SECURITY FEATURE AND	(33) Germany
(32) 13.01.2017	ARRANGEMENT FOR VERIFICATION	Germany
(33) Netherlands	(73) Bundesdruckerei GmbH	Germany
(51) G07C 11/00	(72) HORSCH, Julian	(51) G07F 13/10
G06Q 10/02	KULIKOVSKY, Lazar	G07F 13/06
(11) EP3149712	PAESCHKE, Manfred	G07F 11/16
(21) EP15728092.6	FISCHER, Jörg	(11) EP3576057
(47) 26.07.2023	FRITZE, Frank	(21) EP19175202.1
(87) GB2015051607	WESSEL, Sascha	(47) 26.07.2023
10.12.2015	HILLER, Matthias	(22) 17.05.2019
(22) 02.06.2015	(31) 102018102015	(54) HIGHLY VERSATILE DEVICE FOR THE
(54) QUEUING SYSTEM	(32) 30.01.2018	TRANSLATION OF CUPS AND THE
(73) accesso Technology Group Plc	(33) Germany	LIKE
(72) MILLER, Gary Richard	(51) G07D 7/12	(73) Bianchi Industry S.p.a.
BARNABY, Christopher Simon Peter	G07D 7/121	(72) ZAVATTI, Marco
FRANCIS, Ian Michael	G07D 7/128	(31) 201800005931
GALLEY, Christopher Simon	G07D 7/20	(32) 01.06.2018
(31) 201409764	(11) EP2950279	(33) Italy
(32) 02.06.2014	(21) EP15164623.9	(51) G07F 17/32
(33) United Kingdom	(47) 26.07.2023	G06Q 20/04
(51) G07D 3/02	(22) 22.04.2015	G07F 17/34
G07D 3/12	(54) CURRENCY VALIDATION	G07F 17/42
G07D 9/00	(73) NCR Corporation	(11) EP3516635
(11) EP3806048	(72) Opay, John	(21) EP17718324.1
(21) EP20198573.6	Collins, Donald	(47) 26.07.2023
(47) 26.07.2023	Amada, Janry	(87) US2017026717
(22) 27.09.2020	Charpentier, Peter	29.03.2018
(54) COIN DELIVERY DEVICE AND COIN	(31) 201414289811	(22) 07.04.2017
PROCESSING DEVICE	(32) 29.05.2014	(54) BILL VALIDATION AND CASH
(73) Asahi Seiko Co., Ltd.	(33) United States of America	DISPENSING DEVICE, SYSTEM AND
(72) UMEDA, Masayoshi	(51) G07D 7/1205	METHOD FOR USE IN A CASINO
(31) 2020090503	G07D 7/20	CONTEXT
2019184327	G07D 7/202	(73) JCM American Corporation
(32) 25.05.2020	(11) EP3782136	(72) NGUYEN, Mike
07.10.2019	(21) EP19722517.0	ADAMS, Mark
(33) Japan	(47) 26.07.2023	KUBAJAK, David
Japan	(87) EP2019059635	(31) 201662398456 P
(51) G07D 5/02	24.10.2019	(32) 22.09.2016
A61J 3/06	(22) 15.04.2019	(33) United States of America
G01N 21/85	(54) METHOD FOR THE VERIFICATION OF	(51) G07G 1/00
G16H 20/13	A LUMINESCENT-MATERIAL-BASED	A47F 9/04
(11) EP3379500	SECURITY FEATURE	(11) EP2800075
(21) EP16865955.5	(73) Bundesdruckerei GmbH	(21) EP14157109.1
(47) 26.07.2023	(72) PAESCHKE, Manfred	(47) 26.07.2023
(87) JP2016062741	FISCHER, Jörg	(22) 27.02.2014
26.05.2017	KOMAROV, Ilya	(54) SCANNED ITEM DISTRIBUTION
(22) 22.04.2016	STARICK, Detlef	(73) NCR Corporation
(54) DATA ACQUISITION DEVICE,	KULIKOVSKY, Lazar	(72) Egan, Gregory
PRINTING DEVICE, AUTHENTICITY	FRITZE, Frank	Allard, John
DETERMINATION DEVICE, METHOD,	(31) 102018109142	Whiteside, William
AND PROGRAM	(32) 17.04.2018	Edwards, Thomas

Tyndall, John	201662421474 P	(33) United States of America
Perrucci, Levino	(32) 13.11.2017	(51) G08C 15/00
Johnson, Mark	14.11.2016	G06Q 50/10
(31) 201313874097	(33) United States of America	H04M 11/00
(32) 30.04.2013	United States of America	H04Q 9/00
(33) United States of America	(51) G08B 13/24	(11) EP3664055
(51) G08B 13/16	G08B 29/26	(21) EP18841007.0
G08B 29/18	(11) EP3896665	(47) 26.07.2023
(11) EP3791370	(21) EP21167477.5	(87) JP2018023419
(21) EP19723362.0	(47) 26.07.2023	07.02.2019
(47) 26.07.2023	(22) 08.04.2021	(22) 20.06.2018
(87) EP2019061699	(54) PRESENCE DETECTION DEVICE AND	(54) SENSOR MANAGEMENT UNIT,
14.11.2019	METHOD, IN PARTICULAR FOR ANTI-	METHOD, AND PROGRAM
(22) 07.05.2019	INTRUSION SYSTEMS	(73) Omron Corporation
(54) APPARATUS, METHOD, AND	(73) STMicroelectronics S.r.l.	(72) NAITO, Takeshi
COMPUTER PROGRAM FOR	(72) ALESSI, Enrico Rosario	LEE, Sangryul
ACOUSTICALLY MONITORING A	PASSANITI, Fabio	ODA Toshihiko
MONITORING REGION	(31) 202000007942	YAMATO, Tetsuji
(73) Fraunhofer-Gesellschaft zur Förderung	(32) 15.04.2020	MISUMI, Shuichi
der angewandten Forschung e.V.	(33) Italy	YAMADA, Ryota
(72) HOLLY, Steffen	(51) G08B 21/00	(31) 2017225795
RUCH, Reto	(11) EP3201890	2017149190
KÖRBER, Yvette	(21) EP15846155.8	(32) 24.11.2017
ABESSER, Jakob	(47) 26.07.2023	01.08.2017
LUKASHEVICH, Hanna	(87) US2015053977	(33) Japan
(31) 102018211758	07.04.2016	Japan
102018207084	(22) 05.10.2015	(51) G08C 17/02
(32) 13.07.2018	(54) METHOD, SYSTEM, AND APPARATUS	(11) EP3591635
07.05.2018	TO PREVENT ARC FAULTS IN	(21) EP19183056.1
(33) Germany	ELECTRICAL CONNECTIVITY	(47) 26.07.2023
Germany	(73) Management Sciences, Inc.	(22) 27.06.2019
(51) G08B 13/196	(72) BLEMEL, Kenneth, D.	(54) IMPROVEMENT OF THE CONTROL OF
G08B 15/00	BLEMEL, Kenneth, G.	ONE OR MORE DEVICES
(11) EP3682429	BLEMEL, Peter, A.	(73) ORANGE
(21) EP18793050.8	PETERSON, Todd, F.	(72) OTTOGALLI, François-Gaël
(47) 26.07.2023	(31) 201462071789 P	ROUDET, Franck
(87) US2018050960	(32) 03.10.2014	NICOL, Rozenn
21.03.2019	(33) United States of America	RIERA, Julien
(22) 13.09.2018	(51) G08B 21/24	(31) 1856099
(54) SYSTEM AND METHOD FOR GATE	(11) EP3360119	(32) 02.07.2018
MONITORING DURING DEPARTURE	(21) EP16781333.6	(33) France
OR ARRIVAL OF AN AUTONOMOUS	(47) 26.07.2023	(51) G08G 1/01
VEHICLE	(87) EP2016073786	G08G 1/095
(73) Alarm.com Incorporated	13.04.2017	(11) EP3496064
(72) CORRENTI, Karen	(22) 05.10.2016	(21) EP18206610.0
CORRENTI, Matthew Daniel	(54) A HYGIENE NUDGING SYSTEM	(47) 26.07.2023
(31) 201762558080 P	(73) Zurface Group ApS	(22) 15.11.2018
(32) 13.09.2017	(72) CHRISTENSEN, Jarl	(54) METHOD AND APPARATUS
(33) United States of America	(31) 15188334	FOR PUBLISHING ROAD EVENT
(51) G08B 13/196	(32) 05.10.2015	MESSAGES
G08B 25/00	(33) European Patent Office (EPO)	(73) HERE Global B.V.
H04L 67/025	(51) G08B 29/14	(72) Stenneth,, Leon
H04N 7/18	G06Q 10/0631	Camp,, Robert
H04L 67/141	G06Q 10/10	(31) 201715815288
G08B 21/04	G06Q 50/16	(32) 16.11.2017
H04L 67/50	(11) EP3457373	(33) United States of America
H04M 3/56	(21) EP18194955.3	(51) G08G 1/04
H04L 67/12	(47) 26.07.2023	G08G 1/015
H04M 11/02	(22) 17.09.2018	G06T 7/00
H04M 11/04	(54) METHOD AND SYSTEM FOR SERVICE	G08G 1/052
(11) EP3886066	VERIFICATION USING WIFI SIGNAL	(11) EP3224820
(21) EP21174272.1	STRENGTH MAPPING	(21) EP15801804.4
(47) 26.07.2023	(73) Tyco Fire & Security GmbH	(47) 26.07.2023
(22) 14.11.2017	(72) Brown, Tyler H	(87) EP2015077865
(54) DOORBELL CALL CENTER	Norton, Alexandra K	02.06.2016
(73) Alarm.com Incorporated	Scanu, Alessandro	(22) 27.11.2015
(72) KERZNER, Daniel	(31) 201715707148	(54) DOUBLE STEREOSCOPIC SENSOR
(31) 201715811141	(32) 18.09.2017	(73) Kapsch TrafficCom AB

(72) BOSTRÖM, Göran CRONA, Björn	(54) NON-VOLATILE MEMORY BASED PHYSICALLY UNCLONABLE FUNCTION WITH RANDOM NUMBER GENERATOR	(33) China
(31) 14195254	(73) MACRONIX INTERNATIONAL CO., LTD.	(51) G09G 3/20
(32) 27.11.2014	(72) HUANG, Shih-Chang	G09G 3/32
(33) European Patent Office (EPO)	HUNG, Chun-Hsiung	(11) EP3185236
(51) G08G 5/00	CHEN, Ken-Hui	(21) EP14884262.8
G01C 23/00	CHANG, Kuen-Long	(47) 26.07.2023
G01S 19/45	(31) 201715857341	(87) CN2014089586
G06Q 10/08	201762528460 P	25.02.2016
B64C 39/02	201715601582	(22) 27.10.2014
G08G 5/02	201762509204 P	(54) GOA CIRCUIT AND DRIVE METHOD THEREOF, AND DISPLAY DEVICE
B64D 1/02	(32) 28.12.2017	(73) BOE Technology Group Co., Ltd.
G05D 1/06	04.07.2017	(72) LI, Wenbo
G06V 20/17	22.05.2017	ZHANG, Yuanbo
G06V 20/10	22.05.2017	(31) 201410406028
(11) EP3357052	(33) United States of America	(32) 18.08.2014
(21) EP16861697.7	United States of America	(33) China
(47) 26.07.2023	United States of America	(51) G09G 3/20
(87) IB2016056363	United States of America	G09G 3/3225
11.05.2017	United States of America	(11) EP3499490
(22) 23.10.2016	(51) G09F 13/18	(21) EP18210419.0
(54) COOPERATIVE SYSTEM AND METHOD FOR PRECISE AUTONOMOUS DELIVERY	G09F 13/04	(47) 26.07.2023
(73) Uber Technologies, Inc.	F21V 8/00	(22) 05.12.2018
(72) ZWILLINGER, Daniel	(11) EP3602533	(54) DISPLAY DEVICE
COGLIANDRO, John	(21) EP18714205.4	(73) LG Display Co., Ltd.
HETTICH, Ronald	(47) 26.07.2023	(72) LIM, SangHyun
(31) 201514934025	(87) EP2018057407	(31) 20170170343
(32) 05.11.2015	04.10.2018	(32) 12.12.2017
(33) United States of America	(22) 23.03.2018	(33) Korea (Republic)
(51) G09B 19/00	(54) ILLUMINANT	(51) G09G 3/32
(11) EP3152748	(73) Singulus Technologies AG	(11) EP3632096
(21) EP15756696.9	(72) KRUSE, Kilian	(21) EP17914555.2
(47) 26.07.2023	(31) 102017003036	(47) 26.07.2023
(87) IL2015050571	(32) 29.03.2017	(87) CN2017089775
10.12.2015	(33) Germany	27.12.2018
(22) 04.06.2015	(51) G09F 21/04	(22) 23.06.2017
(54) PHYSICAL TRAINING SYSTEM AND METHODS USEFUL IN CONJUNCTION THEREWITH	B62B 3/14	(54) IMAGE DISPLAY APPARATUS AND CONTROL METHOD THEREOF
(73) Ludus Materials Ltd.	G09F 23/06	(73) Huawei Technologies Co., Ltd.
(72) YACHIN, Nir	(11) EP3552198	(72) OKAMOTO, Tadayuki
(31) 201462089361 P	(21) EP18707758.1	(51) G09G 3/34
201462008027 P	(47) 26.07.2023	(11) EP3350798
(32) 09.12.2014	(87) IB2018050840	(21) EP16847345.2
05.06.2014	23.08.2018	(47) 26.07.2023
(33) United States of America	(22) 12.02.2018	(87) US2016052032
United States of America	(54) AN ELECTRONIC DISPLAY AND A DISPLAY MODULE, ESPECIALLY FOR TROLLEYS	23.03.2017
(51) G09B 23/30	(73) Solution SCA Spolka Akcyjna	(22) 16.09.2016
(11) EP3491635	(72) URBAN, Piotr	(54) APPARATUS AND METHODS FOR DRIVING DISPLAYS
(21) EP16753848.7	SOBCZAK, Piotr	(73) E Ink Corporation
(47) 26.07.2023	(31) 42053117	(72) SZYMBORSKI, Zdzislaw Jan
(87) EP2016068217	(32) 17.02.2017	AMUNDSON, Karl Raymond
01.02.2018	(33) Poland	CROUNSE, Kenneth R.
(22) 29.07.2016	(51) G09G 3/20	SIM, Teck Ping
(54) METHOD FOR GENERATING REPRODUCIBLE DEFINED BONE FRACTURES	G06F 1/3234	(31) 201662370703 P
(73) Rimasys GmbH	G09G 5/36	201615014236
(72) HOLZ, Robert	(11) EP3786934	201562261104 P
EBINGER, Marc	(21) EP19215184.3	201562219606 P
(51) G09C 1/00	(47) 26.07.2023	(32) 03.08.2016
H04L 9/08	(22) 11.12.2019	03.02.2016
(11) EP3407335	(54) SCREEN-OFF DISPLAY METHOD AND APPARATUS	30.11.2015
(21) EP18151137.9	(73) Beijing Xiaomi Mobile Software Co., Ltd.	16.09.2015
(47) 26.07.2023	(72) ZHANG, Yuan	(33) United States of America
(22) 11.01.2018	ZHONG, Guilin	United States of America
	(31) 201910809867	United States of America
	(32) 29.08.2019	United States of America
		(51) G09G 5/12

G09G 5/18	(72) MATEOS SOLE, Antonio	(87) FR2014052617
G06F 3/14	CENGARLE, Giulio	23.04.2015
(11) EP3553770	(31) 201630097	(22) 14.10.2014
(21) EP19165580.2	201662314498 P	(54) SOUND SPATIALISATION WITH
(47) 26.07.2023	16163522	REVERBERATION, OPTIMISED IN
(22) 27.03.2019	(32) 27.01.2016	TERMS OF COMPLEXITY
(54) SYNCHRONIZING VIDEO OUTPUTS	29.03.2016	(73) ORANGE
TOWARDS A SINGLE DISPLAY	01.04.2016	(72) PALLONE, Grégory
FREQUENCY	(33) Spain	EMERIT, Marc
(73) CAE Inc.	United States of America	(31) 1360185
(72) DION, Jean-Sébastien	European Patent Office (EPO)	(32) 18.10.2013
BERUBE, Samuel	(51) G10K 11/165	(33) France
(31) 201815941929	E01B 19/00	(51) G10L 13/033
(32) 30.03.2018	(11) EP3706115	G10L 15/22
(33) United States of America	(21) EP19161670.5	G10L 21/0364
(51) G09G 5/36	(47) 26.07.2023	(11) EP3631792
G06F 3/14	(22) 08.03.2019	(21) EP18729522.5
G01R 31/00	(54) A NOISE DAMPER AND A METHOD	(47) 26.07.2023
G06F 11/00	FOR PRODUCING A NOISE DAMPER	(87) US2018033113
(11) EP4057271	(73) Trelleborg Retford Limited	29.11.2018
(21) EP22158019.4	(72) Williams, Andrew	(22) 17.05.2018
(47) 26.07.2023	Brindle, Philip Wayne	(54) DYNAMIC TEXT-TO-SPEECH
(22) 22.02.2022	Daudia, Rajiv	RESPONSE FROM A SMART
(54) METHOD FOR TESTING A PORTABLE	(51) G10K 11/168	SPEAKER
ELECTRONIC DEVICE	G10K 11/172	(73) Bose Corporation
(73) Airbus Helicopters	F02C 7/045	(72) CHEUNG, Shiufun
(72) CARLE, Cyrille	(11) EP3678128	FREEMAN, Eric, J.
HERROU, Anthony	(21) EP19212440.2	SONG, Zukui
BAILLY, Stéphane	(47) 26.07.2023	ALDERS, Jamie
(31) 2102321	(22) 29.11.2019	(31) 201715607101
(32) 10.03.2021	(54) ACOUSTIC LINER AND METHOD OF	(32) 26.05.2017
(33) France	FORMING AN ACOUSTIC LINER	(33) United States of America
(51) G10K 9/122	(73) Rohr, Inc.	(51) G10L 15/06
G10K 9/13	(72) KIM, Jeong-Woo	G10L 15/16
H04R 17/00	GANGLOFF, John J.	G10L 15/14
G03F 7/00	GROLMAN, Danielle L.	G10L 15/02
(11) EP3614372	REIMANN, Craig Aaron	G10L 15/04
(21) EP19171078.9	CHIOU, Song	(11) EP3594940
(47) 26.07.2023	FILBURN, Thomas P.	(21) EP18764634.4
(22) 25.04.2019	MENDOZA, Jeffrey M.	(47) 26.07.2023
(54) METHOD FOR MANUFACTURING AN	WALSH, Peter J.	(87) CN2018075595
AIR PULSE GENERATING ELEMENT	(31) 201916240360	13.09.2018
(73) Xmems Labs, Inc.	(32) 04.01.2019	(22) 07.02.2018
(72) CHANG, Chun-I	(33) United States of America	(54) TRAINING METHOD FOR VOICE
HONG, David	(51) G10K 11/178	DATA SET, COMPUTER DEVICE AND
LO, Chiung C.	(11) EP3844743	COMPUTER READABLE STORAGE
(31) 201916380988	(21) EP19769308.8	MEDIUM
201862726400 P	(47) 26.07.2023	(73) Tencent Technology (Shenzhen)
201862726319 P	(87) US2019049038	Company Limited
201862719694 P	05.03.2020	(72) SUN, Tao
(32) 10.04.2019	(22) 30.08.2019	ZHANG, Li
03.09.2018	(54) SYSTEMS AND METHODS FOR	ZHANG, Xiaoming
03.09.2018	REDUCING ACOUSTIC ARTIFACTS	KANG, Yueteng
19.08.2018	IN AN ADAPTIVE FEEDFORWARD	(31) 201710143053
(33) United States of America	CONTROL SYSTEM	(32) 10.03.2017
United States of America	(73) Bose Corporation	(33) China
United States of America	(72) HEIN, Travis L.	(51) G10L 15/22
United States of America	FARAHBAKHS, Siamak	(11) EP3493200
(51) G10K 11/162	(31) 201816119745	(21) EP17204623.7
(11) EP3408850	(32) 31.08.2018	(47) 26.07.2023
(21) EP17701710.0	(33) United States of America	(22) 30.11.2017
(47) 26.07.2023	(51) G10K 15/12	(54) VOICE-CONTROLLABLE DEVICE AND
(87) EP2017051769	H04S 1/00	METHOD OF VOICE CONTROL
03.08.2017	H04S 3/00	(73) Vestel Elektronik Sanayi ve Ticaret A.S.
(22) 27.01.2017	H04S 7/00	(72) ÇUBUKÇU, Baran
(54) SYSTEM AND METHOD FOR	(11) EP3058564	(51) G10L 15/22
ABSORBING SOUND WAVES	(21) EP14796814.3	G06F 3/16
(73) Dolby International AB	(47) 26.07.2023	H04M 3/493

H04M 3/527	PA201770428	G10L 25/90
G10L 15/18	PA201770427	H04R 3/00
G10L 17/00	201715679595	G10L 21/0216
(11) EP3895161	201762505546 P	(11) EP3734599
(21) EP19709271.1	(32) 01.06.2017	(21) EP18894296.5
(47) 26.07.2023	01.06.2017	(47) 26.07.2023
(87) US2019018750	01.06.2017	(87) CN2018091459
27.08.2020	17.08.2017	04.07.2019
(22) 20.02.2019	12.05.2017	(22) 15.06.2018
(54) UTILIZING PRE-EVENT AND POST-EVENT INPUT STREAMS TO ENGAGE AN AUTOMATED ASSISTANT	(33) Denmark	(54) VOICE DENOISING
(73) Google LLC	Denmark	(73) IFLYTEK CO., LTD.
(72) ALTHAUS, Jan	Denmark	(72) MA, Feng
CASADO, Diego Melendo	United States of America	WANG, Zhiguo
HUME, Tom	United States of America	WANG, Haikun
SHARIFI, Matthew	(51) G10L 19/008	(31) 201711458315
ROM, Mohamad Hassan	G10L 19/22	(32) 28.12.2017
(51) G10L 15/22	H04S 3/00	(33) China
G10L 15/04	H04S 7/00	(51) G10L 21/0208
G06F 3/048	(11) EP3540732	H04R 3/00
H04R 1/08	(21) EP18209379.9	G10L 21/0272
G06F 3/16	(47) 26.07.2023	G10L 25/51
G10L 15/08	(22) 29.10.2015	G10L 25/78
G10L 15/30	(54) PARAMETRIC DECODING OF MULTICHANNEL AUDIO SIGNALS	H04R 1/40
(11) EP3552201	(73) Dolby International AB	G10L 15/08
(21) EP18772601.3	(72) KLEJSA, Janusz	G10L 21/0216
(47) 26.07.2023	PURNHAGEN, Heiko	(11) EP3574500
(87) KR2018002721	LEHTONEN, Heidi-Maria	(21) EP18708775.4
27.09.2018	(31) 201562128425 P	(47) 26.07.2023
(22) 07.03.2018	201462073642 P	(87) US2018015524
(54) ELECTRONIC DEVICE AND CONTROLLING METHOD THEREOF	(32) 04.03.2015	02.08.2018
(73) Samsung Electronics Co., Ltd.	31.10.2014	(22) 26.01.2018
(72) LEE, Min-ho	(33) United States of America	(54) AUDIO DEVICE FILTER MODIFICATION
KIM, Min-seok	United States of America	(73) Bose Corporation
(31) 20170036242	(51) G10L 19/16	(72) MOGHIMI, Amir
(32) 22.03.2017	G10L 19/22	CRIST, David
(33) Korea (Republic)	(11) EP3822969	BERARDI, William
(51) G10L 15/22	(21) EP20206797.1	(31) 201715418687
G10L 15/065	(47) 26.07.2023	(32) 28.01.2017
G10L 15/197	(22) 10.01.2018	(33) United States of America
G10L 15/183	(54) AUDIO DECODER, AUDIO ENCODER, METHOD FOR PROVIDING A DECODED AUDIO SIGNAL, METHOD FOR PROVIDING AN ENCODED AUDIO SIGNAL, AUDIO STREAM, AUDIO STREAM PROVIDER AND COMPUTER PROGRAM USING A STREAM IDENTIFIER	(51) G10L 21/0272
(11) EP3594941	(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	G06N 5/01
(21) EP19194784.5	(72) Hildenbrand, Matthias	G06N 7/01
(47) 26.07.2023	Neuendorf, Max	(11) EP4038609
(22) 30.11.2016	Herrmann, Bernd	(21) EP20781023.5
(54) DETERMINING DIALOG STATES FOR LANGUAGE MODELS	Rettelbach, Nikolaus	(47) 26.07.2023
(73) Google LLC	Schuster, Lukas	(87) EP2020077716
(72) MENGIBAR, Pedro J. Moreno	Felix, Matthias	08.04.2021
ALEKSIC, Petar	Hofmann, Ingo	(22) 02.10.2020
(31) 201615071651	(31) 17151083	(54) SOURCE SEPARATION
(32) 16.03.2016	17150915	(73) Technische Universität Ilmenau
(33) United States of America	(32) 11.01.2017	Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
(51) G10L 15/22	10.01.2017	(72) SCHULLER, Gerald
G10L 25/78	(33) European Patent Office (EPO)	(31) 19201575
G06F 40/35	European Patent Office (EPO)	(32) 04.10.2019
(11) EP4075426	(51) G10L 21/0208	(33) European Patent Office (EPO)
(21) EP22177870.7	G10L 25/78	(51) G10L 21/0364
(47) 26.07.2023	H04R 1/10	G10L 25/60
(22) 24.04.2018	H04R 5/033	G10L 25/18
(54) LOW-LATENCY INTELLIGENT AUTOMATED ASSISTANT	G10L 25/30	H03G 3/32
(73) Apple Inc.		H03G 9/02
(72) ZHANG, Hepeng		(11) EP4029018
ACERO, Alejandro		(21) EP20780446.9
(31) PA201770429		(47) 26.07.2023
		(87) US2020049933
		18.03.2021
		(22) 09.09.2020

(54) CONTEXT-AWARE VOICE INTELLIGIBILITY ENHANCEMENT	(47) 26.07.2023	(33) France
(73) DTS, Inc.	(22) 13.12.2007	(51) G11C 13/00
(72) NOH, Daekyoung	(54) MULTI-DIE MEMORY DEVICE	G11C 8/08
CHUBAREV, Pavel	(73) Rambus Inc.	(11) EP3839956
GUO, Xiaoyu	(72) BEST, Scott	(21) EP20213992.9
(31) 201962898977 P	LI, Ming	(47) 26.07.2023
(32) 11.09.2019	(31) 87006506 P	(22) 15.12.2020
(33) United States of America	(32) 14.12.2006	(54) A NON-VOLATILE MEMORY DEVICE INCLUDING A ROW DECODER WITH AN IMPROVED PULL-UP STAGE
(51) G10L 21/038	(33) United States of America	(73) STMicroelectronics S.r.l.
(11) EP3330966	(51) G11C 7/00	(72) DISEGNI, Fabio Enrico Carlo
(21) EP17206563.3	G11C 16/04	PERRONI, Maurizio Francesco
(47) 26.07.2023	G11C 16/24	TORTI, Cesare
(22) 04.02.2015	(11) EP3459080	MANFRE', Davide
(54) IMPROVED FREQUENCY BAND EXTENSION IN AN AUDIO FREQUENCY SIGNAL DECODER	(21) EP17799843.2	(31) 201900024135
(73) Koninklijke Philips N.V.	(47) 26.07.2023	(32) 16.12.2019
(72) RAGOT, Stéphane	(87) US2017029024	(33) Italy
KANIEWSKA, Magdalena	23.11.2017	(51) G11C 16/04
(31) 1450969	(22) 23.04.2017	G11C 5/02
(32) 07.02.2014	(54) FLASH MEMORY ARRAY WITH INDIVIDUAL MEMORY CELL READ, PROGRAM AND ERASE	G11C 7/10
(33) France	(73) Silicon Storage Technology, Inc.	G06N 3/04
(51) G10L 25/78	The Regents of the University of California	G06N 3/063
G06N 3/044	(72) TRAN, Hieu, Van	G11C 16/24
G06N 3/08	GUO, Xinjie	H10B 41/30
G10L 25/84	TIWARI, Vipin	G06N 3/045
G10L 25/30	STRUKOV, Dmitri	G06N 3/048
G10L 25/87	DO, Nhan	G06N 3/065
(11) EP3739582	BAYAT, Farnood Merrikh	(11) EP3665722
(21) EP20173897.8	(31) 201615374588	(21) EP18856570.9
(47) 26.07.2023	201662337751 P	(47) 26.07.2023
(22) 11.05.2020	(32) 09.12.2016	(87) US2018047438
(54) VOICE DETECTION	17.05.2016	21.03.2019
(73) Yealink (Xiamen) Network Technology Co., Ltd.	(33) United States of America	(22) 22.08.2018
(72) KANG, Yuanxun	United States of America	(54) SYSTEM AND METHOD FOR IMPLEMENTING CONFIGURABLE CONVOLUTED NEURAL NETWORKS WITH FLASH MEMORIES
FENG, Wanjian	(51) G11C 11/16	(73) Silicon Storage Technology, Inc.
FANG, Zehuang	G11C 14/00	(72) TIWARI, Vipin
(31) 201910394746	G11C 13/00	DO, Nhan
(32) 13.05.2019	(11) EP3109863	(31) 201816107282
(33) China	(21) EP16180034.7	201762558984 P
(51) G11B 20/10	(47) 26.07.2023	(32) 21.08.2018
H04N 21/40	(22) 19.02.2013	15.09.2017
H04N 21/43	(54) MEMORY CIRCUIT	(33) United States of America
H04L 12/28	(73) Japan Science and Technology Agency	United States of America
H03G 3/20	(72) YAMAMOTO, Shuichiro	(51) G11C 16/10
H04R 3/12	SHUTO, Yusuke	G11C 16/34
G06F 3/16	SUGAHARA, Satoshi	G11C 16/24
(11) EP3826013	(31) 2012114988	(11) EP3891744
(21) EP20210879.1	(32) 18.05.2012	(21) EP19920862.0
(47) 26.07.2023	(33) Japan	(47) 26.07.2023
(22) 09.10.2012	(51) G11C 13/00	(87) CN2019090275
(54) SYSTEMS, METHODS, APPARATUS, AND ARTICLES OF MANUFACTURE TO CONTROL AUDIO PLAYBACK DEVICES	(11) EP2955717	01.10.2020
(73) Sonos Inc.	(21) EP15171196.7	(22) 06.06.2019
(72) MILLINGTON, Nicholas A.J.	(47) 26.07.2023	(54) NON-VOLATILE MEMORY DEVICE AND METHOD FOR PROGRAMMING IN NON-VOLATILE MEMORY DEVICE BY APPLYING MULTIPLE BITLINE BIAS VOLTAGES
BECKHARDT, Steven	(22) 09.06.2015	(73) Yangtze Memory Technologies Co., Ltd.
WISNESKI, Craig	(54) RESISTIVE RANDOM ACCESS MEMORY DEVICE	(72) ZHANG, Chao
GRIFFITHS, Neil	(73) Altis Semiconductor	LI, Haibo
(31) 201113274059	COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES	(31) PCT/CN2019/079667
(32) 14.10.2011	(72) MOLAS, Gabriel	(32) 26.03.2019
(33) United States of America	VIANELLO, Elisa	(33) World Intellectual Property Office (WIPO)
(51) G11C 5/02	BLAISE, Philippe	(51) G11C 16/16
(11) EP3540736	DAHMANI, Faiz	
(21) EP19165834.3	(31) 1455286	
	(32) 11.06.2014	

G11C 16/10	RESISTIVE STATE CHANGES OF A	(72) Baumberger, Juri
G11C 16/34	MEMRISTOR	Contolini, Matteo
G11C 11/56	(73) University Of Southampton	Applebaum, Ted
G11C 7/22	(72) PRODROMAKIS, Themistoklis	Rutland, Timothy
(11) EP4032089	GUPTA, Isha	(31) 201514748759
(21) EP20717431.9	SERB, Alexantrou	(32) 24.06.2015
(47) 26.07.2023	(31) 201617631	(33) United States of America
(87) US2020022192	(32) 18.10.2016	(51) G16H 40/63
25.03.2021	(33) United Kingdom	(11) EP3304376
(22) 11.03.2020	(51) G16B 30/00	(21) EP16727994.2
(54) NON-VOLATILE MEMORY DEVICE	G01N 27/414	(47) 26.07.2023
WITH STORED INDEX INFORMATION	(11) EP3194945	(87) EP2016062664
(73) Silicon Storage Technology Inc.	(21) EP15841566.1	08.12.2016
(72) TIWARI, Vipin	(47) 26.07.2023	(22) 03.06.2016
QIAN, Xiaozhou	(87) US2015049935	(54) METHOD AND SYSTEM FOR
PI, Xiao Yan	24.03.2016	PROCESSING DATA STREAMS
(31) 201910875107	(22) 14.09.2015	(73) CorTec GmbH
202016813317	(54) APPARATUS AND METHOD FOR	(72) RICKERT, Jörn
(32) 17.09.2019	FLUID POTENTIAL ARTIFACT	SCHÜTTLER, Martin
09.03.2020	CORRECTION IN REAGENT DELIVERY	FISCHER, Jörg
(33) China	SYSTEMS COMPRISING A SENSOR	STOLLE, Christian
United States of America	ARRAY	(31) 102015108859
(51) G11C 16/34	(73) Life Technologies Corporation	(32) 03.06.2015
G11C 16/04	(72) REARICK, Todd	(33) Germany
G11C 16/10	DONOHUE, John	(51) G16H 40/63
G06F 12/02	WONG, Chiu, Tai Andrew	G16H 20/30
G11C 11/56	(31) 201562146882 P	G16H 40/67
G11C 16/26	201462050377 P	(11) EP3058546
G11C 29/04	(32) 13.04.2015	(21) EP14869877.2
G11C 29/44	15.09.2014	(47) 26.07.2023
H01L 29/423	(33) United States of America	(87) CN2014088127
(11) EP4026126	United States of America	18.06.2015
(21) EP20768202.2	(51) G16C 20/90	(22) 08.10.2014
(47) 26.07.2023	G16C 20/70	(54) INFORMATION SHARING METHOD
(87) US2020047833	G01N 33/68	AND DEVICE
11.03.2021	G01N 27/623	(73) Tencent Technology (Shenzhen)
(22) 25.08.2020	G16C 20/20	Company Limited
(54) METHOD OF IMPROVING READ	(11) EP3570020	(72) LIN, Xiangyao
CURRENT STABILITY IN ANALOG	(21) EP17891371.1	HE, Qing
NON-VOLATILE MEMORY BY LIMITING	(47) 26.07.2023	LIU, Kai
TIME GAP BETWEEN ERASE AND	(87) JP2017040441	ZHU, Yaxuan
PROGRAM	19.07.2018	SHAN, Yi
(73) Silicon Storage Technology, Inc.	(22) 09.11.2017	LIU, Lejun
(72) MARKOV, Viktor	(54) DATA ANALYSING DEVICE AND	FAN, Liangliang
KOTOV, Alexander	PROGRAM FOR DATA ANALYSIS	WENG, Leteng
(31) 202016803418	(73) Shimadzu Corporation	(31) 201310676238
201962895458 P	(72) KATO, Teruyo	(32) 11.12.2013
(32) 27.02.2020	OGATA, Koretsugu	(33) China
03.09.2019	YAMADA, Yoshihiro	(51) G16H 40/63
(33) United States of America	TAMURA, Hiroto	G16H 20/40
United States of America	(31) 2017004843	(11) EP3335138
(51) G11C 27/00	(32) 16.01.2017	(21) EP16758002.6
A61B 5/00	(33) Japan	(47) 26.07.2023
G06N 3/049	(51) G16H 20/40	(87) US2016045113
G06N 3/065	G16H 40/20	23.02.2017
A61B 5/24	G16H 40/63	(22) 02.08.2016
G11C 13/00	G16H 70/20	(54) TOUCHLESS INTERFACE FOR A
(11) EP3529807	G16H 40/40	MEDICAL TREATMENT SYSTEM
(21) EP17787585.3	G06Q 10/0633	(73) Fresenius Medical Care Holdings, Inc.
(47) 26.07.2023	G06Q 10/0631	(72) TANENBAUM, Lee Daniel
(87) GB2017053120	(11) EP3109783	WANG, Fei
26.04.2018	(21) EP16175741.4	TARN, Jeffrey
(22) 16.10.2017	(47) 26.07.2023	(31) 201514826513
(54) METHOD AND SYSTEM FOR	(22) 22.06.2016	(32) 14.08.2015
DETECTING AN EVENT AND	(54) CONTEXT-AWARE USER INTERFACE	(33) United States of America
DETERMINE INFORMATION ABOUT	FOR INTEGRATED OPERATING ROOM	(51) G16H 50/70
IT (LIKE ITS STRENGTH) USING	(73) Storz Endoskop Produktions GmbH	G16H 10/60
	Tuttlingen	G16H 50/20

G16H 70/40	G21C 3/17	(33) United States of America
(11) EP3574505	G21C 3/32	(51) G21D 3/00
(21) EP18711396.4	(11) EP3427269	G21C 3/04
(47) 26.07.2023	(21) EP17751158.1	(11) EP3729466
(87) IB2018000129	(47) 26.07.2023	(21) EP18816160.8
02.08.2018	(87) US2017021125	(47) 26.07.2023
(22) 22.01.2018	05.10.2017	(87) EP2018085662
(54) METHOD AND SYSTEM FOR	(22) 07.03.2017	27.06.2019
PREDICTING OPTIMAL EPILEPSY	(54) FISSION PRODUCT GETTER	(22) 18.12.2018
TREATMENT REGIMES	(73) TerraPower LLC	(54) METHOD FOR DETERMINING AT
(73) UCB Biopharma SRL	(72) EICHEL, Daniel	LEAST ONE THRESHOLD VALUE
(72) AN, Sungtae	VOLLMER, James M.	OF AT LEAST ONE OPERATING
MALHOTRA, Kunal	(31) 201662305272 P	PARAMETER OF A NUCLEAR
SUN, Jimeng	(32) 08.03.2016	REACTOR, AND ASSOCIATED
ROBERTSON, Joseph	(33) United States of America	COMPUTER PROGRAM AND
HAN-BURGESS, Edward	(51) G21C 7/12	ELECTRONIC SYSTEM
CHOI, Myung	G21C 13/036	(73) Framatome
CLARK, Chris	G21C 13/067	(72) ANDRE POYAUD, Gilles
DILLEY, Cynthia	(11) EP4046169	(31) 1762391
(31) 201715415758	(21) EP19874777.6	(32) 18.12.2017
(32) 25.01.2017	(47) 26.07.2023	(33) France
(33) United States of America	(87) IB2019001451	(51) G21G 1/10
(51) G16H 80/00	22.04.2021	H05H 6/00
G06F 21/32	(22) 15.10.2019	(11) EP3682454
G16H 50/70	(54) THERMAL SLEEVE FOR A CONTROL	(21) EP18780233.5
G16H 50/20	ROD DRIVE MECHANISM AND	(47) 26.07.2023
G06F 21/31	ASSOCIATED REPLACING METHOD	(87) IB2018056826
(11) EP3425637	(73) Framatome	21.03.2019
(21) EP18176402.8	(72) DARGAUD, Remi	(22) 07.09.2018
(47) 26.07.2023	FUTIN, Emmanuel	(54) METHOD FOR OBTAINING
(22) 07.06.2018	(51) G21C 9/00	A SOLID TARGET FOR
(54) ELECTRONIC SYSTEM AND METHOD	G21C 13/02	RADIOPHARMACEUTICALS
FOR CLASSIFYING A PHYSIOLOGICAL	G21C 13/024	PRODUCTION
STATE	(11) EP3977486	(73) Istituto Nazionale di Fisica Nucleare
(73) Bundesdruckerei GmbH	(21) EP20726061.3	(72) PALMIERI, Vincenzo
(72) PAESCHKE, Manfred	(47) 26.07.2023	SKLIAROVA, Hanna
SCHNJAKIN, Maxim	(87) EP2020063267	CICORIA, Gianfranco
(31) 102017211631	03.12.2020	MARENKO, Mario
(32) 07.07.2017	(22) 13.05.2020	CISTERNINO, Sara
(33) Germany	(54) PRESSURE-CONTAINING SILO FOR	(31) 201700102990
(51) G21C 3/07	A PRESSURISED WATER REACTOR	(32) 14.09.2017
G21C 7/04	NUCLEAR POWER PLANT	(33) Italy
G21C 3/62	(73) Rolls-Royce SMR Limited	(51) H01B 1/12
G21C 3/04	(72) ROBERTSON, Daniel	D06M 15/37
G21C 9/00	(31) 201907379	C08G 61/12
G21C 21/02	(32) 24.05.2019	C09D 165/00
B32B 18/00	(33) United Kingdom	C09K 11/06
C04B 35/565	(51) G21C 9/00	(11) EP3780008
C04B 35/58	G21D 3/06	(21) EP19776490.5
C04B 35/626	H01H 50/00	(47) 26.07.2023
C04B 35/80	(11) EP3874525	(87) JP2019012558
(11) EP3685407	(21) EP19842847.6	03.10.2019
(21) EP18858829.7	(47) 26.07.2023	(22) 25.03.2019
(47) 26.07.2023	(87) US2019058506	(54) CONDUCTIVE POLYMER
(87) US2018050190	07.05.2020	CONDUCTOR, AND METHOD FOR
28.03.2019	(22) 29.10.2019	MANUFACTURING SAME
(22) 10.09.2018	(54) PASSIVE ELECTRICAL COMPONENT	(73) AI Silk Corporation
(54) HIGH TEMPERATURE CERAMIC	FOR SAFETY SYSTEM SHUTDOWN	(72) OKANO, Hideo
NUCLEAR FUEL SYSTEM FOR LIGHT	USING GAUSS' LAW OF MAGNETISM	OIKAWA, Asuka
WATER REACTORS AND LEAD FAST	(73) GE-Hitachi Nuclear Energy Americas	(31) 2018068637
REACTORS	LLC	(32) 30.03.2018
(73) Westinghouse Electric Company Llc	(72) LOEWEN, Eric P.	(33) Japan
(72) BOYLAN, Frank A.	PFEFFER, Maria E.	(51) H01B 7/00
LAHODA, Edward J.	PFEFFER, Scott L.	H01B 7/06
(31) 201715706972	WEBBER, David W.	H01B 7/282
(32) 18.09.2017	STREGE, Seth Ryan Paul	A61B 5/256
(33) United States of America	(31) 201816176618	A61B 5/00
(51) G21C 3/18	(32) 31.10.2018	A61B 5/25

A61B 5/279	(22) 20.06.2013	H05K 1/00
A61B 5/273	(54) MECHANISM FOR CONNECTING AND DISCONNECTING TWO PARTS	H05K 3/30
(11) EP3711663	(73) Inelxia Limited	H05K 5/00
(21) EP18877951.6	(72) CHAIZY, Patrick André	H05K 7/12
(47) 26.07.2023	(31) 201309452	H01G 2/04
(87) JP2018041954	201306870	H01G 2/06
23.05.2019	201300551	(11) EP3982384
(22) 13.11.2018	201300555	(21) EP20200273.9
(54) COMPOSITE WIRING, SIGNAL ACQUISITION MEMBER, AND PRODUCTION METHOD OF SAME	201300638	(47) 26.07.2023
(73) Nippon Telegraph And Telephone Corporation	201222144	(22) 06.10.2020
(72) TSUKADA, Shingo	201216514	(54) ELECTRONIC CONTROL UNIT
NAKASHIMA, Hiroshi	201210900	(73) Veoneer Passive Co. AB
(31) 2017220480	(32) 26.05.2013	(72) SAVIN, Anatolie
(32) 15.11.2017	16.04.2013	CACU, Adrian
(33) Japan	14.01.2013	<hr/>
(51) H01B 9/02	14.01.2013	(51) H01G 4/30
H01B 7/17	14.01.2013	H01C 7/02
H01B 9/00	14.01.2013	H01C 7/04
H01B 7/02	14.01.2013	H01C 7/10
H01B 7/18	10.12.2012	H01G 4/232
(11) EP3633692	16.09.2012	H01G 4/252
(21) EP17911707.2	20.06.2012	H01C 1/14
(47) 26.07.2023	(33) United Kingdom	H01C 1/142
(87) KR2017011830	United Kingdom	(11) EP3196904
06.12.2018	United Kingdom	(21) EP15842099.2
(22) 25.10.2017	United Kingdom	(47) 26.07.2023
(54) CABLE FOR ROBOT	United Kingdom	(87) JP2015069233
(73) LS Cable & System Ltd.	United Kingdom	24.03.2016
(72) HWANG, Hyun Joo	United Kingdom	(22) 03.07.2015
KANG, Min Su	United Kingdom	(54) CHIP-TYPE CERAMIC SEMICONDUCTOR ELECTRONIC COMPONENT
PARK, Hong Keun	(51) H01F 27/28	(73) Murata Manufacturing Co., Ltd.
YANG, Young Hoon	H01F 27/32	(72) ISOGAI, Keisuke
CHOI, Hong Seok	H05K 7/20	IMAMURA, Satoshi
YANG, Hoon Chul	C09K 5/14	(31) 2014191452
(31) 20170067918	H01F 5/02	(32) 19.09.2014
(32) 31.05.2017	H01F 27/22	(33) Japan
(33) Korea (Republic)	H01B 3/18	<hr/>
(51) H01F 3/14	(11) EP3467853	(51) H01G 4/33
H01F 17/06	(21) EP17803081.3	H01L 21/00
H01F 27/08	(47) 26.07.2023	H01G 4/005
H01F 27/26	(87) KR2017005422	(11) EP3627526
H01F 27/28	30.11.2017	(21) EP19197934.3
(11) EP3921855	(22) 24.05.2017	(47) 26.07.2023
(21) EP20705284.6	(54) COIL COMPONENT	(22) 18.09.2019
(47) 26.07.2023	(73) Amogreentech Co., Ltd.	(54) CAPACITOR
(87) EP2020025056	(72) KIM, Moon Hoe	(73) STMicroelectronics (Tours) SAS
13.08.2020	HWANG, Moon Young	(72) BOUFNICHEL, Mohamed
(22) 07.02.2020	HWANG, Seung Jae	(31) 1858585
(54) INDUCTORS WITH CORE STRUCTURE SUPPORTING MULTIPLE AIR FLOW MODES	(31) 20160063666	(32) 21.09.2018
(73) Eaton Intelligent Power Limited	(32) 24.05.2016	(33) France
(72) TRUJILLO ROSALES, Jose, Antonio	(33) Korea (Republic)	<hr/>
XU, Zelin	(51) H01F 38/18	(51) H01G 9/035
JUDS, Mark, A.	H01F 27/30	H01G 9/145
(31) 201962803069 P	H01F 3/10	(11) EP3439001
(32) 08.02.2019	A61B 6/03	(21) EP17774707.8
(33) United States of America	A61B 6/00	(47) 26.07.2023
(51) H01F 7/02	(11) EP3494582	(87) JP2017011829
E05B 47/00	(21) EP16758003.4	05.10.2017
(11) EP2864991	(47) 26.07.2023	(22) 23.03.2017
(21) EP13735223.3	(87) US2016045250	(54) ELECTROLYTE SOLUTION FOR ELECTROLYTIC CAPACITORS, AND ELECTROLYTIC CAPACITOR
(47) 26.07.2023	08.02.2018	(73) Sanyo Chemical Industries, Ltd.
(87) EP2013062948	(22) 03.08.2016	(72) AKAZAWA, Yoshihiko
27.12.2013	(54) POWER COUPLING DEVICE	MUKAI, Takao
	(73) Analogic Corporation	SHIBA, Takahiro
	(72) SPLINTER, Patrick	TANABE, Fumiyuki
	WEED, Steven	KIMURA, Hideki
	HANLON, Matthew	
	ARCOT, Santosh	
	(51) H01G 2/10	(31) 2016065439

(32) 29.03.2016	(33) France	(11) EP3843119
(33) Japan	(51) H01H 13/86	(21) EP20213676.8
(51) H01G 9/20	H02G 3/08	(47) 26.07.2023
(11) EP3896709	H02G 3/10	(22) 14.12.2020
(21) EP20170140.6	H02G 3/14	(54) THERMAL FUSE SLEEVING
(47) 26.07.2023	(11) EP3840000	(73) Saft America
(22) 17.04.2020	(21) EP20211694.3	(72) EMERY, Alain
(54) A PHOTOVOLTAIC DEVICE	(47) 26.07.2023	LEASURE, Gary
(73) Exeger Operations AB	(22) 03.12.2020	(31) 201916727523
(72) Fili, Giovanni	(54) WATERPROOF ELECTRICAL SWITCH	(32) 26.12.2019
Lindström, Henrik	(73) Legrand France	(33) United States of America
(51) H01G 11/40	Legrand SNC	(51) H01J 37/073
H01G 11/26	(72) GOURINCHAS, Laurent	H01J 1/304
H01G 11/52	DUMAS, Eric	(11) EP3736847
H01G 11/84	(31) 1915124	(21) EP18936558.8
H01M 50/403	(32) 20.12.2019	(47) 26.07.2023
H01M 50/44	(33) France	(87) CN2018124330
H01M 50/46	(51) H01H 19/04	16.04.2020
H01M 10/04	H01H 19/08	(22) 27.12.2018
(11) EP3665730	H01H 19/64	(54) ELECTRON SOURCE
(21) EP18752451.7	H01H 1/42	MANUFACTURING METHOD
(47) 26.07.2023	(11) EP3364437	(73) 38th Research Institute, China
(87) EP2018071256	(21) EP17156651.6	Electronics Technology Group
14.02.2019	(47) 26.07.2023	Corporation
(22) 06.08.2018	(22) 17.02.2017	(72) TANG, Guang
(54) FIBRE COMPOSITE	(54) ROTARY SWITCH	CHEN, Dizhi
COMPONENT DESIGNED AS AN	(73) Ewac Holding B.V.	WANG, Guochao
ELECTROCHEMICAL STORAGE	(72) HOOGLIET, Roy	WANG, Junting
DEVICE AND METHOD FOR THE	BEUN, Martijn Desiré	LIU, Huarong
PRODUCTION THEREOF	(51) H01H 31/00	ZHENG, Chunning
(73) Deutsches Zentrum für Luft- und	H01H 33/662	WANG, Xuehui
Raumfahrt e.V.	(11) EP3896711	HU, Xianbin
(72) PETERSEN, Jan	(21) EP20198083.6	QIAN, Qing
(31) 102017118310	(47) 26.07.2023	ZHENG, Lei
(32) 11.08.2017	(22) 24.09.2020	(31) 201811190769
(33) Germany	(54) DIELECTRIC SHIELD FOR A	(32) 12.10.2018
(51) H01H 9/26	SWITCHING DEVICE	(33) China
H01H 9/40	(73) Siemens Aktiengesellschaft	(51) H01J 37/304
H01H 71/10	(72) RAJAGOPAL, Ratheesh	H01J 37/305
(11) EP3839997	KUMAR, Lokesh	G03F 1/74
(21) EP20215137.9	(31) 202031016049	(11) EP2702603
(47) 26.07.2023	(32) 14.04.2020	(21) EP12718639.3
(22) 17.12.2020	(33) India	(47) 26.07.2023
(54) MULTIPOLAR ELECTRICAL	(51) H01H 37/74	(87) EP2012057621
PROTECTION SYSTEM AND	H02H 5/04	01.11.2012
ELECTRICAL INSTALLATION	H02H 7/26	(22) 26.04.2012
COMPRISING SUCH A SYSTEM	(11) EP3201935	(54) METHOD FOR PROCESSING A
(73) Schneider Electric Industries SAS	(21) EP15847439.5	SUBSTRATE WITH A FO-CUSSED
(72) DYE, Stephane	(47) 26.07.2023	PARTICLE BEAM
RIVAL, Marc	(87) US2015053820	(73) Carl Zeiss SMT GmbH
DOMENECH, Cyril	07.04.2016	(72) SPIES, Petra
ROTA, Daniel	(22) 02.10.2015	BRET, Tristan
(31) 1914942	(54) APPARATUS TO PREVENT	HOFMANN, Thorsten
(32) 18.12.2019	ARC FAULTS IN ELECTRICAL	(31) 201161479018 P
(33) France	CONNECTIVITY	(32) 26.04.2011
(51) H01H 9/52	(73) Management Sciences, Inc.	(33) United States of America
H01H 33/666	(72) BLEMEL, Peter, A.	(51) H01L 21/20
(11) EP3716306	BLEMEL, Kenneth, D.	H01L 29/78
(21) EP20165093.4	PETERSON, Todd, F.	H01L 29/66
(47) 26.07.2023	BLEMEL, Kenneth, G.	(11) EP2963674
(22) 24.03.2020	(31) 201462071789 P	(21) EP15174396.0
(54) SWITCHING APPARATUS FOR A	(32) 03.10.2014	(47) 26.07.2023
VEHICLE AND ASSOCIATED VEHICLE	(33) United States of America	(22) 29.06.2015
(73) ALSTOM Transport Technologies	(51) H01H 85/00	(54) METHOD FOR PRODUCING A
(72) TERRIEN, François	H01H 85/38	MICROELECTRONIC DEVICE
TAINÉ, Antoine	H01H 85/17	(73) COMMISSARIAT A L'ENERGIE
(31) 1903075	H01H 85/175	ATOMIQUE ET AUX ENERGIES
(32) 25.03.2019		ALTERNATIVES

(72) AUGENDRE, Emmanuel BARON, Thierry (31) 1456201 (32) 30.06.2014 (33) France	(21) EP21167787.7 (47) 26.07.2023 (22) 27.04.2015 (54) GAS CUSHION APPARATUS AND TECHNIQUES FOR SUBSTRATE COATING	Sweeney, Richard Emil Shilimkar, Vikas Johnson, Eric Matthew (31) 202016746371 (32) 17.01.2020 (33) United States of America
(51) H01L 21/268 (11) EP3513424 (21) EP17851197.8 (47) 26.07.2023 (87) US2017015276 22.03.2018 (22) 27.01.2017 (54) UV RADIATION METHOD FOR ARSENIC OUTGASSING CONTROL IN SUB 7NM CMOS FABRICATION	(73) Kateeva, Inc. (72) MADIGAN, Conor F. MAUCK, Justin LEWIS, Gregory BUCHNER, Christopher RABINOVICH, Eugene KO, Alexander Sou-Kang HARJEE, Nahid VRONKSKY, Eliyahu	(51) H01L 23/367 H01L 23/373 H01L 23/42 (11) EP4002444 (21) EP21207108.8 (47) 26.07.2023 (22) 09.11.2021 (54) SEMICONDUCTOR DEVICE (73) Renesas Electronics Corporation (72) TANUMA, Yusuke AKIBA, Toshihiko (31) 2020193076 (32) 20.11.2020 (33) Japan
(73) Applied Materials, Inc. (72) CHUNG, Hua YAN, Chun CHU, Schubert S. BAO, Xinyu (31) 201662395931 P (32) 16.09.2016 (33) United States of America	(31) 201462002384 P 201461986868 P (32) 23.05.2014 30.04.2014 (33) United States of America United States of America	(51) H01L 23/373 H01L 23/427 (11) EP3824495 (21) EP19801748.5 (47) 26.07.2023 (87) EP2019079796 07.05.2020 (22) 31.10.2019 (54) COOLING DEVICE (73) Siemens Aktiengesellschaft (72) HENSLER, Alexander PFEFFERLEIN, Stefan OCHS, Ewgenij OSCHMANN, Philipp NEUGEBAUER, Stephan WETZEL, Ulrich BIGL, Thomas (31) 18204081 (32) 02.11.2018 (33) European Patent Office (EPO)
(51) H01L 21/306 (11) EP3447791 (21) EP18190716.3 (47) 26.07.2023 (22) 24.08.2018 (54) ETCHING SOLUTION FOR SELECTIVELY REMOVING SILICON- GERMANIUM ALLOY FROM A SILICON-GERMANIUM/ SILICON STACK DURING MANUFACTURE OF A SEMICONDUCTOR DEVICE	(73) Ebara Corporation (72) KASHIWAGI, Makoto IZAWA, Mao (31) 2020144540 (32) 28.08.2020 (33) Japan	(51) H01L 23/373 H01L 23/473 H05K 7/20 (11) EP4060725 (21) EP21163707.9 (47) 26.07.2023 (22) 19.03.2021 (54) A COOLING ASSEMBLY FOR AT LEAST ONE SEMICONDUCTOR MODULE, A POWER MODULE AND A METHOD FOR MANUFACTURING A POWER MODULE (73) Hitachi Energy Switzerland AG (72) PAVLICEK, Niko SANTOLARIA, Lluís MATA, Helder TRUESEL, Dominik
(73) Versum Materials US, LLC (72) ADAMCZYK, Andrew J. LEE, Yi-Chia LIU, Wen Dar (31) 201816108499 201762550428 P (32) 22.08.2018 25.08.2017 (33) United States of America United States of America	(51) H01L 21/683 (11) EP3961684 (21) EP21193002.9 (47) 26.07.2023 (22) 25.08.2021 (54) METHOD FOR MANUFACTURING A CARRIER SUBSTRATE INTENDED FOR TEMPORARY BONDING OF A SUBSTRATE	(51) H01L 25/075 H01L 33/48 H01L 21/683 H01L 21/67 H01L 33/62 (11) EP3598492 (21) EP18767802.4 (47) 26.07.2023 (87) KR2018002688 20.09.2018 (22) 07.03.2018
(51) H01L 21/311 H01L 29/66 (11) EP3671815 (21) EP19218836.5 (47) 26.07.2023 (22) 20.12.2019 (54) METHOD FOR ETCHING A THREE- DIMENSIONAL DIELECTRIC LAYER	(73) Commissariat à l'Energie Atomique et aux Energies Alternatives (72) FOURNEL, Frank MONTMEAT, Pierre STEWART, Paul (31) 2008749 (32) 27.08.2020 (33) France	(73) Hitachi Energy Switzerland AG (72) PAVLICEK, Niko SANTOLARIA, Lluís MATA, Helder TRUESEL, Dominik
(73) Commissariat à l'Energie Atomique et aux Energies Alternatives (72) POLLET, Olivier AH-LEUNG, Vincent POSSEME, Nicolas (31) 1873686 (32) 20.12.2018 (33) France	(51) H01L 23/00 H03F 1/56 H03F 3/21 H03F 3/193 H03F 1/02 H01L 23/66 (11) EP3852270 (21) EP21150340.4 (47) 26.07.2023 (22) 05.01.2021 (54) RF AMPLIFIERS WITH SERIES- COUPLED OUTPUT BONDWIRE ARRAYS AND SHUNT CAPACITOR BONDWIRE ARRAY	(73) Hitachi Energy Switzerland AG (72) PAVLICEK, Niko SANTOLARIA, Lluís MATA, Helder TRUESEL, Dominik
(51) H01L 21/673 H01L 21/677 H01L 21/683 H01L 21/48 H01L 23/532 H05K 3/00 H01L 21/67 (11) EP3882961	(73) NXP B.V. (72) Kim, Kevin	

(54) METHOD FOR MANUFACTURING DISPLAY DEVICE	(33) United States of America United States of America	(47) 26.07.2023 (22) 15.10.2019
(73) Seoul Semiconductor Co., Ltd.	(51) H01L 29/861	(54) ARRAY OF PHOTOVOLTAIC PANELS INCORPORATING SEALING ASSEMBLY
(72) TAKEYA, Motonobu	H01L 29/49	(73) R&MS Solutionpartner Verwaltungs GmbH
(31) 201762470499 P	H01L 21/329	(72) MACK, Reiner
(32) 13.03.2017	H01L 29/40	GISSLER, Bernd
(33) United States of America	(11) EP3989293	(51) H01L 31/0749
(51) H01L 25/075	(21) EP21773266.8	H01L 31/0463
H01L 33/62	(47) 26.07.2023	(11) EP3449513
(11) EP3968374	(87) CN2021103782	(21) EP17727729.0
(21) EP21194153.9	03.03.2022	(47) 26.07.2023
(47) 26.07.2023	(22) 30.06.2021	(87) NL2017050268
(22) 31.08.2021	(54) SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREFOR	02.11.2017
(54) DISPLAY DEVICE	(73) Changxin Memory Technologies, Inc.	(22) 26.04.2017
(73) Samsung Display Co., Ltd.	(72) WANG, Lianhong	(54) A METHOD FOR MANUFACTURING INTERCONNECTED SOLAR CELLS
(72) PARK, Sang Hoon	PING, Erxuan	(73) Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek TNO
YUN, Sung Jae	(31) 202010887358	(72) GEVAERTS, Veronique Stephanie
LEE, Hang Jae	(32) 28.08.2020	BIEZEMANS, Anne Ferenc Karel Victor
(31) 20200115273	(33) China	BOSMAN, Johan
(32) 09.09.2020	(51) H01L 31/0216	DEBERNARDI, Nicola
(33) Korea (Republic)	H01L 31/0745	(31) 2016708
(51) H01L 27/146	H01L 31/0747	(32) 29.04.2016
H04N 23/54	(11) EP4138147	(33) Netherlands
H04N 23/55	(21) EP21197431.6	(51) H01L 31/107
H04N 23/57	(47) 26.07.2023	H01L 31/02
(11) EP3644596	(22) 17.09.2021	H01L 31/0224
(21) EP18843164.7	(54) SOLAR CELL AND PHOTOVOLTAIC MODULE	H01L 31/0352
(47) 26.07.2023	(73) Shanghai Jinko Green Energy Enterprise Management Co., Ltd.	H01L 27/144
(87) CN2018098560	ZHEJIANG JINKO SOLAR CO., LTD.	(11) EP3646390
14.02.2019	(72) YANG, Jie	(21) EP18732121.1
(22) 03.08.2018	ZHANG, Xinyu	(47) 26.07.2023
(54) CAMERA MODULE AND ELECTRONIC DEVICE HAVING SAME, AND METHOD FOR MANUFACTURING CAMERA MODULE	LI, Wenqi	(87) EP2018067044
(73) Ningbo Sunny Opotech Co., Ltd.	YU, Ding	03.01.2019
(72) YAO, Lifeng	JIN, Hao	(22) 26.06.2018
MEI, Zhewen	(31) 202110963291	(54) SINGLE-PHOTON AVALANCHE DIODE AND METHOD FOR OPERATING A SINGLE-PHOTON AVALANCHE DIODE
ZHAO, Bojie	(32) 20.08.2021	(73) Sony Semiconductor Solutions Corporation
WANG, Mingzhu	(33) China	(72) KUIJK, Maarten
CHEN, Zhenyu	(51) H01L 31/048	VAN DER TEMPEL, Ward
GUO, Nan	H01L 31/049	VAN NIEUWENHOVE, Daniel
(31) 201710663413	(11) EP4032131	JEGANNATHAN, Gobinath
(32) 05.08.2017	(21) EP20801335.9	(31) 17177891
(33) China	(47) 26.07.2023	(32) 26.06.2017
(51) H01L 29/15	(87) FR2020051810	(33) European Patent Office (EPO)
H01L 21/02	29.04.2021	(51) H01L 31/167
H01L 29/78	(22) 14.10.2020	H01L 27/144
H01L 29/10	(54) PHOTOVOLTAIC MODULE COMPRISING AN ELECTRICALLY CONDUCTIVE CONNECTION ELEMENT	(11) EP3444851
(11) EP3844819	(73) Commissariat à l'Energie Atomique et aux Energies Alternatives	(21) EP18000663.7
(21) EP19766146.5	(72) GAUME, Julien	(47) 26.07.2023
(47) 26.07.2023	GUERIN, Thomas	(22) 09.08.2018
(87) US2019048277	(31) 1911899	(54) RECEIVER MODULE
05.03.2020	(32) 24.10.2019	(73) AZUR SPACE Solar Power GmbH
(22) 27.08.2019	(33) France	(72) Lauermann, Thomas
(54) METHOD FOR MAKING SUPERLATTICE STRUCTURES WITH REDUCED DEFECT DENSITIES	(51) H01L 31/048	Fuhrmann, Daniel
(73) Atomera Incorporated	H02S 20/25	Keller, Gregor
(72) CODY, Nyles Wynn	F24S 25/67	(31) 102017007683
STEPHENSON, Robert John	E04D 3/36	(32) 16.08.2017
WEEKS, Keith Doran	E04D 1/36	(33) Germany
HYTHA, Marek	E04D 3/38	(51) H01L 33/00
MEARS, Robert J.	(11) EP3809589	H01L 33/18
(31) 201816117202	(21) EP19203436.1	
201816117178		
(32) 30.08.2018		
30.08.2018		

H01L 33/20	YU, Zhongyuan	(32) 23.08.2018
H01L 33/06	(31) 201810622971	22.03.2018
H01L 33/08	(32) 15.06.2018	(33) Japan
H01L 33/32	(33) China	Japan
(11) EP3991214	(51) H01M 4/13	(51) H01M 4/139
(21) EP20734740.2	H01M 4/66	H01M 4/13
(47) 26.07.2023	H01M 4/70	H01M 4/62
(87) EP2020067967	(11) EP3547406	H01M 10/052
30.12.2020	(21) EP19165554.7	H01M 10/0562
(22) 25.06.2020	(47) 26.07.2023	H01M 10/0585
(54) METHOD FOR MANUFACTURING AN OPTOELECTRONIC DEVICE WITH AXIAL-TYPE LIGHT-EMITTING DIODES	(22) 27.03.2019	H01M 4/04
(73) Université Grenoble Alpes	(54) CURRENT COLLECTOR, ELECTRODE PLATE INCLUDING THE SAME AND ELECTROCHEMICAL DEVICE	H01M 4/131
Aledia	(73) Contemporary Amperex Technology Co., Limited	H01M 4/136
Commissariat à l'Energie Atomique et aux Energies Alternatives	(72) HUANG, Huaifeng	H01M 4/133
(72) DAUDIN, Bruno-Jules	LIANG, Chengdu	H01M 4/1391
CHIKHAOUI, Walf	LIU, Xin	H01M 4/1393
GRUART, Marion	HUANG, Qisen	H01M 4/1397
(31) 1906899	(31) 201810290303	H01M 4/505
(32) 25.06.2019	(32) 30.03.2018	H01M 4/525
(33) France	(33) China	H01M 4/58
(51) H01L 33/02	(51) H01M 4/13	H01M 4/587
H01L 33/58	H01M 4/80	H01M 10/0525
H01L 33/60	H01M 4/66	(11) EP3576192
G09G 3/14	H01M 10/0525	(21) EP18744641.4
G09G 3/22	(11) EP4037011	(47) 26.07.2023
H01L 25/075	(21) EP22153885.3	(87) JP2018001980
(11) EP3602639	(47) 26.07.2023	02.08.2018
(21) EP18770175.0	(22) 28.01.2022	(22) 23.01.2018
(47) 26.07.2023	(54) ELECTRODE AND ELECTRICITY STORAGE DEVICE	(54) MANUFACTURING METHOD FOR ELECTRODE FOR ALL-SOLID-STATE BATTERY AND MANUFACTURING METHOD FOR ALL SOLID-STATE-BATTERY
(87) US2018023172	(73) HONDA MOTOR CO., LTD.	(73) Hitachi Zosen Corporation
27.09.2018	(72) OHTA, Masahiro	(72) KAWASE Hirokazu
(22) 19.03.2018	TANAKA, Toshimitsu	NAGAI Risa
(54) MAKING SEMICONDUCTOR DEVICES BY STACKING STRATA OF MICRO LEDS	TANIUCHI, Takuya	(31) 2017010388
(73) Jade Bird Display (Shang Hai) Limited	TANAAMI, Kiyoshi	(32) 24.01.2017
(72) LI, Qiming	ARIGA, Toshiyuki	(33) Japan
ZHANG, Lei	(31) 2021014550	(51) H01M 8/04276
CHONG, Wing Cheung	(32) 01.02.2021	H01M 8/24
CHEN, Jen-Shyan	(33) Japan	H01M 8/2455
(31) 201762473953 P	(51) H01M 4/131	H01M 8/18
(32) 20.03.2017	H01M 4/36	H01M 8/04746
(33) United States of America	H01M 4/485	(11) EP3719902
(51) H01M 4/06	H01M 4/66	(21) EP18883589.6
H01M 4/70	H01M 10/052	(47) 26.07.2023
H01M 4/76	H01M 10/0569	(87) KR2018005243
H01M 10/04	C01G 23/04	06.06.2019
H01M 10/0525	H01M 4/02	(22) 08.05.2018
H01M 50/109	H01M 10/0567	(54) METHOD OF OPERATING A REDOX FLOW BATTERY
H01M 50/153	B60L 50/64	(73) Standard Energy Inc.
H01M 50/171	(11) EP3544095	(72) KIM, Bugi
H01M 50/184	(21) EP18191976.2	CHO, Bumhee
(11) EP3809484	(47) 26.07.2023	KIM, Kihyun
(21) EP18922434.8	(22) 31.08.2018	CHOI, Damdam
(47) 26.07.2023	(54) SECONDARY BATTERY, BATTERY PACK, VEHICLE, AND STATIONARY POWER SUPPLY	CHOE, Kang Yeong
(87) CN2018115199	(73) Kabushiki Kaisha Toshiba	PARK, Sang Hyun
19.12.2019	(72) Seki, Hayato	(31) 20170161869
(22) 13.11.2018	Yoshima, Kazuomi	(32) 29.11.2017
(54) BUTTON BATTERY AND PREPARATION METHOD THEREFOR	Matsuno, Shinsuke	(33) Korea (Republic)
(73) Yichang Power Glory Technology Co., Ltd.	Sekiguchi, Yumiko	(51) H01M 8/18
(72) XIA, Qing	Hotta, Yasuyuki	(11) EP3776707
XU, Jiekang	Takami, Norio	(21) EP19716575.6
WANG, Jian	(31) 2018156595	(47) 26.07.2023
	2018054823	(87) IB2019052131

17.10.2019	LIANG, Chengdu	(54) LIQUID ELECTROLYTE AND
(22) 15.03.2019	DU, Xinxin	FLUORIDE-ION BATTERY
(54) FLOW BATTERIE WITH MEMBRANE		COMPRISING THE SAME
HAVING DIFFERENT SELECTIVITIES	(51) H01M 10/0525	(73) TOHOKU UNIVERSITY
(73) Politecnico di Milano	H01M 10/0562	TOYOTA JIDOSHA KABUSHIKI KAISHA
(72) ZAGO, Matteo	(11) EP4060780	(72) TAKEKAWA, Reiji
CASALEGNO, Andrea	(21) EP21162508.2	NAKAMOTO, Hirofumi
(31) 201800004325	(47) 26.07.2023	KAWAMURA, Junichi
(32) 09.04.2018	(22) 15.03.2021	(31) 2019072061
(33) Italy	(54) DISPERSION AND COATING	(32) 04.04.2019
(51) H01M 8/18	COMPOSITION CONTAINING LITHIUM	(33) Japan
(11) EP4032135	METAL PHOSPHATE	(51) H01M 10/0565
(21) EP20771234.0	(73) Evonik Operations GmbH	H01M 10/0525
(47) 26.07.2023	(72) ESKEN, Daniel	H01M 10/058
(87) EP2020074812	TAKATA, Ryo	(11) EP3644427
25.03.2021	NESS, Daniel	(21) EP18855646.8
(22) 04.09.2020	DAUTH, Katharina	(47) 26.07.2023
(54) HYBRID CAVERN STORAGE	(51) H01M 10/0525	(87) KR2018010187
(73) RWE Gas Storage West GmbH	H01M 10/0567	21.03.2019
(72) NEUHAUS, Guido	H01M 4/131	(22) 31.08.2018
RITTINGHAUS, Kai	H01M 4/36	(54) POLYMER ELECTROLYTE FOR
SCHMIDT, Simon	H01M 4/525	SECONDARY BATTERY AND LITHIUM
(31) 102019125240	C07F 9/02	SECONDARY BATTERY COMPRISING
(32) 19.09.2019	(11) EP3787090	SAME
(33) Germany	(21) EP20193221.7	(73) LG Energy Solution, Ltd.
(51) H01M 10/04	(47) 26.07.2023	(72) LEE, Chul Haeng
B23K 31/02	(22) 27.08.2020	PARK, Sol Ji
B23K 101/36	(54) LITHIUM SECONDARY BATTERY	HAN, Jun Hyeok
H01M 50/209	(73) SK On Co., Ltd.	AHN, Kyoung Ho
H01M 50/211	(72) CHO, Yong Hyun	(31) 20180102273
H01M 50/213	LEE, Yoon Ji	20170116831
H01M 50/271	DO, Young Hoon	(32) 29.08.2018
(11) EP3644401	CHO, In Haeng	12.09.2017
(21) EP19738188.2	(31) 20190105944	(33) Korea (Republic)
(47) 26.07.2023	(32) 28.08.2019	Korea (Republic)
(87) KR2019000103	(33) Korea (Republic)	(51) H01M 10/0565
18.07.2019	(51) H01M 10/0525	H01M 10/0568
(22) 03.01.2019	H01M 10/0567	H01M 4/139
(54) BATTERY MODULE, AND BATTERY	H01M 10/0569	H01M 10/052
PACK AND VEHICLE COMPRISING	H01M 4/505	C08L 69/00
SAME	H01M 4/525	C08L 31/04
(73) LG Energy Solution, Ltd.	H01M 4/587	C08F 283/02
(72) CHI, Ho-June	(11) EP3528330	H01M 4/131
PARK, Jin-Yong	(21) EP19156498.8	H01M 50/494
LEE, Jung-Hoon	(47) 26.07.2023	H01M 50/497
KIM, Kyung-Mo	(22) 21.08.2015	H01M 50/491
MUN, Jeong-O	(54) NON-AQUEOUS ELECTROLYTE	(11) EP3605705
(31) 20180004408	SECONDARY BATTERY	(21) EP18839191.6
(32) 12.01.2018	(73) Mitsubishi Chemical Corporation	(47) 26.07.2023
(33) Korea (Republic)	MU Ionic Solutions Corporation	(87) KR2018008450
(51) H01M 10/04	(72) NAKAZAWA, Eiji	31.01.2019
H01M 50/209	OOHASHI, Youichi	(22) 26.07.2018
H01M 10/0525	WATARAI, Atsushi	(54) POLYMER ELECTROLYTE FOR
H01M 10/0587	(31) 2014177370	SECONDARY BATTERY AND LITHIUM
(11) EP4053960	2014176614	SECONDARY BATTERY INCLUDING
(21) EP21810882.7	2014169660	THE SAME
(47) 26.07.2023	(32) 01.09.2014	(73) LG Energy Solution, Ltd.
(87) CN2021070716	29.08.2014	(72) PARK, Sol Ji
14.07.2022	22.08.2014	AHN, Kyoung Ho
(22) 07.01.2021	(33) Japan	LEE, Chul Haeng
(54) ELECTRODE ASSEMBLY, BATTERY	Japan	HAN, Jun Hyeok
CELL, AND BATTERY	Japan	(31) 20180086713
(73) Contemporary Amperex Technology Co.,	(51) H01M 10/054	20170094959
Limited	H01M 10/0568	(32) 25.07.2018
(72) XU, Hu	H01M 10/0569	26.07.2017
JIN, Haizu	(11) EP3719908	(33) Korea (Republic)
ZENG, Yuqun	(21) EP20164412.7	Korea (Republic)
LI, Xing	(47) 26.07.2023	(51) H01M 10/058
	(22) 20.03.2020	

H01M 4/78	(22) 19.03.2020	(47) 26.07.2023
H01M 4/139	(54) METHOD FOR DETERMINING	(87) EP2019066232
H01M 4/04	THE COMPONENTS AND THEIR	02.01.2020
H01M 10/052	ARRANGEMENT IN AN ARRAY	(22) 19.06.2019
H01M 4/66	AND MEASURING ARRANGEMENT	(54) DEVICE FOR REMOVING HEAT FROM
H01M 4/80	IN WHICH THE METHOD CAN BE	AN ARRAY OF RECHARGEABLE
H01M 10/04	CARRIED OUT	ELECTROCHEMICAL ENERGY
H01M 4/02	(73) RP-Technik GmbH	STORAGE DEVICES
(11) EP3893314	(72) Eichler, Martin	(73) Covestro Intellectual Property GmbH &
(21) EP20740822.0	(31) 102019107054	Co. KG
(47) 26.07.2023	(32) 19.03.2019	(72) KNAUPP, Matthias
(87) KR2020000829	(33) Germany	GRIMM, Thomas
23.07.2020	(51) H01M 10/613	(31) 18180829
(22) 16.01.2020	B60H 1/00	(32) 29.06.2018
(54) LITHIUM SECONDARY BATTERY AND	H01M 10/615	(33) European Patent Office (EPO)
METHOD FOR MANUFACTURING	H01M 10/617	(51) H01M 10/6554
SAME	H01M 10/625	H01M 10/613
(73) LG Chem, Ltd.	H01M 10/637	H01M 10/625
(72) CHOI, Sang Soon	H01M 10/6556	H01M 50/211
YOU, Min Kyu	H01M 10/663	(11) EP3373384
LEE, Kyung Lok	(11) EP3691020	(21) EP16913565.4
SHIN, Ji A	(21) EP18863154.3	(47) 26.07.2023
(31) 20190005688	(47) 26.07.2023	(87) KR2016013233
(32) 16.01.2019	(87) CN2018108790	22.02.2018
(33) Korea (Republic)	04.04.2019	(22) 16.11.2016
(51) H01M 10/42	(22) 29.09.2018	(54) BATTERY MODULE
H01M 10/48	(54) TEMPERATURE REGULATION	(73) LG Energy Solution, Ltd.
H01M 6/50	SYSTEM FOR VEHICLE-MOUNTED	(72) KANG, Dal-Mo
H04Q 9/00	BATTERY	MUN, Jeong-O
H01M 50/569	(73) BYD Company Limited	SHIN, Eun-Gyu
(11) EP3614483	(72) TAN, Jigang	CHOI, Mi-Geum
(21) EP18190195.0	WU, Xingchi	(31) 20160105056
(47) 26.07.2023	WANG, Hongjun	(32) 18.08.2016
(22) 22.08.2018	(31) 201710944063	(33) Korea (Republic)
(54) BATTERY CELL TEMPERATURE	(32) 30.09.2017	(51) H01M 10/6567
MEASUREMENT WITH RFID TAGS	(33) China	H01M 10/6556
(73) Samsung SDI Co., Ltd.	(51) H01M 10/613	H01M 10/655
(72) ERHART, Michael	H01M 10/48	H01M 10/613
(51) H01M 10/42	H01M 10/647	(11) EP3796463
H01M 10/48	H01M 10/625	(21) EP19803849.9
H02J 7/00	H01M 10/42	(47) 26.07.2023
G01R 31/36	H01M 10/653	(87) KR2019004403
G01R 31/387	H01M 50/211	21.11.2019
G01R 31/374	H01M 50/287	(22) 12.04.2019
G01R 31/385	H01M 50/293	(54) BATTERY PACK
G01R 31/378	H01M 50/298	(73) Samsung SDI Co., Ltd.
(11) EP3863102	H01M 50/507	(72) KIM, Heon Hee
(21) EP18838195.8	H01M 50/519	JANG, Jin Sung
(47) 26.07.2023	H01M 50/569	KIM, Han Ho
(87) CN2018113280	(11) EP3671895	(31) 20180055656
31.01.2019	(21) EP19767340.3	(32) 15.05.2018
(22) 01.11.2018	(47) 26.07.2023	(33) Korea (Republic)
(54) TEMPERATURE COMPENSATION	(87) KR2019001999	(51) H01M 50/105
SYSTEM AND METHOD FOR LITHIUM	19.09.2019	H01M 50/119
BATTERY CAPACITY MEASUREMENT,	(22) 19.02.2019	H01M 50/124
AND STORAGE MEDIUM	(54) BATTERY MODULE, BATTERY PACK	H01M 50/211
(73) Guangdong HYNN Technologies Co.,	COMPRISING BATTERY MODULE	H01M 50/50
Ltd.	AND VEHICLE COMPRISING BATTERY	H01M 50/503
(72) FENG, Yingwei	PACK	H01M 50/507
WANG, Shoumo	(73) LG Energy Solution, Ltd.	H01M 50/522
ZHAO, Shaohua	(72) YUN, Hyeon-Ki	(11) EP3547401
(51) H01M 10/48	(31) 20180029211	(21) EP18809421.3
H01M 10/42	(32) 13.03.2018	(47) 26.07.2023
H01M 50/204	(33) Korea (Republic)	(87) KR2018000283
H01M 50/569	(51) H01M 10/653	06.12.2018
(11) EP3715889	H01M 10/6552	(22) 05.01.2018
(21) EP20164329.3	(11) EP3815170	(54) BATTERY MODULE
(47) 26.07.2023	(21) EP19732965.9	(73) LG Energy Solution, Ltd.

(72) RYU, Sang-Woo PARK, Jin-Yong CHI, Ho-June MUN, Jeong-O LEE, Jung-Hoon KANG, Dal-Mo (31) 20170066191 (32) 29.05.2017 (33) Korea (Republic)	ZHAO, Fenggang HU, Langchao HUANG, Xiaoteng WANG, Wenli (51) H01M 50/209 H01M 50/242 H01M 50/249 H01M 50/264 H01M 10/04	(73) Clarios Germany GmbH & Co. KG (72) BIENECK, Uwe BRENNER, Helge WIEGMANN, Martin (31) 102018109330 (32) 19.04.2018 (33) Germany
(51) H01M 50/20 H01M 10/613 A62C 3/07 A62C 3/16 H01M 10/42 H01M 50/342 A62C 35/02 (11) EP3913732 (21) EP20869350.7 (47) 26.07.2023 (87) CN2020107773 01.04.2021 (22) 07.08.2020 (54) BATTERY PACK, VEHICLE, AND CONTROL METHOD FOR MITIGATING SPREAD OF THERMAL RUNAWAY OF BATTERY PACK (73) Contemporary Amperex Technology Co., Limited	(11) EP3883045 (21) EP20897639.9 (47) 26.07.2023 (87) CN2020137077 08.07.2021 (22) 17.12.2020 (54) BATTERY MODULE, BATTERY PACK, APPARATUS, AND METHOD OF ASSEMBLING BATTERY MODULE (73) Contemporary Amperex Technology Co., Limited (72) DAI, Xiaoshan XU, Shoujiang CHEN, Sien (31) 201911411433 (32) 31.12.2019 (33) China	(51) H01M 50/403 H01M 10/04 H01M 10/0585 H01M 50/406 H01M 50/463 (11) EP3614478 (21) EP18907419.8 (47) 26.07.2023 (87) KR2018013088 29.08.2019 (22) 31.10.2018 (54) APPARATUS AND METHOD FOR MANUFACTURING ELECTRODE ASSEMBLY (73) LG Energy Solution, Ltd. (72) CHU, Il Un JEON, Su Ho KIM, Nam Hyuck PARK, Dong Hyeuk KIM, Sang Wook (31) 20180019991 (32) 20.02.2018 (33) Korea (Republic)
(72) XIANG, Yanhuo HUANG, Xiaoteng WANG, Wenli HONG, Jiarong (31) 201910914629 (32) 26.09.2019 (33) China	(11) EP3719862 (21) EP20166987.6 (47) 26.07.2023 (22) 31.03.2020 (54) SYSTEMS AND METHODS FOR A MODULAR BATTERY SYSTEM (73) The Raymond Corporation (72) CONFER, Thomas W. HOWE, David B. (31) 201962828777 P (32) 03.04.2019 (33) United States of America	(51) H01M 50/457 H01M 50/414 H01M 50/409 H01M 50/443 H01M 10/052 (11) EP3780171 (21) EP19775824.6 (47) 26.07.2023 (87) JP2019011885 03.10.2019 (22) 20.03.2019 (54) NON-AQUEOUS SECONDARY BATTERY LAYERED-BODY MANUFACTURING METHOD, AND NON-AQUEOUS SECONDARY BATTERY MANUFACTURING METHOD (73) Zeon Corporation (72) TAGUCHI, Hiroyuki WAKIZAKA, Yasuhiro TANAKA, Keiichiro (31) 2018058887 (32) 26.03.2018 (33) Japan
(51) H01M 50/204 H01M 50/244 H01M 50/249 H01M 50/262 (11) EP3815661 (21) EP20191242.5 (47) 26.07.2023 (22) 17.08.2020 (54) BATTERY MOUNTING STRUCTURE FOR MOBILITY SCOOTER (73) MERITS HEALTH PRODUCTS CO., LTD. (72) CHENG, Ming-Chuan (31) 2019197229 (32) 30.10.2019 (33) Japan	(51) H01M 50/211 H01M 50/291 A62C 3/16 (11) EP3525256 (21) EP18817851.1 (47) 26.07.2023 (87) KR2018000138 20.12.2018 (22) 03.01.2018 (54) BATTERY MODULE AND BATTERY PACK WITH IMPROVED SAFETY (73) LG Energy Solution, Ltd. (72) KIM, Su-Chang KANG, Dal-Mo MUN, Jeong-O YOON, Ji-Su RYU, Jae-Uk (31) 20170076763 (32) 16.06.2017 (33) Korea (Republic)	(51) H01M 50/489 H01M 50/414 H01M 50/431 H01M 4/62 H01M 10/42 H01M 10/052 H01M 4/13 (11) EP3624233 (21) EP18871737.5 (47) 26.07.2023 (87) KR2018012759 02.05.2019 (22) 25.10.2018 (54) SEPARATOR HAVING MELTING CUT-OFF PORTION AND
(51) H01M 50/209 H01M 10/42 H01M 50/204 H01M 50/24 (11) EP4016714 (21) EP20824408.7 (47) 26.07.2023 (87) CN2020121991 28.04.2022 (22) 19.10.2020 (54) CASE BODY FOR BATTERY, BATTERY AND ELECTRIC DEVICE (73) Jiangsu Contemporary Amperex Technology Limited (72) HONG, Jiarong XUE, Cheng YANG, Haiqi	(51) H01M 50/256 A45F 5/10 (11) EP3557657 (21) EP19170169.7 (47) 26.07.2023 (22) 18.04.2019 (54) HANDLE CORD FOR A BATTERY BOX	

ELECTROCHEMICAL DEVICE INCLUDING THE SAME	SOLOGUBENKO, Oleksandr KAUFMANN, Herbert	(73) Silicon Radar GmbH (72) WINKLER, Wolfgang
(73) LG Energy Solution, Ltd.	(31) 18162221	(51) H01P 7/10
(72) CHOI, Jung Seok KIM, Jeong Gil OH, Song Taek	(32) 16.03.2018 (33) European Patent Office (EPO)	(11) EP3675276 (21) EP17932435.5 (47) 26.07.2023 (87) CN2017110868 23.05.2019
(31) 20170140348 (32) 26.10.2017 (33) Korea (Republic)	(51) H01P 1/205 H01P 1/208 H01P 7/04	(22) 14.11.2017 (54) DIELECTRIC RESONATOR AND FILTER
(51) H01M 50/528 H01M 50/581	(11) EP3787101 (21) EP20199951.3 (47) 26.07.2023 (22) 21.10.2014	(73) Huawei Technologies Co., Ltd. (72) PU, Guosheng SHI, Jing
(11) EP3867960 (21) EP19783331.2 (47) 26.07.2023 (87) EP2019077467 23.04.2020 (22) 10.10.2019	(54) MULTIMODE RESONATOR (73) KMW Inc. (72) PARK, Nam-Shin	(51) H01Q 1/08 H01Q 1/12 H01Q 3/08 H01Q 15/16 H01Q 19/12
(54) POUCH CELL (73) Hilti Aktiengesellschaft (72) LEPIORZ, Matthias SAX, Kathrin HAUSER, Klaus STANGER, Robert ZIEGLER, Bernd MARTINY, Nora ENDER, Moses	(51) H01P 1/208 H01P 11/00 (11) EP3806236 (21) EP20198827.6 (47) 26.07.2023 (22) 28.09.2020	(11) EP3913736 (21) EP21185690.1 (47) 26.07.2023 (22) 15.01.2016 (54) MULTI-PANEL ANTENNA SYSTEM (73) Ubiquiti Inc. (72) LEE, Jude (31) 201514886744 201562191232 P 201462086525 P
(31) 18200867 (32) 17.10.2018 (33) European Patent Office (EPO)	(73) Honeywell Limited Honeywell Limitée (72) YU, Ming ZHOU, Zhifu (31) 201916597481 (32) 09.10.2019 (33) United States of America	(31) 201514886744 201562191232 P 201462086525 P (32) 19.10.2015 10.07.2015 02.12.2014
(51) H01M 50/529 H01M 50/157 H01M 50/159 H01M 50/188 H01M 50/197 H01M 50/562 B60K 1/04	(51) H01P 1/212 H03H 7/01 (11) EP4044360 (21) EP20947811.4 (47) 26.07.2023 (87) JP2020047174 23.06.2022 (22) 17.12.2020	(33) United States of America United States of America United States of America
(11) EP3920316 (21) EP20887690.4 (47) 26.07.2023 (87) CN2020127908 20.05.2021 (22) 10.11.2020	(54) FILTER CIRCUIT (73) FUJIKURA LTD. (72) YAMAGUCHI, Yo	(51) H01Q 1/12 H01Q 3/00 H01Q 3/26 H04B 17/21 H04B 17/00 H04B 17/12 H04B 17/13
(54) SECONDARY BATTERY, BATTERY MODULE AND DEVICE (73) Contemporary Amperex Technology Co., Limited (72) LI, Xiang WANG, Peng CHEN, Xinxiang HUANG, Shoujun ZHENG, Yulian	(51) H01P 1/26 H01P 5/18 H01P 5/16 H01P 5/20 (11) EP3695456 (21) EP18795899.6 (47) 26.07.2023 (87) US2018055360 18.04.2019 (22) 11.10.2018	(11) EP3706238 (21) EP20160968.2 (47) 26.07.2023 (22) 04.03.2020 (54) GROUND CALIBRATION SYSTEM OF A PAYLOAD OF A SATELLITE (73) Thales (72) OSTER, Yann (31) 1902216 (32) 07.03.2019 (33) France
(31) 201921982166 U (32) 15.11.2019 (33) China	(73) Commscope Technologies LLC (72) WANG, Huan BROBOSTON, Michael (31) 201762571822 P (32) 13.10.2017 (33) United States of America	(51) H01Q 1/18 H01Q 1/12 H01Q 1/32 H01Q 1/00 (11) EP3542414 (21) EP17872811.9 (47) 26.07.2023 (87) SE2017050880 24.05.2018 (22) 06.09.2017
(51) H01M 50/55 H01M 50/557	(51) H01P 5/08 H01Q 1/22 H01Q 19/08 (11) EP3872927 (21) EP20160101.0 (47) 26.07.2023 (22) 28.02.2020	(54) A STABILIZATION ARRANGEMENT FOR STABILIZATION OF AN ANTENNA MAST (73) SAAB AB (72) BLENNIUS, Martin
(11) EP3762993 (21) EP19711876.3 (47) 26.07.2023 (87) EP2019056415 19.09.2019 (22) 14.03.2019	(54) DIELECTRIC WAVEGUIDE CONNECTOR	
(54) BATTERY CELL ARRANGEMENT (73) ABB Schweiz AG (72) FLUECKIGER, Reto WICKI, Stefan SCHULER, Gabriel GUGGISBERG, Beat		

(31) 1651508	H05K 3/12	(87) CN2019118270
(32) 18.11.2016	H05K 3/24	22.05.2020
(33) Sweden	(11) EP3238510	(22) 14.11.2019
(51) H01Q 1/22	(21) EP15825730.3	(54) SWITCHABLE LENS ANTENNA
H01Q 1/42	(47) 26.07.2023	WITH INTEGRATED FREQUENCY
H01Q 1/48	(87) US2015067179	SELECTIVE STRUCTURE
H01Q 9/04	30.06.2016	(73) HUAWEI TECHNOLOGIES CO., LTD.
H01Q 1/27	(22) 21.12.2015	(72) BOUTAYEB, Halim
H01Q 21/28	(54) ELECTRONIC ARTICLE AND	REPETA, Morris
(11) EP3472895	PROCESS OF PRODUCING AN	ZHAI, Wenyao
(21) EP17732706.1	ELECTRONIC ARTICLE	(31) 201816191630
(47) 26.07.2023	(73) TE Connectivity Corporation	(32) 15.11.2018
(87) US2017037524	(72) MOORE, Jerry, L.	(33) United States of America
28.12.2017	OAR, Michael, A.	(51) H01Q 3/44
(22) 14.06.2017	SCHOLZ, James, Paul	H01Q 15/00
(54) DIVERSITY ANTENNA FOR	RADZILOWSKI, Leonard, Henry	H04B 7/06
BODYPACK TRANSMITTER	BISHOP, Bruce, Foster	H01Q 3/26
(73) Shure Acquisition Holdings, Inc.	(31) 201414581707	(11) EP3692599
(72) DOWNS, Thomas John	(32) 23.12.2014	(21) EP18865155.8
ZACHARA, Christopher	(33) United States of America	(47) 26.07.2023
KNIPSTEIN, Christopher Richard	(51) H01Q 1/42	(87) US2018053759
(31) 201615187514	H01Q 9/40	11.04.2019
(32) 20.06.2016	H01Q 9/42	(22) 01.10.2018
(33) United States of America	H01Q 21/24	(54) TIME REVERSAL BEAMFORMING
(51) H01Q 1/22	(11) EP3616264	TECHNIQUES WITH METAMATERIAL
H01Q 5/25	(21) EP18724724.2	ANTENNAS
H01Q 1/24	(47) 26.07.2023	(73) Searete LLC
H01Q 5/364	(87) US2018029943	(72) ARNITZ, Daniel
H01Q 1/38	01.11.2018	HAGERTY, Joseph
H01Q 9/42	(22) 27.04.2018	URZHUMOV, Yaroslav A.
H01Q 9/40	(54) RADIO FREQUENCY ANTENNA FOR	REYNOLDS, Matthew S.
(11) EP3688836	SHORT RANGE COMMUNICATIONS	LIPWORTH, Guy Shlomo
(21) EP18862642.8	(73) DISH Technologies L.L.C.	HANNIGAN, Russell J.
(47) 26.07.2023	(72) NGUYEN, Phuc, H.	(31) 201715722973
(87) SE2018050997	(31) 201715582360	(32) 02.10.2017
04.04.2019	(32) 28.04.2017	(33) United States of America
(22) 28.09.2018	(33) United States of America	(51) H01Q 5/364
(54) WIDEBAND ANTENNA	(51) H01Q 1/42	H01Q 5/385
(73) Shortlink Resources AB	H01Q 19/19	H01Q 1/24
(72) FRIMAN, Alf	(11) EP3754785	H01Q 1/48
(31) 1751201	(21) EP18906409.0	H01Q 9/04
(32) 28.09.2017	(47) 26.07.2023	(11) EP2648278
(33) Sweden	(87) CN2018081240	(21) EP11845426.3
(51) H01Q 1/24	22.08.2019	(47) 26.07.2023
H01Q 13/18	(22) 30.03.2018	(87) CN2011081835
H01Q 1/42	(54) WIDE-BAND FLEXIBLE RADOME FOR	07.06.2012
H01Q 7/00	MICROWAVE ANTENNA	(22) 05.11.2011
H01Q 21/28	(73) Tongyu Communication Inc.	(54) PENTA-BAND INTERNAL ANTENNA
(11) EP3826107	(72) XIONG, Guohui	AND MOBILE COMMUNICATION
(21) EP18932363.7	CHEN, Pengyu	TERMINAL THEREOF
(47) 26.07.2023	XU, Chaolei	(73) Huizhou TCL Mobile Communication Co.,
(87) CN2018104694	LI, Xiao'nan	Ltd.
12.03.2020	LIN, Zeyin	(72) ZHANG, Lian
(22) 07.09.2018	LIU, Binbin	(31) 201010568427
(54) ANTENNA AND MOBILE TERMINAL	GUO, Hao'nan	(32) 01.12.2010
(73) HUAWEI TECHNOLOGIES CO., LTD.	(31) 201810149166	(33) China
(72) SOKOLOV, Konstantin	(32) 13.02.2018	(51) H01Q 5/371
MILOSAVLJEVIC, Zlatoljub	(33) China	H01Q 9/40
KROGERUS, Joonas	(51) H01Q 3/24	H01Q 9/42
MA, Guozhong	H01Q 3/34	H01Q 1/22
LIANG, Jiao	H01Q 13/00	H01Q 1/48
CHEN, Fengwen	H01Q 15/00	(11) EP3823096
KARILAINEN, Antti	H01Q 21/00	(21) EP20206598.3
TU, Dongxing	H01Q 3/44	(47) 26.07.2023
(51) H01Q 1/38	H01Q 15/04	(22) 10.11.2020
H01Q 1/22	(11) EP3867976	(54) ANTENNA STRUCTURE AND
H01Q 1/36	(21) EP19884544.8	ELECTRONIC DEVICE
H01Q 1/40	(47) 26.07.2023	(73) Pegatron Corporation

(72) YANG, Yi-Ru WU, Chien-Yi CHEN, Ming-Huang KO, Ching-Hsiang WU, Chao-Hsu HUANG, Shih-Keng WU, Cheng-Hsiung	(54) CONNECTING ARRANGEMENT AND METHOD FOR CONNECTING A CONNECTING ARRANGEMENT TO A COMPONENT (73) Auto-Kabel Management GmbH (72) SCHARKOWSKI, Oliver REDDER, Marie	(22) 06.02.2020 (54) CONNECTION TERMINAL (73) Phoenix Contact GmbH & Co. KG (72) JARMUTH, Volker (31) 102019106351 (32) 13.03.2019 (33) Germany
(31) 108141751 (32) 18.11.2019 (33) Taiwan, Chinese Taipei	(31) 102020108669 (32) 30.03.2020 (33) Germany	(51) H01R 4/50 H01R 43/00
(51) H01Q 5/371 H01Q 9/42 H01Q 5/335 H01Q 5/50 H01Q 1/24 H01Q 13/10 H01Q 1/44 H01Q 5/328 H01Q 5/378	(51) H01R 4/18 H01R 4/62 H01R 43/048 H01R 4/20 H01R 4/70 (11) EP2960993 (21) EP14753982.9 (47) 26.07.2023 (87) JP2014054240 28.08.2014 (22) 21.02.2014 (54) CRIMP CONTACT, METHOD FOR PRODUCING CRIMP CONTACT, WIRE CONNECTING STRUCTURE, AND METHOD FOR PRODUCING WIRE CONNECTING STRUCTURE (73) Furukawa Electric Co., Ltd. Furukawa Automotive Systems Inc.	(11) EP3631900 (21) EP18806503.1 (47) 26.07.2023 (87) CA2018050600 29.11.2018 (22) 23.05.2018 (54) WEDGE CONNECTOR ASSEMBLIES AND METHODS AND CONNECTIONS INCLUDING SAME (73) Tyco Electronics Canada ULC (72) GUPPY, Jonathan JOHNSON, Barry James RAHMAN, Sarzil (31) 201815981555 201762511616 P (32) 16.05.2018 26.05.2017 (33) United States of America United States of America
(11) EP3410534 (21) EP16887935.1 (47) 26.07.2023 (87) JP2016052484 03.08.2017 (22) 28.01.2016 (54) ANTENNA DEVICE (73) Fujitsu Limited (72) SAKURAI, Minoru YAMAGAJO, Takashi HOSHINO, Mitsuharu KAI, Manabu KOGA, Yohei TONOOKA, Tabito	(72) TAKAHASHI, Daisuke YAMAZAKI, Tomohiro KAWAMURA, Yukihiro KOZAWA, Masakazu YAMADA, Takuro TONOIKE, Takashi KAWATA, Masafumi KOBAYASHI, Hiroaki (31) 2014007261 2013034039 2013033975 (32) 17.01.2014 24.02.2013 23.02.2013 (33) Japan Japan Japan	(31) 201815981555 201762511616 P (32) 16.05.2018 26.05.2017 (33) United States of America United States of America
(51) H01Q 21/24 H01Q 5/40 H01Q 1/24 H01Q 1/48 H01Q 9/42 H01Q 13/10	(31) 2014007261 2013034039 2013033975 (32) 17.01.2014 24.02.2013 23.02.2013 (33) Japan Japan Japan	(51) H01R 9/05 H01R 13/11 H01R 13/434 H01R 4/18 H01R 24/40 (11) EP3849020 (21) EP21160715.5 (47) 26.07.2023 (22) 13.12.2019 (54) CONTACT MEMBER FOR ELECTRICAL CONNECTOR (73) Amphenol Corporation (72) Hoyack, Michael A. Capozzi, Kenneth Barthelmes, Owen Robert (31) 201862779030 P (32) 13.12.2018 (33) United States of America
(11) EP3952021 (21) EP20806465.9 (47) 26.07.2023 (87) CN2020078006 19.11.2020 (22) 05.03.2020 (54) ANTENNA DEVICE AND MOBILE TERMINAL (73) Huawei Technologies Co., Ltd. (72) CHANG, Le WANG, Hanyang WEI, Kunpeng ZHOU, Dawei YU, Yafang YU, Dong	(51) H01R 4/20 H01R 9/05 (11) EP3859895 (21) EP21154322.8 (47) 26.07.2023 (22) 29.01.2021 (54) CRIMP BARREL PREPARED FOR CRIMPING (73) TE Connectivity Germany GmbH (72) MUELLER, Wolfgang WEIDNER, Matthias SCHRETTLINGER, Christian DE CLOET, Olivier (31) 102020201137 (32) 30.01.2020 (33) Germany	(51) H01R 11/32 H01R 13/11 H01R 13/426 H01R 4/02 H01R 43/02 (11) EP3849021 (21) EP20212677.7 (47) 26.07.2023 (22) 09.12.2020 (54) SPLICE CONNECTOR ASSEMBLY AND METHOD OF ASSEMBLING A SPLICE CONNECTOR ASSEMBLY (73) Aptiv Technologies Limited (72) MELLOTT, Michael L. KIGHTLINGER, John BIZON, Don E. (31) 202016952753 202062958769 P (32) 19.11.2020 09.01.2020 (33) United States of America United States of America
(31) 201910401967 (32) 13.05.2019 (33) China	(31) 2014007261 2013034039 2013033975 (32) 17.01.2014 24.02.2013 23.02.2013 (33) Japan Japan Japan	(31) 201862779030 P (32) 13.12.2018 (33) United States of America
(51) H01R 4/02 H01R 4/30 H01R 4/34 H01R 43/02	(51) H01R 4/48 H01H 71/08 (11) EP3939121 (21) EP20703751.6 (47) 26.07.2023 (87) EP2020052987 17.09.2020	(51) H01R 11/32 H01R 13/11 H01R 13/426 H01R 4/02 H01R 43/02 (11) EP3849021 (21) EP20212677.7 (47) 26.07.2023 (22) 09.12.2020 (54) SPLICE CONNECTOR ASSEMBLY AND METHOD OF ASSEMBLING A SPLICE CONNECTOR ASSEMBLY (73) Aptiv Technologies Limited (72) MELLOTT, Michael L. KIGHTLINGER, John BIZON, Don E. (31) 202016952753 202062958769 P (32) 19.11.2020 09.01.2020 (33) United States of America United States of America
(11) EP4094326 (21) EP21712072.4 (47) 26.07.2023 (87) EP2021056021 07.10.2021 (22) 10.03.2021	(51) H01R 4/48 H01H 71/08 (11) EP3939121 (21) EP20703751.6 (47) 26.07.2023 (87) EP2020052987 17.09.2020	(51) H01R 11/32 H01R 13/11 H01R 13/426 H01R 4/02 H01R 43/02 (11) EP3849021 (21) EP20212677.7 (47) 26.07.2023 (22) 09.12.2020 (54) SPLICE CONNECTOR ASSEMBLY AND METHOD OF ASSEMBLING A SPLICE CONNECTOR ASSEMBLY (73) Aptiv Technologies Limited (72) MELLOTT, Michael L. KIGHTLINGER, John BIZON, Don E. (31) 202016952753 202062958769 P (32) 19.11.2020 09.01.2020 (33) United States of America United States of America

(51) H01R 12/58	H01R 13/436	(47) 26.07.2023
H01R 13/03	H01R 13/506	(22) 31.03.2017
(11) EP3751669	H01R 13/629	(54) LEVER CONNECTOR AND PRINTED
(21) EP20178848.6	(11) EP3544124	CIRCUIT BOARD PROVIDED WITH
(47) 26.07.2023	(21) EP19161787.7	SUCH CONNECTORS
(22) 08.06.2020	(47) 26.07.2023	(73) Amphenol - Air LB
(54) PRESS-FIT TERMINAL WITH	(22) 11.03.2019	(72) CAYZAC, Gaspard
IMPROVED WHISKER INHIBITION	(54) CONNECTOR	(31) 1653681
(73) Rohm and Haas Electronic Materials LLC	(73) Yazaki Corporation	(32) 26.04.2016
(72) HE, Flora	(72) MASUDA, Satoki	(33) France
(31) 201962859496 P	SATO, Yoshinao	
(32) 10.06.2019	(31) 2018052911	(51) H01R 13/6582
(33) United States of America	(32) 20.03.2018	H01R 13/6587
(51) H01R 12/58	(33) Japan	H01R 24/60
H01R 13/66	(51) H01R 13/424	H01R 13/627
G01K 1/14	H01R 13/506	H01R 13/6594
G01K 1/18	H01R 24/66	(11) EP3392983
B60L 53/16	H01R 13/11	(21) EP16875296.2
B60L 53/302	(11) EP3542423	(47) 26.07.2023
H01R 13/52	(21) EP17809225.0	(87) JP2016083332
H01R 27/02	(47) 26.07.2023	22.06.2017
(11) EP3930105	(87) EP2017079907	(22) 10.11.2016
(21) EP21181200.3	24.05.2018	(54) CONNECTOR
(47) 26.07.2023	(22) 21.11.2017	(73) HIROSE ELECTRIC CO., LTD.
(22) 23.06.2021	(54) ELECTRICAL CONNECTION WITH AN	(72) SAKAIZAWA Tadashi
(54) HIGH-CURRENT CONTACT DEVICE	ELECTRIC SOCKET COMPENSATING	(31) 2015246890
(73) TE Connectivity Germany GmbH	FOR TOLERANCES	(32) 18.12.2015
(72) HEISS, Dominik	(73) Amphenol-Tuchel Electronics GmbH	(33) Japan
MEISSNER, Tobias	(72) UNGERER, Christian	
WITTROCK, Frank	KERNER, Wolfgang	(51) H01R 13/66
KOWARSCH, Philipp	(31) 102016122396	H01R 13/11
(31) 102020116535	(32) 21.11.2016	H01R 13/18
(32) 23.06.2020	(33) Germany	G01K 1/14
(33) Germany		B60L 53/16
(51) H01R 12/71	(51) H01R 13/516	(11) EP3973598
H01R 12/73	H01R 13/629	(21) EP20724472.4
H01R 13/6594	(11) EP3869625	(47) 26.07.2023
H01R 13/6582	(21) EP21159019.5	(87) EP2020062496
H01R 13/516	(47) 26.07.2023	26.11.2020
(11) EP3761454	(22) 24.02.2021	(22) 06.05.2020
(21) EP20166848.0	(54) ANGLED PLUG CONNECTION AND	(54) PLUG CONNECTOR PART HAVING
(47) 26.07.2023	ELECTRICALLY HEATED WINDSHIELD	A SENSOR DEVICE ARRANGED ON
(22) 30.03.2020	WIPER WITH SUCH AN ANGLED PLUG	CONTACT LAMELLAE OF A CONTACT
(54) PLUG AND SOCKET CONNECTORS	CONNECTION	ELEMENT
(73) Electric Connector Technology Co. Ltd.	(73) TE Connectivity Germany GmbH	(73) Phoenix Contact e-Mobility GmbH
(72) ZHANG, Sean	(72) PANITZ, Gregor	(72) FÜHRER, Thomas
ZHAO, Sam	(31) 102020202352	(31) 102019113591
ZHANG, Chao	(32) 24.02.2020	(32) 22.05.2019
(31) 201910589985	(33) Germany	(33) Germany
(32) 02.07.2019		
(33) China	(51) H01R 13/52	(51) H01R 13/74
(51) H01R 12/71	H01R 13/629	(11) EP3599674
H01R 13/6585	H01R 13/74	(21) EP19187049.2
H01R 12/73	(11) EP4002603	(47) 26.07.2023
(11) EP3836309	(21) EP21209222.5	(22) 18.07.2019
(21) EP20212682.7	(47) 26.07.2023	(54) FLEXING MOUNTING CLIP FOR AN
(47) 26.07.2023	(22) 19.11.2021	ELECTRICAL ASSEMBLY
(22) 09.12.2020	(54) ELECTRICAL CONNECTOR WITH A	(73) TE Connectivity Corporation
(54) CONNECTOR FOR HIGH-SPEED	LEVER LOCKING MEMBER AND MATE	(72) Stack, Daniel Franklin
TRANSMISSION	ASSIST MECHANISM	Narang, Rohan
(73) Yamaichi Electronics Co., Ltd.	(73) Aptiv Technologies Limited	Klein, David Allen
(72) TAKAI, Yosuke	(72) DOBERNIG, Norbert	(31) 201816043897
ITO, Toshiyasu	PRASANNA, Ramakrishnan	(32) 24.07.2018
ENJOJI, Taichi	(31) 202018304	(33) United States of America
(31) 201911264665	(32) 20.11.2020	
(32) 11.12.2019	(33) United Kingdom	(51) H01R 24/76
(33) China		H02G 3/10
(51) H01R 13/193	(51) H01R 13/629	H02G 3/16
	H01R 13/6581	H02G 3/18
	(11) EP3240119	H01H 23/08
	(21) EP17164059.2	H01H 23/20
		H01R 9/24

H01R 24/78	H01S 3/00	G01S 17/10
H01R 25/00	H01S 3/13	G01S 7/484
(11) EP3840136	H01S 3/137	H01S 5/0239
(21) EP20211749.5	H01S 3/131	H01S 5/062
(47) 26.07.2023	(11) EP3949038	H01S 5/183
(22) 04.12.2020	(21) EP19714579.0	H05B 45/12
(54) MECHANISM FOR ELECTRICAL EQUIPMENT, ASSOCIATED ELECTRICAL ASSEMBLY AND ELECTRICAL EQUIPMENT	(47) 26.07.2023	H05B 47/105
(73) Legrand France	(87) EP2019057458	(11) EP3859393
Legrand SNC	01.10.2020	(21) EP21152620.7
(72) CHAUMENY, Jean-Luc	(22) 25.03.2019	(47) 26.07.2023
(31) 1915136	(54) APPARATUS AND METHOD FOR MULTIPLE FREQUENCY COMB GENERATION AND APPLICATIONS THEREOF	(22) 20.01.2021
(32) 20.12.2019	(73) Max-Planck-Gesellschaft zur Förderung der Wissenschaften E. V.	(54) LIGHT SOURCE SYSTEM
(33) France	Ludwig-Maximilians-Universität München	(73) Analog Devices International Unlimited Company
(51) H01R 24/78	(72) KRAUSZ, Ferenc	(72) NEIL, David
H01R 27/00	BRONS, Jonathan	HURWITZ, Jonathan
H01R 31/06	PRONIN, Oleg	(31) 202017080629
H01R 13/24	IANDULSKII, Maksim	202016780761
H01R 103/00	MAK, Ka Fai	202016780735
H02G 3/16	(51) H01S 5/02212	(32) 26.10.2020
H02G 3/12	H01S 5/02253	03.02.2020
(11) EP4037111	H01S 5/02255	03.02.2020
(21) EP21153880.6	H01S 5/40	(33) United States of America
(47) 26.07.2023	H01S 5/00	United States of America
(22) 27.01.2021	(11) EP4012853	United States of America
(54) ELECTRICAL CONNECTION SYSTEM AND ELECTRICAL CONNECTION DEVICE	(21) EP20212917.7	(51) H01T 4/08
(73) Gavino, Denis	(47) 26.07.2023	H02B 13/035
(72) Gavino, Denis	(22) 09.12.2020	H01C 7/12
(51) H01R 31/06	(54) SEMICONDUCTOR PACKAGE, ASSEMBLY, AND APPARATUS	H01T 1/16
(11) EP3252884	(73) Laserworld (Switzerland) AG	H01T 21/06
(21) EP16001236.5	(72) Luque, Jordi	H01H 3/42
(47) 26.07.2023	(51) H01S 5/024	H01H 3/46
(22) 01.06.2016	(11) EP3704771	(11) EP3514899
(54) COMPACT TRAVELLING PLUG	(21) EP18795728.7	(21) EP17850861.0
(73) Travel Blue Limited	(47) 26.07.2023	(47) 26.07.2023
(72) Hutchinson, Bruce	(87) GB2018052975	(87) JP2017032746
Norman, Richard	09.05.2019	22.03.2018
Barnett, Alasdair	(22) 16.10.2018	(22) 12.09.2017
(51) H01S 3/00	(54) LASER DIODE ARRAY	(54) LIGHTNING ARRESTER
H01S 3/13	(73) BAE Systems PLC	(73) Kabushiki Kaisha Toshiba
H05H 7/02	(72) HOLLAND, Graham Andrew	Toshiba Energy Systems & Solutions Corporation
(11) EP2560250	(31) 201717795	(72) FUJIWARA Kaneharu
(21) EP12180068.4	(32) 30.10.2017	FUKANO Takato
(47) 26.07.2023	(33) United Kingdom	KUBO, Katsutaka
(22) 10.08.2012	(51) H01S 5/028	MIZUTANI Manabu
(54) System and method for generating a synchronisation control signal	H01S 5/16	OKANARI Nobuaki
(73) Deutsches Elektronen-Synchrotron DESY	(11) EP3399606	(31) 2016181891
(72) Lamb, Thorsten	(21) EP16881766.6	(32) 16.09.2016
Schlarb, Holger	(47) 26.07.2023	(33) Japan
(31) 102011111114	(87) JP2016088872	(51) H01T 4/10
(32) 19.08.2011	06.07.2017	H01T 4/12
(33) Germany	(22) 27.12.2016	(11) EP3411932
(51) H01S 3/094	(54) METHOD FOR MANUFACTURING SEMICONDUCTOR LASER ELEMENT	(21) EP17701496.6
H01S 3/16	(73) Furukawa Electric Co., Ltd.	(47) 26.07.2023
H01S 3/081	(72) OHKI, Yutaka	(87) EP2017051562
H01S 3/06	TAJIMA, Masafumi	10.08.2017
H01S 3/23	(31) 2016162910	(22) 25.01.2017
H01S 3/139	201562271814 P	(54) ARRESTER FOR SURGE PROTECTION
H01S 3/11	(32) 23.08.2016	(73) TDK Electronics AG
H01S 3/105	28.12.2015	(72) DORSCH, Eduard
H01S 3/082	(33) Japan	WERNER, Frank
H01S 3/1112	United States of America	(31) 102016101728
	(51) H01S 5/042	(32) 01.02.2016
		(33) Germany
		(51) H02B 1/21
		H02G 5/02

(11) EP3683908	ELECTRIC ENERGY AND PLUG	Legrand France
(21) EP18853674.2	CONTACT	(72) BAUDOU, Alain
(47) 26.07.2023	(73) Heinen Elektronik GmbH	JANICOT, Laurent
(87) BR2018050328	(72) HEINEN, Peter	MALISCHEWSKI, Frédéric
14.03.2019	HELLMANN, Reiner	(31) 1915126
(22) 10.09.2018	(31) 202017001434 U	(32) 20.12.2019
(54) ELECTRICAL CABINET WITH A	(32) 17.03.2017	(33) France
CONDUCTING BUSBAR	(33) Germany	(51) H02G 3/12
(73) Francisquini, Melquisedec	(51) H02G 3/04	(11) EP3886280
(72) Francisquini, Melquisedec	B60R 16/02	(21) EP21164361.4
(31) 102017019384	F16L 57/00	(47) 26.07.2023
(32) 11.09.2017	(11) EP2889973	(22) 23.03.2021
(33) Brazil	(21) EP13830678.2	(54) ELECTRIC INSTALLATION SYSTEM
(51) H02B 1/40	(47) 26.07.2023	(73) Fabrica Electrotecnica Josa, S.A.U.
H02G 3/10	(87) JP2013072550	(72) Busquets Flo, Jorge
(11) EP3840143	27.02.2014	(31) 202030248
(21) EP20211685.1	(22) 23.08.2013	(32) 26.03.2020
(47) 26.07.2023	(54) WIRE HARNESS EXTERIOR MEMBER	(33) Spain
(22) 03.12.2020	AND WIRE HARNESS	(51) H02G 9/02
(54) ELECTRIC BOX TO BE FIXED ON A	(73) Yazaki Corporation	H02G 1/10
SURFACE OF A SUPPORT	(72) OGUE, Takeshi	H02G 3/22
(73) Legrand SNC	YOSHIDA, Hiroyuki	E02B 17/00
Legrand France	SUGURO, Masaaki	(11) EP3747096
(72) BAUDOU, Alain	OZAKI, Yoshiaki	(21) EP19704387.0
(31) 1915129	OGA, Tatsuya	(47) 26.07.2023
(32) 20.12.2019	INAO, Shinichi	(87) GB2019050235
(33) France	ADACHI, Hideomi	08.08.2019
(51) H02G 3/00	(31) 2012183752	(22) 29.01.2019
H02G 3/10	(32) 23.08.2012	(54) MOUNTING DEVICE FOR AN
H02G 1/00	(33) Japan	ELONGATE FLEXIBLE MEMBER
G01C 9/26	(51) H02G 3/04	(73) First Subsea Limited
(11) EP3840148	H02G 3/22	(72) BENNETT, Stephen James
(21) EP19218845.6	(11) EP2978089	THOMSON, Craig Richard
(47) 26.07.2023	(21) EP15305978.7	LITTLE, Anthony John
(22) 20.12.2019	(47) 26.07.2023	(31) 201801497
(54) ELECTRICAL DEVICE	(22) 24.06.2015	(32) 30.01.2018
(73) Berker GmbH & Co. KG	(54) CHUTE	(33) United Kingdom
(72) Barbero, Andrea	(73) Legrand France	(51) H02G 15/14
Ward, Ian	Legrand SNC	G01R 1/04
Guidetti, Fabrizio	(72) BUARD, Yvon	G01D 11/24
Paderno, Alberto	LOCHET, Anthony	H01R 13/52
(51) H02G 3/02	(31) 1457230	H02G 15/22
F03D 80/80	(32) 25.07.2014	E21B 33/038
H02G 3/32	(33) France	H02G 15/00
(11) EP3570395	(51) H02G 3/04	H01R 13/66
(21) EP17892075.7	H05K 7/14	(11) EP3360215
(47) 26.07.2023	E05D 7/10	(21) EP16727337.4
(87) CN2017107264	(11) EP3806253	(47) 26.07.2023
04.10.2018	(21) EP20200494.1	(87) EP2016061566
(22) 23.10.2017	(47) 26.07.2023	26.05.2017
(54) CABLE TWISTING PROTECTING	(22) 07.10.2020	(22) 23.05.2016
DEVICE AND WIND TURBINE	(54) CABLE MANAGEMENT SYSTEMS	(54) DUAL OUTPUT SUBSEA SENSOR
COMPRISING THE DEVICE	(73) Schroff GmbH	CONNECTION ASSEMBLY, SENSOR
(73) Beijing Goldwind Science & Creation	(72) THOMAS, Daniel	ASSEMBLY AND SUBSEA CABLE
Windpower Equipment Co., Ltd.	MARCINKOWSKI, Christophe	HARNESS
(72) GUO, Dadong	(31) 201962911776 P	(73) Siemens Energy AS
XU, Yong	(32) 07.10.2019	(72) HALDORSEN, Kjetil
(31) 201710195974	(33) United States of America	EASTOE, Andrew Robert
(32) 28.03.2017	(51) H02G 3/08	(31) 15194951
(33) China	H02G 3/10	(32) 17.11.2015
(51) H02G 3/04	H02G 3/14	(33) European Patent Office (EPO)
(11) EP3376619	(11) EP3840151	(51) H02H 1/00
(21) EP18162593.0	(21) EP20211754.5	G06F 1/00
(47) 26.07.2023	(47) 26.07.2023	G06Q 50/00
(22) 19.03.2018	(22) 04.12.2020	(11) EP3232525
(54) HOUSING FOR A CONTACT ELEMENT	(54) ELECTRICAL BOX AND ASSOCIATED	(21) EP16165257.3
FOR INTERCEPTION-PROOF SUPPLY	ELECTRICAL EQUIPMENT	(47) 26.07.2023
OF AN IT COMPONENT WITH	(73) Legrand SNC	(22) 14.04.2016

(54) AN ACCESSORY DEVICE FOR AN ELECTRONIC PROTECTION RELAY	(54) TRANSIENT OVER VOLTAGE AND LIGHTNING PROTECTION OF POWER CONNECTED EQUIPMENT	SANDOVAL, Michael, Luis SCHAPER, Brian VETTRIVEL, Vishnu MASTER, Neel ZHANG, Pengbo
(73) ABB S.p.A.	(73) ABB AG	
(72) Cogi, Matteo Panseri, Riccardo Stucchi, Marco	(72) Herrington, Keith D.	
(51) H02H 6/00	(31) 15002357	(31) 201615096091
G01K 7/16	(32) 07.08.2015	201662304034 P
B25F 5/00	(33) European Patent Office (EPO)	(32) 11.04.2016
(11) EP3838498	(51) H02J 3/30	04.03.2016
(21) EP20212436.8	H02J 15/00	(33) United States of America
(47) 26.07.2023	H02K 7/02	United States of America
(22) 08.12.2020	H02K 7/09	(51) H02J 7/00
(54) ELECTRIC TOOL, MEASURING DEVICE AND METHOD FOR OPERATING AN ELECTRIC TOOL	(11) EP3804069	(11) EP3800761
(73) Metabowerke GmbH	(21) EP18746088.6	(21) EP19844061.2
(72) Prescher, Benjamin	(47) 26.07.2023	(47) 26.07.2023
(31) 102019134777	(87) DK2018000017	(87) CN2019091992
(32) 17.12.2019	28.11.2019	06.02.2020
(33) Germany	(22) 25.05.2018	(22) 20.06.2019
(51) H02H 7/122	(54) MOTION-STATE DEPENDENT OPERATION OF KINETIC GENERATOR ON A MARINE VESSEL OR PLATFORM	(54) BATTERY CONTROL SYSTEM AND METHOD, AND ELECTRONIC DEVICE
H02J 1/10	(73) Noble Drilling A/S	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
H02M 1/36	(72) PEDERSEN, John Røn HØFFNER, Jan	(72) ZHANG, Jialiang
(11) EP2988386	(51) H02J 3/38	(31) 201810867081
(21) EP15183689.7	(11) EP3631932	(32) 01.08.2018
(47) 26.07.2023	(21) EP18732562.6	(33) China
(22) 05.12.2008	(47) 26.07.2023	(51) H02J 7/02
(54) SYSTEM AND METHOD FOR PROTECTION IN POWER INSTALLATIONS	(87) US2018035022	H02M 3/156
(73) Solaredge Technologies Ltd.	06.12.2018	(11) EP3567699
(72) Adest, Meir	(22) 30.05.2018	(21) EP19180768.4
Gazit, Meir	(54) SYSTEMS AND METHODS FOR ISLANDING DETECTION	(47) 26.07.2023
Fishelov, Amir	(73) Schneider Electric Solar Inverters USA, Inc.	(22) 28.06.2017
Handelsman, Lior	(72) AULAGNIER, Vincent ZHANG, Qing VANWERKHOVEN, Steven	(54) CHARGING DEVICE AND METHOD, POWER ADAPTER AND TERMINAL
Galin, Yoav	(31) 201762513187 P	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
Sella, Guy	(32) 31.05.2017	(72) ZHANG, Jun
(31) 328742	(33) United States of America	TIAN, Chen
(32) 04.12.2008	(51) H02J 7/00	CHEN, Shebiao
(33) United States of America	(11) EP4123867	ZHANG, Jialiang
(51) H02H 7/26	(21) EP21203199.1	WAN, Shiming
H02H 3/30	(47) 26.07.2023	LI, Jiada
G01R 31/08	(22) 18.10.2021	(31) 201610599657
(11) EP3460936	(54) SMART BATTERY DEVICE, AND ELECTRONIC DEVICE THEREOF	(32) 26.07.2016
(21) EP17891483.4	(73) Quanta Computer Inc.	(33) China
(47) 26.07.2023	(72) YEN, Wei-Ting	(51) H02J 7/35
(87) CN2017083926	(31) 110126359	H02J 3/38
19.07.2018	(32) 19.07.2021	H02S 50/10
(22) 11.05.2017	(33) Taiwan, Chinese Taipei	(11) EP3907882
(54) PILOT PROTECTION METHOD FOR TRANSMISSION LINE OF NEW ENERGY STATION BASED ON CURRENT WAVEFORM SIMILARITY	(51) H02J 7/00	(21) EP20869537.9
(73) North China Electric Power University	(11) EP3424139	(47) 26.07.2023
(72) YANG, Qixun	(21) EP17760987.2	(87) CN2020094176
BI, Tianshu	(47) 26.07.2023	01.04.2021
JIA, Ke	(87) US2017020960	(22) 03.06.2020
LI, Yanbin	08.09.2017	(54) OPTIMIZER, PHOTOVOLTAIC POWER GENERATION SYSTEM, AND I-V CURVE SCANNING METHOD FOR PHOTOVOLTAIC ASSEMBLY
(31) 201710017380	(22) 06.03.2017	(73) Huawei Digital Power Technologies Co., Ltd.
(32) 10.01.2017	(54) USING BATTERY DC CHARACTERISTICS TO CONTROL POWER OUTPUT	(72) CHEN, Dong
(33) China	(73) Veritone Alpha, Inc.	SHI, Lei
(51) H02H 9/04	(72) CROSS, Jonathan	WANG, Zhaohui
(11) EP3128633	WEISS, Brandon	(31) 201910901754
(21) EP16167457.7	KOHN, Wolf	(32) 23.09.2019
(47) 26.07.2023	KETTLER, David	(33) China
(22) 28.04.2016		(51) H02J 9/06
		(11) EP3806281

(21) EP20200943.7	KYRIAZIDOU, Chrissyola	(51) H02K 1/278
(47) 26.07.2023	(31) 201815973991	H02K 1/32
(22) 09.10.2020	201762506556 P	H02K 9/19
(54) METHOD FOR REDUCING UPS COMPONENT STRESSES DURING TRANSITION FROM INVERTER TO GREEN/BYPASS OPERATION	201762505813 P	(11) EP3667870
(73) Schneider Electric IT Corporation	(32) 08.05.2018	(21) EP18212263.0
(72) LIN, Wei-Hsiang	15.05.2017	(47) 26.07.2023
SANNER, Adam Daniel	12.05.2017	(22) 13.12.2018
(31) 201962914034 P	(33) United States of America	(54) COOLING OF ELECTRIC MOTORS
(32) 11.10.2019	United States of America	(73) Hamilton Sundstrand Corporation
(33) United States of America	United States of America	(72) SAWATA, Tadashi
(51) H02J 50/00	(51) H02K 1/06	PAGE, Andrew
H02J 50/12	(11) EP3240143	(51) H02K 1/30
H02J 50/90	(21) EP17000681.1	H02K 7/00
(11) EP4033638	(47) 26.07.2023	H02K 7/10
(21) EP22152777.3	(22) 24.04.2017	H02K 7/18
(47) 26.07.2023	(54) LAMINATION PACK FOR THE PROCESSING OF STATORS AND/OR ROTORS OF ELECTRIC MOTORS AND GENERATORS	(11) EP3796524
(22) 21.01.2022	(73) Kienle + Spiess GmbH	(21) EP20193048.4
(54) WIRELESS CHARGING DEVICE, AUTOMATIC ALIGNMENT METHOD, AND CHARGING DOCK	(72) Rist, Rudolf	(47) 26.07.2023
(73) Huawei Digital Power Technologies Co., Ltd.	Hertfelder, Marc	(22) 27.08.2020
(72) WU, Baoshan	Böker, Björn	(54) ENGINE-AND-ELECTRIC-MACHINE ASSEMBLY
WU, Donghao	(31) 102016005329	(73) Jing-Jin Electric Technologies Co., Ltd
(31) 202110082508	(32) 26.04.2016	(72) GUO, Zhicheng
(32) 21.01.2021	(33) Germany	ZHOU, Yao
(33) China	(51) H02K 1/18	YU, Ping
(51) H02J 50/12	H02K 1/14	LING, Xinliang
H01F 38/14	(11) EP3937349	(31) 201910882435
H02J 7/02	(21) EP20791083.7	(32) 18.09.2019
H02J 5/00	(47) 26.07.2023	(33) China
(11) EP3373411	(87) JP2020009152	(51) H02K 3/12
(21) EP16862488.0	22.10.2020	H02K 3/28
(47) 26.07.2023	(22) 04.03.2020	(11) EP3829033
(87) KR2016012682	(54) STATOR AND MOTOR	(21) EP20206402.8
11.05.2017	(73) DAIKIN INDUSTRIES, LTD.	(47) 26.07.2023
(22) 04.11.2016	(72) TAKAYAMA, Yoshinori	(22) 09.11.2020
(54) WIRELESS POWER TRANSMITTER AND RECEIVER FOR VEHICLE	OKABE, Shougo	(54) STATOR WINDING ARRANGEMENT
(73) LG Electronics Inc.	INOUE, Kouji	(73) Rolls-Royce plc
(72) SEO, Jeongkyo	OHTSUJI, Motofumi	(72) Shirokov, Vladimir
LEE, Jaesung	(31) 2019078434	(31) 201917313
CHAE, Beomseok	(32) 17.04.2019	(32) 28.11.2019
LEE, Jihyun	(33) Japan	(33) United Kingdom
PARK, Jinmoo	(51) H02K 1/18	(51) H02K 3/24
(31) 201562251118 P	H02K 1/30	H02K 3/51
(32) 05.11.2015	H02K 1/2786	H02K 9/06
(33) United States of America	H02K 7/00	H02K 9/08
(51) H02J 50/23	H02K 15/16	H02K 9/10
H04B 5/00	H02K 7/18	(11) EP3681016
H02J 50/40	(11) EP3965263	(21) EP19151340.7
(11) EP3635845	(21) EP20814881.7	(47) 26.07.2023
(21) EP18797695.6	(47) 26.07.2023	(22) 11.01.2019
(47) 26.07.2023	(87) CN2020072975	(54) GENERATOR ROTOR AND END WINDING BLOCKING MEMBER FOR A TURBOGENERATOR
(87) US2018031768	03.12.2020	(73) General Electric Company
15.11.2018	(22) 19.01.2020	(72) MINUTH, Oliver
(22) 09.05.2018	(54) ELECTRIC MACHINE AND ASSEMBLING METHOD FOR ELECTRIC MACHINE	AUGE, Christian
(54) NEAR-FIELD ANTENNAS FOR ACCUMULATING ENERGY AT A NEAR-FIELD DISTANCE WITH MINIMAL FAR-FIELD GAIN	(73) Beijing Goldwind Science & Creation Windpower Equipment Co. Ltd.	WALTER, Wolfgang
(73) Energeous Corporation	(72) WANG, Dong	HOFFMANN, Mathias
(72) KORNAROS, Evangelos	HU, Baofu	GVOZDEVSKIY, Denis
KABIRI, Saman	PENG, Liang	(51) H02K 5/20
HOSSEINI, Alister	LIU, Chengqian	B64D 27/24
	LI, Yanhui	F02K 5/00
	(31) 201910440569	H02K 7/14
	(32) 24.05.2019	H02K 9/14
	(33) China	H02K 9/19
		H02K 9/19
		H02K 9/20
		(11) EP3807980
		(21) EP19735001.0

(47) 26.07.2023	(72) VORBOHLE, Thomas	03.03.2017
(87) US2019036730	BETTENWORTH, Manuel	(33) United Kingdom
19.12.2019	ACHTERBERG, Jan	United Kingdom
(22) 12.06.2019	BRINKER, Andreas	United Kingdom
(54) ELECTRIC MOTOR HAVING AN	(31) 102020110795	(51) H02M 1/38
INTEGRATED COOLING SYSTEM	(32) 21.04.2020	H02M 7/5387
AND METHODS OF COOLING AN	(33) Germany	H03K 17/14
ELECTRIC MOTOR	(51) H02K 15/00	H03K 17/28
(73) General Electric Company	(11) EP3785354	H03K 17/13
(72) CHAN, Mark Aaron Chan	(21) EP19728262.7	(11) EP4033649
HOEFLER, Florian Stefan	(47) 26.07.2023	(21) EP21305084.2
GERSTLER, William Dwight	(87) US2019032655	(47) 26.07.2023
(31) 201816006094	05.12.2019	(22) 25.01.2021
(32) 12.06.2018	(22) 16.05.2019	(54) ON-LINE DEAD-TIME ADJUSTMENT
(33) United States of America	(54) FALSE TOOTH ASSEMBLY FOR	BASED ON A TEMPERATURE
(51) H02K 5/20	GENERATOR STATOR CORE	SENSITIVE ELECTRICAL PARAMETER
H02K 1/20	(73) Siemens Energy, Inc.	(73) Mitsubishi Electric Corporation
H02K 7/18	(72) WHITENER, Randy Edward	(72) BRANDELERO, Julio
H02K 9/04	YAFFEE, Donald	DEGRENNE, Nicolas
(11) EP4007132	BELL, Shane	(51) H02M 1/42
(21) EP20859584.3	(31) 201815994114	B60L 53/00
(47) 26.07.2023	(32) 31.05.2018	H02J 7/02
(87) CN2020112043	(33) United States of America	H02M 7/797
04.03.2021	(51) H02K 15/02	H02M 1/00
(22) 28.08.2020	C25D 1/00	(11) EP3954029
(54) DEVICE FOR REDUCING	(11) EP3637598	(21) EP19739828.2
CIRCUMFERENTIAL TEMPERATURE	(21) EP19201142.7	(47) 26.07.2023
DIFFERENCE BETWEEN COIL AND	(47) 26.07.2023	(87) US2019039190
CORE OF LARGE-DIAMETER MOTOR	(22) 02.10.2019	14.05.2020
(73) Dongfang Electric Machinery Co., Ltd.	(54) ELECTROFORMING ASSEMBLIES	(22) 26.06.2019
(72) JIANG, Xiaoping	FOR ELECTRICAL MACHINES	(54) BIDIRECTIONAL POWER
LIAO, Yigang	(73) GE Aviation Systems LLC	CONVERSION SYSTEM AND
WANG, Chao	(72) SWAMINATHAN, Srinivasan	CONTROL METHOD
ZHOU, Guanghou	RAMAKRISHNAIAH, Mamatha	(73) Huawei Digital Power Technologies Co.,
YANG, Yan	SRIDHARAN, Balamurugan	Ltd.
WANG, Fengjun	JONNALAGADDA, Dattu	(72) FU, Dianbo
(31) 201910813315	(31) 201816154498	YE, Liming
(32) 30.08.2019	(32) 08.10.2018	DAI, Heping
(33) China	(33) United States of America	(51) H02M 3/07
(51) H02K 7/00	(51) H02K 41/03	H02M 1/00
H02K 15/12	H02K 11/01	(11) EP3921934
H02K 1/18	H02K 3/47	(21) EP19726836.0
(11) EP3972098	(11) EP3627673	(47) 26.07.2023
(21) EP20460038.1	(21) EP18195710.1	(87) US2019031799
(47) 26.07.2023	(47) 26.07.2023	19.11.2020
(22) 17.09.2020	(22) 20.09.2018	(22) 10.05.2019
(54) ARRANGEMENT FOR AN ELECTRIC	(54) SEGMENTED SECONDARY PART FOR	(54) SWITCHED CAPACITOR CONVERTER
MACHINE WITH IMPROVED RESIN	A LINEAR MOTOR	AND CONTROL METHOD
FILLING FOR STATOR WINDINGS	(73) ETEL S.A.	(73) Huawei Digital Power Technologies Co.,
(73) Valeo eAutomotive Germany GmbH	(72) MORENO, Loïc	Ltd.
(72) Günther, Rebecca	TAMELLINI, Valerio	(72) LI, Yushan
Dörmer, Thomas	BISCHOFF, Pierre Alexandre	(51) H02M 3/156
Tomiczek, Robert	SZCZUKIEWICZ, Sylwia	H02M 3/335
Menz, Michael	(51) H02K 49/10	(11) EP3968506
Kirchner, Barbara	(11) EP3590182	(21) EP20195998.8
(51) H02K 7/18	(21) EP18715061.0	(47) 26.07.2023
H02K 41/03	(47) 26.07.2023	(22) 14.09.2020
H02J 50/10	(87) GB2018050494	(54) METHOD AND SYSTEM FOR
B60L 5/00	07.09.2018	CONTROLLING A SWITCHING
(11) EP4122084	(22) 27.02.2018	CONVERTER
(21) EP21720735.6	(54) MAGNETIC COUPLING AND METHOD	(73) Siemens Aktiengesellschaft
(47) 26.07.2023	(73) Cleaner World Technologies Ltd	(72) Hallak, Jalal
(87) EP2021060348	(72) LEWIS, Simon	(51) H02M 7/487
28.10.2021	(31) 201800156	B60L 58/21
(22) 21.04.2021	201721117	(11) EP3925816
(54) SWITCH-ON UNIT IN A LINEAR	201703452	(21) EP21178222.2
TRANSPORT SYSTEM	(32) 05.01.2018	(47) 26.07.2023
(73) Beckhoff Automation GmbH	18.12.2017	

(22) 08.06.2021	(22) 28.09.2018	(21) EP15906953.3
(54) VEHICLE DRIVE SYSTEM WITH A REMOVABLE BATTERY	(54) METHOD AND APPARATUS FOR COMMUTATION OF DRIVE COILS IN A LINEAR DRIVE SYSTEM WITH INDEPENDENT MOVERS	(47) 26.07.2023
(73) MAZDA MOTOR CORPORATION	(73) Rockwell Automation Technologies, Inc.	(87) CN2015093181
(72) HIRANO, Seiyo	(72) DAS, Jadav	04.05.2017
FURUKAWA, Akihiro	(31) 201715719153	(22) 29.10.2015
USAMI, Ikuo	(32) 28.09.2017	(54) ADJUSTABLE CIRCUIT FOR PERSONAL ELECTRIC CLEANING CARE APPLIANCE
KOTANI, Kazuya	(33) United States of America	(73) Shanghai Shift Electrics Co., Ltd.
(31) 2020106230	(51) H02P 9/10	(72) DAI, Xiaoguo
(32) 19.06.2020	(11) EP3146626	XU, Zhenwu
(33) Japan	(21) EP15725814.6	DAI, Ling
(51) H02N 1/08	(47) 26.07.2023	(51) H02S 20/10
B81B 3/00	(87) FR2015051146	F24S 25/12
(11) EP3896838	26.11.2015	F24S 25/636
(21) EP20744736.8	(22) 28.04.2015	H02S 30/00
(47) 26.07.2023	(54) ROTATING ELECTRIC MACHINE FOR A MOTOR VEHICLE	F24S 25/60
(87) JP2020001967	(73) Valeo Equipements Electriques Moteur	(11) EP3970270
30.07.2020	(72) GRANZIERA, Cyril	(21) EP20726313.8
(22) 21.01.2020	MALBRANQUE, Ronald	(47) 26.07.2023
(54) VIBRATION POWER GENERATION ELEMENT	(31) 1454617	(87) EP2020062508
(73) Saginomiya Seisakusho, Inc.	(32) 22.05.2014	19.11.2020
The University of Tokyo	(33) France	(22) 06.05.2020
(72) MITSUYA, Hiroyuki	(51) H02P 21/14	(54) LONGITUDINAL PROFILE AND MODULE CLAMP FOR A MOUNTING SYSTEM FOR SOLAR MODULES, AND A MOUNTING SYSTEM OF SUCH A TYPE
HONMA, Hiroaki	(11) EP3560095	(73) Schletter International B.V.
TOSHIYOSHI, Hiroshi	(21) EP17847793.1	(72) ZAPFE, Cedrik
(31) 2019008337	(47) 26.07.2023	(31) 102019003390
(32) 22.01.2019	(87) FR2017053787	(32) 13.05.2019
(33) Japan	28.06.2018	(33) Germany
(51) H02P 1/00	(22) 21.12.2017	(51) H02S 20/10
A61G 7/10	(54) DIRECT AND QUADRATIC INDUCTANCE DETERMINATION METHOD FOR A ELECTRIC MACHINE, CORRESPONDING SOFTWARE AND APPARATUS	H02S 30/00
(11) EP3754835	(73) Valeo Systemes de Controle Moteur	(11) EP4016838
(21) EP20177666.3	(72) ZINE, Wided	(21) EP21210656.1
(47) 26.07.2023	CHAUVENET, Pierre-Alexandre	(47) 26.07.2023
(22) 01.06.2020	BRUYERE, Antoine	(22) 26.11.2021
(54) SWITCH ASSEMBLIES, RAIL-MOUNTED LIFT SYSTEMS, AND RAIL-MOUNTED LIFT UNITS HAVING EMERGENCY STOP DEVICES	(31) 1662985	(54) PHOTOVOLTAIC SYSTEM
(73) Liko Research & Development AB	(32) 21.12.2016	(73) Iannuzzi, Maurizio
(72) PEER, Ka Wing Calvin	(33) France	(72) Iannuzzi, Maurizio
STRASSLE, Derek	(51) H02P 21/16	(31) 202000031595
MAMIDI, Sravan	H02M 7/48	(32) 21.12.2020
BLACKMON, Joseph	H02P 21/22	(33) Italy
(31) 201962856311 P	(11) EP3817218	(51) H02S 20/32
(32) 03.06.2019	(21) EP18924485.8	H02S 20/10
(33) United States of America	(47) 26.07.2023	H02S 30/10
(51) H02P 1/26	(87) JP2018047939	(11) EP3754840
H02P 3/18	02.01.2020	(21) EP19382525.4
H02P 27/04	(22) 26.12.2018	(47) 26.07.2023
H02P 23/16	(54) POWER CONVERSION APPARATUS	(22) 21.06.2019
H02P 1/16	(73) HITACHI INDUSTRIAL EQUIPMENT SYSTEMS CO., LTD.	(54) PROTECTION SYSTEM AGAINST AN INCIDENT WIND IN A PHOTOVOLTAIC INSTALLATION AND PROTECTION METHOD OF A PHOTOVOLTAIC INSTALLATION AGAINST DAMAGE CAUSED BY AN INCIDENT WIND
(11) EP3148072	(72) ONUMA Yusaku	(73) Soltec Innovations, S.L.
(21) EP14892012.7	SUGIMOTO Takuya	(72) LOPEZ OÑA, Sergio
(47) 26.07.2023	TOBARI Kazuaki	PAJARÓN SANTOS, Pablo
(87) JP2014062731	NAKAMURA Atsuhiko	(51) H02S 50/00
19.11.2015	IWAJI Yoshitaka	H02S 40/36
(22) 13.05.2014	HADINATA Agnes	G08C 17/02
(54) ELECTRIC MOTOR DRIVE SYSTEM	(31) 2018122783	H02H 3/24
(73) Toshiba Mitsubishi-Electric Industrial Systems Corporation	(32) 28.06.2018	G01R 19/165
(72) OKA, Toshiaki	(33) Japan	G01R 21/06
(51) H02P 6/00	(51) H02P 25/032	G06F 30/00
H02P 25/06	H02P 25/06	
H02K 41/02	(11) EP3370338	
(11) EP3462598		
(21) EP18197612.7		
(47) 26.07.2023		

(11) EP3890186	(51) H03B 5/12	(47) 26.07.2023
(21) EP19891654.6	H03K 21/00	(22) 23.12.2019
(47) 26.07.2023	H03L 1/00	(54) HIGH-SPEED DECISION DEVICE
(87) KR2019015017	H03L 5/00	(73) Amlogic (Shanghai) Co., Ltd.
04.06.2020	H03L 1/02	(72) SHI, Ming
(22) 07.11.2019	(11) EP3917005	(31) 201811642624
(54) SYSTEM FOR CONTROLLING	(21) EP21170793.0	(32) 29.12.2018
PHOTOVOLTAIC BALANCING	(47) 26.07.2023	(33) China
(73) Nanoomenergy Co., Ltd.	(22) 27.04.2021	<hr/>
(72) YANG, Jihyeok	(54) FREQUENCY REFERENCE	(51) H03M 1/06
(31) 20180148820	GENERATOR	H03M 1/48
(32) 27.11.2018	(73) NXP B.V.	G01R 33/07
(33) Korea (Republic)	(72) Liu, Maoqiang	H03M 1/12
<hr/>	Jin, Yanyu	H03M 1/66
(51) H02S 50/10	Verlinden, Jos	(11) EP3528388
(11) EP3751731	(31) 202016886030	(21) EP18157510.1
(21) EP19882298.3	(32) 28.05.2020	(47) 26.07.2023
(47) 26.07.2023	(33) United States of America	(22) 19.02.2018
(87) CN2019084493	<hr/>	(54) OFFSET COMPENSATION CIRCUIT
14.05.2020	(51) H03F 1/02	FOR A TRACKING LOOP
(22) 26.04.2019	H03F 1/30	(73) Melexis Technologies SA
(54) CURRENT-VOLTAGE CURVE	H03F 3/195	(72) RAMAN, Johan
SCANNING METHOD FOR	(11) EP3739750	ROMBOUITS, Pieter
PHOTOVOLTAIC STRING,	(21) EP19305614.0	<hr/>
CONVERTER	(47) 26.07.2023	(51) H03M 13/11
(73) HUAWEI TECHNOLOGIES CO., LTD.	(22) 14.05.2019	H04L 1/00
(72) YU, Xinyu	(54) TEMPERATURE CORRECTION	H03M 13/00
XIN, Kai	CIRCUIT AND METHOD OF	(11) EP3364578
LIU, Fangcheng	OPERATING A POWER AMPLIFIER	(21) EP15908521.6
(31) 201811320167	(73) NXP B.V.	(47) 26.07.2023
(32) 07.11.2018	(72) Cordier, Christophe	(87) CN2015094783
(33) China	Hamza, Najjari	26.05.2017
<hr/>	Begueret, Jean-Baptiste	(22) 17.11.2015
(51) H02S 50/10	<hr/>	(54) PARALLEL DECODING FOR QC-LDPC
(11) EP3987655	(51) H03F 1/02	CODES
(21) EP20743195.8	H03F 3/217	(73) Huawei Technologies Co., Ltd.
(47) 26.07.2023	H03F 3/68	(72) SI, Xiaoshu
(87) FR2020050978	H03F 3/72	FAN, Jiaqi
24.12.2020	(11) EP3700086	<hr/>
(22) 09.06.2020	(21) EP20160377.6	(51) H03M 13/13
(54) METHOD FOR ELECTRICALLY	(47) 26.07.2023	H03M 13/00
CHARACTERISING A CUT	(22) 09.01.2014	H03M 13/03
PHOTOVOLTAIC CELL	(54) PROGRAMMABLY CONFIGURED	H04L 1/00
(73) Commissariat à l'énergie atomique et aux	SWITCHMODE AUDIO AMPLIFIER	(11) EP3566315
énergies alternatives	(73) QSC, LLC	(21) EP18701852.8
(72) EYMARD, Julien	(72) QUILTER, Patrick H.	(47) 26.07.2023
HARRISON, Samuel	RODRIGUEZ, Manny	(87) US2018012569
GERENTON, Felix	(31) 201313777975	12.07.2018
MUNOZ, Maria-Delfina	201361750744 P	(22) 05.01.2018
(31) 1906688	(32) 26.02.2013	(54) MUTUAL-INFORMATION BASED
(32) 20.06.2019	09.01.2013	RECURSIVE POLAR CODE
(33) France	(33) United States of America	CONSTRUCTION
<hr/>	United States of America	(73) Qualcomm Incorporated
(51) H02S 50/10	<hr/>	(72) JIANG, Jing
H02J 3/38	(51) H03F 3/45	SARKIS, Gabi
(11) EP3926823	H03F 1/38	LOU, Huang
(21) EP20922468.2	(11) EP3661054	SANKAR, Hari
(47) 26.07.2023	(21) EP19202589.8	YANG, Yang
(87) CN2020082317	(47) 26.07.2023	(31) 201715849034
07.10.2021	(22) 10.10.2019	201762474545 P
(22) 31.03.2020	(54) PREAMPLIFIER CIRCUIT WITH	201762444368 P
(54) PARAMETER CURVE SCANNING	FLOATING TRANSDUCTOR	PCT/CN2017/074381
METHOD FOR PHOTOVOLTAIC	(73) NXP B.V.	(32) 20.12.2017
STRING, CONVERTER, AND	(72) GUPTA, Shushil Kumar	21.03.2017
PHOTOVOLTAIC POWER	GARG, Hitesh Kumar	09.01.2017
GENERATION SYSTEM	(31) 201816202107	22.02.2017
(73) Huawei Digital Power Technologies Co.,	(32) 28.11.2018	(33) United States of America
Ltd.	(33) United States of America	United States of America
(72) JU, Hualei	<hr/>	United States of America
XU, Zhiwu	(51) H03K 3/356	World Intellectual Property Office (WIPO)
GU, Guilei	(11) EP3675358	<hr/>
<hr/>	(21) EP19219265.6	(51) H03M 13/13

H03M 13/27	(51) H03M 13/27	H03D 7/18
H04L 1/00	(11) EP3844884	H03D 7/16
H04L 1/18	(21) EP19765954.3	H04N 7/20
(11) EP3799314	(47) 26.07.2023	(11) EP3379730
(21) EP20171241.1	(87) US2019048568	(21) EP17161923.2
(47) 26.07.2023	05.03.2020	(47) 26.07.2023
(22) 20.02.2014	(22) 28.08.2019	(22) 20.03.2017
(54) RATE MATCHING WITH SUB-BLOCK INTERLEAVING AND A VIRTUAL BUFFER FOR POLAR CODES	(54) TILED SWITCH MATRIX DATA PERMUTATION CIRCUIT	(54) SIGNAL RECEIVER
(73) Huawei Technologies Co. Ltd.	(73) Groq, Inc.	(73) Rafael Microelectronics, Inc.
(72) SHEN, Hui	(72) THORSON, Gregory, Michael	(72) Hsieh, Chun-An
CHEN, Jun	(31) 201816117763	Kan, Meng-Ping
LI, Bin	(32) 30.08.2018	<hr/>
<hr/>	(33) United States of America	(51) H04B 1/40
(51) H03M 13/13	(51) H03M 13/27	H04B 7/02
H03M 13/35	H03M 13/29	(11) EP3843284
H04L 1/00	H04L 1/00	(21) EP21157864.6
(11) EP3662582	(11) EP3367575	(47) 26.07.2023
(21) EP18760098.6	(21) EP18156817.1	(22) 21.02.2014
(47) 26.07.2023	(47) 26.07.2023	(54) MASTER REFERENCE FOR BASE STATION NETWORK INTERFACE SOURCED FROM DISTRIBUTED ANTENNA SYSTEM
(87) US2018044860	(22) 14.02.2018	(73) ADC Telecommunications, Inc.
07.02.2019	(54) REMOVAL OF DUMMY BITS PRIOR TO BIT COLLECTION FOR 3GPP LTE CIRCULAR BUFFER RATE MATCHING	(72) ZAVADSKY, Dean
(22) 01.08.2018	(73) Ceva D.S.P. Ltd.	WALA, Philip M.
(54) CONSTRUCTION OF CHANNEL ORDERING FOR POLAR CODE	(72) David, Levy	CANNON, Jeffrey J.
(73) Qualcomm Incorporated	(31) 201715438823	FORLAND, Jody
(72) JIANG, Jing	(32) 22.02.2017	HEDIN, John M.
SARKIS, Gabi	(33) United States of America	(31) 201361767968 P
YANG, Yang	<hr/>	(32) 22.02.2013
KUDEKAR, Shrinivas	(51) H04B 1/036	(33) United States of America
SORIAGA, Joseph Binamira	H04W 52/02	<hr/>
GAAL, Peter	H04B 7/0413	(51) H04B 1/401
(31) 201816051262	H04W 28/02	H04B 5/00
201762544898 P	(11) EP3780399	H01Q 1/22
201762540491 P	(21) EP19792281.8	H01Q 7/00
(32) 31.07.2018	(47) 26.07.2023	H04B 1/16
13.08.2017	(87) CN2019084380	(11) EP3503416
02.08.2017	31.10.2019	(21) EP17841651.7
(33) United States of America	(22) 25.04.2019	(47) 26.07.2023
United States of America	(54) WIRELESS COMMUNICATION METHOD AND WIRELESS COMMUNICATION DEVICE	(87) KR2017008822
United States of America	(73) HUAWEI TECHNOLOGIES CO., LTD.	22.02.2018
<hr/>	(72) WANG, Gang	(22) 14.08.2017
(51) H03M 13/15	(31) 201810402941	(54) ELECTRONIC DEVICE AND METHOD FOR RECEIVING RADIO SIGNAL IN ELECTRONIC DEVICE
G06F 11/10	(32) 28.04.2018	(73) Samsung Electronics Co., Ltd.
H03M 13/00	(33) China	(72) YUM, Jong Won
(11) EP3350930	<hr/>	(31) 20160105252
(21) EP16763625.7	(51) H04B 1/12	(32) 19.08.2016
(47) 26.07.2023	H03D 1/04	(33) Korea (Republic)
(87) US2016048604	H04B 1/10	<hr/>
23.03.2017	(11) EP3890193	(51) H04B 1/62
(22) 25.08.2016	(21) EP21164100.6	H04B 1/00
(54) LOW-POWER DOUBLE ERROR CORRECTING-TRIPLE ERROR DETECTING (DEB-TED) DECODER	(47) 26.07.2023	H03M 1/66
(73) Industry-Academic Cooperation Foundation, Yonsei University	(22) 22.03.2021	H04B 1/04
Qualcomm Incorporated	(54) PROCESSING AMPLITUDE MODULATION SIGNALS WITH NOISE ESTIMATION	(11) EP3704798
(72) JUNG, Seong-Ook	(73) NXP B.V.	(21) EP18872363.9
NA, Taehui	(72) Luyten, Joris Louis L	(47) 26.07.2023
CHOI, Sara	Gautama, Temujin	(87) IL2018051164
SONG, Byung Kyu	Macours, Christophe Marc	09.05.2019
KIM, Taehyun	(31) 202016835110	(22) 01.11.2018
KIM, Sungryul	(32) 30.03.2020	(54) DIGITAL RESOLUTION ENHANCEMENT FOR HIGH SPEED DIGITAL-TO-ANALOG CONVERTERS
KANG, Seung Hyuk	(33) United States of America	(73) B.G. Negev Technologies and Applications Ltd., at Ben-Gurion University
KIM, Jung Pill	<hr/>	(72) SADOT, Dan
KIM, Jisu	(51) H04B 1/28	YOFFE, Yaron
(31) 201514852988	H04H 20/63	(31) 201762580475 P
(32) 14.09.2015	H04B 1/18	
(33) United States of America	H04H 40/90	

(32) 02.11.2017	13.07.2018	30.04.2020
(33) United States of America	04.04.2018	(22) 13.08.2019
(51) H04B 1/66	(33) France	(54) METHOD AND SYSTEM FOR
H04B 1/40	France	HANDLING BEAM BLOCKAGE IN
G10L 19/02	United States of America	WIRELESS COMMUNICATION SYSTEM
H04N 19/60	(51) H04B 3/54	(73) Samsung Electronics Co., Ltd.
H04N 19/625	H04W 28/02	(72) CHAVVA, Ashok Kumar Reddy
H04N 19/12	(11) EP3934114	GUNTURU, Anusha
H03M 7/30	(21) EP21181364.7	GUHA, Shouvik
(11) EP3616325	(47) 26.07.2023	(31) 201841040515
(21) EP18790867.8	(22) 24.06.2021	(32) 26.10.2018
(47) 26.07.2023	(54) CONTROL METHOD FOR	(33) India
(87) US2018028877	REDUCING A BLOCKAGE IN A MESH	(51) H04B 7/0417
01.11.2018	COMMUNICATION NETWORK BY	(11) EP3468060
(22) 23.04.2018	POWERLINE COMMUNICATION	(21) EP18189672.1
(54) DIFFERENCE DATA IN DIGITAL AUDIO	(73) Sagemcom Energy & Telecom SAS	(47) 26.07.2023
SIGNALS	(72) TERRIEN, Clément	(22) 18.04.2014
(73) DTS, Inc.	BAROIS, Jérôme	(54) SPATIAL STREAM DETERMINING
(72) SEROUSSI, Gadiel	(31) 2006939	METHOD, BASE STATION, AND USER
SMITH, Brandon	(32) 01.07.2020	EQUIPMENT
CHUBAREV, Pavel	(33) France	(73) Huawei Technologies Co., Ltd.
(31) 201815939473	(51) H04B 5/00	(72) BI, Xiaoyan
201762489650 P	H04B 5/02	LUO, Hejia
(32) 29.03.2018	H04L 27/02	CHEN, Dageng
25.04.2017	(11) EP3817238	(51) H04B 7/0456
(33) United States of America	(21) EP20204110.9	H04B 7/06
United States of America	(47) 26.07.2023	(11) EP3895330
(51) H04B 1/69	(22) 27.10.2020	(21) EP19821308.4
H03M 13/33	(54) AMPLITUDE-SHIFT KEYING	(47) 26.07.2023
(11) EP3917021	DEMODULATION FOR WIRELESS	(87) SE2019051249
(21) EP20176339.8	CHARGERS	18.06.2020
(47) 26.07.2023	(73) STMicroelectronics Asia Pacific Pte Ltd.	(22) 09.12.2019
(22) 25.05.2020	(72) GUEDON, Yannick	(54) REPORTING OF COEFFICIENTS FOR
(54) TRANSMITTER, RECEIVER, AND	(31) 201916669068	CHANNEL STATE INFORMATION
METHOD FOR CHIRP-MODULATED	(32) 30.10.2019	(73) TELEFONAKTIEBOLAGET LM
RADIO SIGNALS	(33) United States of America	ERICSSON (PUBL)
(73) Semtech Corporation	(51) H04B 7/04	(72) GIRNYK, Maksym
(72) DEVAUCELLE, Christophe Jean Jacques	H04B 7/06	WANG, Zhao
SELLER, Olivier Bernard André	(11) EP3588794	WERNERSSON, Niklas
(51) H04B 3/54	(21) EP18771535.4	TIMO, Roy
(11) EP3934109	(47) 26.07.2023	FAXÉR, Sebastian
(21) EP21181339.9	(87) CN2018080242	(31) 201862778665 P
(47) 26.07.2023	27.09.2018	(32) 12.12.2018
(22) 24.06.2021	(22) 23.03.2018	(33) United States of America
(54) METHOD AND DEVICE FOR	(54) METHOD FOR TRANSMITTING	(51) H04B 7/06
TRANSMITTING A MESSAGE	CHANNEL STATE INFORMATION,	(11) EP3516787
(73) Sagemcom Energy & Telecom SAS	TERMINAL DEVICE AND NETWORK	(21) EP17867236.6
(72) TERRIEN, Clément	DEVICE	(47) 26.07.2023
BAROIS, Jérôme	(73) Huawei Technologies Co., Ltd.	(87) CN2017109295
(31) 2006934	(72) LIU, Kungpeng	11.05.2018
(32) 01.07.2020	QU, Bingyu	(22) 03.11.2017
(33) France	LI, Xueru	(54) RANDOM ACCESS WITH
(51) H04B 3/54	ZHOU, Yongxing	BEAMFORMING
H04B 3/56	LIU, Jianqin	(73) MediaTek Singapore Pte. Ltd.
H04B 1/38	(31) 201710184871	(72) ZHANG, Yuanyuan
(11) EP3776882	(32) 24.03.2017	YU, Chia-Hao
(21) EP19722164.1	(33) China	HSU, Chia-Chun
(47) 26.07.2023	(51) H04B 7/0408	(31) PCT/CN2016/104621
(87) FR2019050793	H04B 17/318	(32) 04.11.2016
10.10.2019	H04B 17/336	(33) World Intellectual Property Office (WIPO)
(22) 04.04.2019	H04B 17/382	(51) H04B 7/06
(54) DATA TRANSMISSION SYSTEM	H04W 48/20	H04B 7/0408
(73) SAFRAN AEROTECHNICS	H04B 7/04	H04L 25/02
(72) RACIC, Zoran	H04W 36/24	H04B 17/318
(31) 1859892	(11) EP3827524	(11) EP3659263
1856512	(21) EP19876896.2	(21) EP18868844.4
201862652531 P	(47) 26.07.2023	(47) 26.07.2023
(32) 25.10.2018	(87) KR2019010305	(87) KR2018012293

25.04.2019	(54) AIRCRAFT COLLISION AVOIDANCE METHOD AND DEVICE	(73) Qualcomm Incorporated
(22) 17.10.2018	(73) Flarm Technology AG	(72) VERMANI, Sameer
(54) ELECTRONIC DEVICE SUPPORTING MULTI-BAND WIRELESS COMMUNICATIONS AND METHOD OF CONTROLLING SAME	(72) MÄDER, Urban	ZHOU, Yan
(73) Samsung Electronics Co., Ltd.	PASQUIER, Jérôme	MERLIN, Simone
(72) MIN, Hyunkee	KAUFMANN, Thomas	BARRIAC, Gwendolyn Denise
JANG, Yongseok	GRÖGER, Friedolin Marvin	SAMPATH, Hemanth
LIM, Taehun	(51) H04B 7/185	TIAN, Bin
HONG, Minwhoa	(11) EP3685526	TANDRA, Rahul
LEE, Sunkee	(21) EP18793058.1	(31) 201414265248
CHOI, Bokun	(47) 26.07.2023	201361846579 P
KANG, Doosuk	(87) US2018051649	201361819096 P
(31) 20170135718	28.03.2019	(32) 29.04.2014
(32) 19.10.2017	(22) 19.09.2018	15.07.2013
(33) Korea (Republic)	(54) ARCHITECTURE FOR INTEGRATION OF MULTIPLE NETWORKS IN AN AIR-TO-GROUND CONTEXT	03.05.2013
(51) H04B 7/06	(73) Smartsky Networks LLC	(33) United States of America
H04B 7/08	(72) HYSLOP, Douglas	United States of America
H04W 8/00	(31) 201762561423 P	United States of America
H04L 45/24	(32) 21.09.2017	(51) H04B 10/03
H04W 40/28	(33) United States of America	H04B 10/07
H04W 84/18	(51) H04B 7/185	H04B 10/40
(11) EP3593464	(11) EP3732801	(11) EP3742628
(21) EP18737024.2	(21) EP18834161.4	(21) EP19183136.1
(47) 26.07.2023	(47) 26.07.2023	(47) 26.07.2023
(87) IB2018053986	(87) US2018066367	(22) 28.06.2019
03.01.2019	04.07.2019	(54) SYSTEMS, METHODS, AND APPARATUS FOR OPTICAL TRANSCEIVER WITH MULTIPLE SWITCH STATE CONFIGURATIONS
(22) 04.06.2018	(22) 19.12.2018	(73) Juniper Networks, Inc.
(54) DISCOVERY OF NEIGHBOR NODES IN WIRELESS MESH NETWORKS WITH DIRECTIONAL TRANSMISSIONS	(54) MACHINE LEARNING MODELS FOR ADJUSTING COMMUNICATION PARAMETERS	(72) JONES, Kevan Peter
(73) Sony Group Corporation	(73) Hughes Network Systems, LLC	KEYS, Robert William
(72) ABOUELSEOD, Mohamed	(72) ARORA, Amit	(31) 201916420791
ABDALLAH, Ramy Medhat	GHARPURAY, Archana	(32) 23.05.2019
(31) 201715637536	KENYON, John	(33) United States of America
(32) 29.06.2017	(31) 201715858953	(51) H04B 10/079
(33) United States of America	(32) 29.12.2017	H04B 10/54
(51) H04B 7/06	(33) United States of America	H04B 10/564
H04W 52/36	(51) H04B 7/185	H04L 1/00
(11) EP3579448	H04B 7/212	(11) EP3987686
(21) EP18747865.6	H04W 48/12	(21) EP20750537.1
(47) 26.07.2023	H04W 88/04	(47) 26.07.2023
(87) KR2018001014	H04W 56/00	(87) US2020036867
09.08.2018	(11) EP3355628	04.02.2021
(22) 23.01.2018	(21) EP16885611.0	(22) 10.06.2020
(54) METHOD FOR TRANSMITTING AND RECEIVING SIGNAL BETWEEN BASE STATION AND VEHICLE TERMINAL IN DISTRIBUTED ANTENNA COMMUNICATION SYSTEM AND APPARATUS THEREFOR	(47) 26.07.2023	(54) DYNAMICALLY SELECTING A CHANNEL MODEL FOR OPTICAL COMMUNICATIONS
(73) LG Electronics Inc.	(87) CN2016071507	(73) Microsoft Technology Licensing, LLC
(72) LEE, Sangwook	27.07.2017	(72) HASSAN, Amer Aref
SEO, Hanbyul	(22) 20.01.2016	COLE, Richard James
KIM, Heejin	(54) METHOD AND APPARATUS FOR SENDING SYNCHRONIZATION INFORMATION	GIAIMO, Whitney J.
KANG, Jiwon	(73) Huawei Technologies Co., Ltd.	(31) 201916526496
KIM, Sunam	(72) ZHANG, Xingwei	(32) 30.07.2019
(31) 201762453995 P	LI, Chao	(33) United States of America
(32) 02.02.2017	(51) H04B 7/26	(51) H04B 10/2543
(33) United States of America	H04L 5/00	H04B 10/564
(51) H04B 7/185	(11) EP2992625	H04J 14/00
(11) EP4165798	(21) EP14726870.0	H04J 14/02
(21) EP21772782.5	(47) 26.07.2023	(11) EP3051720
(47) 26.07.2023	(87) US2014036215	(21) EP14849592.2
(87) EP2021074355	06.11.2014	(47) 26.07.2023
09.03.2023	(22) 30.04.2014	(87) JP2014004683
(22) 03.09.2021	(54) CHANNEL SET ALLOCATION IN FREQUENCY MULTIPLEXED COMMUNICATION IN DENSE WIRELESS ENVIRONMENTS	02.04.2015
		(22) 11.09.2014
		(54) TRANSPORT APPARATUS, TRANSPORT SYSTEM, TRANSPORT METHOD, AND STORAGE MEDIUM

ON WHICH PROGRAM HAS BEEN STORED	H03F 3/30	(33) Germany
(73) NEC Corporation	(11) EP3763010	(51) H04J 3/06
(72) INOUE, Takanori	(21) EP19764475.0	H04Q 11/04
(31) 2013196483	(47) 26.07.2023	(11) EP3745615
(32) 24.09.2013	(87) US2019020662	(21) EP20171978.8
(33) Japan	12.09.2019	(47) 26.07.2023
(51) H04B 10/27	(22) 05.03.2019	(22) 30.10.2015
H04Q 11/00	(54) CIRCUIT PROVIDING REVERSE CURRENT PROTECTION FOR HIGH-SIDE DRIVER	(54) CLOCK SYNCHRONIZATION METHOD, RECEIVER AND CLOCK SYNCHRONIZATION SYSTEM
(11) EP3915205	(73) Texas Instruments Incorporated	(73) Huawei Technologies Co., Ltd.
(21) EP19916529.1	(72) DURYE, Timothy, Paul	(72) CHEN, Cong
(47) 26.07.2023	EASWARAN, Sri, Navaneethakrishna	XU, Chuan
(87) CN2019091447	(31) 201815913465	(51) H04J 3/16
27.08.2020	(32) 06.03.2018	H04J 3/06
(22) 16.06.2019	(33) United States of America	H04L 12/413
(54) COMMUNICATION IN PASSIVE OPTICAL NETWORKS (PONS) RELATED TO DIGITAL SIGNAL PROCESSING FOR OPTICAL SIGNAL (ODSP)	(51) H04B 17/309	(11) EP3700150
(73) Huawei Technologies Co., Ltd.	H04B 17/391	(21) EP18874666.3
(72) ZENG, Huaiyu	H04W 24/00	(47) 26.07.2023
EFFENBERGER, Frank	(11) EP4133627	(87) CN2018111832
SHEN, Andy	(21) EP20718293.2	09.05.2019
LIU, Xiang	(47) 26.07.2023	(22) 25.10.2018
LUO, Yuanqiu	(87) EP2020060058	(54) METHOD AND RELEVANT DEVICE FOR PROCESSING DATA OF FLEXIBLE ETHERNET
(31) 201962808008 P	14.10.2021	(73) Huawei Technologies Co., Ltd.
(32) 20.02.2019	(22) 08.04.2020	(72) ZHANG, Xiaojun
(33) United States of America	(54) CLASSIFICATION OF MICROWAVE LINK DATA	CHEN, Xingyao
(51) H04B 10/40	(73) Telefonaktiebolaget LM Ericsson (publ.)	XIAO, Shuai
H01L 27/12	(72) SJÖDIN, Martin	WANG, Renlei
H01S 5/026	YAGHOUBI, Forough	(31) 201711050171
(11) EP3255671	OLESEN, Patrik	(32) 31.10.2017
(21) EP16746071.6	TAHVILI, Sahar	(33) China
(47) 26.07.2023	(51) H04H 40/18	(51) H04J 3/16
(87) CN2016071230	H04H 20/42	H04J 14/02
11.08.2016	H04H 20/22	H04L 45/00
(22) 18.01.2016	(11) EP2884680	H04Q 11/00
(54) MEDIA ACCESS CONTROL MAC CHIP AND TERMINAL DEVICE	(21) EP14195649.0	(11) EP3934133
(73) ZTE Corporation	(47) 26.07.2023	(21) EP20791490.4
(72) LI, Mingsheng	(22) 01.12.2014	(47) 26.07.2023
WANG, Ying	(54) Broadcast receiver	(87) CN2020081799
FU, Zhiming	(73) Alpine Electronics, Inc.	22.10.2020
(31) 201520082348 U	(72) Hamaguchi, Tomoya	(22) 27.03.2020
(32) 05.02.2015	(31) 2013258746	(54) SERVICE PATH SWITCHING METHOD AND RELATED DEVICE
(33) China	(32) 14.12.2013	(73) Huawei Technologies Co., Ltd.
(51) H04B 10/69	(33) Japan	(72) ZHAO, Zhongchao
H04B 10/272	(51) H04J 3/06	CHE, Jia
H04J 3/16	H04L 43/08	ZHANG, Liang
H04Q 11/00	B60W 50/02	(31) 201910315382
(11) EP3737006	(11) EP3646493	(32) 18.04.2019
(21) EP18902400.3	(21) EP18731037.0	(33) China
(47) 26.07.2023	(47) 26.07.2023	(51) H04J 13/00
(87) CN2018109898	(87) EP2018065159	H04L 1/00
01.08.2019	03.01.2019	H04L 25/03
(22) 11.10.2018	(22) 08.06.2018	H04L 25/05
(54) OLT, ONU AND PON SYSTEM AND INFORMATION TRANSMISSION METHOD IN PON SYSTEM	(54) METHOD, COMPUTER-READABLE MEDIUM, SYSTEM, AND VEHICLE COMPRISING THE SYSTEM FOR VALIDATING A TIME FUNCTION OF A MASTER AND THE CLIENTS IN A NETWORK OF A VEHICLE	H04W 4/18
(73) HUAWEI TECHNOLOGIES CO., LTD.	(73) Bayerische Motoren Werke Aktiengesellschaft	H04W 48/08
(72) LING, Wei	(72) TURNER, Max	H04L 1/1829
YE, Zhicheng	HUDOLETNJAK, Emily	(11) EP2153545
LIU, Dekun	MAIER, Alexander	(21) EP08723354.0
(31) 201810078953	BOGENBERGER, Florian	(47) 26.07.2023
(32) 26.01.2018	(31) 102017210895	(87) KR2008001317
(33) China	(32) 28.06.2017	13.11.2008
(51) H04B 15/00		(22) 07.03.2008
		(54) Broadcast channel information transmission and reception

(73) Electronics and Telecommunications Research Institute Samsung Electronics Co., Ltd.	(32) 08.09.2017 11.08.2017 (33) China	H04L 1/24 H04L 1/20 H04L 43/0823 H04L 43/062
(72) BANG, Seung-Chan CHANG, Kap-Seok YI, Hyo-Seok KO, Young-Jo PARK, Hyeong-Geun KIM, Il-Gyu KIM, Young-Hoon	(51) H04L 1/00 (11) EP3840262 (21) EP19858463.3 (47) 26.07.2023 (87) CN2019104531 12.03.2020 (22) 05.09.2019 (54) BIT BLOCK GENERATING METHOD AND DEVICE, BIT BLOCK RECEIVING METHOD AND DEVICE	(11) EP3723326 (21) EP18895790.6 (47) 26.07.2023 (87) CN2018122950 04.07.2019 (22) 22.12.2018 (54) METHOD AND APPARATUS FOR DETECTING BIT ERROR
(31) 20070126724 20070044356 20070042457	(73) HUAWEI TECHNOLOGIES CO., LTD. (72) ZHANG, Hongbiao SUN, Desheng XIAO, Shuai	(73) HUAWEI TECHNOLOGIES CO., LTD. (72) ZHONG, Qiwen ZHA, Min LI, Rixin XU, Li
(32) 07.12.2007 08.05.2007 02.05.2007	(31) 201811042289 (32) 07.09.2018 (33) China	(31) 201711449728 (32) 27.12.2017 (33) China
(33) Korea (Republic) Korea (Republic) Korea (Republic)	(51) H04J 14/02 G02B 6/35 H04Q 11/00	(51) H04L 1/06 H04L 27/26 H04L 1/08 H04L 1/1829 H04L 5/00 H04B 7/04 H04L 1/1607
(11) EP3207647 (21) EP14799239.0 (47) 26.07.2023 (87) SE2014051210 21.04.2016 (22) 13.10.2014 (54) AN OPTICAL WAVELENGTH SELECTIVE SWITCH, AN OPTICAL NETWORK NODE, AN OPTICAL NETWORK AND METHODS THEREIN	(51) H04L 1/00 H03M 13/11 (11) EP3648378 (21) EP18203848.9 (47) 26.07.2023 (22) 31.10.2018 (54) METHOD AND APPARATUS FOR BINARY SIGNAL RECEPTION, CLOCK DATA RECOVERY, AND SOFT DECODING	(11) EP3998736 (21) EP22150146.3 (47) 26.07.2023 (22) 03.05.2018 (54) METHOD BY WHICH TERMINAL AND BASE STATION TRANSMIT/RECEIVE SIGNAL IN WIRELESS COMMUNICATION SYSTEM, AND DEVICE FOR SUPPORTING SAME
(73) Telefonaktiebolaget LM Ericsson (publ) (72) ROSTAMI, Ahmad SKUBIC, Björn	(73) MaxLinear Asia Singapore Private Limited (72) STROBEL, Rainer	(73) LG Electronics Inc. (72) YANG, Suckchel PARK, Changhwan KIM, Seonwook PARK, Hanjun
(51) H04J 14/02 H04Q 11/00 (11) EP3745617 (21) EP18906162.5 (47) 26.07.2023 (87) CN2018103318 22.08.2019 (22) 30.08.2018 (54) OPTICAL CROSS-CONNECT DEVICE	(51) H04L 1/00 H04L 1/18 H04B 7/0413 H04L 1/1867 (11) EP3809617 (21) EP20192193.9 (47) 26.07.2023 (22) 17.05.2016 (54) TRANSPORT BLOCK RETRANSMISSION METHOD AND APPARATUS	(31) 201762566340 P 201762544230 P 201762543955 P 201762520522 P 201762506518 P 201762501056 P
(73) HUAWEI TECHNOLOGIES CO., LTD. (72) ZONG, Liangjia FENG, Zhiyong YAN, Yunfei	(73) HUAWEI TECHNOLOGIES CO., LTD. (72) HE, Longke	(31) 201762501056 P 30.09.2017 11.08.2017 10.08.2017 15.06.2017 15.05.2017 03.05.2017
(31) 201810150786 (32) 13.02.2018 (33) China	(51) H04L 1/00 H04L 1/20 (11) EP3721569 (21) EP18796242.8 (47) 26.07.2023 (87) US2018055278 13.06.2019 (22) 10.10.2018 (54) MODULATION SELECTION RELYING ON ESTIMATION OF ERROR RATE FOR MULTIPLE MODULATIONS BASED ON DEMODULATION DATA	(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) H04L 1/00 (11) EP3657707 (21) EP18842878.3 (47) 26.07.2023 (87) CN2018099904 14.02.2019 (22) 10.08.2018 (54) COMMUNICATION METHOD AND DEVICE	(73) QUALCOMM Incorporated (72) COLLINS, Matthew CONNOLLEY, William JAKUBOV, Ondrej	(51) H04L 1/08 (11) EP3893418 (21) EP21166648.2 (47) 26.07.2023 (22) 01.04.2021 (54) COMMUNICATION SYSTEM AND DATA TRANSMISSION METHOD THEREOF
(73) Huawei Technologies Co., Ltd. (72) WEI, Yuejun ZENG, Xin ZHENG, Chen MA, Liang LIU, Xiaojian	(31) 201715833418 (32) 06.12.2017 (33) United States of America	(73) Arcadyan Technology Corporation (72) TENG, Wei-Yang
(31) 201710807911 201710687631	(51) H04L 1/00	

CHANG, Hao-Chun	LIU, Yun	(73) Rockwell Collins, Inc.
(31) 109111575	(51) H04L 1/18	(72) KLASSEN, Scott
(32) 07.04.2020	(11) EP4014385	JORGENSON, Mark B.
(33) Taiwan, Chinese Taipei	(21) EP20757282.7	MORELAND, Kenneth
(51) H04L 1/08	(47) 26.07.2023	WOODS, Matthew
H04L 1/18	(87) EP2020072746	(31) 202016810542
H04L 1/16	18.02.2021	(32) 05.03.2020
(11) EP3909164	(22) 13.08.2020	(33) United States of America
(21) EP20704669.9	(54) METHODS TO SUPPORT SIDELINK	(51) H04L 1/18
(47) 26.07.2023	RETRANSMISSION	H04L 1/1822
(87) US2020013172	(73) Telefonaktiebolaget LM Ericsson (publ)	H04L 1/1829
16.07.2020	(72) ASHRAF, Shehzad, Ali	H04B 7/26
(22) 10.01.2020	BLASCO SERRANO, Ricardo	H04W 72/04
(54) TECHNIQUES FOR DETERMINING A	ORSINO, Antonino	H04W 76/14
NUMBER OF (RE)TRANSMISSIONS IN	ZHANG, Congchi	(11) EP3149869
WIRELESS COMMUNICATIONS	(31) 201962887032 P	(21) EP15799073.0
(73) QUALCOMM INCORPORATED	(32) 15.08.2019	(47) 26.07.2023
(72) BAGHEL, Sudhir Kumar	(33) United States of America	(87) KR2015005445
GULATI, Kapil	(51) H04L 1/18	03.12.2015
NGUYEN, Tien Viet	(11) EP3753164	(22) 29.05.2015
BHARADWAJ, Arjun	(21) EP19754257.4	(54) SOFT BUFFER PROCESSING
PATIL, Shailesh	(47) 26.07.2023	METHOD AND APPARATUS
(31) 202016738866	(87) FI2019050109	(73) Samsung Electronics Co., Ltd.
201962791363 P	22.08.2019	(72) ZHANG, Shichang
(32) 09.01.2020	(22) 12.02.2019	FU, Jingxing
11.01.2019	(54) HYBRID AUTOMATIC REPEAT	LI, Yingyang
(33) United States of America	REQUEST FEEDBACK	(31) 201510109150
United States of America	ARRANGEMENT FOR NR-	201410379734
(51) H04L 1/08	UNLICENSED BANDS	201410250589
H04L 5/00	(73) Nokia Technologies Oy	201410234093
H04W 72/04	(72) LUNTTILA, Timo Erkki	(32) 12.03.2015
H04B 7/06	TIIROLA, Esa Tapani	04.08.2014
H04B 7/12	HOOLI, Kari Juhani	06.06.2014
H04L 1/1867	(31) 201862710405 P	29.05.2014
H04B 7/0408	(32) 16.02.2018	(33) China
(11) EP3776955	(33) United States of America	China
(21) EP19720739.2	(51) H04L 1/18	China
(47) 26.07.2023	H03M 13/11	China
(87) US2019026975	H03M 13/00	(51) H04L 1/18
17.10.2019	(11) EP3570475	H04L 1/20
(22) 11.04.2019	(21) EP18748392.0	(11) EP3949199
(54) COMMUNICATING MULTIPLE	(47) 26.07.2023	(21) EP20708083.9
INSTANCES OF A MESSAGE IN A	(87) CN2018074574	(47) 26.07.2023
RANDOM MEDIUM ACCESS CONTROL	09.08.2018	(87) EP2020055420
SYSTEM	(22) 30.01.2018	08.10.2020
(73) QUALCOMM Incorporated	(54) RATE MATCHING OF AN LDPC CODED	(22) 02.03.2020
(72) LI, Junyi	BLOCK STORED IN A CIRCULAR	(54) METHODS PROVIDING ACK/NACK
ABEDINI, Navid	BUFFER FOR HARQ TRANSMISSIONS	FEEDBACK BASED ON REFERENCE
(31) 201916380571	(73) Huawei Technologies Co., Ltd.	SIGNAL RECEIVED POWER AND
201862656619 P	(72) COZZO, Carmela	RELATED WIRELESS DEVICES
(32) 10.04.2019	MA, Liang	(73) TELEFONAKTIEBOLAGET LM
12.04.2018	ZENG, Xin	ERICSSON (PUBL)
(33) United States of America	WEI, Yuejun	(72) ASHRAF, Shehzad Ali
United States of America	(31) 201710064621	DO, Hieu
(51) H04L 1/16	(32) 04.02.2017	(31) 201962828322 P
H04L 1/18	(33) China	(32) 02.04.2019
(11) EP3657713	(51) H04L 1/18	(33) United States of America
(21) EP17920762.6	H04L 1/00	(51) H04L 1/1829
(47) 26.07.2023	H04W 84/18	H04L 1/1812
(87) CN2017096501	H04W 40/24	H04L 1/00
14.02.2019	H04W 52/46	(11) EP3639427
(22) 08.08.2017	H04W 88/04	(21) EP18742840.4
(54) COMMUNICATION METHOD AND	(11) EP3876455	(47) 26.07.2023
DEVICE	(21) EP21161039.9	(87) FR2018000162
(73) Huawei Technologies Co., Ltd.	(47) 26.07.2023	20.12.2018
(72) XUE, Yifan	(22) 05.03.2021	(22) 06.06.2018
WANG, Jian	(54) RELAYS IN STRUCTURED AD HOC	
WANG, Da	NETWORKS	

(54) OMAMRC TRANSMISSION METHOD AND SYSTEM WITH SLOW-LINK ADAPTATION	(47) 26.07.2023 (87) US2010058767 09.06.2011	(54) CSI STARTING TRANSMISSION FOR PUCCH SECONDARY CELL
(73) ORANGE	(22) 02.12.2010	(73) Ofinno, LLC
(72) MOHAMAD, Abdulaziz VISOZ, Raphaël CEROVIC, Stephan	(54) SOUNDING REFERENCE SIGNAL ENHANCEMENTS FOR WIRELESS COMMUNICATION	(72) DINAN, Esmael (31) 201562133947 P 201562133934 P
(31) 1755212	(73) Qualcomm Incorporated	(32) 16.03.2015 16.03.2015
(32) 12.06.2017	(72) MONTOJO, Juan	(33) United States of America United States of America
(33) France	GAAL, Peter CHEN, Wanshi LUO, Xiliang	
(51) H04L 1/1867 H04W 76/19 H04W 76/15 H04W 36/00	(31) 958214 266456 P	(51) H04L 5/00 H04B 7/06 H04W 74/08
(11) EP3876582	(32) 01.12.2010	(11) EP3633903
(21) EP18941034.3	03.12.2009	(21) EP18821592.5
(47) 26.07.2023	(33) United States of America	(47) 26.07.2023
(87) CN2018116766	United States of America	(87) CN2018091474 27.12.2018
28.05.2020	(51) H04L 5/00	(22) 15.06.2018
(22) 21.11.2018	(11) EP3809624	(54) ELECTRONIC DEVICE AND METHOD FOR WIRELESS COMMUNICATION SYSTEM, AND STORAGE MEDIUM
(54) RETRANSMISSION IN ADVANCE OF TO-BE-TRANSMITTED DATA PACKETS IN A DUAL CONNECTIVITY SCENARIO, UPON FAILURE OF THE SECONDARY LINK	(21) EP20214731.0 (47) 26.07.2023 (22) 30.10.2015	(73) Sony Group Corporation
(73) Huawei Technologies Co., Ltd.	(54) NARROWBAND CONTROL CHANNEL DECODING	(72) CAO, Jianfei (31) 201710470653
(72) WANG, Gang	(73) QUALCOMM Incorporated	(32) 20.06.2017
(51) H04L 5/00	(72) CHEN, Wanshi	(33) China
(11) EP3666010	GAAL, Peter XU, Hao	(51) H04L 5/00 H04L 1/00 H04W 72/04 H04W 72/0453
(21) EP18845072.0	(31) 201514927210	(11) EP3753165
(47) 26.07.2023	201462074535 P	(21) EP18708767.1
(87) CN2018099945	201462073923 P	(47) 26.07.2023
14.02.2019	(32) 29.10.2015	(87) SE2018050156 22.08.2019
(22) 10.08.2018	03.11.2014	(22) 16.02.2018
(54) TRANSMISSION RANK AND PRECODER SIGNALING IN UPLINK NON-CODEBOOK BASED TRANSMISSION	31.10.2014	(54) RESOURCE MAPPING BASED ON BANDWIDTH PART
(73) QUALCOMM Incorporated	(33) United States of America United States of America United States of America	(73) Telefonaktiebolaget LM Ericsson (publ)
(72) HAO, Chenxi WU, Liangming CHEN, Wanshi ZHANG, Yu XU, Hao	(51) H04L 5/00 H04B 7/00	(72) PARKVALL, Stefan DAHLMAN, Erik FALAHATI, Sorour CHEN LARSSON, Daniel BALDEMAIR, Robert
(31) PCT/CN2017/097103	(11) EP3952185	
(32) 11.08.2017	(21) EP20781850.1	
(33) World Intellectual Property Office (WIPO)	(47) 26.07.2023	
(51) H04L 5/00	(87) CN2020074552	
(11) EP3871356	08.10.2020	
(21) EP19797845.5	(22) 07.02.2020	
(47) 26.07.2023	(54) METHOD FOR TRANSMISSION CONFIGURATION INDICATION OF DMRS PORT AND RELATED APPARATUS, AND STORAGE MEDIUM	
(87) SE2019051061	(73) Datang Mobile Communications Equipment Co., Ltd.	
30.04.2020	(72) SU, Xin	
(22) 28.10.2019	WANG, Mengjun	
(54) DOWNLINK CONTROL INFORMATION (DCI) SIZE MATCHING	CHEN, Runhua GAO, Qiubin	
(73) TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)	(31) 201910272864	
(72) LIN, Xingqin	(32) 04.04.2019	
ZHANG, Jianwei PARKVALL, Stefan CHENG, Jung-Fu	(33) China	
(31) 201862751018 P	(51) H04L 5/00 H04B 7/06 H04L 1/00	
(32) 26.10.2018	(11) EP3134993	
(33) United States of America	(21) EP16715655.3	
(51) H04L 5/00	(47) 26.07.2023	
(11) EP2507933	(87) US2016022258	
(21) EP10795119.6	22.09.2016	
	(22) 14.03.2016	
		(73) KT Corporation
		(72) PARK, Kyujin CHOI, Woo-jin
		(31) 20170140898 20160143013
		(32) 27.10.2017 31.10.2016
		(33) Korea (Republic)

Korea (Republic)	(47) 26.07.2023	(54) METHOD AND DEVICE FOR V2X
(51) H04L 5/00	(87) US2018016448	TERMINAL TO RECEIVE PSCCH
H04L 1/1607	09.08.2018	SCHEDULING INFORMATION AND
(11) EP3726913	(22) 01.02.2018	TRANSMIT PSCCH IN WIRELESS
(21) EP19753670.9	(54) HALF-DUPLEX OPERATION IN NEW	COMMUNICATION SYSTEM
(47) 26.07.2023	RADIO SYSTEMS	(73) LG Electronics Inc.
(87) CN2019074487	(73) QUALCOMM Incorporated	(72) KIM, Heejin
22.08.2019	(72) Ji, Tingfang	SEO, Hanbyul
(22) 01.02.2019	GAAL, Peter	LEE, Seungmin
(54) DATA TRANSMISSION METHOD,	CHEN, Wanshi	CHAE, Hyukjin
COMMUNICATION DEVICE, AND	(31) 201715711143	(31) 201762544098 P
STORAGE MEDIUM	201762453946 P	201762543968 P
(73) HUAWEI TECHNOLOGIES CO., LTD.	(32) 21.09.2017	(32) 11.08.2017
(72) PENG, Jinlin	02.02.2017	11.08.2017
XUE, Yifan	(33) United States of America	(33) United States of America
WANG, Jian	United States of America	United States of America
LIU, Haitao	(51) H04L 5/00	(51) H04L 5/00
(31) 201810150990	H04L 27/00	H04L 27/26
(32) 13.02.2018	(11) EP3687099	H04W 74/08
(33) China	(21) EP19757518.6	H04L 25/03
(51) H04L 5/00	(47) 26.07.2023	H04W 72/1268
H04L 1/1829	(87) KR2019002158	(11) EP3780458
H04W 72/0446	29.08.2019	(21) EP19776683.5
H04W 72/21	(22) 21.02.2019	(47) 26.07.2023
(11) EP3713137	(54) METHOD FOR TRANSMITTING	(87) CN2019077795
(21) EP18878901.0	AND RECEIVING SOUNDING	03.10.2019
(47) 26.07.2023	REFERENCE SIGNAL IN WIRELESS	(22) 12.03.2019
(87) CN2018115682	COMMUNICATION SYSTEM AND	(54) UPLINK TRANSMISSION METHOD
23.05.2019	DEVICE THEREFOR	AND TERMINAL
(22) 15.11.2018	(73) LG Electronics Inc.	(73) Vivo Mobile Communication Co., Ltd.
(54) ACK/NACK RESOURCE ALLOCATION	(72) KANG, Jiwon	(72) SUN, Peng
METHOD, AND CORRESPONDING	CHOI, Kukheon	CHEN, Xiaohang
USER EQUIPMENT AND BASE	YUM, Kunil	PAN, Xueming
STATION	PARK, Jonghyun	(31) 201810276657
(73) Sharp Kabushiki Kaisha	(31) 20180039966	(32) 30.03.2018
FG Innovation Company Limited	201862633513 P	(33) China
(72) LUO, Chao	201862633083 P	(51) H04L 5/00
LIU, Renmao	(32) 05.04.2018	H04W 48/12
(31) 201711155499	21.02.2018	(11) EP3709732
(32) 17.11.2017	21.02.2018	(21) EP17932403.3
(33) China	(33) Korea (Republic)	(47) 26.07.2023
(51) H04L 5/00	United States of America	(87) CN2017111084
H04L 5/14	United States of America	23.05.2019
H04W 56/00	(51) H04L 5/00	(22) 15.11.2017
(11) EP3096481	H04L 27/26	(54) PERIOD INFORMATION INDICATION
(21) EP15737551.0	(11) EP3783853	METHOD FOR COMMON CONTROL
(47) 26.07.2023	(21) EP18915594.8	RESOURCE SET OF REMAINING KEY
(87) CN2015070886	(47) 26.07.2023	SYSTEM INFORMATION
23.07.2015	(87) JP2018015738	(73) Koninklijke Philips N.V.
(22) 16.01.2015	24.10.2019	(72) LIU, Yang
(54) SIGNAL TRANSMISSION METHOD	(22) 16.04.2018	(51) H04L 5/00
AND APPARATUS	(54) USER TERMINAL AND WIRELESS	H04W 64/00
(73) Datang Mobile Communications	COMMUNICATION METHOD	(11) EP3678315
Equipment Co., Ltd.	(73) NTT DOCOMO, INC.	(21) EP17923560.1
(72) LIN, Yanan	(72) MATSUMURA, Yuki	(47) 26.07.2023
GAO, Xuejuan	TAKEDA, Kazuki	(87) KR2017009528
SHEN, Zukang	NAGATA, Satoshi	07.03.2019
(31) 201410023237	(51) H04L 5/00	(22) 31.08.2017
(32) 17.01.2014	H04L 27/26	(54) METHOD AND DEVICE FOR
(33) China	H04W 72/23	TRANSMITTING POSITIONING
(51) H04L 5/00	H04W 92/18	REFERENCE SIGNAL
H04L 5/16	(11) EP3668235	(73) LG Electronics Inc.
H04W 72/0446	(21) EP18843562.2	(72) KIM, Myeongjin
H04W 72/51	(47) 26.07.2023	LEE, Sangrim
H04L 5/02	(87) KR2018009291	(51) H04L 5/00
H04L 5/14	14.02.2019	H04W 72/04
(11) EP3577974	(22) 13.08.2018	H04W 4/00
(21) EP18706036.3		H04W 88/06

(11) EP3448103	(31) 201615156944	HALEVI, Shai
(21) EP17785597.0	201562165688 P	(31) 201916444540
(47) 26.07.2023	(32) 17.05.2016	201916444278
(87) JP2017003683	22.05.2015	(32) 18.06.2019
26.10.2017	(33) United States of America	18.06.2019
(22) 02.02.2017	United States of America	(33) United States of America
(54) TERMINAL APPARATUS, BASE	(51) H04L 5/02	United States of America
STATION APPARATUS, AND	H04L 5/00	(51) H04L 9/00
COMMUNICATION METHOD	H04L 27/20	H04L 9/32
(73) Sony Group Corporation	H04L 27/26	(11) EP3754898
(72) SHIMEZAWA, Kazuyuki	(11) EP3726771	(21) EP19020392.7
(31) 2016085087	(21) EP20737326.7	(47) 26.07.2023
(32) 21.04.2016	(47) 26.07.2023	(22) 19.06.2019
(33) Japan	(87) KR2020002187	(54) IMPROVEMENTS IN MULTI-PARTY
(51) H04L 5/00	20.08.2020	COMPUTATIONS
H04W 72/04	(22) 17.02.2020	(73) Sedicii Innovations Ltd.
H04W 72/23	(54) METHOD FOR TRANSMITTING	(72) Toledo, Sergio Medina
(11) EP3661095	DEMODULATION REFERENCE	Díaz, Néstor Álvarez
(21) EP18838254.3	SIGNAL REGARDING UPLINK	DE Vega Rodrigo, Miguel
(47) 26.07.2023	CONTROL SIGNAL IN WIRELESS	Leslie, Rob
(87) CN2018094811	COMMUNICATION SYSTEM, AND	(51) H04L 9/00
31.01.2019	APPARATUS THEREFOR	H04L 9/32
(22) 06.07.2018	(73) LG ELECTRONICS INC.	H04L 9/06
(54) BWP CONTROL METHOD, RELATED	(72) LEE, Kilbom	G06F 21/62
DEVICE, AND SYSTEM	CHA, Hyunsu	G06Q 30/0207
(73) Vivo Mobile Communication Co., Ltd.	PARK, Haewook	G06Q 30/0226
(72) JIANG, Lei	YOON, Sukhyon	G06Q 30/0601
LU, Zhi	(31) 20190033972	G06Q 10/00
SUN, Peng	20190017735	G06Q 20/06
BAO, Wei	201962806719 P	G06Q 20/10
(31) 201710619628	(32) 25.03.2019	G06Q 20/36
(32) 26.07.2017	15.02.2019	G06F 16/27
(33) China	15.02.2019	(11) EP3414713
(51) H04L 5/00	(33) Korea (Republic)	(21) EP17749884.7
H04W 72/23	Korea (Republic)	(47) 26.07.2023
(11) EP3435721	United States of America	(87) CA2017050169
(21) EP16895231.5	(51) H04L 9/00	17.08.2017
(47) 26.07.2023	(11) EP3446272	(22) 13.02.2017
(87) CN2016104035	(21) EP17734533.7	(54) METHODS AND SYSTEMS FOR
28.09.2017	(47) 26.07.2023	DIGITAL REWARD PROCESSING
(22) 31.10.2016	(87) US2017028224	(73) Royal Bank Of Canada
(54) SCHEDULING SIGNALING	30.11.2017	(72) ORTIZ, Edison U.
CONFIGURATION METHOD,	(22) 19.04.2017	VINTILA, Iustina-Miruna
RECEIVING METHOD AND	(54) METHOD AND SYSTEM FOR AN	(31) 201662341363 P
ASSOCIATED EQUIPMENT	EFFICIENT CONSENSUS MECHANISM	201662294978 P
(73) Yulong Computer Telecommunication	FOR PERMISSIONED BLOCKCHAINS	(32) 25.05.2016
Scientific (Shenzhen) Co., Ltd.	USING AUDIT GUARANTEES	12.02.2016
(72) LI, Mingju	(73) Mastercard International Incorporated	(33) United States of America
(31) 201610178021	(72) DAVIS, Steven, Charles	United States of America
(32) 25.03.2016	(31) 201615163007	(51) H04L 9/06
(33) China	(32) 24.05.2016	H04L 9/32
(51) H04L 5/00	(33) United States of America	H04L 9/00
H04W 72/23	(51) H04L 9/00	H04W 12/0431
(11) EP3295744	H04L 9/30	H04W 12/37
(21) EP16799262.7	G06F 21/60	H04W 12/06
(47) 26.07.2023	G06F 21/62	(11) EP3259928
(87) CN2016082811	(11) EP3984160	(21) EP15705304.2
01.12.2016	(21) EP20733265.1	(47) 26.07.2023
(22) 20.05.2016	(47) 26.07.2023	(87) EP2015053401
(54) DEVICE, NETWORK, AND METHOD	(87) EP2020066490	25.08.2016
FOR WIDEBAND LTE WITH	24.12.2020	(22) 18.02.2015
VIRTUAL (BASEBAND) CARRIER	(22) 15.06.2020	(54) ESTABLISHING AND MANAGING
AGGREGATION	(54) HOMOMORPHIC ENCRYPTION	IDENTITIES FOR CONSTRAINED
(73) Huawei Technologies Co., Ltd.	WITH APPLICATIONS TO PRIVATE	DEVICES
(72) CHENG, Qian	INFORMATION RETRIEVAL	(73) Telefonaktiebolaget LM Ericsson (publ)
XIAO, Weimin	(73) International Business Machines	(72) FORNEHED, John
SARTORI, Philippe	Corporation	SALMELA, Patrik
LIU, Jialing	(72) GENTRY, Craig Broadwell	(51) H04L 9/08

H04L 9/30	H04L 9/08	(73) Thales
H04B 7/185	G09C 1/00	(72) PEYREGA, Mathilde
H04W 4/06	(11) EP3577642	ROGNANT, Pierre
(11) EP3804216	(21) EP17703703.3	VAN WAMBEKE, Nicolas
(21) EP19814491.7	(47) 26.07.2023	(31) 1800987
(47) 26.07.2023	(87) EP2017052130	(32) 20.09.2018
(87) US2019024575	09.08.2018	(33) France
12.12.2019	(22) 01.02.2017	(51) H04L 9/40
(22) 28.03.2019	(54) METHODS AND DEVICES FOR	(11) EP3554036
(54) SYSTEM AND ASYNCHRONOUS	PROTECTING DATA	(21) EP17885469.1
PROTOCOL FOR VERIFIABLE SECRET	(73) Telefonaktiebolaget LM Ericsson (PUBL)	(47) 26.07.2023
SHARING	(72) DUBROVA, Elena	(87) CN2017101338
(73) HRL Laboratories, LLC	NORRMAN, Karl	05.07.2018
(72) LAMPKINS, Joshua, D.	(51) H04L 9/32	(22) 12.09.2017
(31) 201862680931 P	H04L 9/40	(54) DDOS ATTACK DETECTION METHOD
(32) 05.06.2018	(11) EP3748904	AND DEVICE
(33) United States of America	(21) EP20177405.6	(73) Huawei Technologies Co., Ltd.
(51) H04L 9/08	(47) 26.07.2023	(72) WANG, Tienan
H04L 9/32	(22) 29.05.2020	ZHOU, Chong
(11) EP3471334	(54) COMMUNICATION PROGRAM,	(31) 201611243772
(21) EP17195646.9	COMMUNICATION METHOD AND	(32) 29.12.2016
(47) 26.07.2023	COMMUNICATION DEVICE	(33) China
(22) 10.10.2017	(73) FUJITSU LIMITED	(51) H04L 9/40
(54) METHOD FOR CONFIGURING A	(72) Suzuki, Dai	G06F 13/40
TRANSPONDER, TRANSPONDER AND	(31) 2019105844	(11) EP3566408
BASE STATION	(32) 06.06.2019	(21) EP17703360.2
(73) NXP B.V.	(33) Japan	(47) 26.07.2023
(72) NOWOTTNICK, Juergen	(51) H04L 9/32	(87) EP2017052015
GRAEBER, Frank	H04L 9/40	09.08.2018
(51) H04L 9/08	H04L 9/06	(22) 31.01.2017
H04L 9/32	(11) EP3334121	(54) PROCESSING DEVICE,
(11) EP3694143	(21) EP17205943.8	COMMUNICATION DEVICE AND
(21) EP20168588.0	(47) 26.07.2023	METHODS THEREOF
(47) 26.07.2023	(22) 07.12.2017	(73) Huawei Technologies Co., Ltd.
(22) 19.08.2014	(54) PROCESS OF GENERATING AN	(72) UDEN, Johan
(54) ENABLING ACCESS TO DATA	ELECTRONIC SIGNATURE OF A	LUNDGREN, Thomas
(73) Visa Europe Limited	DOCUMENT ASSOCIATED TO A	(51) H04L 9/40
(72) TARATINE, Boris	DIGEST	G06F 21/32
LEWIS, Malcolm	(73) Idemia Identity & Security France	G06Q 20/40
(31) 201314782	(72) PROUFF, Emmanuel	H04L 9/32
(32) 19.08.2013	CHABANNE, Hervé	H04W 12/06
(33) United Kingdom	CLEMOT, Olivier	G07F 7/10
(51) H04L 9/08	KEUFFER, Julien, Paul	(11) EP3657368
H04L 9/40	(31) 1662089	(21) EP19210425.5
H04W 12/069	(32) 07.12.2016	(47) 26.07.2023
H04W 12/108	(33) France	(22) 20.11.2019
G06F 21/30	(51) H04L 9/40	(54) IC CARD, PORTABLE ELECTRONIC
H04L 9/32	(11) EP3847790	DEVICE, IC CARD PROCESSING
H04W 12/047	(21) EP18782530.2	METHOD AND PROGRAM
(11) EP4022472	(47) 26.07.2023	(73) Toshiba Infrastructure Systems &
(21) EP20797328.0	(87) SE2018050889	Solutions Corporation
(47) 26.07.2023	12.03.2020	Kabushiki Kaisha Toshiba
(87) US2020054363	(22) 05.09.2018	(72) Waga, Yoshihiro
15.04.2021	(54) LAWFUL INTERCEPTION MANIFESTO	(31) 2018218392
(22) 06.10.2020	(73) TELEFONAKTIEBOLAGET LM	(32) 21.11.2018
(54) USER AUTHENTICATION	ERICSSON (PUBL)	(33) Japan
FRAMEWORK	(72) MARFIA, Francesca	(51) H04L 9/40
(73) Apple Inc.	IMBIMBO, Amedeo	G06F 21/44
(72) KHAN, Ahmer A.	ASCIONE, Mario	(11) EP3732849
YANG, Xiangying	(51) H04L 9/40	(21) EP18826085.5
HARING, Martijn T.	(11) EP3627795	(47) 26.07.2023
(31) 202017033415	(21) EP19197079.7	(87) EP2018086857
201962911832 P	(47) 26.07.2023	04.07.2019
(32) 25.09.2020	(22) 12.09.2019	(22) 24.12.2018
07.10.2019	(54) METHOD FOR DETECTING AND	(54) METHOD AND SYSTEM FOR
(33) United States of America	FILTERING ILLEGAL STREAMS IN	IDENTIFYING A USER TERMINAL IN
United States of America	A SATELLITE COMMUNICATION	ORDER TO RECEIVE STREAMING
(51) H04L 9/32	NETWORK	PROTECTED MULTIMEDIA CONTENT

(73) Viaccess	26.12.2019	(11) EP3820115
(72) PHIRMIS, Mathieu	(22) 19.06.2019	(21) EP20217279.7
(31) 1763211	(54) METHOD AND SYSTEM OF	(47) 26.07.2023
(32) 26.12.2017	PROVIDING SECURE ACCESS TO	(22) 24.12.2020
(33) France	A CLOUD SERVICE IN A CLOUD	(54) METHOD AND APPARATUS FOR
(51) H04L 9/40	COMPUTING ENVIRONMENT	DEFENDING AGAINST ATTACKS,
G06F 21/45	(73) Siemens Aktiengesellschaft	DEVICE AND STORAGE MEDIUM
G06F 16/955	(72) OSIGUS, Heiko	(73) Apollo Intelligent Connectivity (Beijing)
(11) EP4060934	BENDER, Philipp	Technology Co., Ltd.
(21) EP21195777.4	SELLE, Sven	(72) CUI, Zhiyang
(47) 26.07.2023	(31) 18178618	(31) 202010597499
(22) 09.09.2021	(32) 19.06.2018	(32) 28.06.2020
(54) INFORMATION PROCESSING	(33) European Patent Office (EPO)	(33) China
APPARATUS AND INFORMATION	(51) H04L 9/40	(51) H04L 12/10
PROCESSING PROGRAM	H04W 4/42	(11) EP4054122
(73) Fujifilm Business Innovation Corp.	H04L 9/00	(21) EP22159402.1
(72) MARUYAMA, Yasuhiro	H04W 12/106	(47) 26.07.2023
(31) 2021044830	H04W 12/108	(22) 01.03.2022
(32) 18.03.2021	H04W 12/61	(54) POWERED DEVICE FOR IDENTIFYING
(33) Japan	(11) EP3703333	THE TYPE OF A POWER SOURCING
(51) H04L 9/40	(21) EP20154072.1	EQUIPMENT
G06F 21/60	(47) 26.07.2023	(73) HUAWEI TECHNOLOGIES CO., LTD.
(11) EP3809666	(22) 28.01.2020	(72) SONG, Weiping
(21) EP20192865.2	(54) METHOD, APPARATUS AND SYSTEM	ZHANG, Zhongshu
(47) 26.07.2023	FOR PROCESSING AT LEAST ONE	MA, Wanxiang
(22) 26.08.2020	INFORMATION ITEM IN A SAFETY	WANG, Jinlong
(54) METHOD AND SYSTEM FOR	SYSTEM	(31) 202110228890
AUTOMATICALLY IDENTIFYING	(73) Siemens Mobility GmbH	(32) 02.03.2021
AND CORRECTING SECURITY	(72) Braband, Jens	(33) China
VULNERABILITIES IN AN API	(31) 102019202624	(51) H04L 12/12
(73) Accenture Global Solutions Limited	(32) 27.02.2019	(11) EP3869741
(72) RAMASAMY, Manoharan	(33) Germany	(21) EP19888578.2
JANARDHANAN, Satish	(51) H04L 9/40	(47) 26.07.2023
RAMACHANDRA SHETTY, Manjunatha	H04W 12/02	(87) CN2019120451
Beedimane	G01S 19/20	04.06.2020
(31) 201916653045	H04W 4/12	(22) 23.11.2019
(32) 15.10.2019	H04W 4/20	(54) DATA TRANSMISSION METHOD AND
(33) United States of America	G06F 21/57	APPARATUS AND SYSTEM
(51) H04L 9/40	H04W 12/10	(73) Huawei Technologies Co., Ltd.
H04L 9/08	G01S 19/03	(72) HAN, Tao
H04W 12/0471	G01S 19/21	SHENG, Jian
H04L 9/00	H04W 12/12	JIANG, Wei
(11) EP3644548	H04W 4/029	(31) 201811440792
(21) EP18820430.9	G01S 19/39	(32) 29.11.2018
(47) 26.07.2023	(11) EP3102965	(33) China
(87) JP2018023380	(21) EP15745924.9	(51) H04L 12/28
27.12.2018	(47) 26.07.2023	H04L 41/0806
(22) 20.06.2018	(87) US2015014580	H04L 41/0816
(54) KEY EXCHANGE SYSTEM AND KEY	13.08.2015	H04L 41/0895
EXCHANGE METHOD	(22) 05.02.2015	H04L 41/40
(73) Nippon Telegraph And Telephone	(54) METHODS AND APPARATUS FOR	(11) EP3579498
Corporation	IDENTIFICATION AND RANKING OF	(21) EP18176265.9
(72) NAKADAIRA Atsushi	SYNTHETIC LOCATIONS FOR MOBILE	(47) 26.07.2023
FUJIMURA Shigeru	APPLICATIONS	(22) 06.06.2018
OHASHI Shigenori	(73) Verve Group, Inc.	(54) METHOD FOR CONFIGURING A
SAITO Tsunekazu	(72) ABOU-RIZK, Mitri	COMMUNICATION NETWORK
SUZUKI Koutarou	NICOTRA, Chris	(73) Siemens Aktiengesellschaft
WATANABE Hiroki	NG, Gary	(72) Kintzler, Florian
(31) 2017121633	JOHNSTON, Eric M.	(51) H04L 12/28
(32) 21.06.2017	CROOK, Brian	H04L 41/0895
(33) Japan	(31) 201461936144 P	H04L 41/0896
(51) H04L 9/40	(32) 05.02.2014	H04L 41/40
H04L 67/125	(33) United States of America	H04L 43/0876
H04L 67/10	(51) H04L 9/40	H04L 43/16
(11) EP3794794	H04W 12/10	H04L 43/20
(21) EP19732020.3	G06F 21/55	H04L 47/52
(47) 26.07.2023	H04W 12/12	H04L 47/72
(87) EP2019066220	H04W 4/40	H04L 47/78

H04Q 11/00	(33) China	(54) FRAMES FOR SHORT-TERM CONTROL IN PHYSICAL LAYER
H04L 47/783	(51) H04L 12/46	(73) ORANGE
(11) EP3820085	G06F 9/50	(72) CARIOU, Laurent
(21) EP19885256.8	G06F 9/455	CHRISTIN, Philippe
(47) 26.07.2023	(11) EP3364606	(31) 1255196
(87) CN2019117267	(21) EP16791993.5	(32) 05.06.2012
22.05.2020	(47) 26.07.2023	(33) France
(22) 11.11.2019	(87) CN2016079197	
(54) DYNAMIC BANDWIDTH ALLOCATION METHOD AND RELATED DEVICE	17.11.2016	(51) H04L 27/26
(73) HUAWEI TECHNOLOGIES CO., LTD.	(22) 13.04.2016	(11) EP3188380
(72) XU, Enqi	(54) NETWORK FUNCTION VIRTUALIZATION SYSTEM AND NETWORK SERVICE INSTANTIATION METHOD	(21) EP15841393.0
LUO, Jun	(73) ZTE Corporation	(47) 26.07.2023
WANG, Zhanfeng	(72) MENG, Zhaoxing	(87) CN2015070288
LU, Xun	XU, Houqiang	24.03.2016
(31) 201811342671	XU, Daigang	(22) 07.01.2015
(32) 12.11.2018	XUE, Yuhong	(54) WIRELESS LOCAL AREA NETWORK DATA TRANSMISSION METHOD AND DEVICE
(33) China	(31) 201510662615	(73) Huawei Technologies Co., Ltd.
(51) H04L 12/40	(32) 14.10.2015	(72) ZHANG, Jiayin
H04W 88/06	(33) China	LUO, Jun
(11) EP3910886	(51) H04L 12/46	BARBER, Phillip
(21) EP20175036.1	H04L 41/0668	(31) PCT/CN2015/070233
(47) 26.07.2023	H04L 45/00	PCT/CN2014/086944
(22) 15.05.2020	H04L 45/02	(32) 06.01.2015
(54) DEVICE AND METHOD FOR DATA TRANSMISSION ON A PLURALITY OF DATA TRANSMISSION CHANNELS	H04L 45/28	19.09.2014
(73) ise Individuelle Software und Elektronik GmbH	H04L 45/50	(33) World Intellectual Property Office (WIPO)
(72) Klein, Torben	H04L 47/125	World Intellectual Property Office (WIPO)
Gossé, Christian	(11) EP3691185	(51) H04L 27/26
Sahm, Christoph	(21) EP18867371.9	H04L 5/00
Bowenk, Artur	(47) 26.07.2023	(11) EP3607713
Kamenik, Jens	(87) CN2018110413	(21) EP18717808.2
Marks, Henrik	25.04.2019	(47) 26.07.2023
(51) H04L 12/46	(22) 16.10.2018	(87) US2018024645
(11) EP4009594	(54) METHOD FOR PROCESSING MESSAGE, DEVICE, AND SYSTEM	11.10.2018
(21) EP21211126.4	(73) Huawei Technologies Co., Ltd.	(22) 27.03.2018
(47) 26.07.2023	(72) LI, Kai	(54) SYNCHRONIZATION SIGNALING SUPPORTING MULTIPLE WAVEFORMS
(22) 06.02.2018	DING, Shenyu	(73) Qualcomm Incorporated
(54) BANDWIDTH ALLOCATION DEVICE AND BANDWIDTH ALLOCATION METHOD	GAO, Yuan	(72) AKKARAKARAN, Sony
(73) NIPPON TELEGRAPH AND TELEPHONE CORPORATION	(31) 201710961377	KADOUS, Tamer
(72) UZAWA, Hiroyuki	(32) 17.10.2017	LUO, Tao
NOMURA, Hiroko	(33) China	MALIK, Rahul
HISANO, Daisuke	(51) H04L 12/46	SUN, Jing
SHIMADA, Tatsuya	H04W 76/12	REDDY, Akula
(31) 2017023365	(11) EP4072077	(31) 201815936311
(32) 10.02.2017	(21) EP22156948.6	201762481643 P
(33) Japan	(47) 26.07.2023	(32) 26.03.2018
(51) H04L 12/46	(22) 21.08.2018	04.04.2017
(11) EP3783843	(54) DATA TRANSMISSION METHOD, DEVICE, AND SYSTEM	(33) United States of America
(21) EP19799927.9	(73) Huawei Technologies Co., Ltd.	United States of America
(47) 26.07.2023	(72) HU, Yong	(51) H04L 27/26
(87) CN2019085849	YAO, Qi	H04L 27/34
14.11.2019	(31) 201810890123	(11) EP3429149
(22) 07.05.2019	201710758372	(21) EP17762725.4
(54) PACKET TRANSMISSION BETWEEN DIFFERENT DATA CENTERS OVER SEGMENT VXLAN TUNNELS	(32) 07.08.2018	(47) 26.07.2023
(73) HUAWEI TECHNOLOGIES CO., LTD.	29.08.2017	(87) JP2017001969
(72) GAO, Jun	(33) China	14.09.2017
GAO, Yuan	China	(22) 20.01.2017
ZENG, Wanmei	(51) H04L 12/54	(54) TERMINAL DEVICE, BASE STATION DEVICE, COMMUNICATION METHOD, AND INTEGRATED CIRCUIT
(31) 201810443754	H04W 84/12	(73) Sharp Kabushiki Kaisha
(32) 10.05.2018	(11) EP3742681	(72) YOKOMAKURA, Kazunari
	(21) EP20184974.2	YAMADA, Shohei
	(47) 26.07.2023	TAKAHASHI, Hiroki
	(22) 05.06.2013	SUZUKI, Shoichi
		(31) 2016046647

(32) 10.03.2016	(33) European Patent Office (EPO)	YANG, Qingping
(33) Japan	(51) H04L 41/0803	WANG, Chuntao
(51) H04L 41/0631	H04L 61/5014	(31) 202010414492
G06F 11/07	H04L 61/5061	(32) 15.05.2020
G06F 18/213	H04L 41/0213	(33) China
G06F 18/214	(11) EP3358785	(51) H04L 41/142
G06F 18/243	(21) EP16856895.4	H04L 41/147
(11) EP3796176	(47) 26.07.2023	H04L 41/0823
(21) EP19819128.0	(87) CN2016102599	(11) EP3989485
(47) 26.07.2023	27.04.2017	(21) EP20885260.8
(87) CN2019091207	(22) 19.10.2016	(47) 26.07.2023
19.12.2019	(54) METHOD AND DEVICE FOR	(87) CN2020118371
(22) 14.06.2019	ACQUIRING RESOURCE	14.05.2021
(54) FAULT ROOT CAUSE ANALYSIS	(73) Huawei Technologies Co., Ltd.	(22) 28.09.2020
METHOD AND APPARATUS	(72) XU, Weiping	(54) NWDAF NETWORK ELEMENT
(73) Huawei Technologies Co., Ltd.	LIU, Shucheng	SELECTION METHOD AND
(72) HUANG, Zengjun	(31) 201510697563	APPARATUS, ELECTRONIC DEVICE,
CHENG, Kang	(32) 23.10.2015	AND READABLE STORAGE MEDIUM
XIE, Bo	(33) China	(73) Tencent Technology (Shenzhen)
LI, Jian	(51) H04L 41/0806	Company Limited
HU, Min	H04L 43/0817	(72) ZHANG, Zhuoyun
(31) 201810623804	(11) EP3694153	(31) 201911078276
(32) 15.06.2018	(21) EP18873491.7	(32) 06.11.2019
(33) China	(47) 26.07.2023	(33) China
(51) H04L 41/0631	(87) CN2018111811	(51) H04L 41/5019
H04L 41/142	09.05.2019	(11) EP3763081
H04L 41/0681	(22) 25.10.2018	(21) EP19709439.4
H04L 41/0686	(54) METHOD, RELEVANT DEVICE AND	(47) 26.07.2023
H04L 43/04	SYSTEM FOR ACQUIRING A TARGET	(87) EP2019055356
H04L 43/0823	TRANSMISSION PATH	12.09.2019
H04W 24/08	(73) Huawei Technologies Co., Ltd.	(22) 05.03.2019
H04L 41/507	(72) LIU, Lei	(54) PROCEDURE FOR DYNAMIC SERVICE
(11) EP3852310	ZHA, Min	NEGOTIATION
(21) EP21152237.0	CHEN, Qichang	(73) TELEFONAKTIEBOLAGET LM
(47) 26.07.2023	(31) 201711051321	ERICSSON (PUBL)
(22) 19.01.2021	(32) 31.10.2017	(72) CELLARIUS, Bastian
(54) METHOD AND DEVICE FOR	(33) China	CONDOLUCI, Massimo
ESTIMATING A NUMBER OF	(51) H04L 41/12	LI, Yunxi
DISTINCT SUBSCRIBERS OF A	H04L 43/065	SORRENTINO, Stefano
TELECOMMUNICATION NETWORK	H04L 43/08	(31) 201862638543 P
IMPACTED BY NETWORK ISSUES	H04L 65/1069	(32) 05.03.2018
(73) EXFO Solutions SAS	(11) EP3869739	(33) United States of America
(72) BOUSSAC, Thierry	(21) EP21155995.0	(51) H04L 41/5051
CRUCEANU, Richard	(47) 26.07.2023	H04L 41/0896
(31) 202062975414 P	(22) 09.02.2021	H04L 41/5054
202062963324 P	(54) METHOD FOR MONITORING	H04L 41/342
(32) 12.02.2020	APPARATUS	H04L 41/122
20.01.2020	(73) Top Win Optoelectronics Corp.	G06F 9/54
(33) United States of America	(72) SHEN, Yu-Tsang	H04L 12/46
United States of America	(31) 109116393	H04L 41/0266
(51) H04L 41/08	109105284	(11) EP3780501
G06F 9/455	(32) 18.05.2020	(21) EP20186645.6
H04L 67/12	19.02.2020	(47) 26.07.2023
(11) EP3834373	(33) Taiwan, Chinese Taipei	(22) 26.02.2015
(21) EP19779390.4	Taiwan, Chinese Taipei	(54) A DECLARATIVE APPROACH TO
(47) 26.07.2023	(51) H04L 41/14	VIRTUAL NETWORK CREATION AND
(87) EP2019074941	H04W 24/02	OPERATION
16.04.2020	H04W 24/04	(73) HUAWEI TECHNOLOGIES CO., LTD.
(22) 18.09.2019	H04L 41/5067	(72) ZHANG, Shujin
(54) METHOD FOR AUTOMATICALLY	H04L 41/16	(31) 201414193034
CONFIGURING A SYSTEM, SYSTEM	(11) EP3910881	(32) 28.02.2014
AND COMPUTER READABLE MEDIUM	(21) EP21173794.5	(33) United States of America
(73) Siemens Aktiengesellschaft	(47) 26.07.2023	(51) H04L 43/022
(72) HÖME, Stephan	(22) 13.05.2021	H04L 41/16
TALANIS, Thomas	(54) QOE ASSESSMENT METHOD AND	(11) EP3909203
ALBRECHT, Harald	RELATED DEVICE	(21) EP19916988.9
(31) 18200134	(73) HUAWEI TECHNOLOGIES CO., LTD.	(47) 26.07.2023
(32) 12.10.2018	(72) TIAN, Jiaming	(87) CN2019092873

03.09.2020	H04L 12/46	(73) Huawei Technologies Co., Ltd.
(22) 26.06.2019	H04L 47/70	(72) YUAN, Feng
(54) ARTIFICIAL INTELLIGENT ENHANCED DATA SAMPLING	H04L 61/5007	JIANG, Ling
(73) Huawei Technologies Co., Ltd.	(11) EP3629559	SHEN, Li
(72) LI, Ming	(21) EP19189268.6	(31) 201610570733
ZHAO, Katherine	(47) 26.07.2023	(32) 19.07.2016
(31) 201962811285 P	(22) 16.06.2016	(33) China
(32) 27.02.2019	(54) METHOD FOR CONFIGURING FORWARDING TABLE FOR USER EQUIPMENT AND APPARATUS	(51) H04L 45/16
(33) United States of America	(73) Huawei Technologies Co. Ltd.	H04L 45/58
(51) H04L 43/12	(72) YANG, Wenle	H04L 45/64
H04L 67/1095	BAI, Yuanling	H04L 45/76
(11) EP3878158	ZHENG, Ruobin	H04L 12/46
(21) EP19829737.6	(31) 201510349681	H04L 45/586
(47) 26.07.2023	(32) 23.06.2015	H04L 49/00
(87) US2019065407	(33) China	H04L 49/201
18.06.2020	(51) H04L 45/00	H04L 45/00
(22) 10.12.2019	H04L 45/48	H04L 49/354
(54) MIRRORING NETWORK TRAFFIC OF VIRTUAL NETWORKS AT A SERVICE PROVIDER NETWORK	(11) EP3913869	(11) EP3968580
(73) Amazon Technologies Inc.	(21) EP20192223.4	(21) EP20832715.5
(72) MAGERRAMOV, Joseph Elmar	(47) 26.07.2023	(47) 26.07.2023
GALLIHER, Richard H.	(22) 21.08.2020	(87) CN2020097241
DILLARD, Lee Spencer	(54) TRANSFORMING A MULTI-LEVEL HYBRID HIERARCHICAL FORWARDING INFORMATION BASE FORMAT	30.12.2020
MEHTA, Nishant	(73) Juniper Networks, Inc.	(22) 19.06.2020
DAWANI, Anoop	(72) KEDIA, Puneet	(54) METHOD FOR GENERATING MULTICAST FORWARDING TABLE ENTRY, AND ACCESS GATEWAY
(31) 201816215943	MANJUNATH, Ramakrishna	(73) Huawei Technologies Co., Ltd.
(32) 11.12.2018	RAMAPRASAD, Prashanth	(72) LIN, Zhongfang
(33) United States of America	BYRAPURA DODDEGOWDA, Madhu	JU, Wenbin
(51) H04L 43/50	(31) 202041020812	(31) 201910554586
H04L 43/0864	202016916233	(32) 25.06.2019
H04L 43/106	(32) 18.05.2020	(33) China
H04L 41/5009	30.06.2020	(51) H04L 45/50
(11) EP3745652	(33) India	H04L 45/645
(21) EP19181457.3	United States of America	(11) EP3942751
(47) 26.07.2023	(51) H04L 45/00	(21) EP20708806.3
(22) 20.06.2019	H04L 69/22	(47) 26.07.2023
(54) ENHANCED TWO-WAY ACTIVE MEASUREMENT PROTOCOL	H04L 45/74	(87) US2020015415
(73) Juniper Networks, Inc.	(11) EP3972207	24.09.2020
(72) G, Radhakrishnan	(21) EP20826250.1	(22) 28.01.2020
THANGAVEL, Mohan	(47) 26.07.2023	(54) METHOD AND SYSTEM FOR PROCESSING NETWORK TRAFFIC USING EXPANDED LABELS
PASUPATHY, Thyagarajan S.	(87) CN2020096662	(73) Arista Networks, Inc.
KRISHNASAMI, Elango	24.12.2020	(72) LIANG, Simon
(31) 201916428673	(22) 17.06.2020	SELLAPPA, Sriram
(32) 31.05.2019	(54) MESSAGE PROCESSING METHOD, DEVICE, AND COMPUTER STORAGE MEDIUM	(31) 201916358005
(33) United States of America	(73) Huawei Technologies Co., Ltd.	(32) 19.03.2019
(51) H04L 43/50	(72) LI, Cheng	(33) United States of America
H04L 43/20	LI, Zhenbin	(51) H04L 45/74
G06F 11/00	(31) 201910523355	(11) EP3836495
G06F 11/30	(32) 17.06.2019	(21) EP19854571.7
G06F 11/36	(33) China	(47) 26.07.2023
H04L 43/00	(51) H04L 45/03	(87) CN2019102898
H04L 41/0897	H04L 47/125	05.03.2020
(11) EP3629522	H04L 47/11	(22) 27.08.2019
(21) EP19200304.4	H04L 45/24	(54) COMMUNICATION METHOD AND COMMUNICATION DEVICE
(47) 26.07.2023	(11) EP3468119	(73) Huawei Technologies Co., Ltd.
(22) 27.09.2019	(21) EP17830212.1	(72) ZHANG, Yaokun
(54) SYSTEMS AND METHODS FOR TESTING RESILIENCE OF A DISTRIBUTED NETWORK	(47) 26.07.2023	SUN, Chunxia
(73) Atlassian Pty Ltd	(87) CN2017076987	(31) 201811005412
(72) Koshelev, Artem	25.01.2018	(32) 30.08.2018
(31) 201816145211	(22) 16.03.2017	(33) China
(32) 28.09.2018	(54) METHOD, APPARATUS AND DEVICE FOR BALANCING LOAD	(51) H04L 47/125
(33) United States of America		H04L 12/46
(51) H04L 45/00		H04L 47/26
		H04L 47/41

H04L 47/27	PROBLEM, CORRESPONDING	(72) GANDHEWAR, Sunil Madhaorao
H04L 47/34	EXECUTION, CHECKING AND RULE	X, Nirmal Antony
H04L 41/0896	MANAGEMENT ENTITIES AND	ONISHI, Steven P.
(11) EP3896909	COMPUTER PROGRAM	(31) 201816210907
(21) EP21160792.4	(73) ORANGE	(32) 05.12.2018
(47) 26.07.2023	(72) LE ROUZIC, Jean-Claude	(33) United States of America
(22) 28.08.2017	DORÉE, José	(51) H04L 65/1016
(54) PACKET PROCESSING METHOD	(31) 1761445	H04L 61/4588
AND NETWORK DEVICE IN HYBRID	(32) 30.11.2017	H04L 67/51
ACCESS NETWORK	(33) France	(11) EP3949308
(73) HUAWEI TECHNOLOGIES CO., LTD.	(51) H04L 51/02	(21) EP20705083.2
(72) ZHANG, Mingui	G10L 15/22	(47) 26.07.2023
ZHENG, Lianshu	G10L 25/63	(87) EP2020054448
(31) 201610977391	G10L 13/027	08.10.2020
(32) 04.11.2016	G10L 15/26	(22) 20.02.2020
(33) China	G10L 25/30	(54) SERVICE BASED INTERFACE
(51) H04L 47/125	(11) EP3577860	ENABLED HOME SUBSCRIBER
H04L 47/28	(21) EP17904667.7	SERVICE SELECTION
H04L 5/14	(47) 26.07.2023	(73) TELEFONAKTIEBOLAGET LM
(11) EP3637704	(87) CN2017079698	ERICSSON (PUBL)
(21) EP18809629.1	11.10.2018	(72) DOPICO SANJUAN, Jose Miguel
(47) 26.07.2023	(22) 07.04.2017	BARTOLOMÉ RODRIGO, Maria Cruz
(87) CN2018085942	(54) VOICE FORWARDING IN AUTOMATED	CASTELLANOS ZAMORA, David
06.12.2018	CHATTING	FOTI, George
(22) 08.05.2018	(73) Microsoft Technology Licensing, LLC	(31) 19382482
(54) DATA TRANSMISSION METHOD AND	(72) WU, Xianchao	19382226
DEVICE	ITO, Kazushige	(32) 07.06.2019
(73) Huawei Technologies Co., Ltd.	(51) H04L 61/4511	29.03.2019
(72) WU, Tao	(11) EP3852344	(33) European Patent Office (EPO)
SHEN, Li	(21) EP18936960.6	European Patent Office (EPO)
ZHOU, Hong	(47) 26.07.2023	(51) H04L 65/1016
(31) 201710403008	(87) CN2018110268	H04L 65/80
(32) 01.06.2017	23.04.2020	H04L 69/04
(33) China	(22) 15.10.2018	H04L 65/1045
(51) H04L 47/2491	(54) METHOD AND DEVICE FOR DOMAIN	H04L 65/1094
H04W 28/24	NAME RESOLUTION BY SENDING KEY	H04L 65/1104
H04W 76/12	VALUE TO GRS SERVER	H04W 4/14
H04W 28/02	(73) HUAWEI TECHNOLOGIES CO., LTD.	H04W 4/20
(11) EP3881509	(72) ZHU, Hua	(11) EP3764617
(21) EP19828915.9	KE, Zunwei	(21) EP20194932.8
(47) 26.07.2023	HU, Xiongfeng	(47) 26.07.2023
(87) US2019061448	(51) H04L 61/4511	(22) 14.01.2011
22.05.2020	H04L 61/58	(54) METHOD AND SYSTEM FOR
(22) 14.11.2019	(11) EP3632089	REDUCING MESSAGE SIGNALING
(54) ENABLING A NON-PUBLIC NETWORK	(21) EP18737652.0	(73) BlackBerry Limited
COMMUNICATION	(47) 26.07.2023	(72) BAKKER, Jan Hendrik Lucas
(73) Sony Group Corporation	(87) FR2018000156	BUCKLEY, Adrian
(72) SHI, Xiaoyan	20.12.2018	SHATSKY, Alexander
AHMAD, Saad	(22) 04.06.2018	(31) 68766810
WANG, Guanzhou	(54) OPTIMISATION DE LA FRÉQUENCE	(32) 14.01.2010
(31) 201862768434 P	DE RAFRAICHISSEMENT D'UN	(33) United States of America
(32) 16.11.2018	ENREGISTREMENT DNS	(51) H04L 65/1069
(33) United States of America	(73) ORANGE	(11) EP3456022
(51) H04L 47/26	(72) CAYLA, Mathilde	(21) EP17721637.1
H04W 4/24	FIEAU, Frédéric	(47) 26.07.2023
H04L 43/0823	DUPONT, Baptiste	(87) EP2017060518
H04L 43/16	STEPHAN, Emile	16.11.2017
H04L 47/11	(31) 1754932	(22) 03.05.2017
H04L 47/2416	(32) 02.06.2017	(54) METHOD, SYSTEM, COMPUTER
(11) EP3718271	(33) France	PROGRAM AND COMPUTER
(21) EP18819328.8	(51) H04L 61/5014	READABLE STORAGE MEDIUM
(47) 26.07.2023	(11) EP3664420	FOR IMPROVED HANDLING OF AN
(87) FR2018052955	(21) EP19180554.8	IP MULTIMEDIA SUBSYSTEM, IMS,
06.06.2019	(47) 26.07.2023	CONVERSATIONAL SERVICE FOR A
(22) 22.11.2018	(22) 17.06.2019	USER EQUIPMENT
(54) METHODS FOR DETECTING,	(54) MANAGING ADDRESS SPACES	(73) Deutsche Telekom AG
MANAGING AND RELAYING A	ACROSS NETWORK ELEMENTS	(72) LAUSTER, Reinhard
MULTIMEDIA COMMUNICATION	(73) Juniper Networks, Inc.	ALEKSIEV, Vasil

(31) 16169631	(54) METHODS AND SYSTEMS FOR	SERVICES BY MEANS OF A PROCESS
(32) 13.05.2016	DYNAMIC MEDIA CONTENT OUTPUT	CONTROL ENVIRONMENT
(33) European Patent Office (EPO)	FOR MOBILE DEVICES	(73) Siemens Aktiengesellschaft
(51) H04L 65/1089	(73) Intel Corporation	(72) Albrecht, Harald
H04L 65/612	(72) PRAKASH, Gyan	Höme, Stephan
H04L 65/756	POORNACHANDRAN, Rajesh	Talanis, Thomas
(11) EP3866432	WOUHAYBI, Rita H.	(51) H04L 67/12
(21) EP20209367.0	MURPHY, Kaitlin	H04L 67/08
(47) 26.07.2023	HERNACKI, Brian J.	H04L 12/28
(22) 30.03.2011	(31) 201213631946	(11) EP3293941
(54) ADAPTABLE DATA STREAM	(32) 29.09.2012	(21) EP17189292.0
TRANSMISSION	(33) United States of America	(47) 26.07.2023
(73) ORANGE	(51) H04L 67/025	(22) 04.09.2017
(72) ELLOUZE, Selim	G06F 9/00	(54) SMART GATEWAY DEVICES,
MARJOU, Xavier	G06F 3/14	SYSTEMS AND METHODS FOR
FROMENTOUX, Gaël	G06F 11/30	PROVIDING COMMUNICATION
(31) 1052403	H04L 67/131	BETWEEN HVAC SYSTEM NETWORKS
(32) 31.03.2010	(11) EP3707885	(73) Johnson Controls Tyco IP Holdings LLP
(33) France	(21) EP19839089.0	(72) CURTIS, Daniel M.
(51) H04L 65/1089	(47) 26.07.2023	SCHUBERT, Shawn D.
H04L 67/10	(87) CN2019073716	GOTTSCHALK, Donald A.
H04L 65/612	06.08.2020	(31) 201615261843
H04L 67/52	(22) 29.01.2019	(32) 09.09.2016
H04L 67/50	(54) SYSTEMS AND METHODS OF	(33) United States of America
H04L 65/75	ENABLING FAST USER ACCESS TO	(51) H04L 67/51
(11) EP3785425	REMOTE DESKTOPS	(11) EP2070261
(21) EP19793169.4	(73) Citrix Systems, Inc.	(21) EP07814211.4
(47) 26.07.2023	(72) LIU, Yeping	(47) 26.07.2023
(87) US2019028892	LEI, Cao	(87) US2007076184
31.10.2019	LIU, Lei	06.03.2008
(22) 24.04.2019	(51) H04L 67/10	(22) 17.08.2007
(54) CROWDSOURCED PREDICTION OF	H04L 9/40	(54) INTERNETWORKING NODES BASED
CDN PERFORMANCE FOR ZERO	(11) EP3720087	ON CONNECTIONS, MEMBERSHIP,
BUFFER DELIVERY OF CONTENT	(21) EP20166930.6	AND LOCATION
(73) Roku, Inc.	(47) 26.07.2023	(73) Cisco Technology, Inc.
(72) MICHIELS, Wim	(22) 31.03.2020	(72) MOON, Billy G.
ASNIS, Ilya	(54) NODE FOR STORAGE OF DATA IN A	(31) 468456
(31) 201815961054	NETWORK	(32) 30.08.2006
(32) 24.04.2018	(73) Telia Company AB	(33) United States of America
(33) United States of America	(72) KEISALA, Ilkka	(51) H04L 67/56
(51) H04L 65/4061	RAPANEN, Joni	G06F 15/00
H04L 65/1089	JALKANEN, Tero	H04W 4/80
H04L 65/75	SARAJISTO, Tomi	H04L 67/025
(11) EP3554037	(31) 20195264	(11) EP3276497
(21) EP17890138.5	(32) 02.04.2019	(21) EP15886368.8
(47) 26.07.2023	(33) Finland	(47) 26.07.2023
(87) CN2017070678	(51) H04L 67/104	(87) JP2015059214
12.07.2018	H04L 67/1001	29.09.2016
(22) 09.01.2017	G06F 9/50	(22) 25.03.2015
(54) DOWNLINK MEDIA TRANSMISSION	(11) EP3703342	(54) METHOD FOR DEVICE CONTROL BY
CONTROL METHOD AND RELATED	(21) EP19160295.2	THIN CLIENT SYSTEM
DEVICE	(47) 26.07.2023	(73) Hyway Technology (Japan) Corp.
(73) Huawei Technologies Co., Ltd.	(22) 01.03.2019	(72) ZEYONG Zheng
(72) YANG, Yanmei	(54) DYNAMIC LOAD BALANCING IN	(51) H04L 69/14
GE, Cuili	NETWORK CENTRIC PROCESS	(11) EP3832987
(51) H04L 65/80	CONTROL SYSTEMS	(21) EP20774230.5
H04L 65/612	(73) ABB Schweiz AG	(47) 26.07.2023
H04L 65/756	(72) ANDERSSON, Staffan	(87) CN2020078965
H04L 67/306	(51) H04L 67/12	24.09.2020
H04L 67/5681	H04L 61/30	(22) 12.03.2020
H04L 67/5682	H04L 67/2895	(54) DATA PROCESSING METHOD AND
(11) EP2901806	H04L 67/1004	DEVICE
(21) EP13842543.4	(11) EP3975502	(73) HUAWEI TECHNOLOGIES CO., LTD.
(47) 26.07.2023	(21) EP20198692.4	(72) JADHAV, Rahul Arvind
(87) US2013062367	(47) 26.07.2023	CAO, Zhen
03.04.2014	(22) 28.09.2020	SARMA, K Anmol Mani Tejeswar
(22) 27.09.2013	(54) METHOD AND SYSTEM FOR	(31) 201910200157
	PROVIDING TIME-CRITICAL	(32) 15.03.2019

(33) China	(33) Korea (Republic)	(72) SEPPÄNEN, Juho
(51) H04L 69/163	Korea (Republic)	(31) 20175470
H04L 47/193	(51) H04M 1/02	(32) 24.05.2017
H04L 43/08	G06V 40/13	(33) Finland
(11) EP3780542	(11) EP3949359	(51) H04M 3/493
(21) EP19858201.7	(21) EP20713325.7	H04M 3/50
(47) 26.07.2023	(47) 26.07.2023	H04M 3/51
(87) CN2019086028	(87) EP2020058866	H04M 3/523
12.03.2020	08.10.2020	(11) EP3808065
(22) 08.05.2019	(22) 27.03.2020	(21) EP19821709.3
(54) DATA TRANSMISSION METHOD AND DEVICE	(54) DEVICE COMPRISING AN OPTICAL SENSOR	(47) 26.07.2023
(73) Tsinghua University	(73) ISORG	(87) US2019037429
HUAWEI TECHNOLOGIES CO., LTD.	(72) BOUTHINON, Benjamin	26.12.2019
(72) CUI, Yong	MULLER, Pierre	(22) 17.06.2019
WANG, Qiaoling	SCHWARTZ, Wilfrid	(54) SYSTEMS AND METHODS FOR AUTOMATING CUSTOMER INTERACTIONS WITH ENTERPRISES
ZHANG, Lei	PUSZKA, Agathe	(73) Greeneden U.S. Holdings II, LLC
(31) 201811026124	CHABLE, Quentin	(72) HVEZDA, James
(32) 04.09.2018	(31) 1903347	VILLALOBOS, Javier
(33) China	(32) 29.03.2019	HARLEV, Ron
(51) H04M 1/02	(33) France	SEKAR, Archana
B32B 33/00	(51) H04M 1/02	KONIG, Yochai
G06F 1/16	H04M 1/03	(31) 201816151362
(11) EP3989684	G06F 1/16	201862686077 P
(21) EP20856746.1	H04R 1/02	(32) 04.10.2018
(47) 26.07.2023	G06F 1/20	17.06.2018
(87) CN2020111143	H04R 17/00	(33) United States of America
04.03.2021	(11) EP3907977	United States of America
(22) 25.08.2020	(21) EP21182808.2	(51) H04M 9/02
(54) SHELL AND ELECTRONIC DEVICE	(47) 26.07.2023	(11) EP4054162
(73) Honor Device Co., Ltd.	(22) 24.06.2019	(21) EP22159227.2
(72) HUANG, Qiang	(54) PANEL BOTTOM ASSEMBLY FOR A DISPLAY DEVICE	(47) 26.07.2023
LIU, Yang	(73) Samsung Display Co., Ltd.	(22) 28.02.2022
(31) 201910817816	(72) JUNG, Kyung Ho	(54) MULTIPLE DWELLING HOUSE INTERPHONE SYSTEM
(32) 30.08.2019	LEE, Jae Ho	(73) Aiphone Co., Ltd.
(33) China	KO, Hyun Seok	(72) FUJISHIMA, Kimiaki
(51) H04M 1/02	JANG, Joo Nyung	UNO, Ryoji
G06F 1/16	(31) 20180074068	HATTORI, Masashi
(11) EP3957058	(32) 27.06.2018	SHIMOMURA, Yuta
(21) EP19719254.5	(33) Korea (Republic)	(31) 2021032837
(47) 26.07.2023	(51) H04M 1/02	(32) 02.03.2021
(87) EP2019060155	H04M 1/03	(33) Japan
22.10.2020	H04N 23/57	(51) H04M 9/08
(22) 18.04.2019	(11) EP3972229	(11) EP3829151
(54) ROLLING DISPLAY ARRANGEMENT FOR ELECTRONIC DEVICE	(21) EP20814510.2	(21) EP20203965.7
(73) Huawei Technologies Co., Ltd.	(47) 26.07.2023	(47) 26.07.2023
(72) KESKINEN, Miika	(87) CN2020083623	(22) 26.10.2020
LI, Xueqiang	03.12.2020	(54) ECHO SUPPRESSION DEVICE, ECHO SUPPRESSION METHOD, AND ECHO SUPPRESSION PROGRAM
OJANTO, Mika	(22) 08.04.2020	(73) Panasonic Intellectual Property Corporation of America
(51) H04M 1/02	(54) TERMINAL DEVICE	(72) TERASHIMA, Yuki
G06F 1/16	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	YUZURIHA, Shinichi
(11) EP4033742	(72) LI, Biao	(31) 2020087944
(21) EP22161530.5	WANG, Qiang	201962934119 P
(47) 26.07.2023	HUANG, Maozhao	(32) 20.05.2020
(22) 11.03.2020	(31) 201920758202 U	12.11.2019
(54) ELECTRONIC DEVICE INCLUDING FOLDABLE PLATE	(32) 24.05.2019	(33) Japan
(73) Samsung Electronics Co., Ltd.	(33) China	United States of America
(72) KIM, Seonghoon	(51) H04M 3/02	(51) H04N 1/00
AHN, Sungho	H04M 3/42	(11) EP3745698
YOO, Chungkeun	(11) EP3407585	(21) EP20175391.0
YEOM, Donghyun	(21) EP18173489.8	(47) 26.07.2023
KIM, Harksang	(47) 26.07.2023	(22) 19.05.2020
(31) 20190070106	(22) 22.05.2018	(54) GENERATION OF INFORMATION BASED ON EVENT DATA OF A CALL
20190027753	(54) GENERATION OF INFORMATION BASED ON EVENT DATA OF A CALL	(73) Telia Company AB
(32) 13.06.2019	(73) Telia Company AB	
11.03.2019		

(54) INFORMATION PROCESSING APPARATUS, INFORMATION PROCESSING METHOD, AND POSITION DETECTION SYSTEM	H04N 21/47 (11) EP3240284 (21) EP15873435.0 (47) 26.07.2023	(21) EP20198668.4 (47) 26.07.2023 (22) 28.09.2020
(73) CANON KABUSHIKI KAISHA (72) SHIOHARA, Tetsuya (31) 2019103173 (32) 31.05.2019 (33) Japan	(87) KR2015008053 30.06.2016 (22) 31.07.2015 (54) DIGITAL DEVICE AND METHOD FOR PROCESSING DATA BY SAME DIGITAL DEVICE	(54) OPERATION APPARATUS, MULTI-APPARATUS SYSTEM, CONTROL METHOD, AND PROGRAM (73) CANON KABUSHIKI KAISHA (72) KANO, Atsushi (31) 2019183836 (32) 04.10.2019 (33) Japan
(51) H04N 1/00 H04N 1/41 H04N 1/417 G06F 3/0484	(73) LG Electronics Inc. (72) KIM, Taeil YU, Hannie (31) 20150045322 201462096549 P (32) 31.03.2015 24.12.2014 (33) Korea (Republic) United States of America	(51) H04N 13/25 H04N 13/296 G01S 7/481 G01S 17/86 G01S 17/894 H04M 1/02 G06T 5/00 H04M 1/72403 H04N 13/271 H04N 23/45 H04N 23/56 H04N 23/74 H04N 23/951
(11) EP3893098 (21) EP19911770.6 (47) 26.07.2023 (87) CN2019073041 30.07.2020 (22) 24.01.2019	(51) H04N 5/58 G09G 3/34 (11) EP3840367 (21) EP20861997.3 (47) 26.07.2023 (87) CN2020110813 18.03.2021 (22) 24.08.2020 (54) TELEVISION AND BACKLIGHT CONTROL METHOD THEREFOR, CONTROL DEVICE, AND READABLE STORAGE MEDIUM	(11) EP3833019 (21) EP19851528.0 (47) 26.07.2023 (87) CN2019090017 27.02.2020 (22) 04.06.2019 (54) ELECTRONIC DEVICE AND CONTROL METHOD THEREFOR (73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. (72) ZHANG, Xueyong (31) 201810963394 (32) 22.08.2018 (33) China
(54) IMAGE SHARING METHOD AND MOBILE DEVICE (73) Huawei Technologies Co., Ltd. (72) XU, Jingguo	(73) Shenzhen Skyworth-RGB Electronic Co., Ltd. (72) QIN, Jilei (31) 201910859789 (32) 11.09.2019 (33) China	(72) ZHANG, Xueyong (31) 201810963394 (32) 22.08.2018 (33) China
(51) H04N 1/401 (11) EP3648445 (21) EP19203797.6 (47) 26.07.2023 (22) 17.10.2019	(47) 26.07.2023 (87) CN2020110813 18.03.2021 (22) 24.08.2020 (54) TELEVISION AND BACKLIGHT CONTROL METHOD THEREFOR, CONTROL DEVICE, AND READABLE STORAGE MEDIUM	(11) EP3833019 (21) EP19851528.0 (47) 26.07.2023 (87) CN2019090017 27.02.2020 (22) 04.06.2019 (54) ELECTRONIC DEVICE AND CONTROL METHOD THEREFOR (73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. (72) ZHANG, Xueyong (31) 201810963394 (32) 22.08.2018 (33) China
(54) IMAGE PROCESSING APPARATUS, IMAGE PROCESSING METHOD, AND COMPUTER PROGRAM (73) CANON KABUSHIKI KAISHA (72) KATO, Minako (31) 2018203274 (32) 29.10.2018 (33) Japan	(73) Shenzhen Skyworth-RGB Electronic Co., Ltd. (72) QIN, Jilei (31) 201910859789 (32) 11.09.2019 (33) China	(72) ZHANG, Xueyong (31) 201810963394 (32) 22.08.2018 (33) China
(51) H04N 1/60 G06F 9/451 G06F 3/147 G09G 3/20 G06F 9/445 H04N 9/68 G06T 7/90	(51) H04N 7/14 (11) EP3213508 (21) EP16726021.5 (47) 26.07.2023 (87) EP2016060525 09.03.2017 (22) 11.05.2016 (54) APPARATUS FOR VIDEO COMMUNICATION	(51) H04N 13/344 G02B 27/01 H04N 13/307 (11) EP3289401 (21) EP16720682.0 (47) 26.07.2023 (87) US2016029531 03.11.2016 (22) 27.04.2016 (54) VIRTUAL EYEGLASS SET FOR VIEWING ACTUAL SCENE THAT CORRECTS FOR DIFFERENT LOCATION OF LENSES THAN EYES
(11) EP4002823 (21) EP20839815.6 (47) 26.07.2023 (87) CN2020099086 21.01.2021 (22) 30.06.2020	(73) Huddle Room Technology S.r.l. (72) SPATTINI, Stefano (31) UB20153347 (32) 02.09.2015 (33) Italy	(22) 27.04.2016 (54) VIRTUAL EYEGLASS SET FOR VIEWING ACTUAL SCENE THAT CORRECTS FOR DIFFERENT LOCATION OF LENSES THAN EYES (73) Google LLC (72) MATSON, Samuel Mark KAESER, Dominik Philemon (31) 201562155424 P (32) 30.04.2015 (33) United States of America
(54) IMAGE INFORMATION PROCESSING METHOD, APPARATUS, AND STORAGE MEDIUM FOR DISPLAY GAMUT ADAPTATION TO A DISPLAY INTERFACE (73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. (72) HU, Jie ZHOU, Haitao (31) 201910647084 (32) 17.07.2019 (33) China	(73) Huddle Room Technology S.r.l. (72) SPATTINI, Stefano (31) UB20153347 (32) 02.09.2015 (33) Italy	(22) 27.04.2016 (54) VIRTUAL EYEGLASS SET FOR VIEWING ACTUAL SCENE THAT CORRECTS FOR DIFFERENT LOCATION OF LENSES THAN EYES (73) Google LLC (72) MATSON, Samuel Mark KAESER, Dominik Philemon (31) 201562155424 P (32) 30.04.2015 (33) United States of America
(51) H04N 5/445 G06F 3/14 H04N 5/45 H04N 21/431 H04N 21/478 H04N 21/4782 H04N 21/485	(51) H04N 7/18 G08B 13/196 H04N 21/431 (11) EP3996367 (21) EP20205936.6 (47) 26.07.2023 (22) 05.11.2020 (54) METHOD AND IMAGE-PROCESSING DEVICE FOR VIDEO PROCESSING	(51) H04N 17/00 G01M 11/00 G03B 43/00 (11) EP4060988 (21) EP22157998.0 (47) 26.07.2023 (22) 22.02.2022 (54) DEVICE FOR DETERMINING AN OPTICAL CHARACTERISTIC OF A CAMERA (73) Aptiv Technologies Limited
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. (72) HU, Jie ZHOU, Haitao (31) 201910647084 (32) 17.07.2019 (33) China	(73) Axis AB (72) Yuan, Song Edpalm, Viktor Teller, Raphael (51) H04N 9/31 G09F 9/302 G06F 3/14 (11) EP3800881	(51) H04N 17/00 G01M 11/00 G03B 43/00 (11) EP4060988 (21) EP22157998.0 (47) 26.07.2023 (22) 22.02.2022 (54) DEVICE FOR DETERMINING AN OPTICAL CHARACTERISTIC OF A CAMERA (73) Aptiv Technologies Limited

(72) Nohns, Dennis C. Baker, Brian Vincen, Mark Robert	32230110 P (32) 07.04.2011 22.03.2011	(11) EP2359272 (21) EP09825819.7 (47) 26.07.2023
(31) 202117203666 (32) 16.03.2021 (33) United States of America	21.03.2011 13.01.2011 20.12.2010	(87) IB2009007434 20.05.2010 (22) 12.11.2009
(51) H04N 19/117 H04N 19/154 H04N 19/176 H04N 19/80 H04N 19/82 H04N 19/86 H04N 19/90	13.08.2010 09.04.2010 (33) Korea (Republic) United States of America United States of America United States of America United States of America United States of America	(54) METHOD AND APPARATUS FOR REPRESENTING AND IDENTIFYING FEATURE DESCRIPTORS UTILIZING A COMPRESSED HISTOGRAM OF GRADIENTS (73) The Board of Trustees of the Leland Stanford Junior University Nokia Corporation
(11) EP2774362 (21) EP12784550.1 (47) 26.07.2023 (87) EP2012071585 10.05.2013	(51) H04N 19/60 H04N 19/124 H04N 19/122 H04N 19/132 H04N 19/18 H04N 19/11 H04N 19/593 H04N 19/70	(72) TAKACS, Gabriel GIROD, Bernd CHANDRASEKHAR, Vijay GRZESZCZUK, Radek
(22) 31.10.2012 (54) QUANTIZATION PARAMETER FOR BLOCKS CODED IN THE PCM MODE (73) Sun Patent Trust (72) NARROSCHKE, Matthias WEDI, Thomas ESENLIK, Semih KOTRA, Anand	(11) EP3879835 (21) EP19900872.3 (47) 26.07.2023 (87) KR2019018071 25.06.2020 (22) 19.12.2019 (54) VIDEO CODING METHOD ON BASIS OF SECONDARY TRANSFORM, AND DEVICE FOR SAME (73) LG Electronics Inc. (72) KIM, Seunghwan LIM, Jaehyun KOO, Moonmo	(31) 113891 P (32) 12.11.2008 (33) United States of America (51) H04N 21/2343 G06T 19/00 (11) EP3625965 (21) EP18718120.1 (47) 26.07.2023 (87) EP2018058926 22.11.2018 (22) 06.04.2018 (54) PROCESSING METHOD AND PROCESSING SYSTEM FOR VIDEO DATA (73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. (72) STEGLICH, Stephan LASAK, Martin BASSBOUSS, Louay
(31) 201161555175 P (32) 03.11.2011 (33) United States of America	(31) 201862782294 P (32) 19.12.2018 (33) United States of America	(87) EP2018058926 22.11.2018 (22) 06.04.2018 (54) PROCESSING METHOD AND PROCESSING SYSTEM FOR VIDEO DATA (73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. (72) STEGLICH, Stephan LASAK, Martin BASSBOUSS, Louay
(51) H04N 19/513 H04N 19/52 (11) EP3547688 (21) EP17882001.5 (47) 26.07.2023 (87) CN2017098648 21.06.2018 (22) 23.08.2017 (54) METHOD FOR DECODING MOTION VECTOR, AND DECODER (73) Huawei Technologies Co., Ltd. (72) MA, Xiang YANG, Haitao	(51) H04N 19/70 H04N 19/30 (11) EP3120560 (21) EP15712770.5 (47) 26.07.2023 (87) US2015020469 24.09.2015 (22) 13.03.2015 (54) DEVICE AND METHOD FOR SCALABLE CODING OF VIDEO INFORMATION (73) QUALCOMM Incorporated (72) HENDRY, Fnu RAMASUBRAMONIAN, Adarsh Krishnan WANG, Ye-Kui	(31) 102017125544 102017110506 (32) 01.11.2017 15.05.2017 (33) Germany Germany
(31) 201611162229 (32) 15.12.2016 (33) China	(21) EP15712770.5 (47) 26.07.2023 (87) US2015020469 24.09.2015 (22) 13.03.2015 (54) DEVICE AND METHOD FOR SCALABLE CODING OF VIDEO INFORMATION (73) QUALCOMM Incorporated (72) HENDRY, Fnu RAMASUBRAMONIAN, Adarsh Krishnan WANG, Ye-Kui	(31) 102017110506 (32) 01.11.2017 15.05.2017 (33) Germany Germany
(51) H04N 19/52 H04N 19/61 (11) EP3982634 (21) EP21210463.2 (47) 26.07.2023 (22) 08.04.2011 (54) MOTION VECTOR PREDICTION IN VIDEO CODING (73) LG Electronics, Inc. (72) PARK, Joonyoung PARK, Seungwook JEON, Yongjoon CHOI, Younghee LIM, Jaehyun SUNG, Jaewon JEON, Byeongmoon KIM, Jungsun	(51) H04N 19/60 H04N 19/124 H04N 19/122 H04N 19/132 H04N 19/18 H04N 19/11 H04N 19/593 H04N 19/70 (11) EP3879835 (21) EP19900872.3 (47) 26.07.2023 (87) KR2019018071 25.06.2020 (22) 19.12.2019 (54) VIDEO CODING METHOD ON BASIS OF SECONDARY TRANSFORM, AND DEVICE FOR SAME (73) LG Electronics Inc. (72) KIM, Seunghwan LIM, Jaehyun KOO, Moonmo (31) 201862782294 P (32) 19.12.2018 (33) United States of America (51) H04N 19/70 H04N 19/30 (11) EP3120560 (21) EP15712770.5 (47) 26.07.2023 (87) US2015020469 24.09.2015 (22) 13.03.2015 (54) DEVICE AND METHOD FOR SCALABLE CODING OF VIDEO INFORMATION (73) QUALCOMM Incorporated (72) HENDRY, Fnu RAMASUBRAMONIAN, Adarsh Krishnan WANG, Ye-Kui	(31) 201611162229 (32) 15.12.2016 (33) China
(31) 20110032376 201161466446 P 201161454995 P 201161432202 P 201061424681 P 37328610 P	(31) 201514656447 201461955140 P 201461954545 P (32) 12.03.2015 18.03.2014 17.03.2014 (33) United States of America United States of America United States of America (51) H04N 19/96 G06V 10/50 G06T 9/20 G06T 9/40 G06F 16/583	(51) H04N 21/2343 H04N 7/15 H04N 19/30 H04N 19/597 (11) EP3295673 (21) EP16721165.5 (47) 26.07.2023 (87) EP2016060243 17.11.2016 (22) 06.05.2016 (54) COMPOSITE SCALABLE VIDEO STREAMING (73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. (72) SKUPIN, Robert SANCHEZ, Yago SCHIERL, Thomas (31) PCT/EP2015/060480 (32) 12.05.2015 (33) World Intellectual Property Office (WIPO)

H04W 88/18	(32) 22.12.2014	(72) Shen, Paul
H04N 19/40	(33) United States of America	(31) 201916369062
(11) EP3571847	(51) H04N 23/23	201862653613 P
(21) EP17870639.6	H04N 23/51	(32) 29.03.2019
(47) 26.07.2023	H04N 23/55	06.04.2018
(87) US2017068902	G02B 7/04	(33) United States of America
26.07.2018	(11) EP3674766	United States of America
(22) 29.12.2017	(21) EP18874236.5	(51) H04N 23/698
(54) CLIENT SIDE VIDEO TRANSCODING	(47) 26.07.2023	B60R 1/00
(73) Snap Inc.	(87) CN2018098470	(11) EP3701711
(72) PANG, Chao	09.05.2019	(21) EP17929484.8
LIU, Liu	(22) 03.08.2018	(47) 26.07.2023
YAN, Rong	(54) THERMAL IMAGING DEVICE	(87) CN2017107830
(31) 201715622336	(73) Hangzhou Hikmicro Sensing Technology	02.05.2019
201762448465 P	Co., Ltd.	(22) 26.10.2017
(32) 14.06.2017	(72) TANG, Jun	(54) SURROUND VIEW SYSTEM AND
20.01.2017	(31) 201820032982 U	METHOD THEREOF
(33) United States of America	201721704316 U	(73) Harman International Industries,
United States of America	201721417322 U	Incorporated
(51) H04N 21/431	(32) 09.01.2018	(72) XU, Min
G06F 3/01	08.12.2017	CHEN, Liangfu
G06F 3/0481	30.10.2017	(51) H04N 23/71
G06Q 10/10	(33) China	H04N 23/73
H04N 21/488	China	H04N 23/741
H04N 21/442	China	H04N 23/75
(11) EP3423919	(51) H04N 23/60	H04N 25/13
(21) EP17709555.1	H04N 23/70	H04N 25/533
(47) 26.07.2023	H04N 25/53	H04N 25/583
(87) US2017019233	G06T 5/50	(11) EP3847800
08.09.2017	G06T 5/00	(21) EP19769969.7
(22) 24.02.2017	(11) EP4078506	(47) 26.07.2023
(54) UPDATING DISPLAYS BASED ON	(21) EP20823841.0	(87) US2019049706
ATTENTION TRACKING DATA	(47) 26.07.2023	12.03.2020
(73) Microsoft Technology Licensing, LLC	(87) EP2020086198	(22) 05.09.2019
(72) SCOTT, James	24.06.2021	(54) AUTO EXPOSURE OF SPATIALLY-
HELMES, John Franciscus Marie	(22) 15.12.2020	MULTIPLEXED-EXPOSURE HIGH-
KNIERIM, Pascal	(54) A SYSTEM FOR PERFORMING	DYNAMIC-RANGE IMAGE SENSORS
FROMM, Josh	AMBIENT LIGHT IMAGE CORRECTION	(73) Dolby Laboratories Licensing Corporation
TAYLOR, Stuart Alastair	(73) Koninklijke Philips N.V.	(72) WARD, Gregory, John
GROSSE-PUPPENDAHL, Tobias	(72) SCHUIJERS, Erik Gosuinus Petrus	GISH, Walter, C.
Alexander	BOURQUIN, Yannik Parulian Julian	MCELVAIN, Jon, S.
HODGES, Stephen Edward	PALERO, Jonathan Alambra	MILLER, Jonathan, Robert
CHEN, Nicholas Yen-Cherng	(31) 19218759	ATKINS, Robin
SCHMIDT, Albrecht	(32) 20.12.2019	(31) 201862728660 P
WOOD, Gavin	(33) European Patent Office (EPO)	18193264
(31) 201615058012	(51) H04N 23/61	(32) 07.09.2018
(32) 01.03.2016	(11) EP3713218	07.09.2018
(33) United States of America	(21) EP20163386.4	(33) United States of America
(51) H04N 21/84	(47) 26.07.2023	European Patent Office (EPO)
H04N 21/2343	(22) 16.03.2020	(51) H04N 23/90
H04N 21/61	(54) LUGGAGE IDENTIFICATION KIT	(11) EP3861720
H04N 21/81	(73) Idemia Identity & Security France	(21) EP19926730.3
H04N 21/8547	(72) LUCAS, Erik	(47) 26.07.2023
H04N 21/6405	TROUBAT, Jean-Claude	(87) US2019064147
H04N 21/643	(31) 1902990	10.06.2021
(11) EP3238457	(32) 22.03.2019	(22) 03.12.2019
(21) EP15874332.8	(33) France	(54) NON-INTRUSIVE 360 VIEW WITHOUT
(47) 26.07.2023	(51) H04N 23/62	CAMERA AT THE VIEWPOINT
(87) US2015067464	H04N 23/661	(73) Discovery Communications, LLC
30.06.2016	(11) EP3550824	(72) VOGELZANG, Leon
(22) 22.12.2015	(21) EP19167401.9	(51) H04N 25/78
(54) METHOD, SYSTEM, AND APPARATUS	(47) 26.07.2023	H03M 1/56
FOR MULTIMEDIA CONTENT	(22) 04.04.2019	H01L 27/146
DELIVERY TO CABLE TV AND	(54) METHODS AND APPARATUS FOR	H03M 1/18
SATELLITE OPERATORS	REMOTELY CONTROLLING A	H03M 1/12
(73) Hernandez-Mondragon, Edwin A.	CAMERA IN AN ENVIRONMENT WITH	(11) EP3840363
(72) Hernandez-Mondragon, Edwin A.	COMMUNICATION LATENCY	(21) EP19850065.4
(31) 201462095504 P	(73) TVU Networks Corporation	(47) 26.07.2023

(87) JP2019025562 20.02.2020	(87) GB2016051568 08.12.2016	(31) 2016193583 2016193582
(22) 27.06.2019	(22) 27.05.2016	2016193581
(54) IMAGE CAPTURING ELEMENT	(54) LOUDSPEAKER DIAPHRAGM	2016193580
(73) Sony Semiconductor Solutions Corporation	(73) B & W Group Ltd	2016193579
(72) YATSUDA, Hiroaki	(72) O'BRIEN, Thomas	2016193578
MOUE, Takashi	ROUSSEAU, Martial André Robert	(32) 30.09.2016
(31) 2018153248	(31) 201509347	30.09.2016
(32) 16.08.2018	(32) 29.05.2015	30.09.2016
(33) Japan	(33) United Kingdom	30.09.2016
(51) H04R 1/10	(51) H04R 7/12	30.09.2016
G10K 11/178	H04R 7/26	30.09.2016
H04R 3/00	(11) EP3549356	(33) Japan
(11) EP4021012	(21) EP16809159.3	Japan
(21) EP21217692.9	(47) 26.07.2023	Japan
(47) 26.07.2023	(87) GB2016053746	Japan
(22) 24.12.2021	07.06.2018	Japan
(54) METHOD AND APPARATUS FOR RECOGNIZING WIND NOISE OF EARPHONE	(22) 29.11.2016	Japan
(73) Little Bird Co., Ltd	(54) LOUDSPEAKER DIAPHRAGM	(51) H04W 4/02
(72) WANG, Jiudong	(73) B & W Group Ltd	H04W 4/021
LIU, Song	(72) O'BRIEN, Thomas	H04L 67/52
(31) 202011559850	ROUSSEAU, Martial André Robert	H04W 4/33
(32) 25.12.2020	(51) H04R 11/02	G01S 1/02
(33) China	H04R 25/00	G01S 5/02
(51) H04R 5/027	(11) EP3908009	G06Q 10/08
H04N 23/45	(21) EP19921196.2	G06Q 30/06
H04N 23/54	(47) 26.07.2023	G06Q 50/12
H04N 23/698	(87) CN2019105590	G06Q 20/20
H04R 1/02	01.10.2020	G06Q 20/32
H04R 1/40	(22) 12.09.2019	G06Q 30/0601
(11) EP3596916	(54) RECEIVER	(11) EP2991389
(21) EP18713025.7	(73) Suzhou Sensorfun Electronics Co., Ltd.	(21) EP15182236.8
(47) 26.07.2023	(72) WEN, Jianguang	(47) 26.07.2023
(87) JP2018009037	(31) 201910222244	(22) 24.08.2015
20.09.2018	(32) 22.03.2019	(54) CUSTOMER LOCATING AND DELIVERY
(22) 08.03.2018	(33) China	(73) NCR Corporation
(54) IMAGE PICKUP APPARATUS AND IMAGE PICKUP SYSTEM	(51) H04R 25/00	(72) FEDAK, Honza
(73) Ricoh Company, Ltd.	A61N 1/36	(31) 201414473173
(72) KAGA, Ryota	(11) EP3367700	(32) 29.08.2014
(31) 2017050712	(21) EP17157347.0	(33) United States of America
(32) 16.03.2017	(47) 26.07.2023	(51) H04W 4/02
(33) Japan	(22) 22.02.2017	H04W 4/029
(51) H04R 5/04	(54) AUTOMATICALLY DETERMINED USER EXPERIENCE VALUE FOR HEARING AID FITTING	H04W 4/40
H04R 5/033	(73) Sonova AG	H04W 4/30
H04B 3/32	(72) Sigwanz, Ullrich	A63G 33/00
(11) EP4042717	(51) H04W 4/02	G09F 19/22
(21) EP20884898.6	H04Q 9/00	(11) EP3893525
(47) 26.07.2023	H04W 4/38	(21) EP21176985.6
(87) IL2020050905	H04W 88/02	(47) 26.07.2023
14.05.2021	(11) EP3522574	(22) 24.06.2020
(22) 17.08.2020	(21) EP17856018.1	(54) INTERACTIVE SYSTEM FOR A TRACK FOR HUMAN-DRIVEN VEHICLES AND METHOD FOR DATA TRANSFER IN AN INTERACTIVE SYSTEM
(54) SIGNAL CROSSTALK SUPPRESSION ON A COMMON WIRE	(47) 26.07.2023	(73) BRP-Rotax GmbH & Co. KG
(73) Elbit Systems Land and C4I Ltd.	(87) JP2017034432	Ars Electronica Linz GmbH & Co KG
(72) VINTOR, Jacob	05.04.2018	(72) LINDINGER, Christopher
CHECHIK, Yeheskel	(22) 25.09.2017	GRUBER, Stefan
(31) 27041019	(54) COMMUNICATION TERMINAL, COMMUNICATION METHOD, PROGRAM FOR COMMUNICATION, COMMUNICATION SYSTEM, MANAGEMENT DEVICE, MANAGEMENT METHOD, AND COMMUNICATION CONTROL METHOD	(31) 505582019
(32) 04.11.2019	(73) KDDI Corporation	(32) 24.06.2019
(33) Israel	(72) MIYAMOTO, Atsushi	(33) Austria
(51) H04R 7/12	SAITOU, Takashi	(51) H04W 4/02
H04R 7/26	ANDOU, Masato	H04W 4/33
(11) EP3304931		(11) EP3800903
(21) EP16726641.0		(21) EP19830348.9
(47) 26.07.2023		(47) 26.07.2023
		(87) CN2019094654

09.01.2020	(87) US2019060918	(33) Japan
(22) 04.07.2019	11.06.2020	(51) H04W 8/00
(54) INTERNET OF THINGS PLATOON COMMUNICATION METHOD	(22) 12.11.2019	H04W 40/12
(73) Huawei Cloud Computing Technologies Co., Ltd.	(54) RSU BASED VEHICLE MANEUVER SCHEDULING	H04W 40/22
(72) XU, Bei	(73) QUALCOMM INCORPORATED	H04W 76/14
ZHAO, Can	(72) PATIL, Shailesh	H04W 76/23
(31) 201810736940	LI, Junyi	H04W 88/04
(32) 06.07.2018	HOVEY, Richard Reid	H04B 7/26
(33) China	CHENG, Hong	(11) EP3843437
(51) H04W 4/029	(31) 201916679973	(21) EP21155465.4
H04W 4/60	201862776950 P	(47) 26.07.2023
H04W 4/06	(32) 11.11.2019	(22) 26.01.2016
(11) EP3934285	07.12.2018	(54) COMMUNICATIONS DEVICES FOR D2D RELAY COMMUNICATION
(21) EP20782007.7	(33) United States of America	(73) Sony Group Corporation
(47) 26.07.2023	United States of America	(72) WAKABAYASHI, Hideji
(87) CN2020081141	(51) H04W 4/60	MARTIN, Brian Alexander
08.10.2020	H04W 4/00	TSUDA, Shinichiro
(22) 25.03.2020	H04W 88/08	(31) 15154751
(54) SATELLITE TRACKING AREA UPDATE METHOD AND RELATED APPARATUS	(11) EP3487209	(32) 11.02.2015
(73) Huawei Technologies Co., Ltd.	(21) EP18215539.0	(33) European Patent Office (EPO)
(72) LI, Rong	(47) 26.07.2023	(51) H04W 8/06
DU, Yinggang	(22) 07.11.2013	H04W 60/00
YU, Rongdao	(54) METHOD AND DEVICE FOR HOSTING APPLICATION BY ACCESS NODE	H04W 76/15
WANG, Bin	(73) Samsung Electronics Co., Ltd.	G06F 9/455
MENG, Xian	(72) CHEONG, Dong-Jo	(11) EP3897013
WANG, Yu	CHO, Ki-Ho	(21) EP21152235.4
(31) 201910259340	KIM, Jong-Hyune	(47) 26.07.2023
(32) 29.03.2019	KANG, Seong-Ryong	(22) 18.09.2015
(33) China	(31) 20120126013	(54) METHOD FOR ACCESSING LOCAL NETWORK, AND RELATED DEVICE
(51) H04W 4/029	(32) 08.11.2012	(73) HUAWEI TECHNOLOGIES CO., LTD.
H04W 64/00	(33) Korea (Republic)	(72) JIN, Weisheng
H04W 4/02	(51) H04W 4/90	(51) H04W 8/12
(11) EP3942850	H04W 76/15	(11) EP3679764
(21) EP19720012.4	H04W 88/06	(21) EP18855033.9
(47) 26.07.2023	H04W 8/18	(47) 26.07.2023
(87) US2019026187	(11) EP3998787	(87) IB2018056788
08.10.2020	(21) EP20851665.8	14.03.2019
(22) 05.04.2019	(47) 26.07.2023	(22) 06.09.2018
(54) SUPPORTING LOCATION SERVICES AT A BASE STATION	(87) CN2020108642	(54) A SYSTEM AND METHOD FOR AVAILING A DATA SERVICE BY A USER EQUIPMENT
(73) Google LLC	18.02.2021	(73) Jio Platforms Limited
(72) WU, Chih-Hsiang	(22) 12.08.2020	(72) BIRARE, Shradha Subhash
(51) H04W 4/06	(54) SERVICE OPTIMIZATION METHOD AND COMMUNICATION DEVICE	MOTE, Ganesh Arjun
H04W 4/70	(73) Vivo Mobile Communication Co., Ltd.	(31) 201721031877
H04W 4/80	(72) KE, Xiaowan	(32) 08.09.2017
(11) EP3782382	YANG, Xiaodong	(33) India
(21) EP19723907.2	(31) 201910741458	(51) H04W 8/18
(47) 26.07.2023	(32) 12.08.2019	H04W 36/00
(87) US2019026090	(33) China	(11) EP3751785
24.10.2019	(51) H04W 8/00	(21) EP19867974.8
(22) 05.04.2019	H04W 12/61	(47) 26.07.2023
(54) RELIABLE WIRELESS COMMUNICATION WITH A SOURCE USING RELAYED COMMUNICATION	H04W 12/71	(87) CN2019106166
(73) QUALCOMM INCORPORATED	(11) EP3145225	02.04.2020
(72) HISCOCK, Paul Dominic	(21) EP15792133.9	(22) 17.09.2019
MORRIS, Paul John	(47) 26.07.2023	(54) SUBSCRIPTION UPDATE METHOD, APPARATUS, AND SYSTEM
(31) 201815957332	(87) JP2015063656	(73) HUAWEI TECHNOLOGIES CO., LTD.
(32) 19.04.2018	19.11.2015	(72) ZONG, Zaifeng
(33) United States of America	(22) 12.05.2015	(31) 201811161753
(51) H04W 4/44	(54) TERMINAL DEVICE, SERVER DEVICE, AND COMMUNICATION CONTROL METHOD	(32) 30.09.2018
G08G 1/16	(73) Sharp Kabushiki Kaisha	(33) China
(11) EP3892017	(72) ARAMOTO, Masafumi	(51) H04W 8/26
(21) EP19836183.4	KUGE, Yoko	H04W 76/11
(47) 26.07.2023	(31) 2014098221	(11) EP3482577
	(32) 12.05.2014	

(21) EP17735213.5	(32) 04.10.2016	(54) OBTAINING INFORMATION RELATED
(47) 26.07.2023	(33) France	TO A SHARED FREQUENCY
(87) FR2017051550	(51) H04W 12/30	SPECTRUM ON BEHALF OF A
11.01.2018	H04W 12/42	WIRELESS NETWORK THAT LACKS
(22) 15.06.2017	(11) EP3694241	INTERNET CONNECTIVITY
(54) ESTABLISHMENT OF A	(21) EP19195307.4	(73) Microsoft Technology Licensing, LLC
COMMUNICATION BY ALLOCATING	(47) 26.07.2023	(72) HASSAN, Amer Aref
TO A CALLER TERMINAL	(22) 04.09.2019	GARNETT, Paul William
AN INTERMEDIATE CALL	(54) IMPROVED USER EQUIPEMENT, UE,	MITCHELL, Paul William Alexander
IDENTIFIER DEDICATED TO THE	WITH AN INTEGRATED SUBSCRIBER	(31) 201715817019
COMMUNICATION	IDENTITY MODULE (ISIM) AND	(32) 17.11.2017
(73) ORANGE	RESOURCE SHARING	(33) United States of America
(72) CASEAU, François	(73) SHENZHEN GOODIX TECHNOLOGY	(51) H04W 16/14
(31) 1656547	CO., LTD.	H04L 27/00
(32) 07.07.2016	(72) Fröhlich, Martin	H04L 5/00
(33) France	(31) 19155419	H04B 1/7143
(51) H04W 12/04	(32) 05.02.2019	H04B 1/7156
H04W 12/06	(33) European Patent Office (EPO)	H04W 48/12
H04W 12/0431	(51) H04W 12/30	H04W 16/10
H04W 12/062	H04W 12/42	H04L 5/14
(11) EP3735012	G06F 9/54	H04W 74/08
(21) EP20176650.8	(11) EP3694242	(11) EP3613233
(47) 26.07.2023	(21) EP19195365.2	(21) EP18722841.6
(22) 23.12.2014	(47) 26.07.2023	(47) 26.07.2023
(54) METHOD AND SYSTEM FOR	(22) 04.09.2019	(87) US2018027881
PROVIDING SECURITY FROM A	(54) METHOD AND USER EQUIPEMENT	25.10.2018
RADIO ACCESS NETWORK	WITH AN INTEGRATED SUBSCRIBER	(22) 17.04.2018
(73) Nederlandse Organisatie voor toegepast-	IDENTITY MODULE (ISIM) FOR	(54) SYNCHRONIZATION AND PAGING
natuurwetenschappelijk Onderzoek TNO	SHARING A ISIM FILE SYSTEM WITH A	CHANNEL DESIGN FOR WIRELESS
Koninklijke KPN N.V.	MODEM	COMMUNICATIONS
(72) FRANSEN, Frank	(73) SHENZHEN GOODIX TECHNOLOGY	(73) Qualcomm Incorporated
(31) 13199353	CO., LTD.	(72) LIU, Chih-Hao
(32) 23.12.2013	(72) Fröhlich, Martin	YERRAMALLI, Srinivas
(33) European Patent Office (EPO)	(31) 19155425	KADOUS, Tamer
(51) H04W 12/06	(32) 05.02.2019	(31) 201715854380
H04L 65/1016	(33) European Patent Office (EPO)	201762487421 P
H04L 65/1069	(51) H04W 16/08	(32) 26.12.2017
H04L 65/1073	H04W 16/28	19.04.2017
(11) EP3261375	H04W 24/08	(33) United States of America
(21) EP16175589.7	H04B 17/318	United States of America
(47) 26.07.2023	H04W 24/02	(51) H04W 16/18
(22) 21.06.2016	H04W 24/10	H04W 24/02
(54) ACCESS TO LOCAL SERVICES BY	H04B 17/27	H04W 24/10
UNAUTHENTICATED USERS	(11) EP3811650	G01S 5/00
(73) Nokia Solutions and Networks Oy	(21) EP19815657.2	(11) EP3818743
(72) DRAGE, Keith	(47) 26.07.2023	(21) EP19736333.6
LEIS, Peter	(87) US2019036173	(47) 26.07.2023
LANDAIS, Bruno	12.12.2019	(87) EP2019067448
(51) H04W 12/062	(22) 07.06.2019	09.01.2020
H04W 12/069	(54) DOMINANCE-BASED COVERAGE	(22) 28.06.2019
H04W 12/122	MANAGEMENT FOR WIRELESS	(54) METHOD IN A RADIO
H04W 12/126	COMMUNICATION NETWORK	COMMUNICATION NETWORK USING
H04W 56/00	(73) T-Mobile USA, Inc.	CLUSTERING OF GEOSPATIALLY
(11) EP3523998	(72) JOHNSON, Eric	LOCATED MEASUREMENTS
(21) EP17793693.7	(31) 201916422878	(73) BI Nordic AB
(47) 26.07.2023	201862682733 P	(72) HEDLUND, Anders
(87) FR2017052695	(32) 24.05.2019	ANDERSSON, Lina
12.04.2018	08.06.2018	SAHLMAN, Alf
(22) 02.10.2017	(33) United States of America	ERIKSSON, Micke
(54) METHOD FOR MUTUAL	United States of America	SEGERSTEDT, Rickard
AUTHENTICATION BETWEEN	(51) H04W 16/14	(31) 1850834
USER EQUIPMENT AND A	(11) EP3711328	201916260352
COMMUNICATIONS NETWORK	(21) EP18807189.8	(32) 02.07.2018
(73) ORANGE	(47) 26.07.2023	29.01.2019
(72) RICHARD, Benjamin	(87) US2018059127	(33) Sweden
GAMISHEV, Todor	23.05.2019	United States of America
MACARIO-RAT, Gilles	(22) 05.11.2018	(51) H04W 16/28
(31) 1659583		(11) EP3635991

(21) EP18818433.7	HANS, Martin	(47) 26.07.2023
(47) 26.07.2023	(31) 15193483	(87) CN2019082272
(87) CN2018091746	(32) 06.11.2015	17.10.2019
20.12.2018	(33) European Patent Office (EPO)	(22) 11.04.2019
(22) 19.06.2018	(51) H04W 24/10	(54) MEASUREMENT CONFIGURATION
(54) RADIO COMMUNICATIONS USING	(11) EP3611958	FOR GLOBAL CELL IDENTIFIER
RANDOM ACCESS IN WIRELESS	(21) EP17908284.7	REPORTING
NETWORKS	(47) 26.07.2023	(73) QUALCOMM INCORPORATED
(73) Huawei Technologies Co., Ltd.	(87) CN2017083356	(72) LIU, Huichun
(72) DESAI, Vipul	08.11.2018	CHENG, Peng
NARASIMHA, Murali	(22) 05.05.2017	(31) PCT/CN2018/082984
XIAO, Weimin	(54) SIGNAL PROCESSING METHOD,	(32) 13.04.2018
CHENG, Qian	BASE STATION AND COMPUTER	(33) World Intellectual Property Office (WIPO)
LIU, Jialing	STORAGE MEDIUM	(51) H04W 24/10
(31) 201816008783	(73) Huawei Technologies Co., Ltd.	H04W 74/00
201762521216 P	(72) TANG, Xun	H04W 74/08
(32) 14.06.2018	ZHANG, Jian	H04W 76/10
16.06.2017	MIAO, Jinhua	H04W 72/542
(33) United States of America	QUAN, Wei	(11) EP3874801
United States of America	CHAI, Li	(21) EP19805048.6
(51) H04W 24/04	(51) H04W 24/10	(47) 26.07.2023
H04L 9/40	H04B 7/06	(87) US2019058330
H04W 12/128	H04W 72/12	07.05.2020
(11) EP3996410	H04B 7/08	(22) 28.10.2019
(21) EP21194711.4	H04W 16/18	(54) CHANNEL QUALITY REPORTING
(47) 26.07.2023	(11) EP3595351	USING RANDOM ACCESS MESSAGES
(22) 03.09.2021	(21) EP18778103.4	(73) QUALCOMM Incorporated
(54) ABNORMALITY MONITORING	(47) 26.07.2023	(72) DHANDA, Mungal, Singh
METHOD AND SYSTEM BASED ON	(87) CN2018080335	PHUYAL, Umesh
ROAMING SYSTEM	04.10.2018	KIM, Tae Min
(73) Yealink (Xiamen) Network Technology	(22) 23.03.2018	RICO ALVARINO, Alberto
Co., Ltd.	(54) UPLINK TRANSMISSION METHOD	(31) 201916664513
(72) HUANG, Zhangshui	AND DEVICE	201862753569 P
(31) 202011242571	(73) Huawei Technologies Co., Ltd.	(32) 25.10.2019
(32) 09.11.2020	(72) LI, Zhongfeng	31.10.2018
(33) China	LIU, Jianqin	(33) United States of America
(51) H04W 24/08	REN, Yi	United States of America
H04W 16/14	(31) 201710193485	(51) H04W 28/04
H04L 5/00	(32) 28.03.2017	H04W 80/02
(11) EP3691321	(33) China	(11) EP3818683
(21) EP18862296.3	(51) H04W 24/10	(21) EP19878583.4
(47) 26.07.2023	H04B 17/309	(47) 26.07.2023
(87) CN2018106783	H04B 7/04	(87) KR2019014450
04.04.2019	H04W 88/02	07.05.2020
(22) 20.09.2018	(11) EP3668161	(22) 30.10.2019
(54) METHOD FOR REPORTING SIGNAL	(21) EP18843232.2	(54) METHOD AND APPARATUS FOR
QUALITY, STORAGE MEDIUM, AND	(47) 26.07.2023	A WIRELESS COMMUNICATION
PROCESSOR	(87) KR2018009182	TERMINAL
(73) ZTE Corporation	14.02.2019	(73) Samsung Electronics Co., Ltd.
(72) HAO, Peng	(22) 10.08.2018	(72) KIM, Donggun
KOU, Shuaihua	(54) METHOD AND DEVICE FOR	(31) 20190024881
BI, Feng	TRANSMITTING OR RECEIVING	20180141859
LIU, Xing	SIGNAL IN WIRELESS	20180131296
(31) 201710919730	COMMUNICATION SYSTEM	(32) 04.03.2019
(32) 30.09.2017	(73) LG Electronics Inc.	16.11.2018
(33) China	(72) YOON, Sukhyon	30.10.2018
(51) H04W 24/10	KIM, Eunsun	(33) Korea (Republic)
(11) EP3372000	KO, Hyunsoo	Korea (Republic)
(21) EP16793824.0	KIM, Kijun	Korea (Republic)
(47) 26.07.2023	(31) 201762543992 P	(51) H04W 28/18
(87) EP2016076679	(32) 11.08.2017	H04L 5/00
11.05.2017	(33) United States of America	H04L 1/00
(22) 04.11.2016	(51) H04W 24/10	H04W 72/23
(54) ENHANCEMENT OF MDT SERVICES	H04W 24/02	(11) EP3813420
(73) ICom GmbH & Co. KG	H04W 36/00	(21) EP19838750.8
(72) LUFT, Achim	H04W 48/12	(47) 26.07.2023
SCHMIDT, Andreas	(11) EP3777304	(87) CN2019096186
BIENAS, Maik	(21) EP19785808.7	23.01.2020

(22) 16.07.2019	(32) 20.08.2020	(54) COMMUNICATION APPARATUS AND COMMUNICATION METHOD
(54) METHOD FOR MONITORING PDCCH, AND TERMINAL AND NETWORK DEVICE	23.08.2019	(73) Sony Group Corporation
(73) Vivo Mobile Communication Co., Ltd.	(33) United States of America	(72) QIN, Zhongbin
(72) Ji, Zichao	United States of America	(31) 201310240852
(31) 201810805009	(51) H04W 36/00	(32) 18.06.2013
(32) 20.07.2018	H04W 24/10	(33) China
(33) China	H04W 88/04	(51) H04W 36/08
(51) H04W 28/20	(11) EP3314943	H04W 84/12
H04W 72/04	(21) EP16732523.2	H04W 36/00
H04W 72/12	(47) 26.07.2023	H04W 36/30
H04L 5/00	(87) EP2016063378	H04W 88/06
(11) EP3780726	29.12.2016	H04W 76/12
(21) EP19799306.6	(22) 10.06.2016	(11) EP3305009
(47) 26.07.2023	(54) NODE RESELECTION VIA A RELAYING NODE AND BASED ON RECEIVED UE BEACON SIGNALING	(21) EP15823471.6
(87) CN2019085374	(73) Sony Group Corporation	(47) 26.07.2023
14.11.2019	(72) MARTIN, Brian Alexander	(87) US2015066802
(22) 30.04.2019	(31) 15173562	01.12.2016
(54) COMMUNICATION METHOD AND APPARATUS	(32) 24.06.2015	(22) 18.12.2015
(73) Huawei Technologies Co., Ltd.	(33) European Patent Office (EPO)	(54) WLAN MOBILITY FOR LTE/WLAN AGGREGATION
(72) Li, Xinxian	(51) H04W 36/00	(73) Intel Corporation
TANG, Hao	H04W 36/06	(72) SIROTKIN, Alexander
TANG, Zhenfei	H04W 36/22	HIMAYAT, Nageen
(31) 201810451437	H04W 24/04	(31) 201562166423 P
(32) 11.05.2018	H04W 88/14	(32) 26.05.2015
(33) China	(11) EP3606282	(33) United States of America
(51) H04W 36/00	(21) EP17907392.9	(51) H04W 36/14
(11) EP3414941	(47) 26.07.2023	H04W 36/00
(21) EP17759087.4	(87) CN2017082479	H04W 76/19
(47) 26.07.2023	01.11.2018	H04W 60/04
(87) CN2017072667	(22) 28.04.2017	(11) EP3716680
08.09.2017	(54) CONGESTION PROCESSING METHOD AND DEVICE	(21) EP18880786.1
(22) 25.01.2017	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(47) 26.07.2023
(54) SCHEDULING AND HANDOVER OF A VEHICULAR CONNECTION WITH PERIODIC MESSAGING	(72) YANG, Ning	(87) CN2018104821
(73) Huawei Technologies Co., Ltd.	LIU, Jianhua	31.05.2019
(72) TENNY, Nathan	(51) H04W 36/00	(22) 10.09.2018
OUYANG, Guowei	H04W 88/06	(54) DEDICATED BEARER CREATION METHOD AND MOBILITY MANAGEMENT ENTITY
CAO, Zhenzhen	H04W 76/22	(73) Datang Mobile Communications Equipment Co., Ltd.
AL-SHALASH, Mazin	H04W 36/14	(72) WANG, Hucheng
(31) 201615183354	(11) EP3837888	(31) 201711168078
201662301732 P	(21) EP19850250.2	(32) 21.11.2017
(32) 15.06.2016	(47) 26.07.2023	(33) China
01.03.2016	(87) CN2019100377	(51) H04W 36/30
(33) United States of America	20.02.2020	H04W 36/14
United States of America	(22) 13.08.2019	(11) EP3841787
(51) H04W 36/00	(54) USER PLANE SETUP DURING 5G SYSTEM TO EVOLVED PACKET SYSTEM HANDOVER	(21) EP19784177.8
H04L 41/0853	(73) Telefonaktiebolaget LM Ericsson (publ)	(47) 26.07.2023
H04W 12/0433	(72) SANDER, Ann-Christine	(87) US2019052833
H04L 41/0803	ROMMER, Stefan	02.04.2020
(11) EP4000311	SCHLIWA-BERTLING, Paul	(22) 25.09.2019
(21) EP20768173.5	CHEN, Qian	(54) METHODS AND APPARATUS FOR PROACTIVELY SWITCHING BETWEEN AVAILABLE NETWORKS
(47) 26.07.2023	GAN, Juying	(73) Google LLC
(87) US2020047447	(31) PCT/CN2018/100512	(72) ZHANG, Ning
04.03.2021	(32) 14.08.2018	SILBERSTEIN, Rebecca
(22) 21.08.2020	(33) World Intellectual Property Office (WIPO)	PLASS, Michael
(54) FULL CONFIGURATION HANDOVER TECHNIQUES	(51) H04W 36/02	(31) 201816145564
(73) QUALCOMM INCORPORATED	H04W 36/30	(32) 28.09.2018
(72) ZHU, Xipeng	H04W 36/00	(33) United States of America
KITAZOE, Masato	(11) EP3767996	(51) H04W 48/16
OZTURK, Ozcan	(21) EP20177781.0	H04W 16/28
PALADUGU, Karthika	(47) 26.07.2023	H04W 74/08
(31) 202016999008	(22) 16.06.2014	H04W 48/12
201962891182 P		

H04B 7/02	(47) 26.07.2023	08.04.2018
H04B 7/06	(87) IB2016050530	(33) China
H04L 5/00	11.08.2016	China
(11) EP3989643	(22) 02.02.2016	(51) H04W 48/20
(21) EP21209058.3	(54) SIGNALING INTERFACE TO SUPPORT	H04M 1/67
(47) 26.07.2023	REAL-TIME TRAFFIC STEERING	(11) EP3692747
(22) 21.02.2019	NETWORKS	(21) EP18792982.3
(54) METHOD AND APPARATUS	(73) Telefonaktiebolaget LM Ericsson (publ)	(47) 26.07.2023
FOR MONITORING A CONTROL	(72) EASON, Nicolas	(87) FR2018052414
RESOURCE SET 0, IN A WIRELESS	(31) 201562111394 P	11.04.2019
COMMUNICATION SYSTEM	201562111416 P	(22) 01.10.2018
(73) LG Electronics Inc.	(32) 03.02.2015	(54) TECHNIQUE FOR MANAGING A RIGHT
(72) KANG, Jiwon	03.02.2015	OF ACCESS TO A NETWORK FOR A
YOON, Sukhyon	(33) United States of America	COMMUNICATING DEVICE
YI, Yunjung	United States of America	(73) ORANGE
SEO, Inkwon	(51) H04W 48/18	(72) DUCROT, Nicolas
KO, Hyunsoo	(11) EP3414950	CAZOULAT, Renaud
PARK, Jonghyun	(21) EP16816499.4	(31) 1759261
(31) 20180048935	(47) 26.07.2023	(32) 04.10.2017
201862672037 P	(87) US2016063827	(33) France
201862662186 P	17.08.2017	(51) H04W 52/00
201862659637 P	(22) 28.11.2016	(11) EP3977783
201862659080 P	(54) TECHNIQUES FOR PROVIDING	(21) EP20726411.0
201862636834 P	NETWORK ACCESS	(47) 26.07.2023
201862636158 P	(73) Qualcomm Incorporated	(87) EP2020063673
201862633601 P	(72) DAS, Soumya	10.12.2020
(32) 27.04.2018	PARK, Edwin Chongwoo	(22) 15.05.2020
15.05.2018	(31) 201615040752	(54) UPLINK POWER CONTROL USING
24.04.2018	(32) 10.02.2016	DEEP Q-LEARNING
18.04.2018	(33) United States of America	(73) Nokia Solutions and Networks Oy
17.04.2018	(51) H04W 48/18	(72) GUPTA, Richa
28.02.2018	H04W 8/20	KALYANASUNDARAM, Suresh
27.02.2018	H04W 88/06	(31) 20195470
21.02.2018	H04W 36/14	(32) 03.06.2019
(33) Korea (Republic)	(11) EP3573376	(33) Finland
United States of America	(21) EP19186352.1	(51) H04W 52/02
United States of America	(47) 26.07.2023	(11) EP3881607
United States of America	(22) 15.06.2018	(21) EP19809204.1
United States of America	(54) DEVICE AND METHOD OF HANDLING	(47) 26.07.2023
United States of America	MOBILITY BETWEEN LONG-TERM	(87) SE2019051143
United States of America	EVOLUTION NETWORK AND FIFTH	22.05.2020
United States of America	GENERATION NETWORK	(22) 12.11.2019
(51) H04W 48/16	(73) HTC Corporation	(54) DISCONTINUOUS RECEPTION IN A
H04W 56/00	(72) WU, Chih-Hsiang	WIRELESS COMMUNICATION SYSTEM
H04W 16/28	(31) 201762520585 P	(73) TELEFONAKTIEBOLAGET LM
(11) EP3704897	(32) 16.06.2017	ERICSSON (PUBL)
(21) EP19750781.7	(33) United States of America	(72) MÄÄTTANEN, Helka-Liina
(47) 26.07.2023	(51) H04W 48/18	HOFSTRÖM, Björn
(87) KR2019001470	H04W 76/12	(31) 201862760906 P
15.08.2019	H04W 76/16	(32) 13.11.2018
(22) 01.02.2019	H04W 48/02	(33) United States of America
(54) APPARATUS AND METHOD FOR	H04W 76/34	(51) H04W 52/02
FREQUENCY SCANNING IN	H04W 88/06	H04W 72/04
WIRELESS COMMUNICATION SYSTEM	(11) EP3755066	H04W 76/28
(73) Samsung Electronics Co., Ltd.	(21) EP19785046.4	H04W 48/02
(72) RYOU, Sangkyou	(47) 26.07.2023	H04W 48/20
JEONG, Junhee	(87) CN2019080913	H04W 68/00
BAEK, Ingil	17.10.2019	(11) EP3498044
JUNG, Doyoung	(22) 02.04.2019	(21) EP17740816.8
(31) 20180078203	(54) METHOD FOR DATA TRANSMISSION	(47) 26.07.2023
201862626876 P	AND APPARATUS FOR DATA	(87) US2017037494
(32) 05.07.2018	TRANSMISSION	15.02.2018
06.02.2018	(73) HUAWEI TECHNOLOGIES CO., LTD.	(22) 14.06.2017
(33) Korea (Republic)	(72) ZHU, Hualin	(54) METHODS AND APPARATUS
United States of America	JIN, Weisheng	FOR CELL DISCONTINUOUS
(51) H04W 48/18	(31) 201810490537	TRANSMISSION (DTX) SCHEDULING
(11) EP3254502	201810306926	(73) Qualcomm Incorporated
(21) EP16704278.7	(32) 21.05.2018	(72) KUBOTA, Keiichi

HORN, Gavin Bernard	(73) Qualcomm Incorporated	(51) H04W 56/00
LOPES, Luis	(72) HUANG, Yi	(11) EP3539331
KITAZOE, Masato	VITTHALADEVUNI, Pavan Kumar	(21) EP17794885.8
(31) 201715621072	YOO, Taesang	(47) 26.07.2023
201662374459 P	ZHANG, Yu	(87) US2017058450
(32) 13.06.2017	FAKOORIAN, Seyed Ali Akbar	17.05.2018
12.08.2016	MANOLAKOS, Alexandros	(22) 26.10.2017
(33) United States of America	(31) PCT/CN2017/079358	(54) NETWORK DISCOVERY AND
United States of America	(32) 01.04.2017	SYNCHRONIZATION FOR NR-SS
(51) H04W 52/14	(33) World Intellectual Property Office (WIPO)	(73) QUALCOMM Incorporated
H04W 52/28	(51) H04W 52/24	(72) MONTOJO, Juan
H04W 52/32	H04W 52/28	ZHANG, Xiaoxia
H04W 24/02	H04L 1/00	DAMNJANOVIC, Aleksandar
H04W 88/06	(11) EP3837895	YOO, Taesang
(11) EP3684094	(21) EP19772727.4	MALLIK, Siddhartha
(21) EP18855087.5	(47) 26.07.2023	(31) 201715637555
(47) 26.07.2023	(87) EP2019075292	201662421114 P
(87) CN2018104364	02.04.2020	(32) 29.06.2017
14.03.2019	(22) 20.09.2019	11.11.2016
(22) 06.09.2018	(54) TERMINAL DEVICE,	(33) United States of America
(54) POWER PROCESSING METHOD AND	TELECOMMUNICATIONS APPARATUS	United States of America
DEVICE, AND STORAGE MEDIUM	AND METHODS	(51) H04W 64/00
(73) ZTE Corporation	(73) Sony Group Corporation	H04W 56/00
(72) ZENG, Zhaohua	(72) SHARMA, Vivek	G01S 5/02
JIA, Wenjuan	WEI, Yuxin	G01S 5/14
(31) 201710794698	ATUNGSIRI, Samuel Asangbeng	(11) EP3544340
(32) 06.09.2017	WAKABAYASHI, Hideji	(21) EP17872746.7
(33) China	(31) 18197363	(47) 26.07.2023
(51) H04W 52/14	(32) 27.09.2018	(87) CN2017100576
H04W 76/15	(33) European Patent Office (EPO)	24.05.2018
H04W 52/36	(51) H04W 52/24	(22) 05.09.2017
H04W 52/40	H04W 52/32	(54) LMU DEVICE FUSION METHOD,
H04W 72/04	H04W 4/44	APPARATUS, AND SYSTEM
H04W 52/34	H04W 4/02	(73) ZTE Corporation
(11) EP3755069	H04W 52/28	(72) TIAN, Xuefeng
(21) EP19754405.9	(11) EP3624469	CHEN, Shijun
(47) 26.07.2023	(21) EP19192985.0	WANG, Yuanyuan
(87) CN2019074646	(47) 26.07.2023	CHEN, Dawei
22.08.2019	(22) 22.08.2019	CHEN, Qiang
(22) 02.02.2019	(54) METHODS AND APPARATUSES FOR	(31) 201611014884
(54) METHOD AND DEVICE FOR	TRANSMITTING AND RECEIVING	(32) 17.11.2016
CONTROLLING POWER	DATA, AND STORAGE MEDIUMS	(33) China
(73) HUAWEI TECHNOLOGIES CO., LTD.	(73) Apollo Intelligent Connectivity (Beijing)	(51) H04W 68/02
(72) ZHANG, Qian	Technology Co., Ltd.	H04W 68/12
DENG, Meng	(72) Hu, Xing	(11) EP3459291
LIU, Zhe	Bao, Zewen	(21) EP17812580.3
FENG, Shulan	(31) 201811064053	(47) 26.07.2023
ZHANG, Xingwei	(32) 12.09.2018	(87) CN2017087105
(31) 201810152273	(33) China	21.12.2017
(32) 14.02.2018	(51) H04W 56/00	(22) 02.06.2017
(33) China	(11) EP3777366	(54) SYSTEM AND METHOD FOR PAGING
(51) H04W 52/18	(21) EP19714194.8	IN A COMMUNICATIONS SYSTEM
H04W 52/32	(47) 26.07.2023	(73) Huawei Technologies Co., Ltd.
H04W 52/36	(87) EP2019057629	(72) TENNY, Nathan, Edward
H04W 52/34	10.10.2019	LI, Guorong
H04B 7/06	(22) 26.03.2019	DUAN, Xiaoyan
H04B 7/0426	(54) FLEXIBLE SELECTION OF TIMING	YANG, Yunsong
(11) EP3607783	ADVANCE CONTROL METHOD	JIN, Hui
(21) EP18775355.3	FOR SUPPLEMENTARY UPLINK	OUYANG, Guowei
(47) 26.07.2023	CONNECTIONS	(31) 201715605360
(87) CN2018081326	(73) Telefonaktiebolaget LM Ericsson (publ)	201662349431 P
04.10.2018	(72) BALDEMAIR, Robert	(32) 25.05.2017
(22) 30.03.2018	PALENIUS, Torgny	13.06.2016
(54) ENHANCED POWER HEADROOM	SANDGREN, Magnus	(33) United States of America
REPORT FOR FEEDING BACK	(31) 201862652721 P	United States of America
BEAMFORMED SOUNDING	(32) 04.04.2018	(51) H04W 68/02
REFERENCE SOURCE POWER	(33) United States of America	H04W 88/08
SCALING		(11) EP3780792

(21) EP19793015.9	(33) United States of America	(87) CN2017099204
(47) 26.07.2023	United States of America	14.06.2018
(87) CN2019084727	(51) H04W 72/04	(22) 26.08.2017
31.10.2019	H04B 7/0404	(54) PILOT-DATA OVERLAP DESIGN FOR
(22) 28.04.2019	H04B 7/06	UPLINK TRANSMISSION
(54) SIGNAL TRANSMISSION METHOD,	(11) EP3937568	(73) Huawei Technologies Co., Ltd.
CENTRAL ACCESS POINT (AP) AND	(21) EP20795207.8	(72) MA, Jianglei
RADIO REMOTE UNIT (RRU)	(47) 26.07.2023	ABDOLI, Javad
(73) Huawei Technologies Co., Ltd.	(87) CN2020085259	CAO, Yu
(72) WEI, Hanyu	29.10.2020	(31) 201615374065
HU, Yinliang	(22) 17.04.2020	(32) 09.12.2016
PAN, Dongcheng	(54) BEAM CORRESPONDENCE	(33) United States of America
(31) 201810400404	CAPACITY REPORTING METHOD AND	(51) H04W 72/04
(32) 28.04.2018	APPARATUS	H04L 5/00
(33) China	(73) Huawei Technologies Co., Ltd.	(11) EP3817480
(51) H04W 68/12	(72) LING, Cen	(21) EP19818810.4
(11) EP3691358	(31) 201910702752	(47) 26.07.2023
(21) EP20165840.8	201910336113	(87) CN2019090165
(47) 26.07.2023	(32) 31.07.2019	19.12.2019
(22) 12.08.2015	24.04.2019	(22) 05.06.2019
(54) WIRELESS NETWORK PAGE	(33) China	(54) SIGNAL TRANSMISSION METHOD
TRANSMISSION AND RESPONSE	China	AND APPARATUS
(73) QUALCOMM Incorporated	(51) H04W 72/04	(73) Huawei Technologies Co., Ltd.
(72) SONG, Osok	H04L 1/1607	(72) TANG, Hao
HORN, Gavin, Bernard	H04L 1/1829	LI, Xinxian
FACCIN, Stefano	(11) EP4024999	TANG, Zhenfei
(31) 201514597711	(21) EP20918215.3	(31) 201810623140
201462040953 P	(47) 26.07.2023	(32) 15.06.2018
(32) 15.01.2015	(87) CN2020074891	(33) China
22.08.2014	19.08.2021	(51) H04W 72/04
(33) United States of America	(22) 12.02.2020	H04W 74/08
United States of America	(54) COMMUNICATION METHOD, DEVICE,	H04L 5/00
(51) H04W 72/02	AND STORAGE MEDIUM	(11) EP3952506
H04L 1/1822	(73) GUANGDONG OPPO MOBILE	(21) EP19921920.5
H04L 1/1867	TELECOMMUNICATIONS CORP., LTD.	(47) 26.07.2023
H04W 72/25	(72) WU, Zuomin	(87) CN2019079749
H04W 72/40	(51) H04W 72/04	01.10.2020
(11) EP3113559	H04L 1/1829	(22) 26.03.2019
(21) EP14886360.8	H04L 5/00	(54) SLOT FORMAT INDICATION METHOD
(47) 26.07.2023	H04W 72/0446	AND APPARATUS
(87) CN2014073897	(11) EP3858034	(73) Beijing Xiaomi Mobile Software Co., Ltd.
24.09.2015	(21) EP19786429.1	(72) LI, Mingju
(22) 21.03.2014	(47) 26.07.2023	(51) H04W 72/04
(54) DEVICE AND METHOD FOR	(87) US2019053517	H04W 74/08
DATA TRANSMISSION IN DIRECT	02.04.2020	H04W 74/00
COMMUNICATION	(22) 27.09.2019	(11) EP3869889
(73) Huawei Technologies Co., Ltd.	(54) RETUNING FOR FLEXIBLE	(21) EP19949540.9
(72) MA, Jie	RESOURCE ALLOCATION	(47) 26.07.2023
LIU, Deping	(73) QUALCOMM Incorporated	(87) CN2019111781
(51) H04W 72/04	(72) MENON, Murali	22.04.2021
(11) EP3158810	LIU, Le	(22) 17.10.2019
(21) EP15795001.5	TIRUCHERAI MURALIDHARAN,	(54) INDICATION CHANNEL ACCESS
(47) 26.07.2023	Vijayaradharaj	METHOD AND APPARATUS
(87) US2015034913	RICO ALVARINO, Alberto	(73) GUANGDONG OPPO MOBILE
23.12.2015	(31) 201844041597	TELECOMMUNICATIONS CORP., LTD.
(22) 09.06.2015	201841036816	(72) WU, Zuomin
(54) APPARATUS AND METHOD FOR	201916584649	SHI, Cong
CAPABILITY UPDATE IN WIRELESS	(32) 02.11.2018	(51) H04W 72/04
COMMUNICATION	28.09.2018	H04W 76/11
(73) Qualcomm Incorporated	26.09.2019	H04L 5/00
(72) SMEE, John Edward	(33) India	H04W 76/14
GAAL, Peter	India	(11) EP3755091
JI, Tingfang	United States of America	(21) EP19754073.5
CHAPONNIERE, Etienne, François	(51) H04W 72/04	(47) 26.07.2023
(31) 201414567940	H04L 5/00	(87) CN2019073854
201462014027 P	(11) EP3539341	22.08.2019
(32) 11.12.2014	(21) EP17879360.0	(22) 30.01.2019
18.06.2014	(47) 26.07.2023	

(54) INDICATION METHOD FOR SECONDARY LINK DATA, AND TERMINAL DEVICE	(22) 11.01.2018	(33) Korea (Republic)
(73) Vivo Mobile Communication Co., Ltd.	(54) INDICATION CHANNEL FOR EMBB/ URLLC MULTIPLEXING	Korea (Republic)
(72) YANG, Xiaodong	(73) QUALCOMM Incorporated	Korea (Republic)
ZHANG, Yanxia	(72) HOSSEINI, Seyedkianoush	Korea (Republic)
MA, Jingzhi	LI, Chong	(51) H04W 72/12
ZHENG, Qian	MANOLAKOS, Alexandros	H04W 72/23
(31) 201810150670	JIANG, Jing	H04L 5/00
(32) 13.02.2018	(31) 201715708858	(11) EP3582570
(33) China	201762455272 P	(21) EP17901246.3
(51) H04W 72/0446	(32) 19.09.2017	(47) 26.07.2023
(11) EP3487238	06.02.2017	(87) CN2017115852
(21) EP16912374.2	(33) United States of America	20.09.2018
(47) 26.07.2023	United States of America	(22) 13.12.2017
(87) CN2016094917	(51) H04W 72/0453	(54) METHOD FOR INDICATING SERVICE
15.02.2018	H04W 88/08	RESOURCE INDICATION CHANNEL
(22) 12.08.2016	(11) EP3590268	OCCUPATION, APPARATUS, AND
(54) DATA TRANSMISSION METHOD	(21) EP18761956.4	STORAGE MEDIUM
(73) Huawei Technologies Co., Ltd.	(47) 26.07.2023	(73) China Academy of Information and
(72) LU, Zhenwei	(87) US2018020306	Communications Technology
LIU, Deping	07.09.2018	(72) LIU, Xiaofeng
(51) H04W 72/0446	(22) 28.02.2018	(31) 201710159371
H04W 24/10	(54) WIRELESS DEVICES AND SYSTEMS	(32) 17.03.2017
H04W 72/23	INCLUDING EXAMPLES OF	(33) China
H04W 48/12	CONFIGURATION MODES FOR	(51) H04W 72/23
(11) EP3780825	BASEBAND UNITS AND REMOTE	H04L 5/00
(21) EP20196871.6	RADIO HEADS	H04L 1/16
(47) 26.07.2023	(73) Micron Technology, Inc.	H04L 5/14
(22) 25.06.2014	(72) CUMMINS, Jaime	(11) EP3796732
(54) TIME DIVISION DUPLEX (TDD)	CHRITZ, Jeremy	(21) EP20201058.3
UPLINK DOWNLINK (UL-DL)	SCHMITZ, Tamara	(47) 26.07.2023
RECONFIGURATION	LUO, Fa-Long	(22) 27.04.2017
(73) INTEL Corporation	(31) 201715693122	(54) COMMUNICATIONS DEVICE AND
(72) HE, Hong	201715447699	INFRASTRUCTURE EQUIPMENT
KHORYAEV, Alexey	(32) 31.08.2017	(73) Sony Group Corporation
PANTELEEV, Sergey	02.03.2017	(72) BEALE, Martin Warwick
FWU, Jong-Kae	(33) United States of America	WONG, Shin Horng
(31) 201414226264	United States of America	ATUNGSIRI, Samuel Asangbeng
201361841230 P	(51) H04W 72/12	(31) 16169734
(32) 26.03.2014	H04W 72/04	(32) 13.05.2016
28.06.2013	H04L 5/00	(33) European Patent Office (EPO)
(33) United States of America	H04W 72/23	(51) H04W 72/23
United States of America	H04L 1/1829	H04W 72/0453
(51) H04W 72/0446	H04W 72/1268	(11) EP3573404
H04W 72/04	H04W 72/1273	(21) EP18772535.3
H04L 5/00	(11) EP3518600	(47) 26.07.2023
(11) EP3823199	(21) EP17865212.9	(87) CN2018079994
(21) EP18930434.8	(47) 26.07.2023	27.09.2018
(47) 26.07.2023	(87) KR2017011968	(22) 22.03.2018
(87) CN2018101188	03.05.2018	(54) METHOD AND DEVICE FOR
20.02.2020	(22) 27.10.2017	TRANSMITTING AND RECEIVING
(22) 17.08.2018	(54) METHOD AND DEVICE FOR	INFORMATION
(54) METHOD AND DEVICE FOR	SCHEDULING UPLINK SIGNAL AND	(73) Huawei Technologies Co., Ltd.
DETERMINING SLOT-FORMAT	DOWNLINK DATA CHANNEL IN NEXT	(72) GUAN, Lei
(73) GUANGDONG OPPO MOBILE	GENERATION WIRELESS NETWORK	(31) 201710179820
TELECOMMUNICATIONS CORP., LTD.	(73) KT Corporation	(32) 23.03.2017
(72) XU, Weijie	(72) CHOI, Woo-jin	(33) China
(51) H04W 72/0446	PARK, Kyujin	(51) H04W 72/30
H04W 72/23	(31) 20170139885	H04L 12/18
H04L 5/00	20170130023	H04W 8/22
H04L 5/14	20170079911	H04W 4/06
H04B 7/26	20170037553	(11) EP3577856
(11) EP3577972	20160141451	(21) EP17795139.9
(21) EP18702841.0	(32) 26.10.2017	(47) 26.07.2023
(47) 26.07.2023	11.10.2017	(87) US2017057967
(87) US2018013319	23.06.2017	09.08.2018
09.08.2018	24.03.2017	(22) 24.10.2017
	27.10.2016	

(54) CAPABILITY AND COVERAGE DETERMINATION FOR MULTIMEDIA BROADCAST MULTICAST SERVICE	(54) METHOD AND APPARATUS FOR SWITCHING BETWEEN 2 STEP AND 4 STEP RANDOM ACCESS (RA) PROCEDURES AND CONTENTION RESOLUTIONS	(31) 201815895388 201762501641 P
(73) QUALCOMM Incorporated	(73) Samsung Electronics Co., Ltd.	(32) 13.02.2018 04.05.2017
(72) BHATTAD, Kapil DHANDA, Mungal ZISIMOPOULOS, Haris GRIOT, Miguel RICO ALVARINO, Alberto CHAPONNIERE, Lenaig Genevieve	(72) KIM, Soenghun AGIWAL, Anil JANG, Jaehyuk	(33) United States of America United States of America
(31) 201741004261	(31) 201962837843 P	(51) H04W 74/06
(32) 06.02.2017	(32) 24.04.2019	H04W 84/12
(33) India	(33) United States of America	H04W 72/0446
(51) H04W 72/51	(51) H04W 74/00	H04W 72/23
H04W 76/14	H04L 27/26	H04B 7/06
H04W 48/04	(11) EP4033846	(11) EP3678442
H04W 72/23	(21) EP20880637.2	(21) EP17926829.7
(11) EP3831143	(47) 26.07.2023	(47) 26.07.2023
(21) EP19845495.1	(87) CN2020124676	(87) CN2017103764
(47) 26.07.2023	06.05.2021	04.04.2019
(87) CN2019099112	(22) 29.10.2020	(22) 27.09.2017
06.02.2020	(54) DATA PROCESSING METHOD AND APPARATUS	(54) MULTI-BEAM POLLING BASED TRANSMISSION METHOD AND COMMUNICATION DEVICE
(22) 02.08.2019	(73) Huawei Technologies Co., Ltd.	(73) Huawei Technologies Co., Ltd.
(54) SIDELINK RADIO RESOURCE ALLOCATION	(72) QU, Bingyu GONG, Mingxin	(72) HE, Zhaojun MA, Yingdong LI, Xiaodong GUO, Yong ZHANG, Yong
(73) FG Innovation Company Limited	(31) 201911057386	(51) H04W 74/08
(72) TSENG, Yunglan SHIH, Meiju	(32) 31.10.2019	(11) EP3912422
(31) 201862714237 P	(33) China	(21) EP19700923.6
(32) 03.08.2018	(51) H04W 74/00	(47) 26.07.2023
(33) United States of America	H04W 74/08	(87) EP2019051056
(51) H04W 72/52	H04L 5/00	23.07.2020
(11) EP3749040	(11) EP3753351	(22) 16.01.2019
(21) EP20177816.4	(21) EP18760034.1	(54) METHODS, APPARATUS AND DEVICE-READABLE MEDIUMS FOR SCHEDULING TRANSMISSIONS IN A WIRELESS NETWORK
(47) 26.07.2023	(47) 26.07.2023	(73) TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
(22) 02.06.2020	(87) IB2018055731	(72) BUTT, Naveed WILHELMSSON, Leif HIERTZ, Guido Roland
(54) SYSTEMS AND METHODS FOR CONSTRAINED MULTI-LINK OPERATION IN A WIRELESS NETWORK	(22) 31.07.2018	(51) H04W 74/08
(73) MediaTek Singapore Pte. Ltd.	(54) METHODS PROVIDING RACH OCCASION INDICATION FOR RANDOM ACCESS PROCEDURE INITIATED BY PDCCH ORDER AND RELATED WIRELESS TERMINALS AND BASE STATIONS	H04B 7/26
(72) YEE, James Chih-Shi PARE, Jr., Thomas Edward SEOK, Yongho CHENG, Po-Yuen TSAO, Weisung	(73) Telefonaktiebolaget LM Ericsson (publ)	(11) EP3908072
(31) 202016888448	(72) AXNÄS, Johan LIN, Xingqin ZHAO, Hongxia LI, Jingya IRUKULAPATI, Naga Vishnu Kanth GRÖVLEN, Asbjörn	(21) EP21177536.6
202062968266 P	(31) 201862710563 P	(47) 26.07.2023
201962856255 P	(32) 16.02.2018	(22) 03.08.2007
(32) 29.05.2020	(33) United States of America	(54) PRE-ALLOCATED RANDOM ACCESS IDENTIFIERS
31.01.2020	(51) H04W 74/00	(73) Wilan Inc.
03.06.2019	H04W 74/08	(72) WANG, Lei GUMMADI, Srikanth NEWHAM, Adam BOURLAS, Yair
(33) United States of America United States of America United States of America	H04W 48/06	(31) 46979406
(51) H04W 74/00	(11) EP3620017	(32) 01.09.2006
H04L 1/1829	(21) EP18724074.2	(33) United States of America
H04L 1/1867	(47) 26.07.2023	(51) H04W 74/08
H04W 74/08	(87) US2018029376	H04W 76/27
H04W 56/00	08.11.2018	H04W 56/00
H04L 5/00	(22) 25.04.2018	H04W 72/12
(11) EP3949664	(54) GRANT-FREE ADMISSION CONTROL TO A SHARED CHANNEL	(11) EP3506708
(21) EP20794958.7	(73) QUALCOMM Incorporated	(21) EP17856843.2
(47) 26.07.2023	(72) HUANG, Yi SUN, Jing JIANG, Jing	(47) 26.07.2023
(87) KR2020005477		(87) KR2017011010
29.10.2020		05.04.2018
(22) 24.04.2020		(22) 29.09.2017

(54) METHOD AND APPARATUS FOR TRANSMITTING DATA IN RRC DEACTIVATED STATE	(47) 26.07.2023 (87) CN2017091124 03.01.2019	KIM, Taesung YOO, Seungbo (31) 20180100489 (32) 27.08.2018 (33) Korea (Republic)
(73) Samsung Electronics Co., Ltd.	(22) 30.06.2017	
(72) MOON, Jungmin RYOO, Sunheui JUNG, Byoungsoon PARK, Seunghoon AHN, Rayeon JUNG, Jungsoo HWANG, Jiwon	(54) COMMUNICATION METHOD (73) Huawei Technologies Co., Ltd. (72) LUO, Jing	(51) H04W 76/22 H04W 72/1268 H04W 72/231 (11) EP3637892 (21) EP17913506.6 (47) 26.07.2023 (87) CN2017088688 20.12.2018 (22) 16.06.2017 (54) DATA TRANSMISSION METHOD, TERMINAL DEVICE, AND NETWORK DEVICE (73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(31) 20170037158 20170001481 20160146069 20160125950	(51) H04W 76/14 H04W 88/04 H04W 8/00 H04W 48/16 H04W 48/20 H04W 76/27 (11) EP3840518 (21) EP19856754.7 (47) 26.07.2023 (87) CN2019104596 12.03.2020 (22) 05.09.2019	(72) TANG, Hai (51) H04W 76/27 H04W 52/02 (11) EP3498046 (21) EP17736635.8 (47) 26.07.2023 (87) EP2017066470 15.02.2018 (22) 03.07.2017 (54) NETWORK SIGNALING OPTIMIZATION FOR LIGHT CONNECTED MODE (73) Nokia Solutions and Networks Oy (72) KELLEY, Sean CHANDRAMOULI, Devaki GODIN, Philippe (31) 201615232378 (32) 09.08.2016 (33) United States of America
(32) 23.03.2017 04.01.2017 03.11.2016 29.09.2016	(54) RRC CONNECTION METHOD AND TERMINAL (73) HUAWEI TECHNOLOGIES CO., LTD. (72) WANG, Jun LUO, Haiyan DAI, Mingzeng	
(33) Korea (Republic) Korea (Republic) Korea (Republic) Korea (Republic)	(31) 201811044515 (32) 07.09.2018 (33) China	
(51) H04W 76/10 H04L 67/14	(51) H04W 76/15 H04W 12/033 H04W 12/037 H04W 12/041 H04W 12/043 (11) EP3434035 (21) EP16718636.0 (47) 26.07.2023 (87) EP2016058566 28.09.2017 (22) 18.04.2016	
(11) EP3920510 (21) EP20759268.4 (47) 26.07.2023 (87) CN2020072307 27.08.2020 (22) 15.01.2020	(54) METHODS AND NETWORK NODES FOR MULTI-CONNECTIVITY HANDLING IN A COMMUNICATION SYSTEM (73) Telefonaktiebolaget LM Ericsson (publ) (72) FAN, Rui NORRMAN, Karl AXÉN, Rasmus MIAO, Qingyu RUNE, Johan MILDH, Gunnar	
(54) COMMUNICATION METHOD, APPARATUS, AND SYSTEM	(31) PCT/CN2016/077016 (32) 22.03.2016 (33) World Intellectual Property Office (WIPO)	
(73) Huawei Technologies Co., Ltd.	(51) H04W 76/16 H04W 72/04 H04W 88/08 H04W 92/20 (11) EP3785485 (21) EP19853392.9 (47) 26.07.2023 (87) KR2019010907 05.03.2020 (22) 27.08.2019	
(72) WU, Yizhuang ZHANG, Wanqiang SUN, Haiyang	(54) METHOD AND APPARATUS FOR PERFORMING DUAL CONNECTIVITY IN HETEROGENEOUS NETWORK (73) Samsung Electronics Co., Ltd. (72) KIM, Janghwan	
(31) 201910120721 (32) 18.02.2019 (33) China		
(51) H04W 76/11 H04W 76/15 H04W 68/00		
(11) EP3913998 (21) EP19909828.6 (47) 26.07.2023 (87) CN2019128465 23.07.2020 (22) 25.12.2019		
(54) PDU SESSION ACTIVATION METHODS, AND AN SMF ENTITY APPARATUS AND AMF ENTITY APPARATUS		
(73) Datang Mobile Communications Equipment Co., Ltd.		
(72) WANG, Hucheng		
(31) 201910065341 201910036964 (32) 23.01.2019 15.01.2019 (33) China China		
(51) H04W 76/12 H04W 36/00 H04W 84/18 H04W 8/08 (11) EP3637817 (21) EP17915490.1		

ZHANG, Yanji	(51) H04W 88/08	(32) 27.01.2017
(51) H04W 76/50	H04J 11/00	(33) United States of America
H04W 36/00	H04B 7/08	(51) H05B 6/06
H04W 4/90	H04B 1/40	B23B 31/117
H04W 88/14	(11) EP3900481	B23P 11/02
H04W 92/24	(21) EP18833732.3	B23Q 3/12
(11) EP4085730	(47) 26.07.2023	H05B 6/10
(21) EP20829857.0	(87) SE2018051344	H05B 6/14
(47) 26.07.2023	25.06.2020	H05B 6/38
(87) EP2020086119	(22) 19.12.2018	H05B 6/40
08.07.2021	(54) METHODS, REMOTE RADIO UNITS	(11) EP3691409
(22) 15.12.2020	AND BASE BAND UNITS OF A	(21) EP20162208.1
(54) METHODS, DEVICES AND	DISTRIBUTED BASE STATION	(47) 26.07.2023
COMPUTER READABLE MEDIUM FOR	SYSTEM FOR HANDLING UPLINK	(22) 21.12.2016
EMERGENCY COMMUNICATIONS	SIGNALS	(54) SHRINKING APPARATUS WITH
(73) TELEFONAKTIEBOLAGET LM	(73) TELEFONAKTIEBOLAGET LM	HEATING CONTROL
ERICSSON (PUBL)	ERICSSON (PUBL)	(73) Haimer GmbH
(72) GAN, Juying	(72) HUANG, Yezi	(72) Podhrázký, Antonín
LU, Yunjie	BERG, Miguel	(31) 102015016831
FOTI, George	LU, Chenguang	(32) 28.12.2015
HEDMAN, Peter	(51) H04W 92/12	(33) Germany
(31) PCT/CN2020/070129	H04W 76/00	(51) H05B 6/64
(32) 02.01.2020	H04L 61/103	A47J 43/07
(33) World Intellectual Property Office (WIPO)	H04W 8/26	(11) EP3818781
(51) H04W 88/04	H04L 61/5046	(21) EP19733822.1
H04W 76/10	(11) EP3691404	(47) 26.07.2023
H04L 67/00	(21) EP17927832.0	(87) EP2019067731
H04W 84/12	(47) 26.07.2023	09.01.2020
H04W 88/06	(87) JP2017035602	(22) 02.07.2019
H04L 69/14	04.04.2019	(54) AN OVEN, AS WELL AS A METHOD
H04W 4/80	(22) 29.09.2017	FOR STIRRING FOODSTUFF
H04W 76/14	(54) BASE STATION, TERMINAL,	CONTAINED IN A VESSEL DISPOSED
H04W 12/06	PROCESSING METHOD, AND RADIO	IN THE COOKING CAVITY OF SUCH
(11) EP3402306	COMMUNICATION SYSTEM	AN OVEN
(21) EP18179293.8	(73) Fujitsu Limited	(73) Eggciting Products B.V.
(47) 26.07.2023	(72) HIRATA, Akira	(72) BIVERT, Marcel Alexander
(22) 10.09.2013	(51) H05B 3/26	SLURINK, Oscar
(54) CONNECTING TWO DEVICES AND	(11) EP4005341	HIJMA, Herman
EXECUTING AN APPLICATION	(21) EP20737157.6	KASBERGEN, Michael
(73) Samsung Electronics Co., Ltd.	(47) 26.07.2023	GIEZEMAN, Dennis
(72) KO, Jae-woo	(87) EP2020068983	(31) 2021239
PARK, Se-jun	28.01.2021	(32) 04.07.2018
SHIN, Hang-sik	(22) 06.07.2020	(33) Netherlands
(31) 20120099791	(54) INDUCTIVE PANEL HEATING	(51) H05B 33/12
(32) 10.09.2012	(73) SURTECO GmbH	H05B 33/14
(33) Korea (Republic)	(72) KREMER, Christoph	H10K 50/10
(51) H04W 88/06	PACHOWIAK, Horst	(11) EP3618130
H04W 24/08	SCHUNCK, Stephan	(21) EP18382629.6
H04L 67/75	PETRAKIS, Jordanis	(47) 26.07.2023
H04M 1/724	(31) 102019119964	(22) 29.08.2018
H04W 76/15	(32) 24.07.2019	(54) A LIGHT EMITTING DEVICE, AN
(11) EP3846580	(33) Germany	OPTICAL SPECTROMETER, AND A
(21) EP19858397.3	(51) H05B 3/58	DOWN-CONVERTING FILM FOR A
(47) 26.07.2023	H05B 1/02	LIGHT EMITTING DEVICE
(87) CN2019100817	H05B 3/14	(73) Institució Catalana De Recerca I Estudis
12.03.2020	(11) EP3574709	Avançats (ICREA)
(22) 15.08.2019	(21) EP18744786.7	Fundació Institut de Ciències Fotòniques
(54) NETWORK STATE IDENTIFIER	(47) 26.07.2023	(72) KONSTANTATOS, Gerasimos
DISPLAY CONTROL METHOD AND	(87) US2018014649	PRADHAN, Santanu
RELATED PRODUCT	02.08.2018	(51) H05B 45/20
(73) GUANGDONG OPPO MOBILE	(22) 22.01.2018	H05B 47/105
TELECOMMUNICATIONS CORP., LTD.	(54) DEVICES FOR HEATING SMALL-	(11) EP4042838
(72) XIA, Yang	DIAMETER TUBING AND METHODS	(21) EP20780221.6
TANG, Kai	OF MAKING AND USING	(47) 26.07.2023
ZHANG, Tao	(73) Purdue Research Foundation	(87) EP2020077450
(31) 201811028377	(72) ZIMMERMAN, James, Robert	15.04.2021
(32) 04.09.2018	HILGER, Ryan, Tyler	(22) 01.10.2020
(33) China	(31) 201762451128 P	

(54) A LIGHTING CONTROL SYSTEM EMPLOYING SOCIAL SENSING FEEDBACK	European Patent Office (EPO)	09.08.2018
(73) Signify Holding B.V.	(51) H05B 47/18	(22) 23.01.2018
(72) PANDHARIPANDE, Ashish, Vijay	H05B 45/50	(54) POWER SUPPLY DEVICE AND ELECTRONIC DEVICE COMPRISING THE SAME
(31) 19202469	(11) EP3729913	(73) Samsung Electronics Co., Ltd.
(32) 10.10.2019	(21) EP19743200.8	(72) LEE, Yong Joo
(33) European Patent Office (EPO)	(47) 26.07.2023	KANG, Shin Ho
(51) H05B 45/20	(87) CN2019070822	JOO, Sung Yong
H05B 47/16	01.08.2019	(31) 20170015990
A01K 15/00	(22) 08.01.2019	(32) 06.02.2017
(11) EP3437437	(54) DALI CIRCUIT, CONTROLLING METHOD AND EQUIPMENT	(33) Korea (Republic)
(21) EP17776523.7	(73) Tridonic GmbH & Co. KG	(51) H05K 1/14
(47) 26.07.2023	(72) LIN, Yaofeng	H05K 3/36
(87) US2017024679	LI, Xinhai	H05K 1/02
05.10.2017	(31) PCT/CN2018/074291	H05K 1/18
(22) 29.03.2017	(32) 26.01.2018	(11) EP3829272
(54) SYSTEM AND METHOD OF ILLUMINATING LIVESTOCK	(33) World Intellectual Property Office (WIPO)	(21) EP19841573.9
(73) Signify North America Corporation	(51) H05B 47/19	(47) 26.07.2023
(72) GRAJCAR, Zdenko	H05B 47/115	(87) JP2019005143
(31) 201662314692 P	H04L 12/28	30.01.2020
(32) 29.03.2016	G08B 21/20	(22) 13.02.2019
(33) United States of America	G01S 7/41	(54) PRINTED CIRCUIT BOARD
(51) H05B 47/10	G01S 13/88	(73) Mitsubishi Electric Corporation
(11) EP3434077	G01S 13/87	(72) SASAKI, Shunsuke
(21) EP17719641.7	G01S 13/56	SATO, Kohei
(47) 26.07.2023	G01S 13/04	ASAI, Toshiki
(87) FI2017050188	(11) EP4059322	MORIMOTO, Yusuke
28.09.2017	(21) EP20801282.3	FUJIMA, Yoshiko
(22) 20.03.2017	(47) 26.07.2023	(31) 2018140332
(54) A LIGHTING SYSTEM, AND A METHOD OF PRODUCING A LIGHT PROJECTION	(87) EP2020081623	(32) 26.07.2018
(73) LIGHT COGNITIVE OY	20.05.2021	(33) Japan
(72) SALOMAA, Sami	(22) 10.11.2020	(51) H05K 1/14
(31) 20165242	(54) CHANGING TRANSMISSION AND/OR RECEPTION CHARACTERISTICS FOR DETECTING EVENTS OTHER THAN HUMAN PRESENCE	H05K 3/36
(32) 23.03.2016	(73) Signify Holding B.V.	H05K 3/28
(33) Finland	(72) MEERBEEK, Berent, Willem	(11) EP3552463
(51) H05B 47/115	KRAJNC, Hugo, José	(21) EP17816673.2
G05B 15/02	ALIAKSEYEU, Dzmitry, Viktorovich	(47) 26.07.2023
(11) EP3201696	(31) 19209314	(87) EP2017082109
(21) EP15771881.8	(32) 15.11.2019	21.06.2018
(47) 26.07.2023	(33) European Patent Office (EPO)	(22) 08.12.2017
(87) EP2015071485	(51) H05K 1/02	(54) PRINTED CIRCUIT BOARD COMPOSITE AND METHOD FOR PRODUCING SAME
07.04.2016	H05K 3/28	(73) Vitesco Technologies Germany GmbH
(22) 18.09.2015	H05K 1/18	(72) GREIFENSTEIN, Thengis
(54) SYSTEMS AND METHODS FOR MANAGING ENVIRONMENTAL CONDITIONS	(11) EP3383146	STRECKER, Mathias
(73) Signify Holding B.V.	(21) EP18162667.2	ALBERT, Andreas
(72) VERSCHOOR, Michael Petrus Franciscus	(47) 26.07.2023	RIETSCH, Jürgen
LENOIR, Petrus Johannes	(22) 19.03.2018	BEL HAJ SAID, Hassene
DE LAAT, Jules Martinus Adrianus Gerardus	(54) LIGHTING DEVICE WITH IP PROTECTION AND MULTIDIRECTIONAL BENDING CAPABILITY, AND METHOD FOR MANUFACTURING THE SAME	PLACH, Andreas
VAN ENDERT, Tony Petrus	(73) OPTOTRONIC GmbH	BOCK, Johannes
VERBERKT, Mark Henricus	(72) REISS, Mr. Martin	(31) 102016224653
VANGEEL, Jurgen Mario	VOLPATO, Mr. Luca	(32) 12.12.2016
RIETMAN, Wijnand Johannes	GRIFFONI, Alessio	(33) Germany
RAJ URS, Lokesh Narayan	(31) 201700035744	(51) H05K 1/18
DINGLE, Simon Garven	(32) 31.03.2017	H01L 23/538
BHAT, Sanjay	(33) Italy	(11) EP3355666
(31) 4855CH2014	(51) H05K 1/14	(21) EP17153335.9
14195346	G01R 31/40	(47) 26.07.2023
(32) 29.09.2014	(11) EP3545613	(22) 26.01.2017
28.11.2014	(21) EP18748484.5	(54) SEMIFINISHED PRODUCT AND METHOD OF MANUFACTURING A COMPONENT CARRIER
(33) India	(47) 26.07.2023	(73) AT & S Austria Technologie & Systemtechnik Aktiengesellschaft
	(87) KR2018001029	(72) Gavagnin, Marco
		Krivec, Thomas

(51) H05K 1/18	(47) 26.07.2023	H01L 21/67
H05K 1/02	(87) US2018050372	H01L 21/68
H01L 23/367	18.04.2019	(11) EP3553813
H01L 23/538	(22) 11.09.2018	(21) EP16923292.3
H01L 23/00	(54) HEAT SPREADER ASSEMBLY	(47) 26.07.2023
H01L 25/10	(73) Dish Technologies L.L.C.	(87) JP2016086149
(11) EP3148300	(72) TRYGUBOVA, Svitlana	14.06.2018
(21) EP15186707.4	(31) 201715729866	(22) 06.12.2016
(47) 26.07.2023	(32) 11.10.2017	(54) DIE COMPONENT SUPPLY DEVICE
(22) 24.09.2015	(33) United States of America	(73) FUJI Corporation
(54) CONNECTION SYSTEM FOR	(51) H05K 7/20	(72) HAYAKAWA Masashi
ELECTRONIC COMPONENTS	(11) EP3500078	(51) H05K 13/08
(73) AT & S Austria Technologie &	(21) EP18208531.6	H05K 13/04
Systemtechnik Aktiengesellschaft	(47) 26.07.2023	(11) EP3595425
(72) Sekavcnik, Ronald	(22) 27.11.2018	(21) EP17900099.7
Weis, Gerald	(54) METHOD AND SYSTEM FOR	(47) 26.07.2023
Vockenberger, Christian	PREDICTING EFFECT OF A	(87) JP2017009653
(51) H05K 1/18	TRANSIENT EVENT ON A DATA	13.09.2018
H05K 3/00	CENTER	(22) 10.03.2017
H05K 1/02	(73) Schneider Electric IT Corporation	(54) COMPONENT MOUNTING MACHINE
(11) EP3892071	(72) VANGILDER, James William	(73) Fuji Corporation
(21) EP19816947.6	SPITAELS, James S.	(72) KAWAGUCHI, Koji
(47) 26.07.2023	HEALEY, Christopher M.	SUGIHARA, Kohei
(87) NL2019050796	(31) 201715841599	IWATA, Naoya
11.06.2020	(32) 14.12.2017	(51) H10B 43/10
(22) 02.12.2019	(33) United States of America	H10B 43/27
(54) MANUFACTURE OF A CURVED	(51) H05K 7/20	H10B 43/35
ELECTRONIC DEVICE USING	(11) EP3471523	H10B 43/40
DIFFERENTIAL HEATING AND	(21) EP17195749.1	H10B 43/50
CURVED ELECTRONIC DEVICE	(47) 26.07.2023	G11C 16/04
(73) Nederlandse Organisatie voor	(22) 10.10.2017	(11) EP3639300
Toegepast-Natuurwetenschappelijk	(54) ECU COOLING ARRANGEMENT	(21) EP18710618.2
Onderzoek TNO	(73) Veoneer Sweden AB	(47) 26.07.2023
(72) SCHRAM, Jeroen Franciscus Marinus	(72) Hökerek, Hakan	(87) US2018019729
VAN DELFT, Jan Pieter Hein	(51) H05K 7/20	20.12.2018
VAN DEN BRAND, Jeroen	H05K 9/00	(22) 26.02.2018
VAN DER WAAL, Adri	(11) EP3684152	(54) THREE-DIMENSIONAL MEMORY
RUBINGH, Jan-Eric Jack Martijn	(21) EP18877031.7	DEVICE HAVING A BURIED SOURCE
KUSTERS, Roel Henry Louis	(47) 26.07.2023	LINE EXTENDING TO SCRIBE LINE
DE KOK, Margaretha Maria	(87) KR2018009900	AND METHOD OF MAKING THEREOF
(31) 18209756	16.05.2019	(73) SanDisk Technologies LLC
(32) 03.12.2018	(22) 28.08.2018	(72) KASAGI, Yasuo
(33) European Patent Office (EPO)	(54) ELECTRONIC DEVICE COMPRISING	NARUSE, Kimiaki
(51) H05K 3/38	HEAT RADIATING STRUCTURE	NORIZUKI, Naoto
(11) EP3932154	(73) Samsung Electronics Co., Ltd.	SHIMIZU, Satoshi
(21) EP20706318.1	(72) KIM, Won-Min	OKIZUMI, Yasuchika
(47) 26.07.2023	KIM, Young-San	HIRAYAMA, Michiru
(87) EP2020055192	CHO, Chi-Hyun	(31) 201715720306
10.09.2020	JUNG, Chung-Hyo	201762521036 P
(22) 27.02.2020	KIM, Kang-Sik	(32) 29.09.2017
(54) METHOD FOR INCREASING	(31) 20170149637	16.06.2017
ADHESION STRENGTH BETWEEN A	(32) 10.11.2017	(33) United States of America
METAL AND AN ORGANIC MATERIAL	(33) Korea (Republic)	United States of America
(73) Atotech Deutschland GmbH	(51) H05K 13/04	(51) H10B 43/27
(72) CHO, Wonjin	H05K 13/08	H10B 43/10
XIAO, Ting	(11) EP3826448	(11) EP3642877
BELOVA-MAGRI, Valentina	(21) EP18926443.5	(21) EP18710614.1
KÖNIGSMANN, Tatjana	(47) 26.07.2023	(47) 26.07.2023
THOMAS, Thomas	(87) JP2018027281	(87) US2018019639
MICHALIK, Fabian	23.01.2020	27.12.2018
TANG, Felix	(22) 20.07.2018	(22) 26.02.2018
MERSCHKY, Michael	(54) COMPONENT MOUNTING MACHINE	(54) THREE-DIMENSIONAL MEMORY
(31) 19160357	(73) Fuji Corporation	DEVICE HAVING DISCRETE DIRECT
(32) 01.03.2019	(72) SENGA, Akihiro	SOURCE STRAP CONTACTS AND
(33) European Patent Office (EPO)	MIZUNO, Takayuki	METHOD OF MAKING THEREOF
(51) H05K 7/20	(51) H05K 13/04	(73) SanDisk Technologies LLC
(11) EP3695693	H05K 13/08	(72) MATSUMOTO, Kazuyo
(21) EP18780273.1		SHIMIZU, Satoshi

HADA, Tsuyoshi	02.07.2014	(54) DISPLAY PANEL WITH PIXEL
(31) 201715626444	12.05.2014	DEFINITION LAYER
(32) 19.06.2017	31.03.2014	(73) BOE Technology Group Co., Ltd.
(33) United States of America	(33) Korea (Republic)	(72) LI, Xuyuan
(51) H10B 63/00	Korea (Republic)	(31) 201410736128
(11) EP3895217	Korea (Republic)	(32) 04.12.2014
(21) EP19816748.8	Korea (Republic)	(33) China
(47) 26.07.2023	(51) H10K 50/13	(51) H10K 71/00
(87) EP2019084813	H10K 50/16	H10K 71/13
18.06.2020	H10K 101/25	H10K 50/842
(22) 12.12.2019	H10K 101/40	H10K 59/122
(54) THREE-DIMENSIONAL RESISTIVE	(11) EP3639308	H10K 59/173
MEMORY AND METHOD ALLOWING	(21) EP17825166.6	(11) EP3783682
SUCH A MEMORY TO BE OBTAINED	(47) 26.07.2023	(21) EP18915283.8
(73) Commissariat à l'Energie Atomique et	(87) EP2017082637	(47) 26.07.2023
aux Energies Alternatives	15.11.2018	(87) CN2018119333
(72) EL HAJJAM, Khalil	(22) 13.12.2017	24.10.2019
(31) 1872842	(54) ORGANIC ELECTROLUMINESCENT	(22) 05.12.2018
(32) 13.12.2018	DEVICE	(54) FABRICATION METHOD FOR
(33) France	(73) Samsung Display Co., Ltd.	ORGANIC ELECTROLUMINESCENT
(51) H10K 10/46	(72) PINGEL, Patrick	SUBSTRATE
H10K 85/10	LIAPTISIS, Georgios	(73) BOE Technology Group Co., Ltd.
(11) EP3346504	FLÜGGE, Harald	(72) SONG, Yingying
(21) EP16841977.8	VOLZ, Daniel	(31) 201810337854
(47) 26.07.2023	(31) 201715588961	(32) 16.04.2018
(87) JP2016075714	(32) 08.05.2017	(33) China
09.03.2017	(33) United States of America	(51) H10N 15/10
(22) 01.09.2016	(51) H10K 50/858	(11) EP3639306
(54) ORGANIC THIN-FILM TRANSISTOR	H10K 59/124	(21) EP18738159.5
MANUFACTURING METHOD,	(11) EP3640992	(47) 26.07.2023
ORGANIC SEMICONDUCTOR	(21) EP19201442.1	(87) US2018038052
COMPOSITION, ORGANIC	(47) 26.07.2023	20.12.2018
SEMICONDUCTOR FILM, AND	(22) 04.10.2019	(22) 18.06.2018
ORGANIC SEMICONDUCTOR FILM	(54) DISPLAY APPARATUS HAVING A	(54) METHOD OF MAKING
MANUFACTURING METHOD	LIGHT-EMITTING DEVICE	ELECTROCALORIC ARTICLES
(73) FUJIFILM Corporation	(73) LG Display Co., Ltd.	(73) Carrier Corporation
(72) YAMAMOTO, Yosuke	(72) LIM, Jung-Shik	(72) WALKER, Craig R.
WATANABE, Tetsuya	LEE, Min-Gyu	ANNAPRAGADA, Subramanyaravi
TAMAKUNI, Fumiko	KIM, Sun-Man	VERMA, Parmesh
GOTO, Takashi	(31) 20180123316	EASTMAN, Scott Alan
SHIGENOI, Yuta	(32) 16.10.2018	DARDONA, Sameh
TAKIZAWA, Hiroo	(33) Korea (Republic)	SCHMIDT, Wayne R.
(31) 2016052165	(51) H10K 59/121	XIE, Wei
2015173266	H10K 59/35	MANTESE, Joseph V.
(32) 16.03.2016	(11) EP3284105	CULP, Slade R.
02.09.2015	(21) EP15851607.0	(31) 201762521175 P
(33) Japan	(47) 26.07.2023	(32) 16.06.2017
Japan	(87) CN2015089928	(33) United States of America
(51) H10K 50/125	20.10.2016	(51) H10N 69/00
H10K 50/852	(22) 18.09.2015	B82Y 10/00
(11) EP2927983	(54) ORGANIC LIGHT-EMITTING DIODE	G06N 10/00
(21) EP15161618.2	ARRAY SUBSTRATE, METHOD OF	H01L 29/66
(47) 26.07.2023	MANUFACTURING THE SAME, AND	H01L 23/532
(22) 30.03.2015	RELATED DISPLAY APPARATUS	H01L 25/065
(54) WHITE ORGANIC LIGHT EMITTING	(73) BOE Technology Group Co., Ltd.	H10N 60/81
DEVICE	(72) WU, Chang Yen	H01L 23/44
(73) LG Display Co., Ltd.	HSIN, Lung Pao	H01L 23/498
(72) Song, Ki-Woog	(31) 201510173298	(11) EP3971982
Kim, Hyung June	(32) 13.04.2015	(21) EP21196606.4
Pieh, Sung Hoon	(33) China	(47) 26.07.2023
Kim, Tae Shick	(51) H10K 59/122	(22) 14.09.2021
Kam, Youn Seok	(11) EP3229285	(54) BIFUNCTIONAL ROUTING CHIP AND
Kim, Se Ung	(21) EP15831209.0	METHOD FOR MANUFACTURING
(31) 20150030633	(47) 26.07.2023	SAME
20140082617	(87) CN2015092262	(73) Commissariat à l'Energie Atomique et
20140056607	09.06.2016	aux Energies Alternatives
20140037728	(22) 20.10.2015	(72) THOMAS, Candice
(32) 04.03.2015		COUDRAIN, Perceval

CHARBONNIER, Jean

VINET, Maud

(31) 2009541

(32) 21.09.2020

(33) France

(51) H10N 69/00

B82Y 10/00

G06N 10/00

H10N 60/10

H10N 60/01

(11) EP4022682

(21) EP20804521.1

(47) 26.07.2023

(87) EP2020081647

20.05.2021

(22) 10.11.2020

(54) MAJORANA FERMION QUANTUM
COMPUTING DEVICES WITH CHARGE
SENSING FABRICATED WITH ION
IMPLANT METHODS

(73) International Business Machines
Corporation

(72) BEDELL, Stephen

LI, Ning

HART, Sean

GUMANN, Patryk

HOLMES, Steven

SADANA, Devendra

(31) 201916680078

(32) 11.11.2019

(33) United States of America

EP3

Voor Nederland verleende Europese octrooiën 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) A01C 1/00	STEVENS, Sean	Kiefer, Stefan
A01C 1/02	PALM, Noah W.	Heer, Jochen
A01H 1/04	MANZ, Markus, Gabriel	(74) ir. W.J.J.M. Kempes
G01N 1/04	STROWIG, Till	(31) 102017126425
G01N 1/28	FRLETA, Davor	(32) 10.11.2017
G01N 33/00	(74) dr. R.C. van Duijvenbode c.s.	(33) Germany
(11) EP3641522	(31) 201662287842 P	(47) 07.06.2023
(21) EP18819624.0	201562148667 P	(51) A01M 7/00
(22) 19.06.2018	201562146938 P	B05B 11/00
(54) AUTOMATED SYSTEMS FOR	(32) 27.01.2016	A01M 1/20
REMOVING TISSUE SAMPLES FROM	16.04.2015	B05B 9/08
SEEDS, AND RELATED METHODS	13.04.2015	(11) EP3893636
(73) Monsanto Technology LLC	(33) United States of America	(21) EP19842841.9
(72) DAYAWON, Michael Joseph	United States of America	(22) 09.12.2019
IM, Yang Ju	United States of America	(54) SPRAY GUN
FISCHER, William Michael	(47) 31.05.2023	(73) Cooperativa Sociale la Pieve - Societa'
WEIS, Matthew J.	(51) A01K 97/00	Cooperativa - Onlus
BROWN, Wayne	A01K 97/12	(72) PORTALE, Francesco
JENSEN, John Michael	(11) EP3498093	PORTALE, Salvatore
FINLEY, David W.	(21) EP18213022.9	BALDRATI, Idio
KOHNE, Jeffrey Lawrence	(22) 17.12.2018	(74) ir. A. Blokland c.s.
(74) ir. W.J.J.M. Kempes	(54) A FISHING APPLIANCE AND A	(31) 201800003915 U
(31) 201762523072 P	FISHING ACCESSORY	(32) 11.12.2018
(32) 21.06.2017	(73) Wolf International Limited	(33) Italy
(33) United States of America	(72) Fox, Clifford Royston	(47) 05.04.2023
(47) 14.06.2023	Coombes, Neil John	(51) A01N 1/02
(51) A01K 53/00	Fox, Richard Royston	(11) EP3565408
(11) EP4066633	(74) dr. R.C. van Duijvenbode c.s.	(21) EP18702748.7
(21) EP22161350.8	(31) 201721158	(22) 09.01.2018
(22) 10.03.2022	(32) 18.12.2017	(54) DEVICE AND PROCESS FOR
(54) FEED STATION FOR FLYING INSECTS	(33) United Kingdom	PRESERVING AT LEAST ONE HUMAN
(73) Denk Keramische Werkstätten e. K.	(47) 10.05.2023	OR ANIMAL TISSUE WITH A VIEW
(72) GALMARINI, Luca	(51) A01M 7/00	TO TRANSPLANTION OR EX-VIVO
DENK, Fabian	(11) EP3987928	EXPERIMENTATION
(74) ir. A. Blokland c.s.	(21) EP21401039.9	(73) Université de Franche-Comté
(31) 102021108352	(22) 11.10.2021	Tissueaegis
(32) 01.04.2021	(54) AGRICULTURAL DEVICE WITH A	(72) GHARBI, Tijani
(33) Germany	BOOM	(74) dr. R.C. van Duijvenbode c.s.
(47) 05.04.2023	(73) Amazonen-Werke H. Dreyer SE & Co.	(31) 1750180
(51) A01K 67/027	KG	(32) 09.01.2017
A01K 39/00	(72) GROSSE PRUES, Frank	(33) France
(11) EP3282835	(74) ir. W.J.J.M. Kempes	(47) 19.04.2023
(21) EP16720234.0	(31) 102020127684	(51) A01N 25/30
(22) 12.04.2016	(32) 21.10.2020	A01N 25/24
(54) HUMANIZED SIRPA-IL15 KNOCKIN	(33) Germany	A01N 57/20
MICE AND METHODS OF USE	(47) 07.06.2023	A01P 13/00
THEREOF	(51) A01M 7/00	(11) EP3032950
(73) Yale University	B05B 1/08	(21) EP14750909.5
Regeneron Pharmaceuticals, Inc.	B05B 12/06	(22) 29.07.2014
Institute for Research in Biomedicine	(11) EP3485729	(54) SPRAY DRIFT REDUCTION
(IRB)	(21) EP18401091.6	(73) Croda, Inc.
(72) MURPHY, Andrew J.	(22) 02.11.2018	(72) LINDNER, Gregory, James
DE ZOETE, Marcel	(54) METHOD FOR APPLYING A LIQUID TO	PENFIELD, Kevin, Wade
SHAN, Liang	BE SPRAYED ON AN AGRICULTURAL	(74) ir. W.J.J.M. Kempes
GURER, Cagan	AREA	(31) 201361865753 P
YANCOPOULOS, George D.	(73) Amazonen-Werke H. Dreyer SE & Co.	(32) 14.08.2013
HERNDLER-BRANDSTETTER, Dietmar	KG	(33) United States of America
FLAVELL, Richard A.	(72) Austermann, Stefan	(47) 31.05.2023
	Klemann, Timo	(51) A01N 25/30

A01N 57/20	(31) 18169351	(47) 31.05.2023
A01P 13/00	(32) 25.04.2018	(51) A24F 40/90
A01N 35/10	(33) European Patent Office (EPO)	H02J 7/00
A01N 25/02	(47) 07.06.2023	H02J 50/10
(11) EP3032951	(51) A24F 7/00	(11) EP3784080
(21) EP14750919.4	A61M 15/06	(21) EP19726499.7
(22) 30.07.2014	A61M 11/04	(22) 22.04.2019
(54) ADJUVANCY COMBINATION	A61M 15/00	(54) DROP-IN CHARGING SYSTEM FOR ELECTRIC AEROSOL-GENERATING DEVICES
(73) Croda, Inc.	(11) EP3945909	(73) Philip Morris Products S.A.
(72) LINDNER, Gregory, James	(21) EP20715085.5	(72) STEVENSON, Norman Andrew
(74) ir. W.J.J.M. Kempes	(22) 03.04.2020	CUCHET, Florent
(31) 201361865757 P	(54) MULTI-CHANNEL AND REVERSED AIRFLOW MOUTHPIECE FOR AN AEROSOL- GENERATING ARTICLE	NOLAN, Michael
(32) 14.08.2013	(73) Philip Morris Products, S.A.	BEVAN, Peter Joseph
(33) United States of America	(72) BATISTA, Rui Nuno	SLAMA, Philippe
(47) 31.05.2023	(74) dr. W.A.H.M. Van Borm	LYNCH, James Robert
(51) A23C 19/06	(31) 19166989	CHUNG, Kyungil
A23C 19/08	(32) 03.04.2019	(74) dr. W.A.H.M. Van Borm
A01J 25/00	(33) European Patent Office (EPO)	(31) 18168808
A23L 5/30	(47) 31.05.2023	(32) 23.04.2018
(11) EP3133930	(51) A24F 40/485	(33) European Patent Office (EPO)
(21) EP15782567.0	A24F 40/10	(47) 31.05.2023
(22) 21.04.2015	(11) EP3958697	(51) A24F 47/00
(54) USE OF ELECTROMAGNETIC ENERGY FOR MAKING PASTA FILATA CHEESE	(21) EP20720084.1	A61M 11/04
(73) Tetra Laval Holdings & Finance S.A.	(22) 24.04.2020	(11) EP3232833
(72) NELLES, Peter F.	(54) AEROSOL-GENERATING DEVICE WITH PROTECTED AIR INLET	(21) EP15807842.8
NESHEIM, Gary L.	(73) Philip Morris Products S.A.	(22) 04.12.2015
NESHEIM, Grant L.	(72) EMMETT, Robert	(54) A METHOD OF CONTROLLING AEROSOL PRODUCTION TO CONTROL AEROSOL PROPERTIES
(74) ir. W.J.J.M. Kempes	SAADE LATORRE, Eva	(73) Philip Morris Products S.A.
(31) 201461982013 P	(74) dr. W.A.H.M. Van Borm	(72) KUCZAJ, Arkadiusz
(32) 21.04.2014	(31) 19171003	(74) dr. W.A.H.M. Van Borm
(33) United States of America	(32) 25.04.2019	(31) 14198062
(47) 07.06.2023	(33) European Patent Office (EPO)	(32) 15.12.2014
(51) A23L 7/10	(47) 31.05.2023	(33) European Patent Office (EPO)
A23P 20/10	(51) A24F 40/50	(47) 07.06.2023
A23P 20/20	A24F 40/10	(51) A43B 3/10
A23G 3/48	(11) EP3826486	B33Y 80/00
A23G 3/34	(21) EP19742618.2	A43B 13/02
A21D 13/02	(22) 26.07.2019	A43B 1/00
(11) EP3435784	(54) AEROSOL-GENERATING DEVICE HAVING IMPROVED POWER SUPPLY CONTROLLER	(11) EP3752022
(21) EP17714763.4	(73) Philip Morris Products S.A.	(21) EP19710592.7
(22) 31.03.2017	(72) ZINOVIK, Ihar Nikolaevich	(22) 15.02.2019
(54) INGREDIENT FOR FOODSTUFFS	SILVESTRINI, Patrick Charles	(54) SANDAL HAVING RELEASABLE STRAP FASTENING
(73) Soci�t� des Produits Nestl� S.A.	(74) dr. W.A.H.M. Van Borm	(73) Reichard, Benno
(72) ABU-HARDAN, Madian Othman	(31) 18185888	(72) Reichard, Benno
CLARK, Benedict Timothy	(32) 26.07.2018	(74) ir. A. Blokland c.s.
JONES, Stuart David Hamer	(33) European Patent Office (EPO)	(31) 202018100824 U
MARION, Sophie	(47) 07.06.2023	(32) 15.02.2018
BONARIUS, Gijsbert Adriaan	(51) A24F 40/51	(33) Germany
CLEMENT, Patrick	A24F 40/20	(47) 05.04.2023
(74) dr. R.C. van Duijvenbode c.s.	(11) EP3958696	(51) A47C 21/00
(31) 16163531	(21) EP20719451.5	A47C 21/02
(32) 01.04.2016	(22) 22.04.2020	(11) EP2852304
(33) European Patent Office (EPO)	(54) AEROSOL-GENERATING DEVICE WITH PUFF DETECTION AND METHOD FOR PUFF DETECTION	(21) EP13729500.2
(47) 24.05.2023	(73) Philip Morris Products S.A.	(22) 17.05.2013
(51) A24F 1/30	(72) BUTIN, Yannick	(54) BED AND BEDCOVER
(11) EP3784068	RUSCIO, Dani	(73) Join4Care B.V.
(21) EP19727732.0	(74) dr. W.A.H.M. Van Borm	(72) BEUMER, Hendrikus Willem
(22) 24.04.2019	(31) 19170474	(74) ir. H.A. Witmans c.s.
(54) VENTILATION FOR SHISHA DEVICE	(32) 23.04.2019	(31) 2008850
(73) Philip Morris Products S.A.	(33) European Patent Office (EPO)	(32) 22.05.2012
(72) FERNANDO, Felix		(33) Netherlands
WILBY, Terence John		(47) 07.06.2023
CROSS, David		
SPARROW, Ian		
GONZALEZ FLOREZ, Ana Isabel		
(74) dr. W.A.H.M. Van Borm		

- | | | |
|--|--|--|
| <p>(51) A47J 27/62
G01K 7/04
H05B 3/68</p> <p>(11) EP3531881
(21) EP17865835.7
(22) 31.10.2017</p> <p>(54) ELECTRONIC TEMPERATURE CONTROL SYSTEM FOR A GRILL</p> <p>(73) Kenyon International, Inc.</p> <p>(72) REISCHMANN, Michael
WILLIAMS, Phillip</p> <p>(74) dr. ir. G.J.C. Verdijck c.s.
(31) 201715462400
201662415063 P</p> <p>(32) 17.03.2017
31.10.2016</p> <p>(33) United States of America
United States of America</p> <p>(47) 14.06.2023</p> <hr/> <p>(51) A47K 10/36</p> <p>(11) EP3895589
(21) EP21168456.8
(22) 14.04.2021</p> <p>(54) DISPENSING APPARATUS</p> <p>(73) KENNEDY HYGIENE PRODUCTS LTD</p> <p>(72) ANGEAR, Hugh
MACLEOD, William</p> <p>(74) ir. W.J.J.M. Kempes
(31) 202005502
(32) 15.04.2020</p> <p>(33) United Kingdom</p> <p>(47) 07.06.2023</p> <hr/> <p>(51) A47L 11/40
A47L 11/30
A47L 11/34</p> <p>(11) EP3967202
(21) EP21201167.0
(22) 07.01.2020</p> <p>(54) SURFACE CLEANING APPARATUS HAVING A FLUID DISTRIBUTOR</p> <p>(73) Bissell Inc.</p> <p>(72) Ran, JianPing
Wang, JingShan
Huang, YunMing</p> <p>(74) ir. H.A. Witmans c.s.
(31) 201962789038 P
(32) 07.01.2019</p> <p>(33) United States of America</p> <p>(47) 21.06.2023</p> <hr/> <p>(51) A61B 5/00
A61B 5/05</p> <p>(11) EP2844130
(21) EP13733053.6
(22) 02.05.2013</p> <p>(54) PATCHES FOR THE ATTACHMENT OF ELECTROMAGNETIC (EM) PROBES</p> <p>(73) Sensible Medical Innovations Ltd.</p> <p>(72) BERGIDA, Shlomi
SAROKA, Amir</p> <p>(74) ir. W.J.J.M. Kempes
(31) 201261641919 P
(32) 03.05.2012</p> <p>(33) United States of America</p> <p>(47) 19.04.2023</p> <hr/> <p>(51) A61B 5/00
A61B 5/107
A61B 5/0205
A61B 5/1455</p> | <p>(11) EP3641631
(21) EP18738176.9
(22) 19.06.2018</p> <p>(54) DEVICES AND METHODS FOR DETERMINING BLOOD FLOW AROUND A BODY LUMEN</p> <p>(73) Boston Scientific Scimed, Inc.</p> <p>(72) KALLUR, Namita, M.
WELDON, James
DUVAL, George, Wilfred
KO, Michael, Y.</p> <p>(74) ir. A.R. Aalbers
(31) 201762522168 P
(32) 20.06.2017</p> <p>(33) United States of America</p> <p>(47) 19.04.2023</p> <hr/> <p>(51) A61B 5/00
A61B 5/155
A61B 5/145</p> <p>(11) EP3831283
(21) EP21152231.3
(22) 11.12.2012</p> <p>(54) ANALYTE SENSOR DEVICES, CONNECTIONS, AND METHODS</p> <p>(73) Abbott Diabetes Care, Inc.</p> <p>(72) HOSS, Udo
PACE, Louis
CURRY, Samuel Mason
DONNAY, Manuel Luis Miguel
DIPALMA, Vincent Michael
MHATRE, Amit
OLSON, Jennifer
TAUB, Marc Barry
CARTER, Phillip William
ROBINSON, Peter</p> <p>(74) ir. F.A. Geurts c.s.
(31) 201161569287 P
(32) 11.12.2011</p> <p>(33) United States of America</p> <p>(47) 26.04.2023</p> <hr/> <p>(51) A61B 5/00
A61B 10/00
A61K 39/35</p> <p>(11) EP3258831
(21) EP16708098.5
(22) 22.02.2016</p> <p>(54) INFANT SKIN TEST DEVICE AND METHODS FOR USING SAME</p> <p>(73) Société des Produits Nestlé S.A.</p> <p>(72) BLANCHARD, Carine</p> <p>(74) dr. R.C. van Duijvenbode c.s.
(31) 201562118875 P
(32) 20.02.2015</p> <p>(33) United States of America</p> <p>(47) 24.05.2023</p> <hr/> <p>(51) A61B 5/02
A61B 6/00
A61B 5/00
A61B 5/026</p> <p>(11) EP3185763
(21) EP15757607.5
(22) 19.08.2015</p> <p>(54) SYSTEMS AND METHODS FOR AUTOMATICALLY DETERMINING MYOCARDIAL BRIDGING AND PATIENT IMPACT</p> <p>(73) HeartFlow, Inc.</p> <p>(72) TAYLOR, Charles A.</p> | <p>CHOI, Gilwoo</p> <p>(74) ir. W.J.J.M. Kempes
(31) 201414535755
201462043841 P</p> <p>(32) 07.11.2014
29.08.2014</p> <p>(33) United States of America
United States of America</p> <p>(47) 31.05.2023</p> <hr/> <p>(51) A61B 5/053
A61B 18/12</p> <p>(11) EP3824805
(21) EP20217359.7
(22) 06.05.2014</p> <p>(54) APPARATUS FOR TREATING A TUMOR WITH AN ALTERNATING ELECTRIC FIELD AND FOR SELECTING A TREATMENT FREQUENCY BASED ON ESTIMATED CELL SIZE</p> <p>(73) Novocure GmbH</p> <p>(72) PALTI, Yoram
DISHON, Matan</p> <p>(74) dr. R.C. van Duijvenbode c.s.
(31) 201361819717 P
(32) 06.05.2013</p> <p>(33) United States of America</p> <p>(47) 26.04.2023</p> <hr/> <p>(51) A61B 5/145
A61B 5/00</p> <p>(11) EP3030150
(21) EP14834640.6
(22) 07.08.2014</p> <p>(54) ANALYTE SENSOR TRANSCIEVER CONFIGURED TO PROVIDE TACTILE, AND OPTIONALLY VISUAL AND / OR AURAL, FEEDBACK</p> <p>(73) Senseonics, Incorporated</p> <p>(72) TANKIEWICZ, Szymon
WHITEHURST, Todd
DEHENNIS, Andrew
EMKEN, Jeremy</p> <p>(74) dr. A. Krebs
(31) 201361881679 P
201361865373 P
201361864174 P</p> <p>(32) 24.09.2013
13.08.2013
09.08.2013</p> <p>(33) United States of America
United States of America
United States of America</p> <p>(47) 21.06.2023</p> <hr/> <p>(51) A61B 5/1495
A61B 5/1459
A61B 5/145
G01N 1/28
A61B 5/1486</p> <p>(11) EP3397164
(21) EP16882674.1
(22) 29.12.2016</p> <p>(54) SYSTEM AND METHOD FOR FACTORY CALIBRATION OR REDUCED CALIBRATION OF AN INDWELLING SENSOR BASED ON SENSITIVITY PROFILE</p> <p>(73) Dexcom, Inc.</p> <p>(72) SIMPSON, Peter, C.
BHAVARAJU, Naresh, C.</p> |
|--|--|--|

VANSLYKE, Stephen, J. JACKSON, Jeff HAMILTON, Thomas, Stuart MA, Rui HUGHES, Jonathan LEE, David, I-chun (74) ir. W.J.J.M. Kempes (31) 201562272975 P (32) 30.12.2015 (33) United States of America (47) 17.05.2023	A61B 5/05 A61B 5/055 A61B 8/14 A61B 18/00 (11) EP3429476 (21) EP17767299.5 (22) 14.03.2017 (54) SHEAR WAVE GROUP VELOCITY ESTIMATION USING SPATIOTEMPORAL PEAKS AND AMPLITUDE THRESHOLDING (73) Mayo Foundation for Medical Education and Research (72) AMADOR CARRASCAL, Carolina URBAN, Matthew W. MANDUCA, Armando GREENLEAF, James F. CHEN, Shigao (74) dr. ir. G.J.C. Verdijk c.s. (31) 201662307764 P (32) 14.03.2016 (33) United States of America (47) 03.05.2023	(51) A61B 17/16 A61C 8/00 A61C 1/18 A61C 1/14 B33Y 80/00 (11) EP3815631 (21) EP20205554.7 (22) 03.11.2020 (54) SURGICAL DRILL BIT AND CORRESPONDING PRODUCTION METHOD (73) HPF S.R.L. (72) Lualdi, Gabriele (74) ir. H.A. Witmans c.s. (31) 201900020274 (32) 04.11.2019 (33) Italy (47) 05.04.2023
(51) A61B 6/00 G21K 1/02 H01J 35/10 H05G 1/02 H05G 1/30 H05G 1/34 H05G 1/36 (11) EP3777688 (21) EP20188941.7 (22) 31.07.2020 (54) X-RAY TUBE CONDITIONING (73) GE Precision Healthcare LLC (72) CROTTY, Dominic Joseph THIBAUT, Jean-Baptiste (74) dr. R.C. van Duijvenbode c.s. (31) 201916543474 (32) 16.08.2019 (33) United States of America (47) 07.06.2023	(73) Mayo Foundation for Medical Education and Research (72) AMADOR CARRASCAL, Carolina URBAN, Matthew W. MANDUCA, Armando GREENLEAF, James F. CHEN, Shigao (74) dr. ir. G.J.C. Verdijk c.s. (31) 201662307764 P (32) 14.03.2016 (33) United States of America (47) 03.05.2023	(73) HPF S.R.L. (72) Lualdi, Gabriele (74) ir. H.A. Witmans c.s. (31) 201900020274 (32) 04.11.2019 (33) Italy (47) 05.04.2023
(51) A61B 6/06 A61B 6/00 H01J 35/00 H05G 1/26 H05G 1/30 H05G 1/36 A61B 90/00 G21K 1/02 H01J 35/10 H05G 1/02 (11) EP3777692 (21) EP20188939.1 (22) 31.07.2020 (54) METHODS AND SYSTEMS FOR X-RAY TUBE CONDITIONING (73) GE Precision Healthcare LLC (72) THIBAUT, Jean-Baptiste HSIEH, Jiang STRONG, Gary (74) dr. R.C. van Duijvenbode c.s. (31) 201916543468 (32) 16.08.2019 (33) United States of America (47) 07.06.2023	(51) A61B 8/06 A61B 8/08 A61B 8/12 A61B 8/00 A61B 5/0215 (11) EP3457946 (21) EP17726453.8 (22) 18.05.2017 (54) POSITION SENSING IN INTRAVASCULAR PROCESSES (73) Acist Medical Systems, Inc. (72) MILLER, Edward R. NYSTROM, Sidney Donald WATERS, Kendall R. (74) ir. W.J.J.M. Kempes (31) 20166233885 P (32) 19.05.2016 (33) United States of America (47) 03.05.2023	(51) A61B 17/22 A61B 17/32 A61B 17/00 A61B 90/00 (11) EP3709905 (21) EP18801192.8 (22) 26.10.2018 (54) DEBRIS REMOVAL SYSTEM WITH AUTOMATED CLEARANCE OF LUMEN OBSTRUCTIONS (73) Boston Scientific Scimed, Inc. (72) PHELAN, Martin PEREIRA, Peter J. LAI, Vincent (74) ir. H.J.G. Lips c.s. (31) 201762586585 P (32) 15.11.2017 (33) United States of America (47) 03.05.2023
(51) A61B 6/10 G21F 7/00 (11) EP3922184 (21) EP20829765.5 (22) 26.04.2020 (54) SHIELDING DEVICE (73) Our United Corporation (72) CHEN, Fangzheng LI, Daliang (74) ir. W.J.J.M. Kempes (47) 19.04.2023	(51) A61B 8/06 A61B 8/12 A61B 8/00 A61B 17/34 A61B 10/02 A61B 17/3205 A61M 25/00 (11) EP3758612 (21) EP19735165.3 (22) 19.06.2019 (54) SHEATH FOR ENABLING NEEDLE EXCHANGE AND NEEDLE-SHARP SAFETY (73) Boston Scientific Scimed, Inc. (72) HARRIS, Colby JOHNSON, Austin G. O'SHAUGHNESSY, Seamus F. WALSH, Kevin PHILLIPS-HUNGERFORD, Molly DITULLIO, Jeremy LIEBERMAN, Nancy (74) ir. A.R. Aalbers (31) 201862687676 P (32) 20.06.2018 (33) United States of America (47) 19.04.2023	(51) A61B 17/24 A61F 2/18 A61F 5/08 A61M 25/04 A61M 37/00

A61B 17/34	F21V 11/04	(31) 102016124049
(11) EP3600087	F21V 13/10	(32) 12.12.2016
(21) EP18774787.8	A61B 17/02	(33) Germany
(22) 28.03.2018	F21V 33/00	(47) 10.05.2023
(54) NASAL DELIVERY TOOLS	A61B 17/00	(51) A61F 2/88
(73) Spirox, Inc.	F21K 9/65	A61F 2/915
(72) MIRIZZI, Michael S.	F21W 131/20	(11) EP3203943
SALINAS, Sergio	(11) EP3331469	(21) EP15791129.8
ROSENTHAL, Michael H.	(21) EP16832376.4	(22) 21.10.2015
DOMECUS, Brian J.	(22) 03.08.2016	(54) STENT WITH FLEXIBLE HINGE
BARON, Scott J.	(54) ILLUMINATING SURGICAL DEVICE	(73) Boston Scientific Scimed, Inc.
(74) J.M.H. Duyver lic.	(73) Illumix Surgical Canada Inc.	(72) WEINER, Jason
(31) 201762477829 P	(72) KUSTERS, Roel, H.	SEDDON, Dane T.
(32) 28.03.2017	HARKEMA, Stephen	FLEURY, Sean P.
(33) United States of America	DUGGAL, Anil	(74) ir. A.R. Aalbers
(47) 07.06.2023	DOBROVOLSKIS, Paul	(31) 201462067039 P
(51) A61B 17/88	SMITS, Edsger	(32) 22.10.2014
B05C 17/01	(74) ir. F.A. Geurts c.s.	(33) United States of America
A61B 90/00	(31) 201514819380	(47) 19.04.2023
(11) EP3773287	(32) 05.08.2015	(51) A61F 13/00
(21) EP19719747.8	(33) United States of America	A61N 5/00
(22) 11.04.2019	(47) 19.04.2023	A61F 7/00
(54) CURABLE MATERIAL DISPENSING SYSTEM	(51) A61C 5/64	A61F 7/02
(73) Stryker Corporation	A61J 1/06	A61N 5/06
(72) BROCKMAN, Christopher	A61M 5/24	(11) EP3846754
HARSHMAN, Gabriel	A61M 5/28	(21) EP19761894.5
(74) J.M.H. Duyver lic.	A61M 5/31	(22) 05.09.2019
(31) 201862656033 P	(11) EP3998984	(54) DEVICE FOR TREATING HERPES ILLNESSES
(32) 11.04.2018	(21) EP20740036.7	(73) Dermapharm AG
(33) United States of America	(22) 17.07.2020	(72) BÜNGER VON WURMB, Daniel
(47) 07.06.2023	(54) CARTRIDGE FOR DISPENSING A MATERIAL	(31) 18192693
(51) A61B 18/12	(73) Septodont ou Septodont SAS ou Specialites Septodont	18192698
A61B 18/00	(72) MARIE, Olivier	(32) 05.09.2018
A61B 18/14	CHABRIER, Olivier	05.09.2018
H02M 7/48	CO, Clémence	(33) European Patent Office (EPO)
(11) EP3750499	ARTAUD, Laurent	European Patent Office (EPO)
(21) EP20188552.2	RICHARD, Gilles	(47) 19.04.2023
(22) 21.10.2011	(31) 19187180	(51) A61F 13/476
(54) PROVIDING POWER FOR AN ELECTROSURGICAL INSTRUMENT	(32) 19.07.2019	A61F 13/56
(73) Bolder Surgical, LLC	(33) European Patent Office (EPO)	A61F 13/472
(72) Ross, David	(47) 12.04.2023	(11) EP3621571
(74) dr. A. Krebs	(51) A61C 8/00	(21) EP18732992.5
(31) 201113277979	(11) EP3886757	(22) 11.05.2018
40576110 P	(21) EP18711942.5	(54) FEMININE HYGIENE ARTICLE
(32) 20.10.2011	(22) 19.03.2018	(73) The Procter & Gamble Company
22.10.2010	(54) TWO-PART MODELLING AID	(72) LAVASH, Bruce William
(33) United States of America	(73) Straumann Holding AG	HEFELE, Rainer
United States of America	(72) WIESTLER, Isabell	VOHWINKEL, Henning
(47) 14.06.2023	PAPPAS, Christos	DOMEIERS, Wolfgang
(51) A61B 18/14	KERN, Philippe	WENDT, Holger
A61B 34/00	MARTIN, Boris	(74) ir. W.J.J.M. Kempes
A61B 17/29	(74) ir. H.A. Witmans c.s.	(31) 201762505152 P
A61B 90/00	(31) 17161892	(32) 12.05.2017
(11) EP3903710	(32) 20.03.2017	(33) United States of America
(21) EP20382338.0	(33) European Patent Office (EPO)	(47) 14.06.2023
(22) 27.04.2020	(47) 31.05.2023	(51) A61G 7/10
(54) SENSORY PERCEPTION SURGICAL SYSTEM FOR ROBOT-ASSISTED LAPAROSCOPIC SURGERY	(51) A61F 2/28	(11) EP3669849
(73) Rob Surgical Systems, SL	A61F 2/30	(21) EP19217746.7
(72) AMAT GIRBAU, Josep	(11) EP3538029	(22) 18.12.2019
(74) ir. W.J.J.M. Kempes	(21) EP17787164.7	(54) AID FOR PROPPING UP A PERSON
(47) 19.04.2023	(22) 19.10.2017	(73) Beka Hospitec GmbH
(51) A61B 90/30	(54) JOINT IMPLANT FOR NEW TISSUE FORMATION AT THE JOINT	(72) Tomczak, Matthias
F21K 9/60	(73) Karl, Christoph	(74) J.M.H. Duyver lic.
F21V 11/02	(72) Karl, Christoph	(31) 102018133234
	(74) ir. W.J.J.M. Kempes	(32) 20.12.2018
		(33) Germany

(47) 12.04.2023	(32) 05.04.2018	VARGAS CASTRILLÓN, Emilio
(51) A61K 8/04	(33) Greece	CALANDRIA PÉREZ, Carlos
A61Q 19/00	(47) 07.06.2023	(74) dr. A. Ellens c.s.
A61K 8/49	(51) A61K 9/127	(31) 19382583
A61K 9/00	A61K 9/19	(32) 09.07.2019
A61K 9/06	A61K 9/00	(33) European Patent Office (EPO)
A61K 33/06	A61K 38/17	(47) 28.06.2023
A61K 38/05	A61K 31/405	(51) A61K 31/27
A61P 21/00	A61K 31/519	A61K 45/06
A61K 8/19	A61K 31/573	A61K 31/4045
A61K 31/41	A61P 19/02	A61K 31/445
A61K 47/10	A61P 29/00	A61K 31/55
(11) EP3419588	(11) EP2854769	A61P 25/16
(21) EP17706899.6	(21) EP13813286.5	A61P 25/28
(22) 17.02.2017	(22) 05.07.2013	(11) EP3448430
(54) COMPOSITION FOR TOPICAL USE BASED ON A CARNOSINE-MAGNESIUM COMPLEX	(54) METHODS OF TREATING ARTHRITIS	(21) EP17719255.6
(73) Outplay Inc.	(73) Taiwan Liposome Company, Ltd.	(22) 25.04.2017
(72) FERRARI, Massimo	TLC Biopharmaceuticals, Inc.	(54) USE OF AN ACETYLCHOLINESTERASE INHIBITOR AND IDALOPIRDINE FOR REDUCING FALLS IN PARKINSON'S DISEASE PATIENTS
SHARPE, Tim	(72) CHANG, Po-Chun	(73) H. Lundbeck A/S
MACIAS, Chad	LIN, Hong-Hui	(72) SARTER, Martin
(74) dr. R.C. van Duijvenbode c.s.	HONG, Keelung	KUCINSKI, Aaron
(31) 201662383528 P	TSAI, Chih-Chiang	DE JONG, Inge, E, M
PCT/IB2016/050927	TSENG, Yun-Long	(74) J.M.H. Duyver lic.
(32) 05.09.2016	SHIH, Sheue-Fang	(31) 201600248
22.02.2016	GUO, Luke S.S.	(32) 26.04.2016
(33) United States of America	(74) dr. R.C. van Duijvenbode c.s.	(33) Denmark
World Intellectual Property Office (WIPO)	(31) 201361791650 P	(47) 07.06.2023
(47) 05.04.2023	201261668446 P	(51) A61K 31/439
(51) A61K 8/06	(32) 15.03.2013	A61P 31/04
A61K 8/37	05.07.2012	C07D 471/08
A61K 8/39	(33) United States of America	(11) EP4045040
A61K 8/49	United States of America	(21) EP20799842.8
(11) EP3643288	(47) 07.06.2023	(22) 18.10.2020
(21) EP19205505.1	(51) A61K 9/51	(54) NITROGEN CONTAINING BICYCLIC COMPOUNDS
(22) 25.10.2019	A61K 33/26	(73) Wockhardt Limited
(54) LIQUIDS HAVING OIL-IN-WATER SELF-EMULSIFYING PROPERTIES, COMPOSITIONS, USES AND METHODS RELATING TO SAME	(11) EP2777697	(72) CHAVAN, Rajesh
(73) Innovacos Corp.	(21) EP14160080.9	PATEL, Piyush Ambalal
(72) THIBODEAU, Alain	(22) 14.03.2014	MUNSHI, Zaki Ahmed Burhanuddin
USUELLI, Fabio	(54) Encapsulated metal ion nanoclusters	DESHMUKH, Vikas Vitthalrao
(31) 201862751043 P	(73) LG Bionano, LLC	TADIPARTHI, Ravikumar
(32) 26.10.2018	(72) Wu, Chien-Chin	JOSHI, Prashant Ratnakar
(33) United States of America	(74) J.M.H. Duyver lic.	BHUNIYA, Rajib
(47) 24.05.2023	(31) 201313833279	PATIL, Vijaykumar Jagdishwar
(51) A61K 9/08	(32) 15.03.2013	YEOLE, Ravindra Dattatraya
A61K 47/26	(33) United States of America	PATEL, Mahesh Vithalbhai
A61K 31/519	(47) 14.06.2023	TAKALKAR, Swapna Shripad
A61K 33/26	(51) A61K 31/192	(74) dr. R.C. van Duijvenbode c.s.
A61K 9/14	A61K 31/135	(31) 201921042452
(11) EP3549576	A61K 9/00	(32) 18.10.2019
(21) EP19386015.2	A61P 29/00	(33) India
(22) 22.03.2019	A61K 9/16	(47) 05.04.2023
(54) A PHARMACEUTICAL COMPOSITION FOR THE TREATMENT OF ANEMIA IN A SUITABLE CONTAINER, WHICH KEEPS THE ACTIVE INGREDIENTS SEPARATED IN A SEALED MANNER: THE FERRIC COMPLEX WITH N-ACETYL-L-ASPARTIC CASEIN AND CALCIUM FOLINATE PENTAHYDRATE	(11) EP3996699	(51) A61K 31/4439
(73) Tseti, Ioulia	(21) EP20740266.0	A61K 31/496
(72) Tseti, Ioulia	(22) 08.07.2020	A61K 31/506
(74) J.M.H. Duyver lic.	(54) COMBINATION OF IBUPROFEN AND TRAMADOL FOR RELIEVING PAIN	C07D 417/14
(31) 20180100151	(73) Farmalider, S.A.	(11) EP3638237
	(72) SANTÉ SERNA, Luis Narciso	(21) EP18817380.1
	SÁNCHEZ GARCÍA, Jose Angel	(22) 13.06.2018
	PORTOLÉS PÉREZ, Antonio	(54) AMINOTHIAZOLE COMPOUNDS AS PROTEIN KINASE INHIBITORS
	SANZ MENÉNDEZ, Nuria	(73) National Health Research Institutes
	HORCAJADA CÓRDOBA, Raquel	(72) SHIH, Chuan
	GARCÍA ALONSO, Fernando	TSAI, Hui-Jen
	MUÑOZ RUIZ, Ángel José	
	GÓMEZ CALVO, Antonia	
	VICARIO DE LA TORRE, Marta	
	DUART GONZALEZ, Ester	
	SALAS BUTRÓN, María del Rosario	

JIAANG, Weir-Torn	(74) ir. H.A. Witmans c.s.	(33) Israel
(74) ir. W.J.J.M. Kempes	(31) 20160055307	(47) 03.05.2023
(31) 201762518855 P	(32) 04.05.2016	(51) A61K 38/46
(32) 13.06.2017	(33) Korea (Republic)	A61K 31/366
(33) United States of America	(47) 03.05.2023	A61K 31/397
(47) 19.04.2023	(51) A61K 31/7048	A61K 31/135
(51) A61K 31/498	A61P 5/50	A61P 3/06
G01N 33/574	A61P 3/10	A01K 67/027
A61P 35/00	A61P 1/18	A61K 31/194
(11) EP3576740	A61K 31/045	C12N 9/20
(21) EP18702299.1	A61K 31/047	A61K 38/38
(22) 02.02.2018	A61K 31/353	A61P 1/00
(54) CANCER TREATMENT	A61K 31/428	A61P 1/16
(73) Janssen Pharmaceutica NV	A23L 33/10	A61P 3/00
(72) PEREZ RUIXO, Juan, Jose	(11) EP3378481	A61P 9/00
SIEFKER-RADTKE, Arlene, O.	(21) EP16865806.0	A61P 35/04
AVADHANI, Anjali, Narayan	(22) 21.11.2016	A61P 43/00
DE PORRE, Peter, Marie, Z.	(54) COMPOUND OR COMPOSITION	(11) EP3205351
STUYCKENS, Kim	FOR PREVENTING OR TREATING	(21) EP17158770.2
LORIOT, Yohann	PANCREAS FATTY INFILTRATION	(22) 23.04.2011
(74) ir. W.J.J.M. Kempes	(73) Jacob Biotechnology Ltd.	(54) LYSOSOMAL STORAGE DISEASE
(31) 201762455211 P	(72) HO, Hsin-Tien	ENZYME
17209098	TANG, Hsi-Hui	(73) Alexion Pharmaceuticals, Inc.
(32) 06.02.2017	HU, Oliver Yoa-Pu	(72) QUINN, Anthony
20.12.2017	WU, Yung-En	HARVEY, Alex
(33) United States of America	(74) ir. M.B. Plaggenborg	(74) ir. F.A. Geurts c.s.
European Patent Office (EPO)	(31) 201562257707 P	(31) 201161432372 P
(47) 14.06.2023	(32) 19.11.2015	456014 P
(51) A61K 31/5377	(33) United States of America	403011 P
A61K 31/4523	(47) 05.04.2023	396376 P
A61K 31/519	(51) A61K 38/08	343177 P
A61P 35/00	A61P 9/10	(32) 13.01.2011
(11) EP3618875	(11) EP3842056	29.10.2010
(21) EP18726224.1	(21) EP19797543.6	09.09.2010
(22) 30.04.2018	(22) 19.08.2019	26.05.2010
(54) COMBINATION THERAPY	(54) USE OF GHRP-6 AS LATE	23.04.2010
COMPRISING A RAF INHIBITOR AND	CARDIOPROTECTIVE AND CARDIAC	(33) United States of America
TRAMETINIB	RESTORATION MEDICAMENT	United States of America
(73) Novartis AG	(73) Centro De Ingeniería Genética Y	United States of America
(72) COOKE, Vesselina	Biotechnología	United States of America
(74) dr. R.C. van Duijvenbode c.s.	(72) GONZALEZ BLANCO, Sonia	United States of America
(31) 201862656423 P	GUILLÉN NIETO, Gerardo, Enrique	(47) 12.04.2023
201762500108 P	UBIETA GÓMEZ, Raimundo	(51) A61K 39/00
(32) 12.04.2018	BERLANGA ACOSTA, Jorge, Amador	C07K 16/30
02.05.2017	GARCIA DEL BARCO HERRERA, Diana	C07K 14/725
(33) United States of America	HERNÁNDEZ BERNAL, Francisco	C12N 5/10
United States of America	(74) ir. H.A. Witmans c.s.	C12N 5/0783
(47) 05.04.2023	(31) 20180093	A61K 35/17
(51) A61K 31/7004	(32) 21.08.2018	C12N 15/12
A61K 31/047	(33) Cuba	A61P 35/00
A61P 3/08	(47) 03.05.2023	C12N 15/62
A61P 3/10	(51) A61K 38/17	C07K 16/28
A23F 5/36	A61L 27/54	(11) EP3720883
A23F 5/42	C12N 5/077	(21) EP18886875.6
A23F 5/40	A61P 9/00	(22) 04.12.2018
A23L 2/60	(11) EP3368058	(54) T-CELLS COMPRISING ANTI-CD38
(11) EP3453262	(21) EP16794758.9	AND ANTI-CD138 CHIMERIC ANTIGEN
(21) EP17792923.9	(22) 27.10.2016	RECEPTORS AND USES THEREOF
(22) 04.05.2017	(54) A METHOD OF INDUCING	(73) The Medical Research, Infrastructure,
(54) HEALTH FUNCTIONAL FOOD	CARDIOMYOCYTES PROLIFERATION	And Health Services Fund Of The Tel
FOR INHIBITING RISE OF BLOOD	AND TREATING HEART DISEASES	Aviv Medical Center
GLUCOSE CONTAINING COFFEE AND	(73) Yeda Research and Development Co.,	Yeda Research and Development Co. Ltd
TAGATOSE	Ltd.	(72) WAKS, Tova
(73) Cj Cheiljedang Corporation	(72) TZAHOR, Eldad	GLOBERSON LEVIN, Anat
(72) PARK, Seung Won	BASSAT, Elad	ESHAR, Zelig
LEE, Young Mi	(74) ir. W.J.J.M. Kempes	RAWET SLOBODKIN, Moran
PARK, Byung Gyu	(31) 24238015	(74) ir. W.J.J.M. Kempes
KIM, Seong Bo	(32) 29.10.2015	(31) 201862667638 P

201762594577 P	(11) EP3912642	WILSON, David A.
(32) 07.05.2018	(21) EP21171679.0	FRANK, R. Keith
05.12.2017	(22) 23.10.2013	(74) dr. W.A.H.M. Van Borm
(33) United States of America	(54) MODIFIED ANTIBODY, ANTIBODY- CONJUGATE AND PROCESS FOR THE	(31) 201361887603 P
United States of America	PREPARATION THEREOF	(32) 07.10.2013
(47) 19.04.2023	(73) Synaffix B.V.	(33) United States of America
(51) A61K 39/12	(72) van Delft, Floris Louis	(47) 21.06.2023
C07K 14/005	van Geel, Remon	(51) A61L 27/22
C12N 15/86	Wijdeven, Maria Antonia	A61L 27/36
A61P 31/22	(74) dr. R.C. van Duijvenbode c.s.	(11) EP3651817
A61P 37/04	(31) 201261717187 P	(21) EP18745693.4
(11) EP3520813	13188607	(22) 13.07.2018
(21) EP18212078.2	12189604	(54) TISSUE SCAFFOLD
(22) 11.10.2011	(32) 23.10.2012	(73) Raft Enterprises Ltd.
(54) ANTIGEN DELIVERY PLATFORMS	14.10.2013	(72) SAWADKAR, Prasad
(73) GlaxoSmithKline Biologicals S.A.	23.10.2012	GARCÍA-GARETA, Elena
(72) MASON, Peter	(33) United States of America	(74) ir. H.A. Witmans c.s.
LOOMIS, Rebecca	European Patent Office (EPO)	(31) 201711360
FRANTI, Michael	European Patent Office (EPO)	(32) 14.07.2017
LILJA, Anders	(47) 12.04.2023	(33) United Kingdom
(74) ir. F.A. Geurts c.s.	(51) A61K 48/00	(47) 03.05.2023
(31) 39196010 P	(11) EP3261679	(51) A61L 29/04
(32) 11.10.2010	(21) EP16706413.8	A61L 29/14
(33) United States of America	(22) 19.02.2016	(11) EP3720516
(47) 19.04.2023	(54) GENE THERAPY TO IMPROVE VISION	(21) EP18829583.6
(51) A61K 47/10	(73) UCL Business Ltd	(22) 04.12.2018
A01N 25/00	(72) SMITH, Alexander	(54) URINARY CATHETERS INCLUDING
A61K 47/36	ALI, Robin	MECHANICAL PROPERTIES THAT
A61K 9/10	RIZZI, Matteo	ARE STABLE OVER A RANGE OF
(11) EP3648796	NISHIGUCHI, Koji	TEMPERATURES
(21) EP17745882.5	(74) dr. R.C. van Duijvenbode c.s.	(73) Hollister Incorporated
(22) 07.07.2017	(31) 201503008	(72) SELLERS, Brent, H.
(54) DISPERSION FOR AN AQUEOUS	(32) 23.02.2015	MONTES DE OCA BALDERAS, Horacio
SPRAY FORMULATION WITH	(33) United Kingdom	(74) ir. W.J.J.M. Kempes
CONTROLLED MECHANICAL	(47) 03.05.2023	(31) 201762594896 P
DEGRADATION	(51) A61K 48/00	(32) 05.12.2017
(73) GreenA B.V.	C12N 9/16	(33) United States of America
(72) BONN, Daniel	(11) EP3419672	(47) 07.06.2023
(74) ir. A. Blokland c.s.	(21) EP17707000.0	(51) A61M 1/06
(47) 05.04.2023	(22) 23.02.2017	(11) EP3836983
(51) A61K 47/54	(54) GENE THERAPY FOR THE	(21) EP19753086.8
A61K 31/7088	TREATMENT OF A RETINAL	(22) 13.08.2019
C07D 207/12	DEGENERATION DISEASE	(54) BABY BOTTLE WITH BOTTLE
C07H 1/00	(73) EyeServ GmbH	ATTACHMENT
C07H 15/26	(72) SEELIGER, Mathias	(73) Medela Holding AG
(11) EP2879718	BIEL, Martin	(72) RIGERT, Mario
(21) EP13748246.9	MICHALAKIS, Stylianos	THÜRING, Martin
(22) 06.08.2013	SCHOEN, Christian	FELBER, Armin
(54) PROCESSES FOR THE PREPARATION	(74) mr. ir. J. van Breda c.s.	(74) dr. R.C. van Duijvenbode c.s.
OF CARBOHYDRATE CONJUGATED	(31) 16156902	(31) 18189368
RNA AGENTS	(32) 23.02.2016	(32) 16.08.2018
(73) Alnylam Pharmaceuticals, Inc.	(33) European Patent Office (EPO)	(33) European Patent Office (EPO)
(72) KANDASAMY, Pachamuthu	(47) 26.04.2023	(47) 07.06.2023
JAYAPRAKASH, Narayanannair, K.	(51) A61K 51/04	(51) A61M 1/06
KELIN, Alexander, V.	A61P 7/00	(11) EP4066870
KALLANTHOTTATHIL, Rajeev, G.	A61P 19/00	(21) EP22174446.9
MANOHARAN, Muthiah	A61P 19/08	(22) 15.06.2018
(74) dr. W.A.H.M. Van Borm	A61P 29/00	(54) BREAST PUMP SYSTEM
(31) 201361794114 P	A61P 35/00	(73) Chiaro Technology Limited
201261680069 P	(11) EP3054996	(72) POOLE, Rebecca
(32) 15.03.2013	(21) EP14852866.4	O'TOOLE, Jonathan
06.08.2012	(22) 07.10.2014	PESTANA, Nestor
(33) United States of America	(54) PROCESS FOR PREPARING HIGH	COGGINS, Jack
United States of America	PURITY THERAPEUTIC BONE	ROSS, Clare
(47) 07.06.2023	AGENTS	ROLLO, Adam
(51) A61K 47/68	(73) IGL Pharma, Inc.	CARR, Andrew
A61P 15/00	(72) SIMON, Jaime	LEVY, Benjamin
A61P 35/00		(74) dr. R.C. van Duijvenbode c.s.

- | | | |
|---|---|---|
| <p>(31) 201809036
201709561
201709564
201709566</p> <p>(32) 01.06.2018
15.06.2017
15.06.2017
15.06.2017</p> <p>(33) United Kingdom
United Kingdom
United Kingdom
United Kingdom</p> <p>(47) 31.05.2023</p> <hr/> <p>(51) A61M 3/02</p> <p>(11) EP3166662</p> <p>(21) EP15739731.6</p> <p>(22) 07.07.2015</p> <p>(54) TRANS ANAL IRRIGATION PLATFORM WITH BED MODULE</p> <p>(73) Hollister Incorporated</p> <p>(72) CISKO, George J.
HENRY, Jerome A.
FOLEY, Adam J.
COLLUM, Stephen
SETH, Ruchi
ARNOLD, William K.
GAMBLIN, Denise
CULLUM, Malford E.</p> <p>(74) ir. W.J.J.M. Kempes</p> <p>(31) 201462022075 P
201462022051 P
PCT/US2014/053573</p> <p>(32) 08.07.2014
08.07.2014
29.08.2014</p> <p>(33) United States of America
United States of America
World Intellectual Property Office (WIPO)</p> <p>(47) 07.06.2023</p> <hr/> <p>(51) A61M 5/20</p> <p>A61F 9/00</p> <p>A61P 27/02</p> <p>A61P 27/06</p> <p>A61P 27/00</p> <p>A61P 31/00</p> <p>A61M 5/145</p> <p>A61M 5/168</p> <p>A61P 29/00</p> <p>(11) EP3349826</p> <p>(21) EP16766322.8</p> <p>(22) 16.09.2016</p> <p>(54) OPHTHALMIC INJECTION DEVICE</p> <p>(73) Oxular Limited</p> <p>(72) YAMAMOTO, Ronald K
BLEY, Robert Steven
CONSTON, Stanley R</p> <p>(74) dr. R.C. van Duijvenbode c.s.</p> <p>(31) 201562220165 P</p> <p>(32) 17.09.2015</p> <p>(33) United States of America</p> <p>(47) 12.04.2023</p> <hr/> <p>(51) A61M 5/315</p> <p>G01D 5/14</p> <p>G01R 33/02</p> <p>(11) EP3419699</p> <p>(21) EP15781720.6</p> <p>(22) 21.07.2015</p> | <p>(54) DOSE CONTROL SYSTEM FOR INJECTABLE-DRUG DELIVERY DEVICES AND ASSOCIATED METHODS OF USE</p> <p>(73) Biocorp Production S.A.</p> <p>(72) PEREIRA, Alexandre
MARCOZ, Alain
POLLARD, Mathieu
DIOGO, Sylvain
GILLET, Kévin
GOURBET, Patrice
JEZ, Emmanuel</p> <p>(74) ir. W.J.J.M. Kempes</p> <p>(47) 07.06.2023</p> <hr/> <p>(51) A61M 11/00</p> <p>A61M 15/00</p> <p>B05B 11/00</p> <p>(11) EP3655077</p> <p>(21) EP18749743.3</p> <p>(22) 23.07.2018</p> <p>(54) NEBULIZER AND CONTAINER</p> <p>(73) Boehringer Ingelheim International GmbH</p> <p>(72) GRAESSL, Herbert
KLADDERS, Heinrich
WUTTKE, Gilbert</p> <p>(74) ir. F.A. Geurts c.s.</p> <p>(31) PCT/EP2018/069833</p> <p>17020316</p> <p>(32) 20.07.2018
21.07.2017</p> <p>(33) World Intellectual Property Office (WIPO)
European Patent Office (EPO)</p> <p>(47) 19.04.2023</p> <hr/> <p>(51) A61M 16/12</p> <p>A61M 16/08</p> <p>A61K 33/00</p> <p>A61B 5/09</p> <p>(11) EP3452158</p> <p>(21) EP17714098.5</p> <p>(22) 15.03.2017</p> <p>(54) APPARATUS FOR HUMIDITY CONDITIONING SAMPLE GAS OF A PATIENT BREATHING CIRCUIT AFFILIATED WITH A VENTILATOR AND/OR NITRIC OXIDE DELIVERY SYSTEM</p> <p>(73) Mallinckrodt Pharmaceuticals Ireland Limited</p> <p>(72) STANTON, John, P.
BERNDT, John, V.</p> <p>(74) ir. A. Blokland c.s.</p> <p>(31) 201662331694 P</p> <p>(32) 04.05.2016</p> <p>(33) United States of America</p> <p>(47) 03.05.2023</p> <hr/> <p>(51) A61M 25/00</p> <p>A61M 25/06</p> <p>B29C 70/22</p> <p>(11) EP2999509</p> <p>(21) EP14734595.3</p> <p>(22) 19.05.2014</p> <p>(54) LARGE LUMEN GUIDE CATHETER</p> <p>(73) Cardinal Health 529, LLC</p> <p>(72) DIEP, Nhut
JONES, M. Scott
ROGERS, Paul P.</p> <p>(74) ir. H.A. Witmans c.s.</p> | <p>(31) 201361825481 P
201361825089 P</p> <p>(32) 20.05.2013
19.05.2013</p> <p>(33) United States of America
United States of America</p> <p>(47) 05.04.2023</p> <hr/> <p>(51) A61M 39/04</p> <p>A61M 39/26</p> <p>(11) EP3362134</p> <p>(21) EP16856415.1</p> <p>(22) 17.10.2016</p> <p>(54) SWABABLE VALVE WITH CURVILINEAR VALVE STEM</p> <p>(73) HALKEY-ROBERTS CORPORATION</p> <p>(72) ROGIER, Stephen, J.
dr. A. Krebs</p> <p>(31) 201562243036 P</p> <p>(32) 17.10.2015</p> <p>(33) United States of America</p> <p>(47) 19.04.2023</p> <hr/> <p>(51) A61M 39/14</p> <p>A61F 5/44</p> <p>A61M 39/10</p> <p>A61M 39/26</p> <p>F16L 37/32</p> <p>F16L 37/38</p> <p>F16L 37/46</p> <p>(11) EP3027266</p> <p>(21) EP14832568.1</p> <p>(22) 31.07.2014</p> <p>(54) SELF-CLOSING BAG CONNECTOR</p> <p>(73) ConvaTec Technologies Inc.</p> <p>(72) JIN, Yun
WEIG, Bret, Alexander
TSAI, Mingliang, Lawrence
CLINE, John</p> <p>(74) ir. H.J.G. Lips c.s.</p> <p>(31) 201461929923 P
201361861357 P</p> <p>(32) 21.01.2014
01.08.2013</p> <p>(33) United States of America
United States of America</p> <p>(47) 10.05.2023</p> <hr/> <p>(51) A61M 60/13</p> <p>A61M 60/139</p> <p>A61M 60/216</p> <p>A61M 60/416</p> <p>A61M 60/414</p> <p>A61M 60/531</p> <p>A61M 60/585</p> <p>A61M 60/804</p> <p>A61M 60/818</p> <p>A61M 60/833</p> <p>(11) EP3544649</p> <p>(21) EP17809394.4</p> <p>(22) 21.11.2017</p> <p>(54) BLOOD PUMPS</p> <p>(73) Magenta Medical Ltd.</p> <p>(72) LUBINSKY, Gad
SCHWAMMENTHAL, Ehud
TUVAL, Yosi
GLOZMAN, Daniel</p> <p>(74) ir. W.J.J.M. Kempes</p> <p>(31) 201662425814 P</p> <p>(32) 23.11.2016</p> <p>(33) United States of America</p> |
|---|---|---|

(47) 07.06.2023	(51) A63F 9/24	(72) HOSHINO, Tatsuya
(51) A62C 5/02	A63F 13/49	(74) ir. H.J.G. Lips c.s.
A62C 31/12	(11) EP2825271	(31) 202016846574
(11) EP3862055	(21) EP13761779.1	(32) 13.04.2020
(21) EP21155804.4	(22) 07.03.2013	(33) United States of America
(22) 08.02.2021	(54) SYSTEM AND METHOD FOR	(47) 14.06.2023
(54) FIRE EXTINGUISHING NOZZLE AND	CAPTURING AND SHARING CONSOLE	(51) B01F 23/41
FIRE EXTINGUISHER	GAMING DATA	B01F 23/451
(73) Uniteq S.A.	(73) Sony Computer Entertainment America	B01F 25/4314
(72) BOUZID, Hobalah	LLC	B01F 25/432
RACHIDI, Saïd	(72) GARY, Nathan	B01F 33/501
(74) ir. J.P.E. Brants	(74) ir. W.J.J.M. Kempes	(11) EP3733271
(31) 5013720 U	(31) 201213418691	(21) EP19171981.4
5002320 U	(32) 13.03.2012	(22) 30.04.2019
202005501	(33) United States of America	(54) MIXER WITH REST RESERVOIRS
202005077	(47) 03.05.2023	(73) Ritter GmbH
202020103898 U	(51) A63H 27/10	(72) Ritter, Frank
202020000557 U	(11) EP3725385	Finis, Frank
(32) 06.07.2020	(21) EP20164629.6	(74) ir. M.B. Plaggenborg
10.02.2020	(22) 20.03.2020	(47) 05.04.2023
06.07.2020	(54) NOZZLE FOR INFLATING A BALLOON	(51) B01J 13/06
10.02.2020	(73) Novacorp Inc.	C08L 61/28
06.07.2020	(72) Chang, Ming-Cheng	C08L 75/02
10.02.2020	(74) ir. F.A. Geurts c.s.	C08L 33/08
(33) Austria	(31) 108204586 U	C08L 33/26
Austria	108113088	C08L 5/00
Belgium	(32) 15.04.2019	B01J 13/14
Belgium	15.04.2019	A01N 25/28
Germany	(33) Taiwan, Chinese Taipei	D06M 23/12
Germany	Taiwan, Chinese Taipei	(11) EP3512625
(47) 12.04.2023	(47) 26.04.2023	(21) EP17851666.2
(51) A62D 1/02	(51) A63H 29/22	(22) 15.09.2017
A62C 5/02	A63H 3/50	(54) MICROCAPSULE COMPOSITIONS
(11) EP4032590	A63H 13/02	STABILIZED WITH VISCOSITY
(21) EP22152724.5	C08K 5/098	CONTROL AGENTS
(22) 21.01.2022	A63H 3/36	(73) International Flavors & Fragrances Inc.
(54) A FIRE EXTINGUISHING	A63H 3/00	(72) LEI, Yabin
FORMULATION WITH IMPROVED	(11) EP3785778	LEE, Hui Min
FOAMING	(21) EP19209108.0	LEE, Daniel Kaiping
(73) Uniteq S.A.	(22) 10.10.2016	POSTMA, Djurre Sibren
(72) BOUZID, Hobalah	(54) ASSEMBLY WITH OBJECT IN	(74) ir. W.J.J.M. Kempes
RACHIDI, Saïd	HOUSING AND MECHANISM TO OPEN	(31) 201662395586 P
(74) ir. J.P.E. Brants	HOUSING	(32) 16.09.2016
(31) 202105048	(73) Spin Master Ltd.	(33) United States of America
202021100301 U	(72) Lai, Victor	(47) 26.04.2023
2027370	Charbonneau, Anne N.	(51) B01J 20/32
(32) 22.01.2021	Hashemi, Hamid R.	C02F 1/68
22.01.2021	McDonald, David	C02F 101/20
22.01.2021	Pruzansky, Amy	(11) EP3946722
(33) Belgium	(74) ir. W.J.J.M. Kempes	(21) EP20714578.0
Germany	(31) 201615227740	(22) 25.03.2020
Netherlands	201615199341	(54) METHOD FOR RECOVERING
(47) 12.04.2023	201514884191	METAL IONS FROM INDUSTRIAL
(51) A63B 69/00	(32) 03.08.2016	WASTE WATER, AND THEREWITH
G06F 3/01	30.06.2016	ASSOCIATED USE OF A COMPLEXING
G09B 19/00	15.10.2015	AGENT
(11) EP3563911	(33) United States of America	(73) Helmholtz-Zentrum Dresden -
(21) EP17888695.8	United States of America	Rosendorf e.V.
(22) 10.11.2017	United States of America	(72) POLLMANN, Katrin
(54) OUTPUT CONTROL DEVICE, OUTPUT	(47) 19.04.2023	JAIN, Rohan
CONTROL METHOD, AND PROGRAM	(51) B01D 29/21	JOSHI, Tanmaya
(73) Sony Group Corporation	B01D 35/30	(31) 102019108803
(72) ITO, Osamu	(11) EP3895776	(32) 04.04.2019
(74) ir. W.J.J.M. Kempes	(21) EP21163505.7	(33) Germany
(31) 2016252665	(22) 18.03.2021	(47) 26.04.2023
(32) 27.12.2016	(54) ADAPTER FOR FILTER DEVICE AND	(51) B01J 21/06
(33) Japan	METHOD OF USE	B01J 21/08
(47) 14.06.2023	(73) Pall Corporation	B01J 23/52

B01J 21/16	(11) EP3342494	(54) CUTTING DEVICE AND
B01J 21/18	(21) EP16207599.8	MANUFACTURING APPARATUS
B01J 35/00	(22) 30.12.2016	COMPRISING SUCH A CUTTING
B01J 37/02	(54) METHOD AND DEVICE FOR FLEXIBLE	DEVICE
(11) EP2579981	ROLLING METAL STRIPS	(73) Yoshino Gypsum Co., Ltd.
(21) EP10798661.4	(73) Outokumpu Oyj	(72) YOSHIDA, Tsuyoshi
(22) 13.12.2010	(72) Zeidler, Andreas	NIIMI, Katsumi
(54) CATALYST COMPRISING PLATINUM	Piniek, Thorsten	TAKAHASHI, Masaaki
AND GOLD NANO-PARTICLES AND ITS	Schuberth, Stefan	USHIZAWA, Masaki
USE FOR OXIDATION OF GLUCOSE	(74) ir. W.J.J.M. Kempes	(74) dr. R.C. van Duijvenbode c.s.
(73) Archer-Daniels-Midland Company	(47) 07.06.2023	(31) 2016179922
(72) ZHU, Guang	(51) B25H 1/04	(32) 14.09.2016
SALEM, George Frederick	B25H 1/14	(33) Japan
ARCHER, Raymond	(11) EP3253535	(47) 21.06.2023
SHOEMAKER, James	(21) EP16705408.9	(51) B27L 7/00
MURPHY, Vincent J.	(22) 04.02.2016	(11) EP3995276
DIAS, Eric L.	(54) WORK AND STORAGE TABLE	(21) EP21020495.4
(74) J.M.H. Duyver lic.	(73) Affinity Tool Works LLC	(22) 04.10.2021
(31) 814188	(72) URSELL, Mike	(54) STANDING WOOD SPLITTER
(32) 11.06.2010	NEILSON, Ken	(73) Scheppach GmbH
(33) United States of America	URSELL, Sam	(72) Bauer, Reinhold
(47) 07.06.2023	URSELL, Connor	(31) 202020004589 U
(51) B05B 7/00	CROSS, Mark	(32) 02.11.2020
B05B 7/02	(74) P.J. Pollard B.Eng	(33) Germany
B05B 7/06	(31) 201562218174 P	(47) 03.05.2023
B05B 7/08	201562111724 P	(51) B28C 5/12
B05B 7/10	(32) 14.09.2015	B28C 5/40
(11) EP3277434	04.02.2015	C04B 28/06
(21) EP16773607.3	(33) United States of America	B01F 27/1121
(22) 27.01.2016	United States of America	B01F 27/192
(54) SPRAY GUN WITH AIR HALO NOZZLE	(47) 05.04.2023	B01F 27/2123
ASSEMBLY	(51) B25J 9/16	B01F 27/60
(73) Stolle Machinery Company, LLC	(11) EP3711908	(11) EP3600811
(72) HOGENKAMP, Andrew T.	(21) EP19195728.1	(21) EP18748936.4
ZIMMERMAN, Jeremiah R.	(22) 05.09.2019	(22) 08.08.2018
ZUMBERGER, Neil A.	(54) CALIBRATION DEVICE FOR ROBOT	(54) METHOD FOR APPLYING MINERAL
THOMAS, Michael A.	ARM	BINDER COMPOSITIONS CONTAINING
(74) dr. R.C. van Duijvenbode c.s.	(73) Delta Electronics, Inc.	FIBRES
(31) 201514674468	(72) LAI, Jian-Jang	(73) Sika Technology AG
(32) 31.03.2015	CHEN, Ko-Yueh	(72) BOURQUIN, Raphael
(33) United States of America	HSIAO, Yuan-Kun	LIARD, Maxime
(47) 24.05.2023	(74) ir. A.R. Aalbers	LOOTENS, Didier
(51) B07B 1/28	(31) 201910212670	(74) ir. W.J.J.M. Kempes
B07B 1/42	(32) 20.03.2019	(31) 17185657
(11) EP3725426	(33) China	(32) 09.08.2017
(21) EP18888894.5	(47) 19.04.2023	(33) European Patent Office (EPO)
(22) 12.12.2018	(51) B26B 19/10	(47) 19.04.2023
(54) VIBRATING SCREEN	(11) EP4069474	(51) B29B 17/02
(73) Metso Brasil Industria e Comercio Ltda	(21) EP20808144.8	B29L 31/00
(72) REZENDE JÚNIOR, Fausto	(22) 24.11.2020	(11) EP3792027
OGAWA, Ricardo, Maerschner	(54) A PERSONAL CARE DEVICE HAVING	(21) EP19196430.3
KATO, Sadao	A MAIN FUNCTIONAL UNIT AND AN	(22) 10.09.2019
(31) 102017026766	ANCILLARY FUNCTIONAL UNIT	(54) A TURF INFILL SEPARATION SYSTEM
(32) 12.12.2017	(73) Koninklijke Philips N.V.	AND METHOD FOR SEPARATING
(33) Brazil	(72) MEHENDALE, Aditya	A DRY OR DRIED INFILL SUCH AS
(47) 21.06.2023	NIJSSE, Gerard, Johannes, Pieter	FROM AN ARTIFICIAL TURF PRODUCT
(51) B07C 5/36	VAN ES, Michel	(73) Re-Match Holding A/S
(11) EP3424604	SOLERIO, Daniele	(72) Sørensen, Martin Welling
(21) EP18185570.1	(74) dr. R.C. van Duijvenbode c.s.	Damhus, Rasmus
(22) 19.07.2013	(31) 19213693	(47) 26.04.2023
(54) METHOD OF IN-LINE TESTING	(32) 04.12.2019	(51) B29C 43/34
DEVICES AND TESTING APPARATUS	(33) European Patent Office (EPO)	B29C 31/04
(73) Wilco AG	(47) 03.05.2023	B29C 48/00
(72) PRINZ, Heino	(51) B26D 7/18	B29C 48/21
(74) ir. J.C. Volmer c.s.	(11) EP3513935	B29C 43/20
(47) 26.04.2023	(21) EP17850628.3	B29C 43/08
(51) B21B 37/26	(22) 18.08.2017	B29K 101/12
B21B 37/38		B29L 31/56

(11) EP3628463	(47) 24.05.2023	(21) EP20195730.5
(21) EP19210316.6	(51) B29D 30/06	(22) 11.09.2020
(22) 07.10.2016	B29D 30/72	(54) EJECTION DEVICE
(54) AN APPARATUS AND A METHOD FOR PROCESSING DOSES	B60C 13/00	(73) NABTESCO CORPORATION
(73) SACMI COOPERATIVA MECCANICI IMOLA SOCIETA' COOPERATIVA	(11) EP3838573	(72) KIGAMI, Shogo
(72) PUCCI, Fabrizio	(21) EP20204262.8	SUZUKI, Takuya
PARRINELLO, Fiorenzo	(22) 28.10.2020	KINUGASA, Yuki
(74) dr. R.C. van Duijvenbode c.s.	(54) METHOD FOR PRODUCING AN ENGRAVING ON THE INNER SURFACE OF A MOULDING OF A VULCANISATION MOULD OF A PNEUMATIC VEHICLE TYRE	(74) dr. R.C. van Duijvenbode c.s.
(31) UB20154653	(73) Continental Reifen Deutschland GmbH	(31) 2019176659
(32) 14.10.2015	(72) Rittweger, Stefan	(32) 27.09.2019
(33) Italy	(74) ir. W.J.J.M. Kempes	(33) Japan
(47) 19.04.2023	(31) 102019219668	(47) 07.06.2023
(51) B29C 48/30	(32) 16.12.2019	(51) B41M 5/52
B29C 48/395	(33) Germany	B41M 5/42
B29C 48/92	(47) 19.04.2023	(11) EP3647068
B29C 48/05	(51) B32B 27/18	(21) EP18839250.0
(11) EP3705258	B32B 27/20	(22) 26.07.2018
(21) EP17930454.8	B32B 27/32	(54) THERMAL-TRANSFER IMAGE RECEIVING SHEET, AND METHOD FOR PRODUCING PRINTED MATTER
(22) 01.11.2017	B32B 27/00	(73) Dai Nippon Printing Co., Ltd.
(54) EXTRUDING MACHINE AND DIE OF EXTRUDING MACHINE	B32B 7/06	(72) AKIYAMA Yusaku
(73) The Japan Steel Works, Ltd.	B01D 53/26	MORI Shigeta
(72) HANDA, Kiyoshi	B32B 1/00	(74) ir. H.A. Witmans c.s.
TOJO, Makoto	B32B 5/16	(31) 2017147237
KAKIZAKI, Jun	B32B 7/12	(32) 28.07.2017
SHIMIZU, Yohei	B32B 25/04	(33) Japan
(74) ir. F.A. Geurts c.s.	B32B 25/16	(47) 14.06.2023
(47) 12.04.2023	B32B 27/08	(51) B60C 9/00
(51) B29C 64/153	B32B 27/14	B60C 9/22
B29C 64/371	B32B 27/16	D07B 1/06
B29C 64/245	B32B 27/30	B60C 9/20
B22F 10/322	B32B 27/36	(11) EP3837122
B22F 3/105	(11) EP3543009	(21) EP19749667.2
B22F 12/17	(21) EP17870935.8	(22) 29.07.2019
B22F 12/30	(22) 09.11.2017	(54) PNEUMATIC TIRE FOR A VEHICLE
B22F 12/70	(54) MULTILAYER PROTECTIVE FILM FOR WATER ABSORPTION	(73) Continental Reifen Deutschland GmbH
B33Y 10/00	(73) Toyo Seikan Group Holdings, Ltd.	(72) SCHUNACK, Michael
B33Y 30/00	(72) NANGOU, Shunya	KRAMER, Thomas
(11) EP3753706	OKUYAMA, Shinpei	MOURA, Tiago
(21) EP20167447.0	YAGISAWA, Misato	(74) ir. W.J.J.M. Kempes
(22) 31.03.2020	TAKAYAMA, Keisuke	(31) 102018213795
(54) METHOD AND DEVICE FOR CREATING A GAS STREAM DURING THE ADDITIVE MANUFACTURING OF A PRODUCT IN A POWDER BED	(74) dr. R.C. van Duijvenbode c.s.	(32) 16.08.2018
(73) Common Sense Engineering and Consult B.V.B.A.	(31) 2016225409	(33) Germany
(72) Mercelis, Peter	(32) 18.11.2016	(47) 19.04.2023
(31) 201905291	(33) Japan	(51) B60C 23/00
(32) 02.05.2019	(47) 07.06.2023	F16K 15/20
(33) Belgium	(51) B41F 27/00	(11) EP4010205
(47) 22.02.2023	(11) EP3932673	(21) EP20772199.4
(51) B29C 64/393	(21) EP20183763.0	(22) 06.08.2020
B29C 64/106	(22) 02.07.2020	(54) AUTOMATIC PRESSURE VALVE FOR INFLATION / DEFLATION OF A PNEUMATIC ARRANGEMENT
(11) EP3752339	(54) PRINTING PLATE, METHOD FOR DETECTING A POSITION OF A PRINTING PLATE, CONTROL UNIT FOR A SYSTEM FOR DETECTING A POSITION OF A PRINTING PLATE, SYSTEM FOR DETECTING A POSITION OF A PRINTING PLATE, AND COMPUTER PROGRAM	(73) Col-Ven S.A.
(21) EP19702151.2	(73) Bobst Bielefeld GmbH	(72) COLUSSI, Primo Antonio
(22) 04.01.2019	(72) OCHS, Rainer	VENICA, Natalio Domingo
(54) METHODS AND APPARATUS FOR THERMAL COMPENSATION DURING ADDITIVE MANUFACTURING	(74) ir. W.J.J.M. Kempes	(74) ir. W.J.J.M. Kempes
(73) Thermwood Corporation	(31) P190102248	(31) P190102248
(72) SUSNJARA, Kenneth, J.	(32) 07.08.2019	(32) 07.08.2019
(74) ir. W.J.J.M. Kempes	(33) Argentina	(33) Argentina
(31) 201815896372	(47) 19.04.2023	(47) 19.04.2023
(32) 14.02.2018	(51) B60J 1/06	(51) B60J 1/06
(33) United States of America	G09F 9/33	G09F 9/33
	G02B 27/01	G02B 27/01
	B32B 17/10	B32B 17/10
	(11) EP3463948	(11) EP3463948
	(21) EP17730851.7	(21) EP17730851.7
	(22) 17.05.2017	(22) 17.05.2017

(54) VEHICLE WINDSCREEN FOR HEAD-UP DISPLAY, VEHICLE INCORPORATING SAME AND MANUFACTURE THEREOF	(31) 102014015754 (32) 23.10.2014 (33) Germany (47) 07.06.2023	(22) 05.09.2014 (54) HYBRID ELECTRICAL VEHICLE AND METHOD FOR CRUISING CONTROL
(73) SAINT-GOBAIN GLASS FRANCE (72) BAUERLE, Pascal (74) ir. W.J.J.M. Kempes (31) 1654743 (32) 26.05.2016 (33) France (47) 24.05.2023	(51) B60Q 3/47 B61D 29/00 (11) EP3889000 (21) EP21160920.1 (22) 05.03.2021 (54) METHOD FOR OPERATING A LIGHT AND RAIL VEHICLE	(73) BYD Company Limited (72) WANG, Jinlong CHEN, Hao RUAN, Ou (74) ir. W.J.J.M. Kempes (31) 201310409703 (32) 09.09.2013 (33) China (47) 17.05.2023
(51) B60K 1/00 B60K 17/02 B60K 17/04 (11) EP3873756 (21) EP19801735.2 (22) 30.10.2019 (54) ELECTRIC DRIVE AXLE OF A VEHICLE	(73) Siemens Mobility GmbH (72) Schiefer, Benno (74) dr. R.C. van Duijvenbode c.s. (31) 102020204223 (32) 01.04.2020 (33) Germany (47) 26.04.2023	(51) B60W 30/14 B60W 50/08 B60W 50/14 (11) EP2883770 (21) EP14002668.3 (22) 31.07.2014 (54) METHOD FOR USE OF A SPEED CONTROL SYSTEM IN A VEHICLE
(73) ZF Friedrichshafen AG (72) FÜHRER, Kim WINKEL, Matthias RUIDER, Martin WINKLER, Johannes DEMNERER, Stephan (74) ir. W.J.J.M. Kempes (31) 102018218535 (32) 30.10.2018 (33) Germany (47) 19.04.2023	(51) B60R 9/06 B60R 9/10 (11) EP4116150 (21) EP21184014.5 (22) 06.07.2021 (54) LOAD CARRIER, SUCH AS A BIKE CARRIER	(73) MAN Truck & Bus SE (72) Hoffmann, Guido (74) ir. A. Blokland c.s. (31) 102013021006 (32) 13.12.2013 (33) Germany (47) 14.06.2023
(51) B60K 1/00 H02K 5/04 B60K 17/08 H02K 7/116 B60K 11/02 B60K 11/06 F16H 41/30 F16H 57/04 (11) EP3750729 (21) EP19750537.3 (22) 29.01.2019 (54) POWER ASSEMBLY AND VEHICLE PROVIDED WITH SAME	(73) Thule Sweden AB (72) FERMAN, Magnus ERIKSSON, Henrik MASCARENHAS, Rainer NILVIUS, Anders KLASSON, David GRANSMARK, Arvid LARSSON, Johan LARSSON, Fredrik ULVEGARD, Hannes JÖNSSON, Tobias HELMERSSON, Simon ROSENQVIST, Klara LINDBERG, Jesper RINGDAHL, Jonas GEJERVALL, Ulrik OLAISON, Hannes NORDSTRÖM, Simon (74) ir. W.J.J.M. Kempes (47) 31.05.2023	(51) B61D 17/10 (11) EP3712030 (21) EP19305325.3 (22) 18.03.2019 (54) RAILWAY VEHICLE WITH ADJUSTABLE FLOOR HEIGHT
(73) BYD Company Limited (72) LIU, Chunlei JING, Shuanghong CHEN, Guangquan CHEN, Daqi (74) ir. W.J.J.M. Kempes (31) 201810146303 201820254888 U (32) 12.02.2018 12.02.2018 (33) China China (47) 07.06.2023	(54) LOAD CARRIER, SUCH AS A BIKE CARRIER	(73) ALSTOM Transport Technologies (72) SCHLORFF, Winfried BOOS, Michael BRUEGGEMANN, Achim BRENDL, Siegfried (74) ir. W.J.J.M. Kempes (47) 03.05.2023
(51) B60Q 1/52 B60Q 5/00 B60Q 1/22 (11) EP3012153 (21) EP15001865.3 (22) 24.06.2015 (54) REVERSING WARNING SYSTEM FOR ADAPTIVE CONTROL OF REVERSING WARNING ALARM	(51) B60R 16/03 (11) EP3964403 (21) EP21192266.1 (22) 20.08.2021 (54) METHOD AND CONTROL DEVICE FOR REDUCING OPERATING HOURS OF ELECTRICAL CONSUMERS OF AN ON-BOARD NETWORK	(51) B62B 7/00 B62B 7/06 B62B 7/08 B62B 9/24 (11) EP3444165 (21) EP16898497.9 (22) 28.11.2016 (54) TWO-PERSON PUSHCHAIR
(73) MAN Truck & Bus SE (72) Vidi, Juliano Brüchner, Nathan (74) ir. A. Blokland c.s.	(73) MAN Truck & Bus SE (72) Braun, Reimar (74) ir. A. Blokland c.s. (31) 102020123044 (32) 03.09.2020 (33) Germany (47) 14.06.2023	(73) Goodbaby Child Products Co., Ltd. (72) HE, Xinjun MA, Fusheng (74) ir. A.R. Aalbers (31) 201610220166 (32) 11.04.2016 (33) China (47) 07.06.2023
(51) B60W 20/10 B60W 20/40 B60W 30/14 B60W 10/08 B60W 10/06 B60K 6/48 (11) EP3044059 (21) EP14842364.3	(51) B60W 20/10 B60W 20/40 B60W 30/14 B60W 10/08 B60W 10/06 B60K 6/48 (11) EP3044059 (21) EP14842364.3	(51) B63B 11/04 B63B 35/44 B63B 1/10 B63B 39/03 B63B 5/20 (11) EP3615410 (21) EP18719192.9 (22) 26.04.2018 (54) SEMI-SUBMERSIBLE FLOAT, IN PARTICULAR FOR A WIND TURBINE

MOIRET, Cyrille	(32) 15.01.2019	(11) EP3784578
GRIGNOUX, Joël	(33) India	(21) EP19716925.3
(74) dr. R.C. van Duijvenbode c.s.	(47) 26.04.2023	(22) 16.04.2019
(31) 1753697	(51) B64F 1/36	(54) CONTAINER GRIP PORTION WITH REINFORCING RIBS
(32) 27.04.2017	B65G 7/08	(73) Société des Produits Nestlé S.A.
(33) France	B65G 47/248	(72) DABROWSKI, Nicolas
(47) 26.04.2023	B65G 47/53	TENIERE, Vincent
(51) B63B 27/36	B65G 15/44	(74) dr. R.C. van Duijvenbode c.s.
B63B 27/16	(11) EP3992090	(31) 18169431
B63B 21/04	(21) EP20204037.4	(32) 26.04.2018
(11) EP3365224	(22) 27.10.2020	(33) European Patent Office (EPO)
(21) EP16808818.5	(54) BAGGAGE CONVEYOR SYSTEM AND METHOD FOR FILLING A LUGGAGE	(47) 03.05.2023
(22) 19.10.2016	CAROUSEL OF A BAGGAGE	(51) B65D 1/22
(54) SYSTEM AND METHOD FOR LAUNCH AND RECOVERY OF A MARINE VESSEL	CONVEYOR SYSTEM WITH BAGGAGE ITEMS	B65D 21/06
(73) SEALARTEC Ltd.	(73) Siemens Logistics GmbH	B65D 77/04
(72) Cohen, Alon	(72) MUECK, Bengt	(11) EP3710365
Peleg, Amitay	KLOSSEK, Andreas	(21) EP17797934.1
(74) ir. W.J.J.M. Kempes	(74) dr. R.C. van Duijvenbode c.s.	(22) 14.11.2017
(31) 24222615	(47) 31.05.2023	(54) EXPANDABLE CONTAINER AND SYSTEM COMPRISING SUCH A CONTAINER
201662293361 P	(51) B64G 1/00	(73) Schoeller Allibert GmbH
(32) 22.10.2015	B64G 1/10	Alert Innovation
10.02.2016	B64G 1/22	(72) FOSNIGHT, William
(33) Israel	B64G 1/40	DYER, John
United States of America	B64G 1/64	SWARTZ, Dennis
(47) 26.04.2023	B64G 1/24	(74) J.M.H. Duyver lic.
(51) B63B 35/58	B64G 1/26	(47) 19.04.2023
B63B 35/44	B64G 1/28	(51) B65D 5/60
B63B 35/38	B64G 1/36	B31B 120/40
B63B 7/02	B64G 1/54	B31B 105/00
B63B 5/24	B64G 1/62	(11) EP3619123
B63J 1/00	B64G 1/68	(21) EP18722501.6
B63J 4/00	(11) EP3681804	(22) 03.05.2018
(11) EP3978350	(21) EP18853997.7	(54) PACKAGING SYSTEM COMPRISING A FIBER MOLDING AND METHOD OF PRODUCING A PACKAGING
(21) EP21192735.5	(22) 10.09.2018	(73) GEA Food Solutions Germany GmbH
(22) 24.08.2021	(54) SYSTEMS AND METHODS FOR DELIVERING, STORING, AND PROCESSING MATERIALS IN SPACE	Ende, Klaus D.
(54) PROCEDURE FOR THE CONSTRUCTION OF A FLOATING HOME AND RELATIVE FLOATING HOME	(73) Orbit Fab, Inc.	(72) DONGES, Hans-Günter
(73) Angeli, Omar	(72) FABER, Daniel	ENDE, Klaus D.
(72) Angeli, Omar	(74) ir. H.A. Witmans c.s.	(74) ir. W.J.J.M. Kempes
(74) J.M.H. Duyver lic.	(31) 201862614835 P	(31) 102017207409
(31) 202000021193	201762595238 P	(32) 03.05.2017
(32) 08.09.2020	201762556468 P	(33) Germany
(33) Italy	(32) 08.01.2018	(47) 05.04.2023
(47) 12.04.2023	06.12.2017	(51) B65D 8/00
(51) B64C 39/02	10.09.2017	B65D 65/46
G01N 21/55	(33) United States of America	B65D 77/20
G01N 21/84	United States of America	(11) EP3766793
G01N 33/00	United States of America	(21) EP20182903.3
G06G 7/48	(47) 14.06.2023	(22) 29.06.2020
G06T 7/11	(51) B65D 1/02	(54) PROCESS FOR THE MANUFACTURE OF FOOD PACKAGES
G06T 7/00	(11) EP3638592	(73) Dieckelmann, Roland
(11) EP3911570	(21) EP18728192.8	(72) Dieckelmann, Roland
(21) EP20740850.1	(22) 07.06.2018	(74) ir. A. Blokland c.s.
(22) 15.01.2020	(54) CONTAINER BOTTOM BASE PROVIDED WITH A BI-CONCAVE ARCH	(31) 202019103880 U
(54) METHOD AND SYSTEM FOR PLANT HEALTH ESTIMATION	(73) Société des Produits Nestlé S.A.	(32) 15.07.2019
(73) Tata Consultancy Services Limited	(72) DABROWSKI, Nicolas	(33) Germany
(72) KIMBAHUNE, Sanjay	TENIERE, Vincent	(47) 12.04.2023
SARANGI, Sanat	(74) dr. R.C. van Duijvenbode c.s.	(51) B65D 19/32
MOHITE, Jayantrao	(31) 17175542	(11) EP3640152
SINGH, Dineshkumar	(32) 12.06.2017	(21) EP18817162.3
PAPPULA, Srinivasu	(33) European Patent Office (EPO)	(22) 14.06.2018
(74) dr. ir. G.J.C. Verdijck c.s.	(47) 24.05.2023	(54) DETACHABLE PALLET
(31) 201921001768	(51) B65D 1/02	(73) LOGICPALET WORLD, S.L.

(72) MARCONEL CARPIO, Jose Luis GARCIA GUILLEN, Tomas Andres	(21) EP21210231.3	14.11.2016
(74) dr. ir. G.J.C. Verdijck c.s.	(22) 24.11.2021	(33) United States of America
(31) 201830576	(54) MOTORIZED TRANSFER APPARATUS FOR CONVEYORS OF BULK OBJECTS	United States of America
201730799	(73) Movex S.p.A.	(47) 14.06.2023
(32) 13.06.2018	(72) MARSETTI, Matteo	(51) B66C 23/80
14.06.2017	MARSETTI, Sergio	(11) EP4001199
(33) Spain	(74) ir. H.A. Witmans c.s.	(21) EP21156523.9
Spain	(31) 202100001676	(22) 11.02.2021
(47) 12.04.2023	(32) 28.01.2021	(54) OUTRIGGER EXTEND-RETRACT SYSTEM CAPABLE OF HORIZONTALLY EXTENDING WITH THREE SEGMENTS
(51) B65D 41/04	(33) Italy	(73) Erkin Ismakinalari Insaat Sanayi Ithalat Ihracat Ticaret Pazarlama Limited Sirketi
C08F 210/06	(47) 10.05.2023	(72) ERKIN, BAHTIYAR
B29C 45/56	(51) B65G 43/10	(74) dr. R.C. van Duijvenbode c.s.
B29C 43/00	B65G 13/11	(31) 202018355
(11) EP3826933	(11) EP3753873	(32) 17.11.2020
(21) EP19761938.0	(21) EP20186641.5	(33) Türkiye
(22) 24.07.2019	(22) 10.10.2014	(47) 31.05.2023
(54) TERPOLYMERS FOR CAPS AND CLOSURES	(54) TRANSPORT DEVICE	(51) B67B 1/00
(73) Braskem S.A.	(73) TGW Mechanics GmbH	B67C 3/24
(72) RUIZ, Francisco Carlos	(72) REISCHL, Josef	B67B 3/00
(74) ir. W.J.J.M. Kempes	(74) J.M.H. Duyver lic.	B65G 54/02
(31) 201862702589 P	(31) 506542013	B65B 7/28
(32) 24.07.2018	(32) 11.10.2013	(11) EP3509979
(33) United States of America	(33) Austria	(21) EP17772172.7
(47) 05.04.2023	(47) 05.04.2023	(22) 08.09.2017
(51) B65D 45/32	(51) B65H 19/28	(54) SYSTEM AND METHOD FOR INDEPENDENTLY ROUTING VEHICLES AND DELIVERING CONTAINERS AND CLOSURES TO UNIT OPERATION STATIONS
(11) EP3728058	B65H 19/22	(73) The Procter & Gamble Company
(21) EP18890674.7	(11) EP3536643	(72) FIKES, Elizabeth, Marie LYMAN, Christopher, Robert ORNDORFF, Jason, Matthew ROYCE, Daniel, Richard MOORE, Nathan E. BURKHARD, Ryan, Andrew
(22) 05.10.2018	(21) EP19157709.7	(74) ir. W.J.J.M. Kempes
(54) CONTAINER WITH SEALABLE LID AND METHOD FOR ASSEMBLING A LID	(22) 18.02.2019	(31) 201662385295 P
(73) Helen of Troy Limited	(54) TURRET COILING MACHINE WITH ELECTROSTATIC FIXING OF THE BEGINNING OF THE WEB	(32) 09.09.2016
(72) MATSUMOTO, Tamotsu	(73) Dettke, Hubertus	(33) United States of America
PENTELOVITCH, Noah, Ziman	Dettke, Christoph	(47) 14.06.2023
KIDA, Makiko	Dettke, Christa	(51) B67D 7/42
NAGATA, Yoshinori	(72) Dettke, Christa	G09F 3/08
OGASAWARA, Nobuyuki	Dettke, Christoph	(11) EP3202706
MCNAMARA, Conor, Patrick	Dettke, Hubertus	(21) EP16154398.8
(74) ir. A.R. Aalbers	(74) ir. A. Blokland c.s.	(22) 05.02.2016
(31) 201715850305	(31) 202018101356 U	(54) ASSEMBLY, MARKING TAB AND USE OF A MARKING TAB FOR MARKING A NOZZLE
(32) 21.12.2017	(32) 09.03.2018	(73) ELAFLEX HIBY GmbH & Co. KG
(33) United States of America	(33) Germany	(72) KUNTER, Stefan
(47) 19.04.2023	(47) 19.04.2023	(74) J.M.H. Duyver lic.
(51) B65D 83/20	(51) B66C 15/06	(47) 26.04.2023
B65D 83/24	B66F 11/04	(51) C03B 5/00
B65D 83/32	B66F 17/00	B09B 3/00
B65D 83/38	G08B 21/02	C03C 1/00
B65D 83/62	(11) EP3538471	C03B 1/02
B65D 83/48	(21) EP17868779.4	B09B 3/29
B65D 83/42	(22) 14.11.2017	B09B 3/40
B65D 83/14	(54) MOBILE WORK PLATFORM, LAND VEHICLE COMPRISING SUCH MOBILE WORK PLATFORM AND METHOD OF USING SUCH MOBILE WORK PLATFORM	B09B 101/30
(11) EP3583051	(73) Terex South Dakota, Inc.	B09B 3/087
(21) EP18706828.3	(72) KOROLEV, Denis	C03C 13/06
(22) 15.02.2018	HAILEY, Adam	(11) EP3994102
(54) VALVE HOLDING DEVICE	HIERONYMUS, Greg	(21) EP19737079.4
(73) Inospray	ELY, Mitch	(22) 05.07.2019
(72) DE MAILLARD, Thibault	HISLOP, Chad	
BEURCQ, Jean-Luc	WICKLUND, Chad	
(74) ir. F.A. Geurts c.s.	WELLS, Dax	
(31) 1751338	(74) ir. A. Blokland c.s.	
(32) 20.02.2017	(31) 201715808257	
(33) France	201662421537 P	
(47) 05.04.2023	(32) 09.11.2017	
(51) B65G 23/06		
B65G 17/08		
B65G 47/66		
(11) EP4036038		

(54) AN ARRANGEMENT FOR AND A METHOD OF RECYCLING MINERAL WOOL WASTE	A61K 47/02 A61P 27/02 (11) EP3722274	(73) Adamed Pharma S.A. (72) KOLACZKOWSKI, Marcin MARCINKOWSKA, Monika BUCKI, Adam SNIECIKOWSKA, Joanna
(73) Sumitomo SHI FW Energia Oy	(21) EP20172665.0	
(72) SLOTTE, Martin	(22) 29.09.2016	
(74) dr. R.C. van Duijvenbode c.s.	(54) 2-PERFLUOROBUTYL PENTANE FOR OPHTHALMIC ADMINISTRATION	(74) ir. W.J.J.M. Kempes
(47) 19.04.2023		(31) 18461519
(51) C03C 1/02	(73) Novaliq GmbH	(32) 21.02.2018
C03C 3/087	(72) LÖSCHER, Frank	(33) European Patent Office (EPO)
C03B 1/02	SCHERER, Dieter	(47) 14.06.2023
(11) EP2969983	GRILLENBERGER, Ralf	(51) C07D 307/14
(21) EP14712489.5	VOSS, Hartmut	C07B 61/00
(22) 06.03.2014	(74) ir. W.J.J.M. Kempes	(11) EP3696172
(54) GLASS BATCH MATERIALS HAVING A CORE-SHELL STRUCTURE	(31) 15192429	(21) EP18866438.7
(73) Owens-Brockway Glass Container Inc.	15187760	(22) 10.10.2018
(72) ZAMBRANO BECERRA, Melisa, Y.	(32) 30.10.2015	(54) METHOD FOR PRODUCING 2,5-BIS (AMINOMETHYL) TETRAHYDROFURAN
MASTEK, Witold, W.	30.09.2015	(73) Mitsubishi Gas Chemical Company, Inc.
SUNDARARAJAN, Desikan	(33) European Patent Office (EPO)	(72) KIRINO Tomoaki
CLARK, Terence, J.	European Patent Office (EPO)	ASAI Ryo
(74) ir. W.J.J.M. Kempes	(47) 07.06.2023	(74) dr. R.C. van Duijvenbode c.s.
(31) 201313837962	(51) C07D 207/38	(31) 2017197724
(32) 15.03.2013	A61P 31/12	(32) 11.10.2017
(33) United States of America	A61P 37/04	(33) Japan
(47) 14.06.2023	C07D 237/14	(47) 31.05.2023
(51) C03C 13/00	C07D 307/60	(51) C07D 403/12
C03C 3/095	C07D 307/66	A61K 51/04
(11) EP3424889	C12N 5/00	A61P 35/00
(21) EP16779482.5	C12N 5/07	C07D 257/02
(22) 07.03.2016	A61K 31/4015	(11) EP3778592
(54) HIGH MODULUS GLASS FIBRE COMPOSITION, AND GLASS FIBRE AND COMPOSITE MATERIAL THEREOF	A61K 31/402	(21) EP19775196.9
(73) Jushi Group Co., Ltd.	(11) EP3250550	(22) 29.03.2019
(72) XING, Wenzhong	(21) EP16742609.7	(54) PSMA-TARGETED RADIOPHARMACEUTICAL FOR DIAGNOSING AND TREATING PROSTATE CANCER
ZHANG, Lin	(22) 26.01.2016	(73) Futurechem Co., Ltd.
CAO, Guorong	(54) COMPOSITIONS AND METHODS FOR VIRAL SENSITIZATION	(72) KIM, Min Hwan
GU, Guijiang	(73) Ottawa Hospital Research Institute	CHI, Dae Yoon
ZHANG, Yuqiang	University Of Ottawa	CHU, So Young
(74) ir. W.J.J.M. Kempes	(72) SMITH, Jeffrey	LEE, Kyo Chul
(31) 201610112748	LE BOEUF, Fabrice	LEE, Byoung Se
(32) 29.02.2016	ARULANANDAM, Rozanne	LEE, Yong Jin
(33) China	DORNAN, Mark	JEONG, Hyeon Jin
(47) 05.07.2023	KRISHNAN, Ramya	(74) dr. R.C. van Duijvenbode c.s.
(51) C04B 35/573	DIALLO, Jean-Simon	(31) 20180037226
C04B 35/83	BODDY, Christopher Noyce	(32) 30.03.2018
C04B 35/636	MACKLIN, Andrew	(33) Korea (Republic)
D01D 5/247	(74) ir. W.J.J.M. Kempes	(47) 26.04.2023
D01F 9/14	(31) 201562107923 P	(51) C07D 405/14
(11) EP3856700	201562107908 P	A61K 31/497
(21) EP19779844.0	(32) 26.01.2015	C07D 403/14
(22) 26.09.2019	26.01.2015	C07D 241/18
(54) METHOD OF PRODUCING A CARBON-CERAMIC SHAPED BODY	(33) United States of America	C07D 241/20
(73) Technikum Laubholz GmbH	United States of America	C07D 487/08
(72) SCHNECK, Tanja	(47) 05.04.2023	C07D 487/10
HERMANUTZ, Frank	(51) C07D 209/10	C07D 491/107
(74) dr. R.C. van Duijvenbode c.s.	C07D 235/10	C07D 519/00
(31) 102018123946	A61P 25/00	A61P 35/00
(32) 27.09.2018	A61P 25/16	(11) EP3752501
(33) Germany	A61P 25/18	(21) EP19707975.9
(47) 19.04.2023	A61P 25/24	(22) 12.02.2019
(51) C07C 19/08	A61P 25/28	(54) PD-1/PD-L1 INHIBITORS
A61F 9/00	A61K 31/496	(73) GILEAD SCIENCES, INC.
A61K 9/00	(11) EP3755688	(72) MEDLEY, Jonathan William
A61K 9/08	(21) EP19706271.4	LAD, Lateshkumar Thakorlal
A61K 31/02	(22) 20.02.2019	MACHICAO TELLO, Paulo A.
	(54) INDOLE AND BENZIMIDAZOLE DERIVATIVES AS DUAL 5-HT2A AND 5-HT6 RECEPTOR ANTAGONISTS	

AKTOUDIANAKIS, Evangelos	URBANO, Mariangela	A61P 3/00
WANG, Peiyuan	KNIGHT, Chris	C07K 14/005
CHO, Aesop	BRANDT, Gary	C12N 15/86
METOBO, Samuel E.	HARDICK, David	C12N 7/00
DU, Zhimin	TIERNEY, Jason	(11) EP2673289
NADUTHAMBI, Devan	LOCK, Chris	(21) EP12744695.3
MUKHERJEE, Prasenjit Kumar	JONES, Robert, M.	(22) 10.02.2012
YANG, Kin Shing	(74) dr. R.C. van Duijvenbode c.s.	(54) VIRAL VECTORS WITH MODIFIED
GRAUPE, Michael	(31) 201762554452 P	TRANSDUCTION PROFILES AND
PARKHILL, Eric Q.	(32) 05.09.2017	METHODS OF MAKING AND USING
ZIEBENHAUS, Christopher Allen	(33) United States of America	THE SAME
SQUIRES, Neil H.	(47) 31.05.2023	(73) The University of North Carolina At
SIMONOVICH, Scott Preston	(51) C07F 11/00	Chapel Hill
XU, Jie	B01J 31/18	(72) PULICHERLA, Nagesh
WATKINS, William J.	B01J 31/22	ASOKAN, Aravind
(74) dr. R.C. van Duijvenbode c.s.	C07C 1/213	(74) dr. A. Krebs
(31) 201862747029 P	C07C 17/275	(31) 201161441411 P
201862763116 P	C07C 17/361	(32) 10.02.2011
201862640534 P	C07C 41/30	(33) United States of America
201862630187 P	C07D 209/26	(47) 03.05.2023
(32) 17.10.2018	C07C 67/333	(51) C07K 14/11
19.04.2018	C07C 209/08	A01H 5/00
08.03.2018	C07D 209/48	A61K 39/145
13.02.2018	C07D 277/36	A61P 31/16
(33) United States of America	C07D 307/86	A61P 37/04
United States of America	C07D 333/54	C07K 16/08
United States of America	C07D 209/08	C12N 15/00
United States of America	C07D 211/18	C12N 15/44
(47) 19.04.2023	C07D 493/18	C12N 15/82
(51) C07D 413/14	C07D 499/897	C12N 7/00
C07D 413/12	(11) EP3484842	(11) EP2760882
A61P 37/02	(21) EP17828545.8	(21) EP12836545.9
A61P 29/00	(22) 14.07.2017	(22) 28.09.2012
A61K 31/553	(54) HALOGEN-CONTAINING METATHESIS	(54) INCREASING VIRUS-LIKE PARTICLE
(11) EP3788045	CATALYSTS AND METHODS THEREOF	YIELD IN PLANTS
(21) EP19724662.2	(73) Trustees of Boston College	(73) Medicago Inc.
(22) 02.05.2019	Massachusetts Institute of Technology	(72) D'AOUST, Marc-Andre
(54) RIP1 INHIBITORY COMPOUNDS AND	(72) HOVEYDA, Amir H.	VEZINA, Louis-Philippe
METHODS FOR MAKING AND USING	NGUYEN, Thach T.	COUTURE, Manon
THE SAME	KOH, Ming Joo	(74) ir. W.J.J.M. Kempes
(73) Rigel Pharmaceuticals, Inc.	SCHROCK, Richard R.	(31) 201161541780 P
(72) CHEN, Yan	HYVL, Jakub	(32) 30.09.2011
YU, Jiaxin	(74) mr. R. Zwamborn	(33) United States of America
MASUDA, Esteban	(31) 201662363066 P	(47) 24.05.2023
DARWISH, Ihab	(32) 15.07.2016	(51) C07K 14/31
TAYLOR, Vanessa	(33) United States of America	B01D 15/38
(74) dr. R.C. van Duijvenbode c.s.	(47) 03.05.2023	(11) EP3521304
(31) 201862666452 P	(51) C07H 15/10	(21) EP18154731.6
(32) 03.05.2018	C07C 33/035	(22) 01.02.2018
(33) United States of America	C08B 37/00	(54) FC BINDING PROTEINS WITH
(47) 31.05.2023	(11) EP3795576	CYSTEINE IN THE C-TERMINAL
(51) C07D 487/10	(21) EP20189079.5	HELICAL REGION
C07D 519/00	(22) 14.09.2017	(73) Repligen Corporation
A61P 25/00	(54) 1,3-FATTY DIOL COMPOUNDS AND	(72) HAUPTS, Ulrich
A61P 9/00	GLYCOSYLATED DERIVATIVES	FIEDLER, Erik
A61K 31/538	THEREOF	(74) dr. ir. G.J.C. Verdijk c.s.
A61K 31/4439	(73) Genomatica, Inc.	(47) 07.06.2023
A61K 31/553	(72) BOND, Risha L.	(51) C08F 8/30
A61K 31/5513	WANG, Haibo	C08G 69/26
A61K 31/5415	(74) dr. R.C. van Duijvenbode c.s.	(11) EP3221366
(11) EP3679043	(31) 201662394537 P	(21) EP15861861.1
(21) EP18779495.3	(32) 14.09.2016	(22) 17.11.2015
(22) 05.09.2018	(33) United States of America	(54) POLYAMINOMETHYLBENZYLOXALAMIDES
(54) VASOPRESSIN RECEPTOR	(47) 07.06.2023	AND COMPOSITIONS AND METHODS
ANTAGONISTS AND PRODUCTS AND	(51) C07K 14/075	RELATED THERETO
METHODS RELATED THERETO	C12N 15/861	(73) Plastipak Packaging, Inc.
(73) Neumora Therapeutics, Inc.	A61P 21/00	(72) LI, Shenshen
(72) CHAMBERS, Mark	A61P 9/00	(74) J.M.H. Duyver lic.

(31) 201462081547 P	(51) C08F 283/02	102020208684
(32) 18.11.2014	C08G 18/71	(32) 23.12.2020
(33) United States of America	C08G 18/22	10.07.2020
(47) 07.06.2023	C08G 18/32	(33) Germany
(51) C08F 210/02	C08G 18/38	Germany
C08F 4/659	C09D 175/00	(47) 12.04.2023
(11) EP2953985	C08G 18/67	(51) C08J 5/00
(21) EP13808302.7	C08G 18/81	(11) EP3710531
(22) 20.11.2013	C08G 18/28	(21) EP18796930.8
(54) PREPARATION OF POLYOLEFIN	(11) EP3126420	(22) 05.11.2018
(73) Univation Technologies, LLC	(21) EP15774354.3	(54) COMPOSITIONS OBTAINED FROM
(72) LESTER, C., Dale	(22) 30.03.2015	RECYCLED POLYOLEFINS
CANN, Kevin, J.	(54) LOW VOC POLYMERS WITH RELEASE	(73) Basell Poliolefine Italia S.r.l.
MOORHOUSE, John, H.	PROPERTIES	(72) CAVALIERI, Claudio
ZILKER, Daniel, P.	(73) Omnova Solutions Inc	DE PALO, Roberto
HARI, Abarajith, S.	(72) GOLDSTEIN, Joel	(74) dr. R.C. van Duijvenbode c.s.
MARIOTT, Wesley, R.	(74) dr. R.C. van Duijvenbode c.s.	(31) 17201376
CAO, Phuong, A.	(31) 201462047548 P	(32) 13.11.2017
SAVATSKY, Bruce, J.	201461972370 P	(33) European Patent Office (EPO)
GOODE, Mark, G.	(32) 08.09.2014	(47) 24.05.2023
HUSSEIN, F., David	30.03.2014	(51) C08L 3/08
PANNELL, Richard, B.	(33) United States of America	B32B 27/06
(74) ir. W.J.J.M. Kempes	United States of America	C08L 29/04
(31) 201361762061 P	(47) 07.06.2023	C08L 3/02
(32) 07.02.2013	(51) C08G 69/28	B65D 65/46
(33) United States of America	(11) EP3515967	(11) EP3931252
(47) 07.06.2023	(21) EP17764853.2	(21) EP20763384.3
(51) C08F 210/16	(22) 15.09.2017	(22) 28.02.2020
C08F 4/6592	(54) PRODUCTION OF AN AQUEOUS	(54) STARCH COMPOSITIONS
(11) EP3792292	SOLUTION OF DIAMINE/DIACID SALTS	(73) Plantic Technologies LTD
(21) EP20198457.2	(73) POLYTECHNYL S.A.S.	(72) MCCAFFREY, Nicholas John
(22) 26.09.2017	(72) TERNISIEN, Thomas	(74) ir. H.A. Witmans c.s.
(54) POLYMERIZATION CATALYSTS	THIERRY, Jean-François	(31) 2019900640
WITH IMPROVED ETHYLENE	(74) J.M.H. Duyver lic.	(32) 28.02.2019
ENCHAINMENT	(31) 16190023	(33) Australia
(73) Univation Technologies, LLC	(32) 22.09.2016	(47) 07.06.2023
(72) SZUL, John F.	(33) European Patent Office (EPO)	(51) C08L 69/00
KUHLMAN, Roger L.	(47) 05.04.2023	C08K 5/5399
HARLAN, C. Jeff	(51) C08G 81/02	C08L 23/28
MCDUGAL, Mahsa	C08F 110/06	(11) EP3560997
LYNN, Timothy R.	(11) EP3307809	(21) EP17884617.6
ZILKER, Daniel P. Jr.	(21) EP16732855.8	(22) 13.11.2017
MURE, Cliff R.	(22) 15.06.2016	(54) THERMOPLASTIC RESIN
BOLLER, Timothy M.	(54) LONG-CHAIN BRANCHED POLYMERS	COMPOSITION HAVING EXCELLENT
(74) ir. W.J.J.M. Kempes	AND PRODUCTION PROCESSES	ELECTRICAL CHARACTERISTICS AND
(31) 201662402699 P	(73) Braskem America, Inc.	MOLDED PRODUCT MANUFACTURED
(32) 30.09.2016	(72) FERNANDES, Jonas, Alves	USING SAME
(33) United States of America	(74) dr. W.A.H.M. Van Borm	(73) Lotte Advanced Materials Co., Ltd.
(47) 07.06.2023	(31) 201562175670 P	(72) SHIN, Seungshik
(51) C08F 220/00	(32) 15.06.2015	KIM, Sunyoung
C08K 3/22	(33) United States of America	KIM, Suji
C09D 133/06	(47) 28.06.2023	KIM, Pilho
C09D 133/08	(51) C08H 7/00	LEE, Woo Jin
C09D 133/14	C07G 1/00	(74) ir. A. Blokland c.s.
C09D 133/26	C08L 97/00	(31) 20160175832
(11) EP3966260	(11) EP4028453	(32) 21.12.2016
(21) EP20723137.4	(21) EP21748810.5	(33) Korea (Republic)
(22) 07.05.2020	(22) 12.07.2021	(47) 24.05.2023
(54) AQUEOUS POLYMER LATEX	(54) METHOD FOR THE PREPARATION OF	(51) C09B 57/00
(73) BASF SE	STABILIZED LIGNINS WITH LARGE	C09B 7/08
(72) WRAZIDLO, Robert	SPECIFIC SURFACE AREA	D06P 1/22
BALK, Roelof	(73) SunCoal Industries GmbH	D06P 3/60
LOHMEIJER, Bastiaan	(72) WITTMANN, Tobias	G01N 31/16
(74) ir. W.J.J.M. Kempes	STÜCKER, Alexander	G01N 31/22
(31) 19173298	PODSCHUN, Jacob	(11) EP3772529
(32) 08.05.2019	KÖHL, Lenz, Aron, Mathis	(21) EP19190058.8
(33) European Patent Office (EPO)	(74) ir. W.J.J.M. Kempes	(22) 05.08.2019
(47) 19.04.2023	(31) 102020134900	

- (54) PH-SENSITIVE DYES FOR TEXTILE MATERIALS, A PROCESS FOR THEIR PREPARATION AND USES THEREOF (11) EP3265518
- (73) Sanko Tekstil İşletmeleri San. Ve Tic. A.S. (21) EP16756349.3
(22) 25.02.2016
- (72) ÖKTEM, Gözde (54) FILLERS
KAZANÇ, Semih (73) Polynt Composites USA Inc.
KAPLAN, Gökhan (72) DECKER, Owen, H.
İYİDOĞAN, Deniz LAVEN, Jeffrey, J.
AKMAN, Özden DUNCAN, Pamela
BAYAR, Olcay KIRBY, Kurt
- (74) dr. G. Visser-Luirink (74) ir. H.A. Witmans c.s.
(47) 19.04.2023 (31) 201514631984
- (51) C09C 1/48 (32) 26.02.2015
C09C 1/56 (33) United States of America
C09K 23/00 (47) 14.06.2023
- (11) EP3682965 (51) C09D 101/00
(21) EP20160400.6 C09D 151/02
(22) 18.11.2016 C08F 251/02
(54) METHOD FOR PRODUCING C08L 1/28
PARTICULATE CARBONACEOUS C08L 1/08
MATERIAL FROM RENEWABLE RAW C08F 8/10
MATERIALS C08F 6/00
- (73) SunCoal Industries GmbH (11) EP2758479
(72) BERGEMANN, Klaus (21) EP12832804.4
WITTMANN, Tobias (22) 18.09.2012
(74) ir. W.J.J.M. Kempes (54) HYDROXYETHYL CELLULOSE
(31) 102016201801 GRAFTED ACRYLIC LATEX
102015015550 (73) Benjamin Moore&Co.
102015015549 (72) SHEERIN, Robert J.
102015014956 YANG, Shi-Jun
(32) 05.02.2016 DANDEREAUX, Gary
29.11.2015 (74) dr. R.C. van Duijvenbode c.s.
29.11.2015 (31) 201161536264 P
21.11.2015 (32) 19.09.2011
(33) Germany (33) United States of America
Germany (47) 07.06.2023
Germany (51) C09D 151/08
Germany (51) C09K 3/10
(47) 12.04.2023 D21H 19/68
D21H 19/84
D21H 27/10
- (51) C09D 5/00 (11) EP3710548
C09D 175/12 (21) EP18879499.4
C08G 18/10 (22) 16.11.2018
C08G 18/38 (54) HEAT-SEAL COATINGS
C08G 18/79 (73) Imerys USA, Inc.
(11) EP3990553 (72) PRATT, Gareth V.
(21) EP20734547.1 MEIZANIS, Paul
(22) 26.06.2020 (74) ir. C.G.C. Veldman-Dijkers
(54) USE OF COATING COMPOSITIONS (31) 201762587598 P
FOR WIND TURBINE BLADES (32) 17.11.2017
(73) Hempel A/S (33) United States of America
(72) BERNAD, Pablo Luis (47) 07.06.2023
KALLESØE, Erik
MEHROTRA, Kushagra (51) C09K 8/524
(74) J.M.H. Duyver lic. C10L 1/14
(31) 20151250 C10L 10/16
19183414 (11) EP4004142
(32) 10.01.2020 (21) EP20733281.8
28.06.2019 (22) 18.06.2020
(33) European Patent Office (EPO) (54) WAX INHIBITORS WITH IMPROVED
European Patent Office (EPO) FLOWABILITY
(47) 07.06.2023 (73) Clariant International Ltd
(51) C09D 7/65 (72) KRULL, Matthias
C08J 3/205 FEUSTEL, Michael
C08J 3/26 (74) J.M.H. Duyver lic.
B29C 70/58 (31) 19188740
B29C 37/00 (32) 29.07.2019
C08K 3/36 (33) European Patent Office (EPO)
- (73) Allnex Netherlands B.V.
(72) BRINKHUIS, Richard Hendrikus Gerrit
GESSNER, Michael Anthony
(74) ir. H.A. Witmans c.s.
(31) 201762506651 P
(32) 16.05.2017
(33) United States of America
(47) 03.05.2023
- (51) C09J 123/14
C08F 210/16
C08F 210/06
C08L 23/14
C08L 23/12
C08L 53/02
(11) EP3635047
(21) EP18813015.7
(22) 08.06.2018
(54) AMORPHOUS PROPYLENE-
ETHYLENE COPOLYMERS
(73) Synthomer Adhesive Technologies LLC
(72) WILLIAMS, Timothy
ROBE, Gary Robert
RAJESH RAJA, Puthenkivilakom
MUVUNDAMINA, Mutombo Joseph
COTTLE, Raymond Prescott
SOMERS, Marc Stacey
NOVAK, Bennett H.
SOOD, Dhiraj Sudesh
HAGOOD, Andrea Gail
(74) mr. R. Zwamborn
(31) 201816002739
201762517253 P
(32) 07.06.2018
09.06.2017
(33) United States of America
United States of America
(47) 26.04.2023
- (51) C09K 3/10
D21H 19/68
D21H 19/84
D21H 27/10
(11) EP3710548
(21) EP18879499.4
(22) 16.11.2018
(54) HEAT-SEAL COATINGS
(73) Imerys USA, Inc.
(72) PRATT, Gareth V.
MEIZANIS, Paul
(74) ir. C.G.C. Veldman-Dijkers
(31) 201762587598 P
(32) 17.11.2017
(33) United States of America
(47) 07.06.2023
- (51) C09K 8/524
C10L 1/14
C10L 10/16
(11) EP4004142
(21) EP20733281.8
(22) 18.06.2020
(54) WAX INHIBITORS WITH IMPROVED
FLOWABILITY
(73) Clariant International Ltd
(72) KRULL, Matthias
FEUSTEL, Michael
(74) J.M.H. Duyver lic.
(31) 19188740
(32) 29.07.2019
(33) European Patent Office (EPO)

(47) 07.06.2023	C10N 40/02	A61K 35/545
(51) C09K 8/584	C10N 50/10	A61P 9/00
C09K 8/594	(11) EP3733823	A61P 21/00
E21B 43/16	(21) EP18894819.4	A61P 43/00
(11) EP3927790	(22) 20.12.2018	(11) EP3540049
(21) EP20704342.3	(54) GREASE COMPOSITION AND USE OF	(21) EP17868961.8
(22) 18.02.2020	GREASE COMPOSITION	(22) 09.11.2017
(54) INJECTION FLUIDS COMPRISING	(73) IDEMITSU KOSAN CO., LTD.	(54) METHOD FOR INDUCING
ALKOXYLATED ALCOHOLS AND	(72) WATANABE, Go	PLURIPOTENT STEM CELLS TO
THE USE OF SUCH FLUIDS IN OIL	(74) ir. A. Blokland c.s.	DIFFERENTIATE INTO SOMATIC
RECOVERY PROCESSES	(31) 2017252441	CELLS
(73) Sasol Chemicals GmbH	(32) 27.12.2017	(73) Kyoto University
(72) FISCHER, Julian	(33) Japan	Osaka University
BILGILI, Harun	(47) 28.06.2023	(72) SEKIGUCHI, Kiyotoshi
ROMMERSKIRCHEN, Renke	(51) C12M 1/34	ZHAO, Mingming
SOTTMANN, Thomas	C12M 3/00	SAITO, Megumu
(74) ir. W.J.J.M. Kempes	C12Q 1/10	EBISU, Fumi
(31) 19158014	(11) EP3327111	SAKURAI, Hidetoshi
(32) 19.02.2019	(21) EP17210842.5	(74) ir. A. Blokland c.s.
(33) European Patent Office (EPO)	(22) 11.03.2014	(31) 2016220994
(47) 12.04.2023	(54) SAMPLE COLLECTION AND ANALYSIS	(32) 11.11.2016
(51) C10L 1/08	(73) IDEXX Laboratories, Inc.	(33) Japan
C10G 3/00	(72) Myles, Matthew H.	(47) 24.05.2023
(11) EP4038165	(74) dr. ir. F.M. van Bouwelen	(51) C12N 5/10
(21) EP21823958.0	(31) 201314089103	C12N 15/09
(22) 02.12.2021	201361776560 P	C12N 5/074
(54) RENEWABLE HYDROCARBON	(32) 25.11.2013	(11) EP3050961
COMPOSITION HAVING GOOD	11.03.2013	(21) EP14847286.3
CETANE NUMBER AND GOOD COLD	(33) United States of America	(22) 24.09.2014
PROPERTIES	United States of America	(54) METHOD FOR IMPROVING
(73) Neste Oyj	(47) 03.05.2023	EFFICIENCY OF INDUCING
(72) NORTIO, Jenni	(51) C12M 3/02	PLURIPOTENT STEM CELL
ROUNAKANGAS, Anne	C12N 15/87	(73) ID Pharma Co., Ltd.
KURONEN, Markku	C12N 5/078	(72) BAN, Hiroshi
KIISKI, Ulla	(11) EP3320082	HASEGAWA, Mamoru
(74) ir. W.J.J.M. Kempes	(21) EP16822078.8	IIDA, Akihiro
(31) 20206282	(22) 08.07.2016	(74) dr. W.A.H.M. Van Borm
(32) 11.12.2020	(54) DELIVERY OF MATERIALS TO	(31) 2013197308
(33) Finland	ANUCLEATE CELLS	(32) 24.09.2013
(47) 17.05.2023	(73) Massachusetts Institute of Technology	(33) Japan
(51) C10L 5/00	(72) ABSHIRE, James, Robbins	(47) 28.06.2023
C01B 3/30	SHAREI, Armon, R.	(51) C12N 5/10
C01B 32/05	JENSEN, Klavs, F.	C12N 15/11
C01B 32/162	NILES, Jacquin, Clarence	C12N 15/67
(11) EP3775113	(74) dr. ir. F.M. van Bouwelen	C07K 14/435
(21) EP19712891.1	(31) 201562190677 P	(11) EP3565891
(22) 04.04.2019	(32) 09.07.2015	(21) EP18736585.3
(54) A PROCESS FOR PRODUCING	(33) United States of America	(22) 09.01.2018
HYDROGEN AND SOLID CARBON	(47) 24.05.2023	(54) METHODS OF ALTERING GENE
PRODUCTS	(51) C12N 5/0775	EXPRESSION BY PERTURBING
(73) Shell Internationale Research	(11) EP3684918	TRANSCRIPTION FACTOR
Maatschappij B.V.	(21) EP18769385.8	MULTIMERS THAT STRUCTURE
(72) MESTERS, Carolus, Matthias, Anna,	(22) 20.09.2018	REGULATORY LOOPS
Maria	(54) BIOMATERIAL COMPRISING ADIPOSE-	(73) Whitehead Institute for Biomedical
SPANU, Leonardo	DERIVED STEM CELLS AND METHOD	Research
(74) ir. W.J.J.M. Kempes	FOR PRODUCING THE SAME	(72) WEINTRAUB, Abraham, S.
(31) 201862654594 P	(73) Novadip Biosciences	LI, Charles, H.
(32) 09.04.2018	(72) DUFRANE, Denis	YOUNG, Richard, A.
(33) United States of America	(74) ir. W.J.J.M. Kempes	SIGOVA, Alla, A.
(47) 14.06.2023	(31) 201762561046 P	(74) J.M.H. Duyver lic.
(51) C10M 169/02	18165933	(31) 201762596093 P
C10M 171/02	(32) 20.09.2017	201762444341 P
C10N 10/02	05.04.2018	(32) 07.12.2017
C10N 10/04	(33) United States of America	09.01.2017
C10N 20/02	European Patent Office (EPO)	(33) United States of America
C10N 20/04	(47) 12.04.2023	United States of America
C10N 30/00	(51) C12N 5/10	(47) 12.04.2023
C10N 30/06	A61K 35/34	(51) C12N 15/52

- C12N 15/90
(11) EP3488006
(21) EP17755579.4
(22) 25.07.2017
(54) MATERIALS AND METHODS UTILIZING BIOTIN PRODUCING MUTANT HOSTS FOR THE PRODUCTION OF 7-CARBON CHEMICALS
(73) INVISTA Textiles (U.K.) Limited
(72) KENNEDY, Jonathan
FOSTER, Alexander, Brett
CARTMAN, Stephen, Thomas
(74) J.M.H. Duyver lic.
(31) 201662366565 P
(32) 25.07.2016
(33) United States of America
(47) 07.06.2023
-
- (51) C12N 15/66
C12N 15/09
C12N 5/10
C12N 9/22
C12N 15/90
C07K 16/30
C07K 14/54
C07K 16/28
A61K 38/46
A61K 35/17
(11) EP3510157
(21) EP17849655.0
(22) 08.09.2017
(54) PD-1 HOMING ENDONUCLEASE VARIANTS, COMPOSITIONS, AND METHODS OF USE
(73) 2seventy bio, Inc.
(72) JARJOUR, Jordan
ZHANG, Joy
GAY, Joel
MANN, Jasdeep
(74) dr. R.C. van Duijvenbode c.s.
(31) 201662414279 P
201662385079 P
(32) 28.10.2016
08.09.2016
(33) United States of America
United States of America
(47) 31.05.2023
-
- (51) C12P 19/18
C08B 37/00
C12P 19/04
C12N 9/10
(11) EP3512955
(21) EP17772809.4
(22) 13.09.2017
(54) ENGINEERED GLUCOSYLTRANSFERASES
(73) Nutrition & Biosciences USA 4, Inc.
(72) KRALJ, Slavko
PAYNE, Mark S.
ALKAN, Veli
BOTT, Richard R.
SEMKE, Ellen D.
CHENG, Qiong
HENNESSEY, Susan Marie
LI, Yougen
PARKER, Jared B.
DICOSIMO, Robert
(74) ir. W.J.J.M. Kempes
(31) 201662394354 P
-
- (32) 14.09.2016
(33) United States of America
(47) 19.04.2023
-
- (51) C12Q 1/02
G01N 33/569
G01N 33/68
(11) EP2606145
(21) EP10755006.3
(22) 19.08.2010
(54) METHODS FOR DETERMINING ANTIBIOTIC RESISTANCE IN MICROORGANISMS
(73) Erasmus University Medical Center
Rotterdam
(72) GOESSENS, Wilhelmus Hubertus
Franciscus
HOOFF, Gero Peter
LUIDER, Theo Marten
VAN KAMPEN, Jeroen Jacob Alexander
VAN BELKUM, Alexander Franciscus
(74) ir. W.J.J.M. Kempes
(47) 14.06.2023
-
- (51) C12Q 1/689
C12Q 1/6869
(11) EP3332023
(21) EP15750348.3
(22) 06.08.2015
(54) GENETIC TESTING FOR ALIGNMENT-FREE PREDICTING RESISTANCE OF MICROORGANISMS AGAINST ANTIMICROBIAL AGENTS
(73) Ares Genetics GmbH
(72) GALATA, Valentina
STÄHLER, Cord Friedrich
SCHMOLKE, Susanne
BACKES, Christina
KELLER, Andreas
(74) dr. A. Krebs
(47) 21.06.2023
-
- (51) C23C 14/00
C23C 14/06
C23C 14/32
C23C 28/04
C23C 30/00
C23C 14/34
(11) EP3997254
(21) EP20740437.7
(22) 10.07.2020
(54) SAW BLADE OR OTHER CUTTING TOOL COMPRISING A COATING
(73) Knight Acquisition B.V.
(72) SCHRÖDER, Werner
(74) dr. A. Ellens c.s.
(31) 2023485
2023484
201962872763 P
(32) 11.07.2019
11.07.2019
11.07.2019
(33) Netherlands
Netherlands
United States of America
(47) 21.06.2023
-
- (51) C25B 11/043
C01B 33/02
(11) EP3303658
(21) EP16728635.0
(22) 25.05.2016
-
- (54) METHOD FOR PRODUCING A DIAMOND ELECTRODE AND DIAMOND ELECTRODE
(73) CONDIAS GMBH
(72) MATTHÉE, Thorsten
FRYDA, Matthias
(74) dr. R.C. van Duijvenbode c.s.
(31) 102015006514
(32) 26.05.2015
(33) Germany
(47) 03.05.2023
-
- (51) D01H 1/02
D01H 13/04
D01H 13/16
D02G 3/32
(11) EP3748052
(21) EP19179150.8
(22) 07.06.2019
(54) RINGSPINNING SYSTEM FOR PRODUCING A YARN AND METHOD FOR STOPPING THE SUPPLY OF FILAMENTS TO A DRAFTING STAGE OF A RINGSPINNING SYSTEM
(73) Sanko Tekstil Isletmeleri Sanayi Ve Ticaret Anonim Sirketi
(72) KONUKOGLU, Hakan
AYDIN, Gökhan
(74) dr. R.C. van Duijvenbode c.s.
(47) 07.06.2023
-
- (51) D06F 58/02
D06F 58/12
D06F 58/26
(11) EP3784830
(21) EP19729172.7
(22) 25.04.2019
(54) DRIER AND METHOD FOR OPERATING A DRIER
(73) Lavatec Laundry Technology GmbH
(72) KRAUSE, Joachim
GRAESER, Wolf-Peter
(74) dr. R.C. van Duijvenbode c.s.
(31) 102018206629
(32) 27.04.2018
(33) Germany
(47) 05.04.2023
-
- (51) D07B 1/06
(11) EP3825458
(21) EP20208269.9
(22) 18.11.2020
(54) HYBRID LIFTING CABLE, METHOD FOR MANUFACTURING SAME AND WINCH IMPLEMENTING SUCH A CABLE
(73) REEL
(72) CAUQUELIN, Adrien
(74) dr. R.C. van Duijvenbode c.s.
(31) 1913064
(32) 22.11.2019
(33) France
(47) 05.07.2023
-
- (51) D21F 1/44
D21F 11/00
(11) EP4012098
(21) EP21020628.0
(22) 09.12.2021
(54) DEWATERING SCREEN, CASTING TOOL AND METHOD FOR

MANUFACTURING DEWATERING SCREENS	(54) QUICK CHANGE SYSTEM FOR CHANGING ATTACHMENTS ON A CONSTRUCTION MACHINE	(47) 03.05.2023
(73) Giesecke+Devrient Currency Technology GmbH	(73) OilQuick Deutschland KG	(51) E04H 3/30 A63J 1/02
(72) Gregarek, André Depta, Georg Aigner, Andreas Hänelt, Andreas	(72) Schauer, Stefan (74) ir. W.J.J.M. Kempes	(11) EP3682073 (21) EP18782325.7 (22) 17.09.2018
(74) ir. W.J.J.M. Kempes	(31) 102020118938	(54) THEATRE CONSTRUCTION
(31) 102020007606	(32) 17.07.2020	(73) Imagine Nation B.V.
(32) 11.12.2020	(33) Germany	(72) HEMMINGA, Evert Lykle
(33) Germany	(47) 07.06.2023	(74) dr. A. Krebs
(47) 07.06.2023	(51) E02F 3/40	(31) 201714933
(51) E01B 9/28	E02F 3/96	(32) 15.09.2017
(11) EP3850155	E02F 9/08	(33) United Kingdom
(21) EP19766016.0	(11) EP3208386	(47) 05.04.2023
(22) 09.09.2019	(21) EP16450003.5	(51) E05D 11/00
(54) GUIDE PLATE AND RAIL FASTENING POINT	(22) 17.02.2016	E05D 3/02
(73) Vossloh Fastening Systems GmbH	(54) DEVICE FOR HOLDING AND DRIVING AN AGGREGATE FOR THE PREPARATION OF DISPENSED LUMP MATERIAL	E05D 3/04
(72) ILIEV, Dimitre	(73) Hartl Solutions GmbH	(11) EP3879055
(74) ir. A. Blokland c.s.	(72) Hartl, Alexander	(21) EP21158436.2
(31) 102018122426	Hartl, Dominik	(22) 22.02.2021
(32) 13.09.2018	(74) J.M.H. Duyver lic.	(54) HINGE
(33) Germany	(47) 05.04.2023	(73) Breuer & Schmitz GmbH & Co. KG
(47) 31.05.2023	(51) E03D 9/08	(72) MÜLLER, Markus
(51) E01C 19/38	(11) EP3992381	MÜLLER, Patrick
E01C 19/35	(21) EP20204354.3	(74) J.M.H. Duyver lic.
E02D 3/046	(22) 28.10.2020	(31) 202020101388 U
E02D 3/074	(54) SET OF SHOWER DEVICE AND MOBILE BASE UNIT	(32) 12.03.2020
B06B 1/16	(73) Geberit International AG	(33) Germany
(11) EP3862487	(72) CODIROLI, Mattia	(47) 07.06.2023
(21) EP21153873.1	ZWICKER, Maurus	(51) E06B 3/54
(22) 27.01.2021	(74) dr. A. Krebs	E06B 3/58
(54) VIBRATION PLATE WITH ELECTRIC DRIVE	(47) 14.06.2023	E06B 3/66
(73) Wacker Neuson Produktion GmbH & Co. KG	(51) E04B 1/16	E04B 2/74
(72) Unverdorben, Walter	E04B 5/32	E04B 2/82
(74) ir. W.J.J.M. Kempes	E04B 1/76	(11) EP2961905
(31) 102020102949	(11) EP3070221	(21) EP14709427.0
(32) 05.02.2020	(21) EP16160926.8	(22) 27.02.2014
(33) Germany	(22) 17.03.2016	(54) PARTITION WALL SYSTEM WITH CLAMPING PROFILE
(47) 03.05.2023	(54) METHOD FOR TREATING THERMAL BRIDGES, ASSOCIATED HEAT- INSULATING ELEMENT AND STRUCTURAL CONNECTION ELEMENT, AND PRE-SLAB PROVIDED WITH SUCH ELEMENTS	(73) Maars Holding B.V.
(51) E01C 19/38	(73) KP1	(72) JOSEPH, Johannes
E02D 3/02	(72) HAOUR, Thierry	LUU, Quoc Xuong
E02D 3/074	(74) ir. H.A. Witmans c.s.	DE GRAAF, Pieter Marcel
(11) EP3719201	(31) 1552191	(74) dr. ir. G.J.C. Verdijck c.s.
(21) EP20164942.3	(32) 17.03.2015	(31) 2010400
(22) 23.03.2020	(33) France	2010367
(54) CONTROL DEVICE FOR SOIL COMPACTION DEVICE, WITH HANDLE BRACKET AND ENGINE SPEED LEVER	(47) 03.05.2023	(32) 06.03.2013
(73) Wacker Neuson Produktion GmbH & Co. KG	(51) E04F 15/024	27.02.2013
(72) HUBER, Alexander	(11) EP3940168	(33) Netherlands
RUPP, Ferdinand	(21) EP21182043.6	Netherlands
(74) ir. W.J.J.M. Kempes	(22) 28.06.2021	(47) 05.04.2023
(31) 102019109028	(54) SUBSTRUCTURE FOR RECEIVING VISIBLE PROFILES, ACCESSORY AND LOCKING PART	(51) E06B 7/215
(32) 05.04.2019	(73) Möller GmbH & Co. KG	(11) EP3768930
(33) Germany	(72) Mette, Michael	(21) EP19711599.1
(47) 10.05.2023	(74) ir. F.A. Geurts c.s.	(22) 18.03.2019
(51) E02F 3/36	(31) 102020117776	(54) SEALING DEVICE
(11) EP3964650	(32) 06.07.2020	(73) ASSA ABLOY (Schweiz) AG
(21) EP21164149.3	(33) Germany	(72) DINTHEER, Andreas
(22) 23.03.2021		SCHAAR, Jochen
		(74) ir. J.C. Volmer c.s.
		(31) 18162557
		(32) 19.03.2018
		(33) European Patent Office (EPO)
		(47) 12.04.2023
		(51) E06C 9/02
		(11) EP3548680
		(21) EP18739037.2

(22) 10.01.2018	(21) EP18807169.0	(47) 28.06.2023
(54) WIND TURBINE TOWER ATTACHMENT	(22) 01.11.2018	(51) F16F 7/10
(73) Keystone Tower Systems, Inc.	(54) WIND TURBINE ROTOR BLADE JOINT	F16L 55/04
(72) BRIDGERS, Loren, Daniel	CONSTRUCTED OF DISSIMILAR	F16F 7/112
SMITH, Eric, D.	MATERIALS	F16L 1/12
(74) ir. H.A. Witmans c.s.	(73) General Electric Company	(11) EP3607221
(31) 201762444458 P	(72) RODWELL, Andrew Mitchell	(21) EP18781669.9
(32) 10.01.2017	RIAHI, Amir	(22) 06.03.2018
(33) United States of America	(74) ir. A. Blokland c.s.	(54) METHOD FOR VIBRATION DAMPING
(47) 05.04.2023	(47) 17.05.2023	OF AND VIBRATION DAMPER
(51) E21B 7/04	(51) F03D 17/00	ASSEMBLY FOR SEMI-SUBMERGED
E21B 34/08	F03D 13/35	OR SUBMERGED STRUCTURE.
E21B 43/12	(11) EP3732369	(73) Momentum Technologies AS
G05D 7/01	(21) EP17832248.3	(72) LUND, Even
(11) EP3765707	(22) 29.12.2017	JOHNSEN, Håvard Bjørkøy
(21) EP19711050.5	(54) METHOD FOR MEASURING	ÖDLUND, Lina
(22) 11.03.2019	IMBALANCES IN WIND TURBINE	LUNDQVIST, Tomas
(54) A FLOW CONTROL DEVICE AND	ROTORS	(74) ir. W.J.J.M. Kempes
METHOD	(73) Windcomp GmbH	(31) 20170585
(73) Inflowcontrol AS	(72) LUCKS, Christoph	(32) 07.04.2017
(72) WERSWICK, Bjørnar	(74) J.M.H. Duyver lic.	(33) Norway
MATHIESEN, Vidar	(47) 12.04.2023	(47) 31.05.2023
AAKRE, Haavard	(51) F03D 80/80	(51) F16J 15/18
(74) dr. A. Krebs	(11) EP3959440	F16J 15/34
(31) 18161256	(21) EP20746907.3	F16J 15/38
(32) 12.03.2018	(22) 16.07.2020	(11) EP3928002
(33) European Patent Office (EPO)	(54) WIND TURBINE TRANSFORMER	(21) EP19828674.2
(47) 12.04.2023	SYSTEM	(22) 17.12.2019
(51) F01C 1/16	(73) Siemens Gamesa Renewable Energy A/	(54) MECHANICAL FACE SEAL ASSEMBLY
F04C 2/16	S	SUITABLE FOR PRESSURE
F04C 15/00	(72) GAARD, Jesper	REVERSAL
F04C 18/16	MUNK-HANSEN, Thorkil	(73) EagleBurgmann Germany GmbH & Co.
(11) EP3899206	(74) ir. W.J.J.M. Kempes	KG
(21) EP19835515.8	(31) 19187491	(72) STEMPLINGER, Thomas
(22) 17.12.2019	(32) 22.07.2019	SCHOLZ, Carsten
(54) VOLUMETRIC MACHINE LIKE A	(33) European Patent Office (EPO)	DRÖSCHER, Peter
COMPRESSOR, EXPANDER, PUMP OR	(47) 26.04.2023	REISCHL, Robert
THE LIKE FOR THE DISPLACEMENT	(51) F15B 1/16	(74) ir. H.A. Witmans c.s.
OF A MEDIUM AND METHOD	E21B 33/064	(31) 102019202109
THEREBY USED	(11) EP3283774	(32) 18.02.2019
(73) ATLAS COPCO AIRPOWER, naamloze	(21) EP16780392.3	(33) Germany
vennootschap	(22) 07.04.2016	(47) 31.05.2023
(72) VERRELST, Björn	(54) PISTON ACCUMULATOR BLADDER	(51) F16J 15/24
(74) dr. R.C. van Duijvenbode c.s.	APPARATUS SYSTEM AND METHOD	F04B 39/04
(31) 201805894	(73) Reel Power Licensing Corp.	F16J 15/26
201805896	(72) SCHMIDT, Nathan	F16J 15/16
(32) 18.12.2018	FREY, Tom	(11) EP3726102
18.12.2018	COMPTON, Doug	(21) EP19170312.3
(33) Belgium	(74) ir. H.J.G. Lips c.s.	(22) 18.04.2019
Belgium	(31) 201562147705 P	(54) ANNULAR SEALING ASSEMBLY
(47) 26.04.2023	(32) 15.04.2015	(73) AIR PRODUCTS AND CHEMICALS,
(51) F02C 1/10	(33) United States of America	INC.
F02C 6/14	(47) 21.06.2023	(72) Williams, Douglas R.
F28D 20/00	(51) F16C 17/24	Hupp, Gregory Peter
(11) EP3652424	F16C 33/10	Chalk, David Jonathan
(21) EP18735023.6	(11) EP3973202	Grimm, Lance Michael
(22) 01.06.2018	(21) EP20737515.5	(74) dr. R.C. van Duijvenbode c.s.
(54) PUMPED HEAT ENERGY STORAGE	(22) 15.05.2020	(47) 28.06.2023
SYSTEM	(54) MEMBER FOR GUIDING A MOBILE	(51) F16K 11/22
(73) Dresser Rand Company	ELEMENT IN OSCILLATION OR	F16K 35/00
(72) KERTH, Jason M.	ROTATION	E03C 1/00
(74) dr. R.C. van Duijvenbode c.s.	(73) HYDROMECHANIQUE ET FROTTEMENT	F16K 35/02
(31) 201762530571 P	(72) PAVALLIER, Pierrick	E03C 1/04
(32) 10.07.2017	PROST, Fabrice	(11) EP3596366
(33) United States of America	(74) ir. H.A. Witmans c.s.	(21) EP17900610.1
(47) 12.04.2023	(31) 1905386	(22) 12.12.2017
(51) F03D 1/06	(32) 22.05.2019	(54) SAFETY VALVE ASSEMBLY FOR
(11) EP3874145	(33) France	DISPENSING LIQUIDS

(73) Unito Smart Technologies Limited	F21Y 115/10	(32) 24.09.2014
(72) DAHAN, Yuval-Yoni	F21V 31/04	(33) China
DAHAN, Abraham	(11) EP3209935	(47) 07.06.2023
(74) J.M.H. Duyver lic.	(21) EP15851657.5	(51) F24H 9/13
(31) 25111917	(22) 23.10.2015	F24H 1/52
(32) 13.03.2017	(54) LIGHTING APPARATUS FOR	F24H 9/06
(33) Israel	HAZARDOUS AREAS	F24D 3/18
(47) 03.05.2023	(73) OY MTG-Meltron Ltd.	F24D 17/00
(51) F16L 5/08	(72) HATJASALO, Leo	F24D 17/02
H02G 3/22	RINKO, Kari	F24D 19/10
(11) EP3982024	(74) dr. R.C. van Duijvenbode c.s.	F28D 7/10
(21) EP21206836.5	(31) 201462067602 P	F28D 7/14
(22) 17.05.2018	(32) 23.10.2014	F24H 4/04
(54) DEVICE FOR SEALING AND/OR THE	(33) United States of America	F24D 3/08
PARTITION OF A PASSAGE WITH A	(47) 12.04.2023	(11) EP3637014
WALL	(51) F22B 21/30	(21) EP19201102.1
(73) DOYMA GmbH & Co	F22B 21/22	(22) 02.10.2019
(72) Chikatimalla, Rajesh	(11) EP3940292	(54) COMBINED DEVICE FOR HEATING OF
(74) dr. R.C. van Duijvenbode c.s.	(21) EP19919815.1	DOMESTIC WATER AND WATER FOR
(31) 202017102960 U	(22) 15.03.2019	HEATING A ROOM WITH THREE-FLUID
(32) 17.05.2017	(54) MULTI-TUBE ONCE-THROUGH BOILER	HEAT EXCHANGER
(33) Germany	(73) Ino, Takayuki	(73) Societe Industrielle de Chauffage (SIC)
(47) 10.05.2023	(72) INO, Tadayuki	(72) SAISET, Luc
(51) F16L 41/08	(74) ir. A. Blokland c.s.	FONTBONNE, Erwan
F16L 41/18	(47) 07.06.2023	CLEMENT, Jean-Francis
E03F 3/04	(51) F23D 14/84	(74) ir. W.J.J.M. Kempes
E03F 5/02	F23M 9/08	(31) 1859290
(11) EP3779259	(11) EP4086511	(32) 08.10.2018
(21) EP20187899.8	(21) EP21172238.4	(33) France
(22) 27.07.2020	(22) 05.05.2021	(47) 05.04.2023
(54) CONNECTOR FOR CONNECTING	(54) COMBUSTION CHAMBER WITH	(51) F24H 9/20
A PLASTIC PIPE TO A MINERAL	STATIC FLOW MIXING DEVICE	F24H 1/20
CHANNEL PIPE	(73) Gridlab GmbH	F24D 19/00
(73) Funke Kunststoffe GmbH	(72) Maier, Hermann	F24H 9/00
(72) Funke, Hans-Günter	(47) 19.04.2023	(11) EP3538820
Funke, Norbert	(51) F24F 11/63	(21) EP17870429.2
(74) ir. J.C. Volmer c.s.	F24F 11/64	(22) 08.11.2017
(31) 202019104525 U	F24F 11/41	(54) SYSTEM AND METHOD OF
(32) 16.08.2019	F24F 11/42	CONTROLLING A WATER HEATER
(33) Germany	(11) EP3524896	HAVING A POWERED ANODE
(47) 17.05.2023	(21) EP19156475.6	(73) A.O. Smith Corporation
(51) F21V 9/08	(22) 11.02.2019	(72) KNOEPEL, Ray, Oliver
F21K 9/00	(54) DEFROST CONTROL METHOD AND	VAN SISTINE, Thomas, G.
F21Y 113/00	HEAT PUMP SYSTEM	ROONEY, Timothy, Edward
(11) EP3770493	(73) Carrier Corporation	SCHULTZ, Michael, William
(21) EP20177281.1	(72) WANG, Weijuan	(74) ir. W.J.J.M. Kempes
(22) 09.09.2014	WENG, Jingkai	(31) 201662419207 P
(54) ENHANCED COLOR-PREFERENCE	YANG, Min	(32) 08.11.2016
LIGHTS SOURCES	(74) J.M.H. Duyver lic.	(33) United States of America
(73) Savant Technologies LLC	(31) 201810132393	(47) 24.05.2023
(72) BOYLE, Olivia, Rae	(32) 09.02.2018	(51) F25B 31/02
VICK, Kevin James	(33) China	B60H 1/00
BEERS, William, Winder	(47) 07.06.2023	F25B 47/02
ALLEN, Gary, Robert	(51) F24H 1/10	(11) EP3850280
(74) ir. W.J.J.M. Kempes	F24H 1/12	(21) EP19769684.2
(31) 201461937864 P	F24H 9/00	(22) 03.09.2019
201361875403 P	F24H 9/14	(54) TRANSPORT REFRIGERATION UNIT
(32) 10.02.2014	F24H 9/1818	USING ENGINE WASTE HEAT FOR
09.09.2013	H05B 3/04	DEFROSTING
(33) United States of America	H05B 3/44	(73) Carrier Corporation
United States of America	(11) EP3705803	(72) SUN, Jian
(47) 07.06.2023	(21) EP20172035.6	FENG, Yinshan
(51) F21V 25/12	(22) 28.04.2015	(74) J.M.H. Duyver lic.
F21V 15/01	(54) PTC HEATER	(31) 201862730915 P
F21V 31/00	(73) Bestway Inflatables & Material Corp.	(32) 13.09.2018
F21V 3/00	(72) LIU, Feng	(33) United States of America
F21S 4/28	(74) dr. R.C. van Duijvenbode c.s.	(47) 28.06.2023
F21Y 103/10	(31) 201420552731 U	(51) F25D 11/00

B60L 58/12	(22) 27.10.2013	THE PRESSURE BOUNDARY AND METHOD
B60H 1/00	(54) LOW COST GUIDING DEVICE FOR PROJECTILE	(73) Sensia Netherlands B.V.
B60L 1/00	(73) Elbit Systems - Rokar Ltd	(72) GOTTLIEB, Emanuel, J.
(11) EP3540340	(72) WURZEL, Gil	AUGENSTEIN, Donald, R.
(21) EP19162990.6	MALUL, Assaf	ESTRADA, Herbert
(22) 14.03.2019	(31) 22407512	HASTINGS, Calvin, R.
(54) LOAD MANAGEMENT FOR REFRIGERATED TRUCK UNIT	(32) 31.12.2012	ZUCKERMAN, Richard, A.
(73) Carrier Corporation	(33) Israel	FREUND, William, R., JR.
(72) ARNEDO, Luis	(47) 20.04.2022	(74) J.M.H. Duyver lic.
ADETOLA, Veronica	(51) G01B 17/02	(31) 927616
WALKER, Craig R.	G01N 29/48	201113068772
KOOI, Eeuwe Durk	G01N 29/06	(32) 19.11.2010
CHOPKO, Robert A.	G01N 29/11	19.05.2011
(74) J.M.H. Duyver lic.	(11) EP3516329	(33) United States of America
(31) 201862642944 P	(21) EP17785043.5	United States of America
(32) 14.03.2018	(22) 26.09.2017	(47) 26.04.2023
(33) United States of America	(54) DETERMINING A WALL THICKNESS OF AN OBJECT	(51) G01F 25/10
(47) 28.06.2023	(73) Röntgen Technische Dienst B.V.	G01F 25/00
(51) F25D 23/02	(72) RIGHOLT, Bernhard Willem	G01F 1/84
(11) EP3779337	VAN NOORT, Sjors	(11) EP3837510
(21) EP20197955.6	(74) ir. H.A. Witmans c.s.	(21) EP18760220.6
(22) 13.06.2008	(31) 2017536	(22) 13.08.2018
(54) SIDE-BY-SIDE REFRIGERATOR COMPRISING A DOOR OPENING DEVICE	(32) 26.09.2016	(54) METHOD TO DETERMINE WHEN TO VERIFY A STIFFNESS COEFFICIENT OF A FLOWMETER
(73) Samsung Electronics Co., Ltd.	(33) Netherlands	(73) Micro Motion Inc.
(72) Seo, Yong Man	(47) 14.06.2023	(72) DOWNING, Bert J.
(74) dr. R.C. van Duijvenbode c.s.	(51) G01B 21/04	MCANALLY, Craig B.
(31) 20080003319	G01B 5/008	(74) dr. R.C. van Duijvenbode c.s.
(32) 11.01.2008	G01B 11/00	(47) 14.06.2023
(33) Korea (Republic)	G05B 19/401	(51) G01J 3/02
(47) 10.05.2023	(11) EP3283840	G01J 3/44
(51) F27B 7/16	(21) EP16710613.7	G01J 1/02
F27D 1/14	(22) 08.03.2016	(11) EP3304013
(11) EP3833919	(54) CMM PROBE PATH CONTROLLER AND METHOD	(21) EP16726568.5
(21) EP20713034.5	(73) Hexagon Metrology, Inc	(22) 01.06.2016
(22) 27.03.2020	(72) CARLSON, Scott	(54) IMPROVED RAMAN SPECTROSCOPY SYSTEM
(54) LIFTER FOR A ROTATING KILN	RACINE, Paul	(73) Serstech AB
(73) Sarp Industries	(74) ir. H.A. Witmans c.s.	(72) SZYBEK, Katja
PA Technologies	(31) 201514685780	SONNVIK, Jan
(72) MIGUET, Christophe	(32) 14.04.2015	(74) dr. R.C. van Duijvenbode c.s.
CHAUCHERIE, Xavier	(33) United States of America	(31) 1550706
BERG, Philippe	(47) 07.06.2023	(32) 01.06.2015
KOWALSKI, Damien	(51) G01F 1/58	(33) Sweden
BELMONT, Daniel	G01F 1/684	(47) 17.05.2023
MAIGNE, Eric	G01F 1/36	(51) G01L 5/00
(74) dr. R.C. van Duijvenbode c.s.	(11) EP4001857	(11) EP4012367
(31) 1903423	(21) EP21208661.5	(21) EP20213347.6
(32) 29.03.2019	(22) 17.11.2021	(22) 11.12.2020
(33) France	(54) FLOW METER, SENSOR UNIT AND METHOD FOR MANUFACTURING A FLOW METER	(54) FLEXURE PIVOT BASED SYSTEM
(47) 07.06.2023	(73) Krohne AG	(73) Ecole Polytechnique Fédérale de Lausanne (EPFL)
(51) F28D 19/04	(72) Elenbaas, Jacco	(72) HENEIN, Simon
F23L 15/04	Braanker, Gijs	TISSOT-DAGUETTE, Loïc
(11) EP3336472	(74) ir. W.J.J.M. Kempes	DAGON, Benoît
(21) EP16203842.6	(31) 102020130596	SMRECZAK, Michal
(22) 13.12.2016	(32) 19.11.2020	(74) J.M.H. Duyver lic.
(54) ROTATION HEAT EXCHANGER SET	(33) Germany	(47) 03.05.2023
(73) KASTT, SPOL. S.R.O.	(47) 12.04.2023	(51) G01N 15/14
Wolf GmbH	(51) G01F 1/667	(11) EP3513167
(72) TAJZLER, Petr	G01F 1/66	(21) EP17851348.7
RIEBESECKER, Richard	(11) EP2641064	(22) 07.09.2017
(74) dr. R.C. van Duijvenbode c.s.	(21) EP11841401.0	(54) FLOW CYTOMETER WITH OPTICAL EQUALIZATION
(47) 19.04.2023	(22) 02.11.2011	(73) Becton, Dickinson and Company
(51) F42B 10/64	(54) CHORDAL GAS FLOWMETER WITH TRANSDUCERS INSTALLED OUTSIDE	(72) BAHR, Matthew
F42B 10/26		
(11) EP3388777		
(21) EP18176091.9		

- DIEBOLD, Eric D.
OWSLEY, Keegan
(74) ir. W.J.J.M. Kempes
(31) 201662393976 P
(32) 13.09.2016
(33) United States of America
(47) 24.05.2023
-
- (51) G01N 21/31
G01N 21/35
G01N 21/3577
(11) EP3861321
(21) EP19782811.4
(22) 10.09.2019
(54) METHOD OF DETERMINING OCTANE NUMBER OF NAPHTHA AND OF DETERMINING CETANE NUMBER OF DIESEL FUEL OR JET FUEL USING INFRARED SPECTROSCOPY
(73) ExxonMobil Technology and Engineering Company
(72) BOWIE, Bryan T.
LEE, John E.
HAGEE, Bryan E.
(74) ir. W.J.J.M. Kempes
(31) 201862740032 P
(32) 02.10.2018
(33) United States of America
(47) 26.04.2023
-
- (51) G01N 21/64
C12Q 1/68
C12Q 1/6874
(11) EP3465159
(21) EP17730311.2
(22) 01.06.2017
(54) INTEGRATED DEVICE FOR DETECTING AND ANALYZING MOLECULES
(73) Quantum-Si Incorporated
(72) FIFE, Keith, G.
SICKLER, Jason, W.
BEACH, James
CIPRIANY, Benjamin
LACKEY, Jeremy
KABIRI, Ali
WEST, Lawrence, C.
GHASEMI, Farshid
PRESTON, Kyle
SCHMID, Gerard
ROTHBERG, Jonathan, M.
GLENN, Paul, E.
(74) dr. R.C. van Duijvenbode c.s.
(31) 201662344123 P
(32) 01.06.2016
(33) United States of America
(47) 05.04.2023
-
- (51) G01N 21/64
G01N 21/03
G01N 21/05
(11) EP2834622
(21) EP13710114.3
(22) 13.02.2013
(54) INTEGRATED OPTOELECTRONIC READ HEAD AND FLUIDIC CARTRIDGE USEFUL FOR NUCLEIC ACID SEQUENCING
(73) Illumina, Inc.
(72) NIBBE, Mark J.
HONG, Stanley S.
- MOON, John A.
CRANE, Bryan
WANG, Mark
HAGE, Matthew
HARRIS, Jason
BUERMANN, Dale
(74) ir. W.J.J.M. Kempes
(31) 201261619784 P
(32) 03.04.2012
(33) United States of America
(47) 12.04.2023
-
- (51) G01N 21/90
(11) EP2726856
(21) EP12731224.7
(22) 06.06.2012
(54) OPTICAL INSPECTION OF CONTAINERS
(73) Owens-Brockway Glass Container INC.
(72) HALL Jr., George, H.
KOHLE, Timothy, A.
MICHALSKI, Thomas, F.
RINGLIEN, James, A.
GRAFF, Stephen, M.
DANIEL, Benjamin, L.
JUVINALL, John, W.
(74) ir. W.J.J.M. Kempes
(31) 201113172258
(32) 29.06.2011
(33) United States of America
(47) 31.05.2023
-
- (51) G01N 30/60
G01N 1/22
G01N 30/88
(11) EP3274703
(21) EP16723804.7
(22) 18.04.2016
(54) SORBENT TUBE HOLDER
(73) Orbital Infrastructure Group, Inc.
(72) KNIGHT, Jeremy
KNIGHT, Tom
(74) ir. W.J.J.M. Kempes
(31) 201506662
(32) 20.04.2015
(33) United Kingdom
(47) 10.05.2023
-
- (51) G01N 33/44
G01N 25/14
(11) EP2976637
(21) EP14720884.7
(22) 17.02.2014
(54) TESTING DEVICE
(73) Barkey GmbH & Co. KG
(72) BARKEY, Thomas
(74) ir. H.A. Witmans c.s.
(31) 202013101214 U
(32) 21.03.2013
(33) Germany
(47) 05.04.2023
-
- (51) G01N 33/533
G01N 33/58
C12N 15/115
C12Q 1/68
C12Q 1/6804
(11) EP4030166
(21) EP22151320.3
(22) 11.03.2015
(54) HIGH-THROUGHPUT AND HIGHLY MULTIPLEXED IMAGING WITH
- PROGRAMMABLE NUCLEIC ACID PROBES
(73) President and Fellows of Harvard College
(72) Agasti, Sarit
Yin, Peng
Jungmann, Ralf
Chen, Xi
(74) ir. A. Blokland c.s.
(31) 201461951461 P
(32) 11.03.2014
(33) United States of America
(47) 28.06.2023
-
- (51) G01N 33/68
G01N 33/70
(11) EP3740760
(21) EP19704140.3
(22) 21.01.2019
(54) BIOMARKERS AND CLASSIFICATION ALGORITHMS FOR CHRONIC KIDNEY DISEASE IN CATS
(73) Mars, Incorporated
(72) TAGKOPOULOS, Ilias
BRADLEY, Richard
FEUGIER, Alexandre
DELMOTTE, Sebastien
BIOURGE, Vincent
(74) dr. R.C. van Duijvenbode c.s.
(31) 201862698046 P
201862619681 P
(32) 14.07.2018
19.01.2018
(33) United States of America
United States of America
(47) 31.05.2023
-
- (51) G01N 35/00
G01N 35/04
(11) EP3281018
(21) EP16716793.1
(22) 06.04.2016
(54) SYSTEMS AND METHODS FOR READING MACHINE-READABLE LABELS ON SAMPLE RECEPTACLES
(73) Gen-Probe Incorporated
(72) HAGEN, Norbert
SILBERT, Rolf
OPALSKY, David
(74) ir. W.J.J.M. Kempes
(31) 201562143963 P
(32) 07.04.2015
(33) United States of America
(47) 07.06.2023
-
- (51) G01N 35/02
G01N 35/10
G01N 35/04
G01N 35/00
G01N 33/53
(11) EP2690445
(21) EP12764053.0
(22) 23.03.2012
(54) APPARATUS FOR AUTOMATIC ANALYSIS AND SAMPLE ANALYSIS METHOD THEREOF
(73) Shenzhen Mindray Bio-Medical Electronics Co., Ltd.
(72) ZHANG, Zhen
ZHOU, Peng
XIE, Chuanfen

WANG, Hai	(21) EP15829958.6	G02B 27/00
WANG, Jun	(22) 30.06.2015	(11) EP2831659
(74) ir. A.E. Dekker-Garms	(54) HANDHELD MULTI-SENSOR SYSTEM	(21) EP13711118.3
(31) 201110074104	FOR SIZING IRREGULAR OBJECTS	(22) 18.03.2013
(32) 25.03.2011	(73) BODIDATA, INC.	(54) IMPROVEMENTS IN OR RELATING TO
(33) China	(72) KUTNICK, Robert	OPTICAL WAVEGUIDES
(47) 03.05.2023	HARVILL, Young	(73) Snap Inc.
(51) G01R 1/04	CHARPENTIER, Albert	(72) VALERA, Mohmed, Salim
G01N 1/42	WORSNOP, Kent	SIMMONDS, Michael, David
G01R 31/28	BOYLAN, Michael	(74) J.M.H. Duyver lic.
B01L 7/00	(74) J.M.H. Duyver lic.	(31) 201205383
G01N 21/01	(31) 201462019023 P	(32) 27.03.2012
(11) EP3111240	(32) 30.06.2014	(33) United Kingdom
(21) EP15708874.1	(33) United States of America	(47) 10.05.2023
(22) 02.03.2015	(47) 19.04.2023	(51) G02B 27/01
(54) SAMPLE HOLDING SYSTEM	(51) G01S 13/88	G06F 3/16
(73) Oxford Instruments Nanotechnology	G01F 22/00	G06F 3/01
Tools Limited	G01F 25/00	G06F 3/0346
(72) SHARP, Peter	G01F 23/284	A63F 13/428
JEDAMZIK, Dieter	G01F 17/00	A63F 13/211
(74) J.M.H. Duyver lic.	G01S 7/41	(11) EP3427103
(31) 201403519	G01S 13/42	(21) EP17711741.3
(32) 28.02.2014	(11) EP3730908	(22) 10.03.2017
(33) United Kingdom	(21) EP19171391.6	(54) VIRTUAL REALITY
(47) 14.06.2023	(22) 26.04.2019	(73) Sony Interactive Entertainment Inc.
(51) G01R 35/00	(54) METHOD FOR DETERMINING	(72) ECHENIQUE, Martin
G01R 29/08	A LINEARISATION CURVE FOR	SHENTON, Martin
G01R 31/00	DETERMINING THE FILL LEVEL IN	SHAPIRO, Elisheva
(11) EP3540454	A CONTAINER AND USE OF A FILL	BLACKSHAW, Claire
(21) EP19162501.1	LEVEL MEASURING DEVICE FOR THIS	(74) ir. W.J.J.M. Kempes
(22) 13.03.2019	METHOD	(31) 201619809
(54) PROBE SYSTEM AND METHOD FOR	(73) VEGA Grieshaber KG	201604203
MEASURING AN ELECTRIC FIELD	(72) Allgaier, Stefan	(32) 23.11.2016
(73) Inpacare B.V.	(74) J.M.H. Duyver lic.	11.03.2016
(72) DIJKSTRA, Patrick Walter Joseph	(47) 07.06.2023	(33) United Kingdom
VAN PEER, Antonius Josephus	(51) G01V 1/28	United Kingdom
(74) dr. ir. G.J.C. Verdijk c.s.	(11) EP3377923	(47) 07.06.2023
(31) 2020586	(21) EP16866813.5	(51) G02C 7/04
(32) 14.03.2018	(22) 14.10.2016	G02C 7/06
(33) Netherlands	(54) HORIZON-BASED SPLITTING	(11) EP2283392
(47) 03.05.2023	INTENSITY INVERSION FOR	(21) EP09734251.3
(51) G01S 5/00	ANISOTROPIC CHARACTERIZATION	(22) 23.04.2009
G01S 5/02	OF A TARGET VOLUME	(54) DIFFRACTIVE LENS EXHIBITING
H04W 4/02	(73) Geoquest Systems B.V.	ENHANCED OPTICAL PERFORMANCE
H04W 8/00	(72) BOIERO, Daniele	(73) AMO Regional Holdings
H04W 24/10	BAGAINI, Claudio	(72) WEEBER, Hendrik, A.
H04W 52/02	(74) ir. A. Blokland c.s.	(74) dr. R.C. van Duijvenbode c.s.
(11) EP3499261	(31) 201562257023 P	(31) 47699 P
(21) EP19154163.0	(32) 18.11.2015	109251
(22) 26.10.2015	(33) United States of America	(32) 24.04.2008
(54) TECHNIQUES FOR DETERMINING A	(47) 05.04.2023	24.04.2008
POSITION FIX OF AN OBJECT USING	(51) G01V 99/00	(33) United States of America
ONE OR MORE MOBILE DEVICES CO-	G01V 1/28	United States of America
LOCATED WITH THE OBJECT	(11) EP3253946	(47) 07.06.2023
(73) QUALCOMM INCORPORATED	(21) EP16746972.5	(51) G02F 1/35
(72) Werner, Benjamin A.	(22) 26.01.2016	G02F 1/39
Gao, Weihua	(54) SEISMIC ATTRIBUTES DERIVED	(11) EP3685224
Venkatraman, Sai Pradeep	FROM THE RELATIVE GEOLOGICAL	(21) EP18786097.8
(74) dr. R.C. van Duijvenbode c.s.	AGE PROPERTY OF A VOLUME-	(22) 18.09.2018
(31) 201414566552	BASED MODEL	(54) LIGHT SOURCE WITH MULTI-
(32) 10.12.2014	(73) Geoquest Systems B.V.	LONGITUDINAL MODE CONTINUOUS
(33) United States of America	(72) SOUCHE, Laurent Arnaud	WAVE OUTPUT BASED ON
(47) 07.06.2023	(74) ir. A. Blokland c.s.	MULTI-MODE RESONANT OPO
(51) G01S 13/86	(31) 1550910	TECHNOLOGY
A41H 1/02	(32) 05.02.2015	(73) Qioptiq Photonics GmbH & Co. KG
G01B 11/245	(33) France	(72) MUELLER, Frank
G01S 13/89	(47) 05.04.2023	(74) ir. W.J.J.M. Kempes
(11) EP3161516	(51) G02B 27/01	(31) 201715809572

201762561428 P	(51) G03G 21/16	(21) EP19835900.2
(32) 10.11.2017	G03G 15/08	(22) 04.11.2019
21.09.2017	(11) EP3652592	(54) MAGNETIC SENSING DEVICE FOR LID
(33) United States of America	(21) EP18890345.4	(73) Google LLC
United States of America	(22) 18.07.2018	(72) LI, Hui
(47) 19.04.2023	(54) CARTRIDGE HAVING ROTATABLE	DING, Yao
(51) G03F 7/20	COUPLER	(74) dr. R.C. van Duijvenbode c.s.
G03F 1/84	(73) Hewlett-Packard Development Company,	(31) 201962793456 P
B08B 5/02	L.P.	(32) 17.01.2019
G02B 3/00	(72) KIM, Sung Dae	(33) United States of America
(11) EP2969272	JANG, Ho Jun	(47) 05.04.2023
(21) EP14769672.8	YANG, Seung Beom	(51) G06F 1/16
(22) 14.03.2014	SHIN, Dae Lim	G06F 3/0488
(54) APPARATUS FOR PROVIDING A	(74) ir. W.J.J.M. Kempes	G06F 3/0481
LOCAL CLEAN MICRO-ENVIRONMENT	(31) 20170177589	(11) EP3617834
NEAR OPTICAL SURFACES OF AN	(32) 21.12.2017	(21) EP19162056.6
EXTREME ULTRAVIOLET OPTICAL	(33) Korea (Republic)	(22) 11.03.2019
SYSTEM	(47) 07.06.2023	(54) METHOD FOR OPERATING
(73) KLA - Tencor Corporation	(51) G04B 17/10	HANDHELD DEVICE, HANDHELD
(72) CHILESE, Francis C.	G04B 17/04	DEVICE AND COMPUTER-READABLE
TAHMASSEBPUR, Mohammed	(11) EP3948433	RECORDING MEDIUM THEREOF
DELGADO, Gildardo	(21) EP20712626.9	(73) HTC Corporation
HARB, Salam	(22) 26.03.2020	(72) TSAI, Pei-Chun
GARCIA, Rudy	(54) SPHERICAL OSCILLATOR FOR A	LIN, Shih-Lung
(74) ir. W.J.J.M. Kempes	TIMEPIECE MECHANISM	HUNG, Yu-Cheng
(31) 201313857615	(73) LVMH Swiss Manufactures SA	(74) dr. R.C. van Duijvenbode c.s.
201361792581 P	(72) SEMON, Guy	(31) 201816120323
(32) 05.04.2013	MERCIER, Thomas	(32) 03.09.2018
15.03.2013	(74) dr. R.C. van Duijvenbode c.s.	(33) United States of America
(33) United States of America	(31) 1903703	(47) 12.04.2023
United States of America	(32) 05.04.2019	(51) G06F 1/16
(47) 21.06.2023	(33) France	H04M 1/02
(51) G03F 9/00	(47) 19.04.2023	(11) EP3942386
(11) EP3537219	(51) G04F 5/14	(21) EP21753580.6
(21) EP19160584.9	(11) EP3953770	(22) 10.02.2021
(22) 04.03.2019	(21) EP20713332.3	(54) FOLDABLE ELECTRONIC DEVICE
(54) PATTERN FORMING APPARATUS AND	(22) 30.03.2020	INCLUDING HINGE ASSEMBLY
ARTICLE MANUFACTURING METHOD	(54) MINIATURE ATOMIC CLOCK WITH	(73) Samsung Electronics Co., Ltd.
(73) CANON KABUSHIKI KAISHA	PULSE MODE OPERATION	(72) JEONG, Seongki
(72) FUJISHIMA, Hironobu	(73) Syrlinks	KANG, Jongmin
(74) J.M.H. Duyver lic.	(72) BROUCQUART, Romain	KIM, Jinguok
(31) 2018041198	DANET, Jean-Marie	RHEE, Wonseok
(32) 07.03.2018	(74) J.M.H. Duyver lic.	LEE, Suman
(33) Japan	(31) 1903687	SHIM, Heebo
(47) 10.05.2023	(32) 08.04.2019	CHOI, Seungwhhee
(51) G03G 15/08	(33) France	(74) dr. R.C. van Duijvenbode c.s.
(11) EP3026498	(47) 26.04.2023	(31) 20200015993
(21) EP15191482.7	(51) G05B 15/02	(32) 10.02.2020
(22) 26.10.2015	H04L 12/28	(33) Korea (Republic)
(54) REMANUFACTURING METHOD OF	(11) EP3256914	(47) 07.06.2023
DEVELOPER ACCOMMODATING UNIT	(21) EP15828463.8	(51) G06F 1/16
(73) CANON KABUSHIKI KAISHA	(22) 30.12.2015	H04M 1/02
(72) USUI, Yusuke	(54) METHODS, SYSTEMS, AND MEDIA	(11) EP3961348
NISHIYA, Satoshi	FOR AMBIENT BACKGROUND NOISE	(21) EP21193036.7
IKEDA, Takahiro	MODIFICATION BASED ON MOOD	(22) 25.08.2021
SATO, Masaaki	AND/OR BEHAVIOR INFORMATION	(54) DISPLAY DEVICE
KASHIIDE, Yosuke	(73) Google LLC	(73) Samsung Display Co., Ltd.
TOBA, Shinjiro	(72) BRUNE, Kevin	(72) Park, In Soo
YANO, Kouki	VALZ, Duane Richard	Sim, Jin Yong
MATSUDA, Kohei	LIU, Eric, HC	(74) drs. A.A. Jilderda
SUZUKI, Tatsuya	GORAN, Charles	(31) 20200146722
ISOBE, Yuta	(74) dr. W.A.H.M. Van Borm	20200107981
KASE, Takashi	(31) 201514619827	(32) 05.11.2020
(74) J.M.H. Duyver lic.	(32) 11.02.2015	26.08.2020
(31) 2014218519	(33) United States of America	(33) Korea (Republic)
(32) 27.10.2014	(47) 31.05.2023	Korea (Republic)
(33) Japan	(51) G06F 1/16	(47) 24.05.2023
(47) 03.05.2023	(11) EP3912008	(51) G06F 1/20

H01L 23/427	FORSSELL, Lisa	(31) 201916242708
H01L 21/48	(74) ir. J.C. Volmer c.s.	201862725058 P
F28D 15/02	(31) PA201870375	(32) 08.01.2019
F28D 15/04	PA201870374	30.08.2018
H05K 7/20	PA201870372	(33) United States of America
B33Y 10/00	PA201870377	United States of America
B33Y 80/00	201816142328	(47) 19.04.2023
H01L 23/40	201816142305	(51) G06F 3/0346
F28D 20/00	201816142288	G06F 3/03
(11) EP3507676	201816116221	G06F 3/01
(21) EP17794473.3	201862679950 P	(11) EP4086733
(22) 18.10.2017	201862668200 P	(21) EP22165216.7
(54) ADDITIVE MANUFACTURED PASSIVE THERMAL ENCLOSURE	(32) 12.06.2018	(22) 29.03.2022
(73) Microsoft Technology Licensing, LLC	12.06.2018	(54) HANDHELD ELECTRONIC DEVICE
(72) STELLMAN, Jeffrey Taylor	12.06.2018	(73) HTC Corporation
JENKINS, Kurt	26.09.2018	(72) Chen, Chih-Chien
GHIONI, Lincoln	26.09.2018	Wei, Chang-Hua
DELANO, Andrew Douglas	26.09.2018	Huang, Pei-Ping
(74) dr. R.C. van Duijvenbode c.s.	29.08.2018	Huang, Chun-Kai
(31) 201615336635	03.06.2018	(74) dr. R.C. van Duijvenbode c.s.
(32) 27.10.2016	07.05.2018	(31) 202217687677
(33) United States of America	(33) Denmark	202163183070 P
(47) 07.06.2023	Denmark	(32) 07.03.2022
(51) G06F 1/32	Denmark	03.05.2021
G06F 1/04	Denmark	(33) United States of America
(11) EP3504607	United States of America	United States of America
(21) EP17847152.0	United States of America	(47) 14.06.2023
(22) 27.07.2017	United States of America	(51) G06F 8/70
(54) A METHOD AND APPARATUS FOR AUTOMATIC ADAPTIVE VOLTAGE CONTROL	United States of America	(11) EP3679471
(73) Intel Corporation	United States of America	(21) EP18743632.4
(72) SHULMAN, Nadav	United States of America	(22) 22.06.2018
NATANZON, Esfir	United States of America	(54) DYNAMIC COMMAND GENERATION FOR AUTOMATED CONTROL OF COMPUTING MACHINES
NATHAN, Ofer	(47) 19.04.2023	(73) Microsoft Technology Licensing, LLC
RAGLAND, Daniel J.	(51) G06F 3/01	(72) HUANG, Wei
GUR, Ariel	H04B 5/00	RAJAGOPALAN, Rajeswari
(74) ir. W.J.J.M. Kempes	(11) EP3637227	LI, Zhongyuan
(31) 201615250123	(21) EP19192469.5	BRUNO, Joshua B.
(32) 29.08.2016	(22) 20.05.2014	(74) dr. R.C. van Duijvenbode c.s.
(33) United States of America	(54) METHOD FOR PERFORMING OPERATION ON INTELLIGENT WEARING DEVICE BY USING GESTURE, AND INTELLIGENT WEARING DEVICE	(31) 201715698204
(47) 10.05.2023	(73) Huawei Technologies Co. Ltd.	(32) 07.09.2017
(51) G06F 3/01	(72) YANG, Xuqiao	(33) United States of America
G06F 3/04883	CHEN, Xi	(47) 07.06.2023
G06F 3/04817	(74) ir. W.J.J.M. Kempes	(51) G06F 9/50
A63F 13/63	(47) 12.04.2023	(11) EP3680774
A63F 13/533	(51) G06F 3/0346	(21) EP19204510.2
A63F 13/537	G06F 3/01	(22) 22.10.2019
H04M 1/725	G06F 3/03	(54) WORKLOAD SCHEDULING AND DISTRIBUTION ON A DISTRIBUTED GRAPHICS DEVICE
H04M 1/72439	G06F 3/04815	(73) Intel Corporation
G06K 9/00	G06T 19/00	(72) Fliflet, Brandon
G06T 7/246	H04N 5/272	Nalluri, Hema
G06T 11/60	H04N 9/87	Ashbaugh, Ben
G06T 13/40	G11B 27/00	Apodaca, Michael
G06F 3/03	G11B 27/031	Puffer, David
G06F 3/0482	H04L 51/10	Ray, Joydeep
G06V 40/16	H04L 51/18	Schluessler, Travis
G06N 3/00	(11) EP3844598	Vembu, Balaji
(11) EP3584679	(21) EP19769288.2	Valerio, James
(21) EP19181242.9	(22) 28.08.2019	Appu, Abhishek
(22) 02.05.2019	(54) VIDEO CLIP OBJECT TRACKING	Ramadoss, Murali
(54) AVATAR CREATION USER INTERFACE	(73) Snap Inc.	Shah, Ankur
(73) Apple Inc.	(72) HARE, Samuel Edward	Navale, Aditya
(72) GARCIA III, Robert	MCPHEE, Andrew James	(74) ir. W.J.J.M. Kempes
VAN OS, Marcel	MATHEW, Tony	(31) 201916243624
GUZMAN, Aurelio	(74) ir. F.A. Geurts c.s.	(32) 09.01.2019
SCAPEL, Nicolas		

(33) United States of America (47) 26.04.2023	G06F 15/173 G06F 13/42	BALASUBRAMANYAN, Balaji KARADEMIR, Ahmed Saruhan KURJANOWICZ, Matthew David
(51) G06F 9/50	G06F 13/40	GHOSH, Sudeep Kumar
(11) EP3745265	H04L 49/10	SRIVASTAVA, Ankit
(21) EP20176132.7	H04L 67/10	SUGANDHI, Tushar Suresh
(22) 22.05.2020	H04L 67/1097	VISWANATHAN, Giridhar
(54) SYSTEM AND METHOD OF PROVISIONING, UPGRADING AND TRACKING SOLUTIONS IN A MULTI TENANTED PLATFORM	(11) EP3479535 (21) EP17820859.1 (22) 02.06.2017	PASHNIAK, Michael Trevor PULAPAKA, Hari R.
(73) Tata Consultancy Services Limited	(54) REMOTE MEMORY OPERATIONS	(74) J.M.H. Duyver lic.
(72) KRISHNAN, Narayanaswamy PALANICHAMY, Kumar SHAH, Viral Prakash	(73) Intel Corporation	(31) 201815994928
(74) dr. ir. G.J.C. Verdijck c.s.	(72) VOGT, Pete	(32) 31.05.2018
(31) 201921021328	WILLHALM, Thomas	(33) United States of America
(32) 29.05.2019	KUMAR, Karthik	(47) 07.06.2023
(33) India	GUIM BERNAT, Francesc	(51) G06F 21/32
(47) 12.04.2023	RANGANATHAN, Narayan	G06F 3/0488
(51) G06F 9/54	(74) ir. W.J.J.M. Kempes	(11) EP3757831
G06F 9/48	(31) 201615201373	(21) EP20153790.9
G06F 9/44	(32) 01.07.2016	(22) 16.02.2015
(11) EP3405869	(33) United States of America	(54) FINGERPRINT EVENT PROCESSING METHOD, APPARATUS, AND TERMINAL
(21) EP17701411.5	(47) 03.05.2023	(73) Huawei Technologies Co. Ltd.
(22) 12.01.2017	(51) G06F 13/40	(72) WANG, Zaishang
(54) METHOD AND AN APPARATUS FOR PROVIDING A MULTITASKING VIEW	G06F 1/26	(74) ir. W.J.J.M. Kempes
(73) Microsoft Technology Licensing, LLC	G06F 1/16	(47) 12.04.2023
(72) RAINISTO, Roope	(11) EP3584713	(51) G06F 21/60
(74) dr. R.C. van Duijvenbode c.s.	(21) EP19180056.4	(11) EP3846060
(31) 201614997996	(22) 13.06.2019	(21) EP21159310.8
(32) 18.01.2016	(54) MODULE AND METHOD FOR DETECTING THE PRESENCE OF AN ELECTRONIC PAYMENT TERMINAL ON A HOST BASE, CORRESPONDING HOST BASE	(22) 20.12.2017
(33) United States of America	(73) Banks and Acquirers International Holding	(54) KEY VAULT ENCLAVE
(47) 07.06.2023	(72) GOULON, Maxime	(73) Microsoft Technology Licensing, LLC
(51) G06F 11/36	LEBONNOIS, Etienne	(72) Costa, Manuel
(11) EP3652648	(74) ir. W.J.J.M. Kempes	(74) J.M.H. Duyver lic.
(21) EP18730930.7	(31) 1855338	(31) 201715414394
(22) 25.05.2018	(32) 18.06.2018	(32) 24.01.2017
(54) REPLAYING TIME-TRAVEL TRACES RELYING ON PROCESSOR UNDEFINED BEHAVIOR	(33) France	(33) United States of America
(73) Microsoft Technology Licensing, LLC	(47) 19.04.2023	(47) 07.06.2023
(72) MOLA, Jordi	(51) G06F 13/42	(51) G06F 21/74
(74) J.M.H. Duyver lic.	G06F 13/14	G06F 21/64
(31) 201715645541	G06F 13/40	(11) EP3179400
(32) 10.07.2017	G06F 9/4401	(21) EP16202743.7
(33) United States of America	(11) EP3274858	(22) 07.12.2016
(47) 07.06.2023	(21) EP16769278.9	(54) METHOD FOR LOADING A COMPUTING RESOURCE INTO AN ELECTRONIC DEVICE, ELECTRONIC MODULE AND CORRESPONDING COMPUTER PROGRAM
(51) G06F 12/12	(22) 26.02.2016	(73) Banks and Acquirers International Holding
G06F 12/0804	(54) METHOD, APPARATUS AND SYSTEM FOR ENCAPSULATING INFORMATION IN A COMMUNICATION	(72) AUFFRAY, Christophe
G06F 12/0866	(73) Intel Corporation	(74) ir. W.J.J.M. Kempes
G06F 12/126	(72) KRITHIVAS, Ramamurthy	(31) 1561948
(11) EP3353664	NAIR, Mohan K.	(32) 07.12.2015
(21) EP16849177.7	THOMAS, Brent D.	(33) France
(22) 29.07.2016	(74) ir. W.J.J.M. Kempes	(47) 12.04.2023
(54) METHOD AND APPARATUS FOR PINNING MEMORY PAGES IN A MULTI- LEVEL SYSTEM MEMORY	(31) 201514669295	(51) G06N 3/04
(73) Intel Corporation	(32) 26.03.2015	(11) EP3446257
(72) ANANTARAMAN, Aravindh V. FANNING, Blaise	(33) United States of America	(21) EP17728707.5
(74) ir. W.J.J.M. Kempes	(47) 24.05.2023	(22) 19.05.2017
(31) 201514865571	(51) G06F 21/12	(54) INTERACTION NETWORKS
(32) 25.09.2015	(11) EP3785149	(73) Deepmind Technologies Limited
(33) United States of America	(21) EP19727812.0	(72) BATTAGLIA, Peter, William
(47) 07.06.2023	(22) 16.05.2019	PASCANU, Razvan
(51) G06F 13/16	(54) MEMORY ASSIGNMENT FOR GUEST OPERATING SYSTEMS	(74) ir. H.A. Witmans c.s.
	(73) Microsoft Technology Licensing, LLC	(31) 201662339703 P
	(72) SCHULTZ, Benjamin M.	(32) 20.05.2016
		(33) United States of America

(47) 05.04.2023	(21) EP15188194.3	G16H 30/40
(51) G06Q 10/04	(22) 02.10.2015	(11) EP3459048
B65G 1/137	(54) SYSTEM AND METHOD OF	(21) EP17725483.6
G06Q 10/08	WATERMARKING	(22) 15.05.2017
G06Q 50/28	(73) Sony Interactive Entertainment Europe	(54) MOTION-BASED IMAGE
(11) EP3693901	Limited	SEGMENTATION SYSTEMS AND
(21) EP20155325.2	(72) HUMPHRIES, Stephen Andrew	METHODS
(22) 04.02.2020	(74) ir. W.J.J.M. Kempes	(73) Acist Medical Systems, Inc.
(54) METHOD FOR SEQUENCING	(31) 201418712	(72) VLAANDEREN, Wouter
LOADS IN AN AUTOMATED TIMING	(32) 21.10.2014	BHATT, Advit
SYSTEM, WITH REDUCTION OF A	(33) United Kingdom	SUH, Jung Wook
DISTURBANCE DURING A LOAD	(47) 14.06.2023	(74) ir. W.J.J.M. Kempes
COLLECTION ON A MANIFOLD	(51) G06T 1/20	(31) 201662336903 P
(73) Université de Technologie de Compiègne	G06T 15/00	(32) 16.05.2016
Savoie	G06T 15/20	(33) United States of America
(72) NACE, Dritan	G06F 3/14	(47) 03.05.2023
JOUGLET, Antoine	(11) EP3392827	(51) G06T 7/55
VACHER, Blandine	(21) EP18167859.0	H04N 5/232
COLLIN, Jean-Michel	(22) 17.04.2018	H04N 13/00
(74) ir. W.J.J.M. Kempes	(54) COLLABORATIVE MULTI-USER	(11) EP3617999
(31) 1901297	VIRTUAL REALITY	(21) EP19194684.7
(32) 08.02.2019	(73) INTEL Corporation	(22) 30.08.2019
(33) France	(72) VEMBAR, Deepak S.	(54) SYSTEMS AND METHODS FOR
(47) 05.04.2023	INSKO, Brent E.	DENSE SURFACE RECONSTRUCTION
(51) G06Q 10/04	LAWS, Phillip R.	OF AN OBJECT USING GRAPH
G06Q 10/08	APODACA, Michael	SIGNAL PROCESSING
B65G 1/137	SHAH, Ankur N.	(73) Tata Consultancy Services Limited
G06Q 50/28	KABURLASOS, Nikos	(72) PURUSHOTHAMAN, Balamuralidhar
(11) EP3693902	RAY, Joydeep	KUMAR, Achanna Anil
(21) EP20155329.4	KWIATKOWSKI, Jacek	CHANDRA, Girish Mariswamy
(22) 04.02.2020	KUWAHARA, Atsuo	(74) dr. ir. G.J.C. Verdijck c.s.
(54) METHOD FOR SEQUENCING	KALRA, Anupreet S.	(31) 201821032911
LOADS IN AN AUTOMATED TIMING	VEMBU, Balaji	(32) 01.09.2018
SYSTEM, WITH REDUCTION OF A	LAKE, Adam T.	(33) India
DISTURBANCE DURING A LOAD	OULD-AHMED-VALL, Elmoustapha	(47) 19.04.2023
COLLECTION ON A MANIFOLD	SAKTHIVEL, Chandrasekaran	(51) G06V 10/764
(73) Savoie	SURTI, Praseonkumar	G06V 20/40
Université de Technologie de Compiègne	APPU, Abhishek R.	G11B 27/034
(72) NACE, Dritan	XIAO, Kai	H04N 21/414
VACHER, Blandine	KOKER, Altug	H04N 21/4223
JOUGLET, Antoine	BOLES, Jeffrey S.	H04N 21/44
COLLIN, Jean-Michel	VENKATARAMAN, Radhakrishnan	H04N 21/845
(74) ir. W.J.J.M. Kempes	LABBE, Hugues	H04N 21/8549
(31) 1905216	CIMINI, David M.	(11) EP3267693
1901297	FU, Wenyin	(21) EP17186209.7
(32) 17.05.2019	BOROLE, Bhushan M.	(22) 03.08.2015
08.02.2019	(74) ir. W.J.J.M. Kempes	(54) REAL TIME VIDEO SUMMARIZATION
(33) France	(31) 201715489096	(73) INTEL Corporation
France	(32) 17.04.2017	(72) Ravishankar, Iyer
(47) 05.04.2023	(33) United States of America	Tickoo, Omesh
(51) G06Q 30/00	(47) 17.05.2023	Chakraborty, Shayok
G09F 27/00	(51) G06T 7/00	(74) ir. W.J.J.M. Kempes
G09F 19/22	(11) EP3861525	(31) 201414477595
(11) EP3540716	(21) EP19780316.6	(32) 04.09.2014
(21) EP17870182.7	(22) 27.09.2019	(33) United States of America
(22) 10.08.2017	(54) CORRECTION OF IMAGES	(47) 24.05.2023
(54) INFORMATION PROCESSING	(73) Smiths Detection France S.A.S.	(51) G06V 20/40
DEVICE, INFORMATION PROCESSING	(72) JEGOU, Guillaume	G06V 10/82
METHOD, AND RECORDING MEDIUM	BERGERAT, Cindy	A61B 1/04
(73) Sony Group Corporation	MAITREJEAN, Serge	A61B 1/273
(72) MIYAJIMA, Yasushi	FAUGIER, Jean-Michel	G06N 3/04
(74) ir. W.J.J.M. Kempes	(74) ir. F.A. Geurts c.s.	A61B 1/00
(31) 2016221658	(31) 201816014	A61B 1/31
(32) 14.11.2016	(32) 01.10.2018	(11) EP3762863
(33) Japan	(33) United Kingdom	(21) EP19732280.3
(47) 07.06.2023	(47) 12.04.2023	(22) 11.06.2019
(51) G06T 1/00	(51) G06T 7/215	(54) SYSTEMS AND METHODS FOR
(11) EP3012801	G06T 7/223	PROCESSING REAL-TIME VIDEO

FROM A MEDICAL IMAGE DEVICE AND DETECTING OBJECTS IN THE VIDEO	YAMAMOTO Michiharu	(22) 25.09.2013
(73) Cosmo Artificial Intelligence - AI Limited	NAGAO Tomohiko	(54) COMFORT NOISE GENERATION METHOD AND DEVICE
(72) NGO DINH, Nhan	(74) ir. A.R. Aalbers	(73) Huawei Technologies Co., Ltd.
EVANGELISTI, Giulio	(31) 2018088753	(72) WANG, Zhe
NAVARI, Flavio	(32) 02.05.2018	(74) ir. W.J.J.M. Kempes
(74) ir. W.J.J.M. Kempes	(33) Japan	(31) 201310209760
(31) 201816008015	(47) 03.05.2023	(32) 30.05.2013
18180572	(51) G09C 1/00	(33) China
(32) 13.06.2018	H04L 9/08	(47) 19.04.2023
28.06.2018	H04L 9/32	(51) G11C 7/06
(33) United States of America	(11) EP4012689	G11C 5/14
European Patent Office (EPO)	(21) EP21212177.6	G11C 7/12
(47) 19.04.2023	(22) 03.12.2021	G11C 7/08
(51) G07D 7/1205	(54) KEY MANAGEMENT SYSTEM	G11C 7/02
G07D 7/02	PROVIDING SECURE MANAGEMENT	(11) EP3940701
G07D 7/202	OF CRYPTOGRAPHIC KEYS, AND	(21) EP19943043.0
G07D 7/12	METHODS OF OPERATING THE SAME	(22) 16.12.2019
(11) EP3646297	(73) PUFsecurity Corporation	(54) SENSE AMPLIFIER AND DRIVE
(21) EP18735299.2	(72) Liu, Yung-Hsiang	METHOD THEREFOR, AND MEMORY
(22) 29.06.2018	Yang, Ching-Sung	(73) Changxin Memory Technologies, Inc.
(54) METHOD AND DEVICE	Wu, Meng-Yi	(72) WANG, Ying
FOR VERIFYING AN	(74) ir. A.R. Aalbers	(74) dr. R.C. van Duijvenbode c.s.
ELECTROLUMINESCENT SECURITY	(31) 202063124085 P	(31) 201910818772
FEATURE IN A VALUE OR SECURITY	(32) 11.12.2020	(32) 30.08.2019
DOCUMENT BY UTILIZING	(33) United States of America	(33) China
ADDITIONAL LIGHT RADIATION	(47) 19.04.2023	(47) 10.05.2023
(73) Bundesdruckerei GmbH	(51) G09G 3/3225	(51) G11C 11/00
(72) PETERS, Florian	(11) EP3637401	G11C 16/02
(74) J.M.H. Duyver lic.	(21) EP19202079.0	G11C 16/04
(31) 102017211104	(22) 08.10.2019	G11C 16/26
(32) 29.06.2017	(54) GATE DRIVER AND DISPLAY DEVICE	(11) EP3807879
(33) Germany	INCLUDING THE SAME	(21) EP19819255.1
(47) 05.04.2023	(73) Samsung Display Co., Ltd.	(22) 04.05.2019
(51) G08B 13/14	(72) LEE, Sang Hyun	(54) METHOD AND APPARATUS FOR
H01L 31/02	KIM, Myeong Su	REDUCING COUPLING BETWEEN
H01L 31/05	KIM, Bo Yeon	WORD LINES AND CONTROL GATE
H02S 40/34	(74) ir. H.A. Witmans c.s.	LINES IN A FLASH MEMORY SYSTEM
H02S 50/10	(31) 20180119966	(73) Silicon Storage Technology, Inc.
(11) EP3567562	(32) 08.10.2018	(72) YUE, Kaiman
(21) EP19182296.4	(33) Korea (Republic)	QIAN, Xiaozhou
(22) 31.05.2010	(47) 05.04.2023	LUO, Guang, Yan
(54) THEFT DETECTION AND PREVENTION	(51) G10L 15/22	(74) ir. H.Th. van den Heuvel c.s.
IN A POWER GENERATION SYSTEM	G10L 13/00	(31) 201810626274
(73) Solaredge Technologies Ltd.	G10L 15/26	201816118272
(72) Sella, Guy	G10L 15/183	(32) 15.06.2018
Adest, Meir	G05B 15/02	30.08.2018
Handelsman, Lior	(11) EP3314876	(33) China
Binder, Yaron	(21) EP16814948.2	United States of America
Yoscovich, Ilan	(22) 25.05.2016	(47) 19.04.2023
Fishelov, Amir	(54) TECHNOLOGIES FOR	(51) G11C 11/22
Gazit, Meir	CONVERSATIONAL INTERFACES FOR	G06F 1/32
Galin, Yoav	SYSTEM CONTROL	G11C 11/413
(74) ir. H.A. Witmans c.s.	(73) Intel Corporation	G11C 14/00
(47) 28.06.2023	(72) YARVIS, Mark D.	(11) EP3857552
(51) G08G 1/14	JACKSON, Kara E.	(21) EP19865661.3
B60W 30/06	PANDIT, Milind	(22) 22.08.2019
G01C 21/28	DICKINSON, Andrew S.	(54) SAVE-RESTORE CIRCUITRY WITH
G08G 1/00	COBBLEY, David J.	METAL-FERROELECTRIC-METAL
G08G 1/09	UPPALA, Anantha Deepthi	DEVICES
G05D 1/02	(74) ir. W.J.J.M. Kempes	(73) Intel Corporation
(11) EP3789985	(31) 201514750482	(72) VAIDYANATHAN, Kaushik
(21) EP19795970.3	(32) 25.06.2015	KURIAN, Dileep J.
(22) 17.04.2019	(33) United States of America	LIU, Huichu
(54) AUTOMATIC PARKING SYSTEM	(47) 24.05.2023	MORRIS, Daniel H.
(73) Aichi Steel Corporation	(51) G10L 19/012	AVCI, Uygur E.
(72) AOYAMA Hitoshi	G10L 19/22	KARNIK, Tanay
	(11) EP3745396	YOUNG, Ian A.
	(21) EP20169609.3	

(74) ir. W.J.J.M. Kempes (31) 201816144896 (32) 27.09.2018 (33) United States of America (47) 14.06.2023	(72) Ji, Kangling (74) ir. H.A. Witmans c.s. (31) 202110049123 (32) 14.01.2021 (33) China (47) 28.06.2023	(21) EP20919808.4 (22) 12.11.2020 (54) PACKAGE SUBSTRATE AND FORMING METHOD THEREFOR, AND PACKAGE STRUCTURE AND FORMING METHOD THEREFOR (73) Changxin Memory Technologies, Inc. (72) WU, Ping-Heng (74) ir. W.J.J.M. Kempes (31) 202010102444 (32) 19.02.2020 (33) China (47) 21.06.2023
(51) G11C 11/406 G11C 7/10 G11C 8/12 (11) EP3662475 (21) EP18731945.4 (22) 25.05.2018 (54) PARTIAL REFRESH TECHNIQUE TO SAVE MEMORY REFRESH POWER (73) Qualcomm Incorporated (72) Li, Yanru SUH, Jungwon LO, Michael Hawjing CHUN, Dexter Tamio (74) dr. R.C. van Duijvenbode c.s. (31) 201715667618 (32) 02.08.2017 (33) United States of America (47) 07.06.2023	(51) G21C 1/12 (11) EP3780004 (21) EP18914372.0 (22) 25.12.2018 (54) NUCLEAR REACTOR CORE (73) Joint Stock Company "State Scientific Centre of the Russian Federation - Institute for Physics and Power Engineering named after A.I. Lezpunsky" Joint Stock Company "Science and Innovations" (72) KROTOV, Aleksey Dmitrievich LOGINOV, Nikolay Ivanovich LITVINOV, Viktor Viktorovich (74) dr. R.C. van Duijvenbode c.s. (31) 2018113680 (32) 13.04.2018 (33) Russian Federation (47) 12.04.2023	(51) H01L 25/075 H01L 25/16 H01L 33/62 G09G 3/32 H01L 33/18 H01L 33/20 (11) EP3902001 (21) EP21156726.8 (22) 12.02.2021 (54) DISPLAY DEVICE (73) Samsung Display Co., Ltd. (72) PARK, No Kyung KIM, Kyung Bae PARK, Do Yeong (74) drs. A.A. Jilderda (31) 20200049836 (32) 24.04.2020 (33) Korea (Republic) (47) 07.06.2023
(51) G11C 11/4091 G11C 7/02 G11C 7/10 G11C 11/4093 G11C 11/4096 (11) EP3893241 (21) EP20879865.2 (22) 22.06.2020 (54) READ OPERATION CIRCUIT, SEMICONDUCTOR MEMORY AND READ OPERATION METHOD (73) Changxin Memory Technologies, Inc. (72) ZHANG, Liang (74) ir. H.A. Witmans c.s. (31) 201911021476 (32) 25.10.2019 (33) China (47) 31.05.2023	(51) H01B 1/22 H01B 1/02 (11) EP3729468 (21) EP18830276.4 (22) 21.12.2018 (54) ELECTRICALLY CONDUCTIVE PARTICLES, COMPOSITION, ARTICLE AND METHOD OF MANUFACTURING ELECTRICALLY CONDUCTIVE PARTICLES (73) ECKART GmbH (72) HILTL, Stephanie SCHILLING, Christine (74) ir. W.J.J.M. Kempes (31) 17210226 (32) 22.12.2017 (33) European Patent Office (EPO) (47) 10.05.2023	(51) H01L 25/075 H01L 33/44 H01L 33/62 (11) EP3890013 (21) EP21164775.5 (22) 25.03.2021 (54) DISPLAY DEVICE (73) Samsung Display Co., Ltd. (72) Lee, Seung Min Kim, Jin Taek Chae, Kyung Tae Yi, Jung Hwan Lee, Hee Keun Lim, Bek Hyun (74) drs. A.A. Jilderda (31) 20200040855 (32) 03.04.2020 (33) Korea (Republic) (47) 07.06.2023
(51) G11C 17/16 G11C 17/18 G11C 29/00 (11) EP3933840 (21) EP20893598.1 (22) 23.07.2020 (54) PROGRAMMABLE STORAGE UNIT AND PROGRAMMABLE MEMORY ARRAY AND READING AND WRITING METHOD THEREFOR (73) Changxin Memory Technologies, Inc. (72) YING, Zhan LI, Xin (74) ir. H.A. Witmans c.s. (31) 201911193706 (32) 28.11.2019 (33) China (47) 31.05.2023	(51) H01J 37/32 H01L 21/02 (11) EP3673504 (21) EP18762248.5 (22) 23.08.2018 (54) METHOD AND APPARATUS FOR SURFACE PREPARATION PRIOR TO EPITAXIAL DEPOSITION (73) Aixtron SE (72) KARIM, M. Ziaul TAMILMANI, Subramanian MUKHERJEE, Niloy SALDANA, Miguel Angel KIM, Hae Young COSENTINE, Dan Lester SAVAS, Stephen Edward (74) ir. F.A. Geurts c.s. (31) 201715687006 (32) 25.08.2017 (33) United States of America (47) 10.05.2023	(51) H01L 25/075 H01L 33/62 H01L 25/16 (11) EP3890012 (21) EP21161333.6 (22) 08.03.2021 (54) DISPLAY DEVICE AND MANUFACTURING METHOD THEREOF (73) Samsung Display Co., Ltd. (72) SEO, Kab Jong YANG, Yong Hoon KO, Min Suk KIM, Si Kwang (74) ir. H.A. Witmans c.s. (31) 20200030366 (32) 11.03.2020 (33) Korea (Republic)
(51) G11C 29/42 G11C 29/04 G11C 7/10 (11) EP4050608 (21) EP21854922.8 (22) 09.08.2021 (54) COMPARATOR WITH XOR AND XNOR LOGIC CIRCUITS (73) Changxin Memory Technologies, Inc.	(51) H01L 23/13 H01L 23/31 H01L 21/56 (11) EP3933910	

(47) 19.04.2023	(21) EP19832513.6	(33) China
(51) H01L 29/78	(22) 10.12.2019	(47) 07.06.2023
H01L 29/739	(54) LIGHT MODULES AND DEVICES	(51) H01M 50/296
H01L 29/10	INCORPORATING LIGHT MODULES	(11) EP3654402
H01L 29/423	(73) Corning Incorporated	(21) EP19217740.0
H01L 29/45	(72) PANICCIA, Mario	(22) 04.04.2017
H01L 29/16	KITCHEN, Tim	(54) BATTERY
H01L 29/06	TAN, Qing	(73) Sony Group Corporation
H01L 21/336	(74) dr. R.C. van Duijvenbode c.s.	(72) Kumagai, Atsuhiko
H01L 21/331	(31) 201816216112	Mitani, Atsushi
(11) EP3614441	(32) 11.12.2018	Motoyama, Shigeki
(21) EP19203089.8	(33) United States of America	(74) ir. W.J.J.M. Kempes
(22) 20.05.2009	(47) 19.04.2023	(31) 2017023420
(54) SEMICONDUCTOR DEVICE	(51) H01M 4/13	(32) 10.02.2017
(73) Rohm Co., Ltd.	H01M 4/62	(33) Japan
(72) NAKANO, Yuki	H01M 4/139	(47) 14.06.2023
(74) dr. ir. G.J.C. Verdijck c.s.	H01M 4/04	(51) H01M 50/358
(31) 2008131884	H01M 50/20	H01M 50/342
(32) 20.05.2008	H01M 10/052	H01M 50/204
(33) Japan	H01M 4/02	H01G 9/12
(47) 19.04.2023	(11) EP3609000	H01G 11/18
(51) H01L 31/0224	(21) EP18791400.7	H01M 50/103
H01L 31/05	(22) 27.04.2018	H01M 50/15
H01L 31/02	(54) CATHODE, SECONDARY BATTERY	(11) EP3965219
H01L 31/068	COMPRISING SAME, AND METHOD	(21) EP20811956.0
H01L 31/18	FOR MANUFACTURING SAME	(22) 10.07.2020
H01L 31/048	CATHODE	(54) PRESSURE RELIEF MECHANISM,
(11) EP3244454	(73) LG Energy Solution, Ltd.	BATTERY BOX, BATTERY CELL,
(21) EP15876420.9	(72) CHOY, Sang Hoon	BATTERY, PREPARATION METHOD
(22) 08.07.2015	KOO, Chang Wan	AND DEVICE
(54) MAIN-GATE-FREE HIGH-EFFICIENCY	(74) dr. R.C. van Duijvenbode c.s.	(73) Contemporary Amperex Technology Co.,
BACK CONTACT SOLAR CELL AND	(31) 20170055638	Limited
ASSEMBLY AND PREPARATION	(32) 28.04.2017	(72) SUN, Zhanyu
PROCESS THEREOF	(33) Korea (Republic)	LI, Quankun
(73) Jollywood(Suzhou) Sunwatt Co., Ltd	(47) 03.05.2023	GUO, Zhijun
(72) SUN, Yuhai	(51) H01M 50/204	YANG, Jianxiong
XIA, Wenjin	H01M 50/262	ZENG, Yuqun
LIN, Jianwei	H01M 50/271	WANG, Peng
(74) dr. R.C. van Duijvenbode c.s.	(11) EP3264494	(74) ir. W.J.J.M. Kempes
(31) 201510002981	(21) EP17001071.4	(47) 07.06.2023
(32) 05.01.2015	(22) 23.06.2017	(51) H01Q 1/22
(33) China	(54) BATTERY MODULE FOR A VEHICLE,	H01Q 3/36
(47) 03.05.2023	IN PARTICULAR A COMMERCIAL	H04B 1/44
(51) H01L 31/0463	VEHICLE	H01Q 23/00
H01L 31/0468	(73) MAN Truck & Bus SE	H01Q 3/42
H01L 31/18	(72) Braun, Reimar	H01Q 21/06
(11) EP3997738	Hubert, Markus	H04B 1/48
(21) EP20739483.4	(74) ir. A. Blokland c.s.	H04B 1/18
(22) 08.07.2020	(31) 102016007882	(11) EP3394928
(54) PHOTOVOLTAIC DEVICE AND	(32) 28.06.2016	(21) EP15911606.0
METHOD OF MANUFACTURING THE	(33) Germany	(22) 21.12.2015
SAME	(47) 07.06.2023	(54) MICROELECTRONIC DEVICES
(73) NEDERLANDSE ORGANISATIE	(51) H01M 50/209	DESIGNED WITH HIGH FREQUENCY
VOOR TOEGEPAST-	H01M 50/291	COMMUNICATION MODULES
NATUURWETENSCHAPPELIJK	B60K 1/04	HAVING STEERABLE BEAMFORMING
ONDERZOEK TNO	B60L 50/60	CAPABILITY
(72) GALAGAN, Yulia	B60L 50/64	(73) Intel Corporation
LIFKA, Herbert	(11) EP3920315	(72) KAMGAING, Telesphor
FLEDDERUS, Henri	(21) EP20889490.7	NAIR, Vijay K.
(74) ir. H.A. Witmans c.s.	(22) 28.10.2020	DOGIAMIS, Georgios C.
(31) 19185397	(54) BATTERY PACK AND VEHICLE	(74) ir. W.J.J.M. Kempes
(32) 10.07.2019	(73) Contemporary Amperex Technology Co.,	(47) 24.05.2023
(33) European Patent Office (EPO)	Limited	(51) H01Q 1/27
(47) 07.06.2023	(72) HUANG, Haihua	H01Q 9/30
(51) H01L 33/58	ZHU, Tingting	H01Q 1/48
H01L 33/62	(74) J.M.H. Duyver lic.	G02C 11/00
G02B 6/42	(31) 20191133901	H01Q 5/357
(11) EP3895223	(32) 19.11.2019	(11) EP3593404

(21) EP18713483.8	(72) NOOK, William Knight	FAN, Guoping
(22) 06.03.2018	STANFIELD, James Richard	XU, Fei
(54) WEARABLE DEVICE ANTENNA SYSTEM	NOOK, Jonathan Lewis	(74) ir. W.J.J.M. Kempes
(73) Snap Inc.	UNDERHILL, Derek Michael	(31) 201810114068
(72) MOSKOWITZ, Douglas, Wayne	(74) J.M.H. Duyver lic.	(32) 05.02.2018
STEGER, Stephen, Andrew	(31) 201762568967 P	(33) China
KUSBEL, Patrick	201762569243 P	(47) 26.04.2023
ASHWOOD, Andrea	201762569355 P	(51) H02J 5/00
OLGUN, Ugur	201762568537 P	G01V 3/00
LIN, Jun	201762568044 P	H01F 38/14
PATTON, Russell, Douglas	201762567479 P	H02J 7/02
SIMONS, Patrick, Timothy, McSweeney	201762562713 P	G01V 3/10
(74) ir. F.A. Geurts c.s.	201762561751 P	H02J 7/00
(31) 201762467675 P	201762561850 P	H02J 50/10
(32) 06.03.2017	PCT/US2018/051655	H02J 50/12
(33) United States of America	PCT/US2018/050904	H02J 50/90
(47) 12.04.2023	PCT/US2018/049548	H02J 50/80
(51) H02G 3/08	PCT/US2018/042474	H02J 50/60
H02G 3/14	PCT/US2018/040919	(11) EP3396807
H02G 3/10	PCT/US2018/035029	(21) EP18179148.4
H02G 3/12	PCT/US2018/034902	(22) 02.07.2012
(11) EP3767764	(32) 06.10.2017	(54) ENERGY RECEIVER, DETECTION METHOD, POWER TRANSMISSION SYSTEM, DETECTION DEVICE, AND ENERGY TRANSMITTER
(21) EP20186085.5	06.10.2017	(73) Sony Group Corporation
(22) 15.07.2020	06.10.2017	(72) NAKANO, Hiroaki
(54) MOUNTING SYSTEM FOR ELECTRIC OR ELECTRONIC DEVICE	05.10.2017	MURAKAMI, Tomomichi
(73) Niko NV	04.10.2017	MURAYAMA, Yuji
(72) COOREMAN, Tom	03.10.2017	FUKUDA, Shinichi
(31) 201905458	25.09.2017	FUJIMAKI, Kenichi
(32) 16.07.2019	22.09.2017	(74) ir. W.J.J.M. Kempes
(33) Belgium	22.09.2017	(31) 2011149465
(47) 14.06.2023	19.09.2018	(32) 05.07.2011
(51) H02H 9/04	13.09.2018	(33) Japan
H01L 27/02	05.09.2018	(47) 14.06.2023
(11) EP3934042	17.07.2018	(51) H02J 7/00
(21) EP21773278.3	05.07.2018	(11) EP3800760
(22) 08.03.2021	30.05.2018	(21) EP18928090.2
(54) ELECTROSTATIC PROTECTION CIRCUIT AND FULL-CHIP ELECTROSTATIC PROTECTION CIRCUIT	29.05.2018	(22) 27.07.2018
(73) Changxin Memory Technologies, Inc.	(33) United States of America	(54) POWER SUPPLY CIRCUIT OF TERMINAL DEVICE, TERMINAL DEVICE AND POWER SUPPLY METHOD
(72) XU, QiAn	United States of America	(73) Honor Device Co., Ltd.
(74) ir. W.J.J.M. Kempes	United States of America	(72) LI, Ruiliang
(31) 202010224007	United States of America	ZHOU, Haibin
(32) 26.03.2020	United States of America	QIU, Yupeng
(33) China	United States of America	ZHANG, Fenwei
(47) 24.05.2023	United States of America	(74) ir. W.J.J.M. Kempes
(51) H02J 1/10	United States of America	(47) 28.06.2023
H02J 7/00	United States of America	(51) H02J 7/04
H02J 7/34	World Intellectual Property Office (WIPO)	H01M 10/44
H01H 19/02	World Intellectual Property Office (WIPO)	H02J 7/00
H01H 19/38	World Intellectual Property Office (WIPO)	(11) EP3281274
H01M 10/04	World Intellectual Property Office (WIPO)	(21) EP16777012.2
H01M 10/0525	World Intellectual Property Office (WIPO)	(22) 17.02.2016
H01M 50/204	(47) 26.04.2023	(54) SYSTEMS, METHODS AND DEVICES FOR ADAPTABLE BATTERY CHARGING
H01M 50/296	(51) H02J 3/38	(73) Intel Corporation
H02H 7/18	H02J 3/32	(72) JI, Gang
F02N 11/12	H02J 3/46	FRITZ, Brian C.
F02N 11/14	H02J 7/35	MATSUMURA, Naoki
(11) EP3669436	(11) EP3742572	(74) ir. W.J.J.M. Kempes
(21) EP18857765.4	(21) EP19747298.8	(31) 201514681810
(22) 20.09.2018	(22) 23.01.2019	(32) 08.04.2015
(54) RECHARGEABLE BATTERY JUMP STARTING DEVICE WITH BATTERY DETECTION SYSTEM	(54) PHOTOVOLTAIC POWER GENERATION SYSTEM AND PHOTOVOLTAIC POWER TRANSMISSION METHOD	(33) United States of America
(73) The Noco Company	(73) Huawei Digital Power Technologies Co., Ltd.	
	(72) GAO, Yongbing	

(47) 17.05.2023	(33) United States of America	(72) SULTANA, Shabnam
(51) H02K 1/27	(47) 24.05.2023	SCHLIWA-BERTLING, Paul
H02K 1/04	(51) H04B 7/06	HARMATOS, János
(11) EP3859944	H04B 7/04	SACHS, Joachim
(21) EP21163935.6	(11) EP3523888	DE ANDRADE JARDIM, Marilet
(22) 29.08.2011	(21) EP17869472.5	WANG, Kun
(54) FIXING RESIN COMPOSITION FOR	(22) 30.10.2017	PANCORBO MARCOS, Maria Belen
USE IN ROTOR	(54) ADVANCED CSI REPORTING	WANG, Chunmeng
(73) Sumitomo Bakelite Co., Ltd.	IN ADVANCED WIRELESS	FARKAS, János
(72) SASAJIMA, Hideaki	COMMUNICATION SYSTEMS	MIKLÓS, György
(74) dr. R.C. van Duijvenbode c.s.	(73) Samsung Electronics Co., Ltd.	ZHANG, Kefeng Kenny
(31) PCT/JP2010/005406	(72) ONGGOSANUSI, Eko	VARGA, Balázs
(32) 02.09.2010	RAHMAN, Md Saifur	(74) ir. A. Blokland c.s.
(33) World Intellectual Property Office (WIPO)	(74) dr. R.C. van Duijvenbode c.s.	(31) 201962805727 P
(47) 28.06.2023	(31) 201715718631	(32) 14.02.2019
(51) H02M 3/156	201762463837 P	(33) United States of America
H02M 1/14	201762458826 P	(47) 10.05.2023
H03F 3/195	201762456391 P	(51) H04B 7/26
H03F 1/02	201662426073 P	H04L 27/26
H02M 1/00	201662420996 P	(11) EP3537629
(11) EP3599710	(32) 28.09.2017	(21) EP19168953.8
(21) EP19171182.9	27.02.2017	(22) 22.10.2013
(22) 25.04.2019	14.02.2017	(54) METHOD FOR CONFIGURING
(54) SWITCHING REGULATOR FOR	08.02.2017	WIRELESS FRAME OF USER
DYNAMICALLY CHANGING OUTPUT	23.11.2016	EQUIPMENT, USER EQUIPMENT,
VOLTAGE AND POWER SUPPLY	11.11.2016	METHOD FOR CONFIGURING
CIRCUIT INCLUDING THE SWITCHING	(33) United States of America	WIRELESS FRAME OF BASE STATION,
REGULATOR	United States of America	AND BASE STATION
(73) Samsung Electronics Co., Ltd.	United States of America	(73) QUALCOMM Incorporated
(72) KIM, Dong-su	United States of America	(72) KO, Hyunsoo
BAEK, Jong-beom	United States of America	KIM, Jinmin
(74) ir. H.A. Witmans c.s.	United States of America	KIM, Kitae
(31) 20180085380	(47) 10.05.2023	CHUNG, Jaehoon
(32) 23.07.2018	(51) H04B 7/06	(74) dr. R.C. van Duijvenbode c.s.
(33) Korea (Republic)	H04L 5/00	(31) 201261717603 P
(47) 05.04.2023	H04L 25/02	201261716628 P
(51) H02P 29/024	H04W 56/00	(32) 23.10.2012
H02P 3/22	(11) EP3607666	22.10.2012
(11) EP4030616	(21) EP18719735.5	(33) United States of America
(21) EP21217355.3	(22) 03.04.2018	United States of America
(22) 23.12.2021	(54) BEAM MANAGEMENT USING	(47) 07.06.2023
(54) MOTOR CONTROL SYSTEM	SYNCHRONIZATION SIGNALS	(51) H04L 1/00
(73) Huawei Digital Power Technologies Co.,	THROUGH CHANNEL FEEDBACK	(11) EP3726761
Ltd.	FRAMEWORK	(21) EP20179657.0
(72) JI, Bucheng	(73) Qualcomm Incorporated	(22) 26.12.2013
WANG, Shuaijie	(72) WANG, Xiao Feng	(54) IDENTIFYING MODULATION AND
ZHOU, Yuan	SUBRAMANIAN, Sundar	CODING SCHEMES AND CHANNEL
(74) ir. W.J.J.M. Kempes	LI, Junyi	QUALITY INDICATORS
(31) 202110051283	CEZANNE, Juergen	(73) QUALCOMM Incorporated
(32) 14.01.2021	SAMPATH, Ashwin	(72) LUO, Tao
(33) China	(74) dr. R.C. van Duijvenbode c.s.	CHEN, Wanshi
(47) 26.04.2023	(31) 201815943586	XU, Hao
(51) H03M 13/13	201762481658 P	GAAL, Peter
H03M 13/09	(32) 02.04.2018	(74) dr. R.C. van Duijvenbode c.s.
(11) EP3692637	04.04.2017	(31) 201314140098
(21) EP18793011.0	(33) United States of America	201361750601 P
(22) 03.10.2018	United States of America	(32) 24.12.2013
(54) INTERLEAVING BEFORE CRC CODING	(47) 07.06.2023	09.01.2013
A NR PBCH PAYLOAD INCLUDING	(51) H04B 7/185	(33) United States of America
KNOWN BITS TO ENHANCE POLAR	H04W 28/02	United States of America
CODE PERFORMANCE	(11) EP3925096	(47) 07.06.2023
(73) Telefonaktiebolaget LM Ericsson (PUBL)	(21) EP20708642.2	(51) H04L 1/00
(72) HUI, Dennis	(22) 14.02.2020	H04W 24/08
BLANKENSHIP, Yufei	(54) 5G SYSTEM SUPPORT FOR VIRTUAL	H04W 48/12
WESSLÉN, Anders	TSN BRIDGE MANAGEMENT,	H04W 74/00
(74) ir. A. Blokland c.s.	QOS MAPPING AND TSN QBV	H04W 52/14
(31) 201762567738 P	SCHEDULING	H04B 7/06
(32) 03.10.2017	(73) Telefonaktiebolaget LM Ericsson (publ)	H04L 5/00

H04W 52/24	(54) METHOD AND APPARATUS FOR	201462056347 P
H04W 52/50	IMPROVING IN AND RELATING	(32) 26.08.2015
(11) EP3922061	TO INTEGRATED ACCESS AND	26.09.2014
(21) EP20702727.7	BACKHAUL AND NON TERRESTRIAL	(33) United States of America
(22) 07.01.2020	NETWORKS	United States of America
(54) OPEN LOOP POWER CONTROL FOR	(73) Samsung Electronics Co., Ltd.	(47) 07.06.2023
TWO-STEP RANDOM ACCESS	(72) Qi, Yanan	(51) H04L 5/00
(73) QUALCOMM INCORPORATED	HUNUKUMBURE, Mythri	H04W 4/70
(72) SUNDARARAJAN, Jay Kumar	(74) dr. R.C. van Duijvenbode c.s.	H04W 72/04
Ji, Tingfang	(31) 201720080	(11) EP3754892
HUANG, Yi	(32) 01.12.2017	(21) EP20190557.7
PARK, Seyong	(33) United Kingdom	(22) 09.05.2018
SORIAGA, Joseph Binamira	(47) 07.06.2023	(54) METHOD AND APPARATUS FOR
BHUSHAN, Naga	(51) H04L 5/00	RESOURCE ALLOCATION FOR
HE, Linhai	H04J 11/00	MACHINE TYPE COMMUNICATION
LY, Hung Dinh	H04W 56/00	USING FREQUENCY HOPPING
LEI, Jing	(11) EP3644541	(73) QUALCOMM Incorporated
(74) dr. R.C. van Duijvenbode c.s.	(21) EP19212643.1	(72) XU, Hao
(31) 202016735318	(22) 06.10.2017	BHATTAD, Kapil
201962801527 P	(54) SYNCHRONIZATION AND	WEI, Chao
(32) 06.01.2020	BROADCAST CHANNEL DESIGN WITH	RICO ALVARINO, Alberto
05.02.2019	FLEXIBLE BANDWIDTH ALLOCATIONS	(74) dr. R.C. van Duijvenbode c.s.
(33) United States of America	(73) QUALCOMM Incorporated	(31) PCT/CN2017/084454
United States of America	(72) AKKARAKARAN, Sony	(32) 16.05.2017
(47) 31.05.2023	ZHANG, Xiaoxia	(33) World Intellectual Property Office (WIPO)
(51) H04L 1/18	LUO, Tao	(47) 07.06.2023
(11) EP3338390	(74) dr. R.C. van Duijvenbode c.s.	(51) H04L 5/00
(21) EP16757091.0	(31) 201715726345	H04W 72/04
(22) 16.08.2016	201662405860 P	H04W 4/40
(54) DISCARDING AND RETAINING	(32) 05.10.2017	H04J 13/00
PHYSICAL DATA CHANNELS	07.10.2016	H04J 13/12
(73) Telefonaktiebolaget LM Ericsson (PUBL)	(33) United States of America	H04L 27/26
(72) FRÖBERG OLSSON, Jonas	United States of America	H04W 76/14
FRENGER, Pål	(47) 31.05.2023	H04W 64/00
ERIKSSON, Erik	(51) H04L 5/00	(11) EP3834357
HESSLER, Martin	H04L 1/00	(21) EP19847810.9
(74) ir. A. Blokland c.s.	(11) EP3455977	(22) 09.08.2019
(31) 201514832199	(21) EP16816114.9	(54) GENERATION OF DM-RS FOR
(32) 21.08.2015	(22) 02.12.2016	SIDELINK BASED ON LOCATION OF
(33) United States of America	(54) SCRAMBLING FOR CONTROL	UE
(47) 03.05.2023	MESSAGES IN PHYSICAL DOWNLINK	(73) INTEL Corporation
(51) H04L 1/18	SHARED CHANNELS	(72) GOMES BALTAR, Leonardo
H04L 1/16	(73) Intel Corporation	ROTH, Kilian
(11) EP3874645	(72) CHATTERJEE, Debdeep	PANTELEEV, Sergey
(21) EP19801990.3	(74) ir. W.J.J.M. Kempes	KHORYAEV, Alexey
(22) 30.10.2019	(31) 201662336389 P	SHILOV, Mikhail
(54) RETRANSMISSION SCHEMES	(32) 13.05.2016	(74) ir. W.J.J.M. Kempes
AND OPTIMIZATIONS FOR	(33) United States of America	(31) 201862717096 P
PRECONFIGURED UPLINK	(47) 26.04.2023	(32) 10.08.2018
RESOURCES	(51) H04L 5/00	(33) United States of America
(73) TELEFONAKTIEBOLAGET LM	H04L 1/00	(47) 10.05.2023
ERICSSON (PUBL)	H04W 72/00	(51) H04L 5/00
(72) HÖGLUND, Andreas	(11) EP3709556	H04W 72/04
LIBERG, Olof	(21) EP20172179.2	H04W 72/08
MEDINA ACOSTA, Gerardo Agni	(22) 27.08.2015	H04L 27/26
TIRRONEN, Tuomas	(54) DOWNLINK CHANNEL DESIGN FOR	(11) EP3567778
BERGMAN, Johan	LTE WITH LOW LATENCY	(21) EP17889722.9
KADAN VEEDU, Sandeep Narayanan	(73) QUALCOMM Incorporated	(22) 29.12.2017
SUI, Yutao	(72) CHEN, Wanshi	(54) METHOD AND APPARATUS FOR
(74) ir. A. Blokland c.s.	MALLADI, Durga Prasad	DETERMINING AND TRANSMITTING
(31) 201862753330 P	PATEL, Shimman Arvind	PARAMETER OF REFERENCE SIGNAL
(32) 31.10.2018	XU, Hao	(73) ZTE Corporation
(33) United States of America	DABEER, Onkar Jayant	(72) JIANG, Chuangxin
(47) 24.05.2023	WEI, Yongbin	ZHANG, Nan
(51) H04L 5/00	GAAL, Peter	LU, Zhaohua
(11) EP3707850	DAMNJANOVIC, Aleksandar	WU, Hao
(21) EP18884102.7	(74) dr. R.C. van Duijvenbode c.s.	LI, YuNgok
(22) 29.11.2018	(31) 201514836183	GAO, Bo

(74) ir. A.R. Aalbers	(22) 26.05.2017	H04W 74/00
(31) 201710005576	(54) EXCHANGING NETWORK SERVER	(11) EP3758426
(32) 04.01.2017	REGISTRATION CREDENTIALS OVER	(21) EP18907254.9
(33) China	A D2D NETWORK	(22) 20.02.2018
(47) 31.05.2023	(73) Qualcomm Incorporated	(54) TERMINAL AND BASE STATION
(51) H04L 5/00	(72) MOHAN, Prashanth	APPARATUS
H04W 72/12	PALANISAMY, Santhana	(73) NTT DOCOMO, INC.
H04L 1/00	ANANDA, Manjunatha Subbamma	(72) OHARA, Tomoya
(11) EP3846370	(74) dr. R.C. van Duijvenbode c.s.	TAKAHASHI, Hideaki
(21) EP19858801.4	(31) 201615214080	UCHINO, Tooru
(22) 12.09.2019	(32) 19.07.2016	HARADA, Hiroki
(54) COMMUNICATION METHOD AND	(33) United States of America	(74) dr. ir. F.M. van Bouwelen
APPARATUS	(47) 07.06.2023	(47) 28.06.2023
(73) HUAWEI TECHNOLOGIES CO., LTD.	(51) H04L 12/14	(51) H04L 41/04
(72) LIU, Xianda	H04M 15/00	H04L 67/12
ZHOU, Yongxing	H04W 4/24	H04L 41/50
GAO, Xiang	H04W 76/15	H04L 67/10
LIU, Kunpeng	H04W 36/00	(11) EP2758879
ZHANG, Leiming	H04W 76/11	(21) EP12849735.1
ZHANG, Xu	H04W 76/12	(22) 18.09.2012
(74) dr. W.A.H.M. Van Borm	(11) EP3723416	(54) A COMPUTING PLATFORM FOR
(31) 201811072500	(21) EP19826342.8	DEVELOPMENT AND DEPLOYMENT
(32) 14.09.2018	(22) 25.06.2019	OF SENSOR-DRIVEN VEHICLE
(33) China	(54) SESSION PROCESSING METHOD AND	TELEMETRY APPLICATIONS AND
(47) 07.06.2023	APPARATUS	SERVICES
(51) H04L 9/00	(73) HUAWEI TECHNOLOGIES CO., LTD.	(73) Tata Consultancy Services Ltd.
H04L 9/32	(72) LU, Wei	(72) BHAUMIK, Chirabrata
(11) EP3815294	ZHOU, Runze	SINHA, Aniruddha
(21) EP18739648.6	(74) dr. W.A.H.M. Van Borm	PURUSHOTHAMAN, Balamuralidhar
(22) 30.06.2018	(31) 201811386967	MISRA, Prateep
(54) METHOD AND APPARATUS FOR	201810672723	GHOSE, Avik
IMPLEMENTING A DISTRIBUTED	(32) 20.11.2018	SUBRAHMANIAN, Venkatramanan Siva
BLOCKCHAIN TRANSACTION	26.06.2018	SWAMY, Deepak
PROCESSING ELEMENT IN A	(33) China	PAL, Arpan
DATACENTER	China	(74) ir. W.J.J.M. Kempes
(73) Telefonaktiebolaget LM Ericsson (publ)	(47) 14.06.2023	(31) 2651MU2011
(72) KEMPF, James	(51) H04L 12/28	(32) 19.09.2011
MAHKONEN, Heikki	(11) EP3563524	(33) India
TURÁNYI, Zoltán	(21) EP17832525.4	(47) 07.06.2023
(74) dr. R.C. van Duijvenbode c.s.	(22) 21.12.2017	(51) H04L 45/02
(47) 07.06.2023	(54) METHOD FOR CONFIGURING,	(11) EP3697033
(51) H04L 9/40	CONTROLLING OR MONITORING	(21) EP19219489.2
G06F 21/44	HOME AUTOMATION EQUIPMENT	(22) 24.06.2008
G06F 21/62	(73) Overkiz	(54) METHOD AND DEVICE FOR
G06F 21/55	(72) POGNANT, Sylvain	FORWARDING INFORMATION
H04L 9/32	(74) dr. R.C. van Duijvenbode c.s.	(73) Huawei Technologies Co. Ltd.
(11) EP3970040	(31) 1663440	(72) XU, Xiaohu
(21) EP20724268.6	(32) 28.12.2016	GUO, Dayong
(22) 13.04.2020	(33) France	(74) ir. W.J.J.M. Kempes
(54) MITIGATION OF RANSOMWARE	(47) 19.04.2023	(31) 200710029040
IN INTEGRATED, ISOLATED	(51) H04L 25/49	(32) 05.07.2007
APPLICATIONS	H04L 25/14	(33) China
(73) Microsoft Technology Licensing, LLC	H04L 25/03	(47) 19.04.2023
(72) TARNOUSKAYA, Anastasiya	H04L 1/00	(51) H04L 65/1094
SCHWARTZ, Jonathan David	H04L 65/61	H04L 65/1016
(74) J.M.H. Duyver lic.	(11) EP3709593	H04L 65/1104
(31) 201916415690	(21) EP19209926.5	H04L 65/1069
(32) 17.05.2019	(22) 08.11.2013	(11) EP3580903
(33) United States of America	(54) DATA DISTRIBUTION METHOD AND	(21) EP17818360.4
(47) 07.06.2023	RELATED APPARATUSES	(22) 21.11.2017
(51) H04L 9/40	(73) Huawei Technologies Co., Ltd.	(54) REDIRECTION OF A SESSION
H04W 36/00	(72) YANG, Wenbin	INITIATION PROTOCOL INVITE
H04W 36/14	WANG, Xinyuan	(73) Qualcomm Incorporated
H04W 48/10	(74) ir. W.J.J.M. Kempes	(72) VASANTHASENAN, KrishnaKumar
H04W 52/02	(47) 19.04.2023	KRISHNAMOORTHY, Parthasarathy
H04W 88/04	(51) H04L 27/26	RAJPOOT, Abhilash, Singh
(11) EP3488582	H04W 74/08	MOHAN, Prashanth
(21) EP17729623.3	H04L 5/00	PASUNOORU, Naveen, Kumar

(74) dr. R.C. van Duijvenbode c.s. (31) 201715427829 (32) 08.02.2017 (33) United States of America (47) 07.06.2023	JANG, Yonghee KANG, Jongmin KIM, Chijoon CHOI, Seungwhae PARK, Jungwon LEE, Hyunggeun KIM, Dooryong LEE, Seungjun KIM, Sunghun KIM, Daeyoung	(47) 07.06.2023 <hr/> (51) H04N 19/107 (11) EP3958559 (21) EP21202133.1 (22) 12.08.2011 (54) APPARATUS FOR DECODING A MOVING PICTURE (73) M&K Holdings Inc. (72) OH, Soo Mi YANG, Moonock
(51) H04L 67/10 H04L 67/52 G06F 9/451 H04L 67/025 H04L 67/125 H04L 67/141 H04L 67/146 H04L 69/40 (11) EP3841467 (21) EP19746217.9 (22) 28.06.2019 (54) SYSTEM AND METHOD FOR CONFIGURABLE AND PROACTIVE APPLICATION DIAGNOSTICS AND RECOVERY	(74) dr. R.C. van Duijvenbode c.s. (31) 20190087535 20190064849 (32) 19.07.2019 31.05.2019 (33) Korea (Republic) Korea (Republic) (47) 31.05.2023	(74) dr. R.C. van Duijvenbode c.s. (31) 20110064306 20100079530 (32) 30.06.2011 17.08.2010 (33) Korea (Republic) Korea (Republic) (47) 07.06.2023
(73) Microsoft Technology Licensing, LLC (72) RAMAN, Ganapathy V. PRASAD, Manoj Ajith NELSON, Michael J. JUSTICE, Matthew QIAN, Will WILHELM, Bryan ARORA, Aarohi DATTAGUPTA, Aritra BHOSALE, Santosh Vasant BAZYLIAK, Vladyslav CHEN, Weizhu REICH, Benjamin LEE, Woo Ram JOHNSON, Roger F. TOEWS, Sparky MITRA, Somak	(51) H04N 1/54 H04N 1/60 H04N 1/62 (11) EP3721612 (21) EP18830334.1 (22) 03.12.2018 (54) PROCESSES FOR PRINTING SPOT COLORS (73) Avery Dennison Corporation (72) DE VREEDE, Bart (74) dr. R.C. van Duijvenbode c.s. (31) 201762595771 P (32) 07.12.2017 (33) United States of America (47) 24.05.2023	(51) H04N 19/11 H04N 19/117 H04N 19/159 H04N 19/176 (11) EP3820151 (21) EP19935158.6 (22) 25.06.2019 (54) IMAGE ENCODING METHOD, IMAGE DECODING METHOD, ENCODER, DECODER AND STORAGE MEDIUM (73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. (72) WANG, Haixin MA, Yanzhuo WAN, Shuai YANG, Fuzheng HUO, Junyan GUO, Jinkun
(74) J.M.H. Duyver lic. (31) 201816111751 (32) 24.08.2018 (33) United States of America (47) 07.06.2023	(51) H04N 5/225 B60R 11/04 (11) EP3846437 (21) EP21154554.6 (22) 26.06.2012 (54) CAMERA MODULE FOR VEHICLE (73) LG Innotek Co., Ltd. (72) CHO, Bumsig HAN, Sangyeal LEE, Seunggho KIM, Daeseung	(74) ir. W.J.J.M. Kempes (47) 14.06.2023 <hr/> (51) H04N 19/124 (11) EP3958562 (21) EP21202132.3 (22) 12.08.2011 (54) APPARATUS FOR ENCODING AN IMAGE (73) M&K Holdings Inc. (72) OH, Soo Mi YANG, Moonock
(74) ZHANG, Heng PAN, Zhichu (74) ir. W.J.J.M. Kempes (31) 201811448862 (32) 28.11.2018 (33) China (47) 07.06.2023	(37) VIVO MOBILE COMMUNICATION CO., LTD. (72) ZHANG, Heng PAN, Zhichu (74) ir. W.J.J.M. Kempes (31) 201811448862 (32) 28.11.2018 (33) China (47) 07.06.2023	(74) dr. R.C. van Duijvenbode c.s. (31) 20110064306 20100079530 (32) 30.06.2011 17.08.2010 (33) Korea (Republic) Korea (Republic) (47) 07.06.2023
(51) H04M 1/02 H04M 1/18 G06F 1/16 (11) EP3905649 (21) EP21172701.1 (22) 16.04.2020 (54) FOLDABLE ELECTRONIC DEVICE INCLUDING DISPLAY PROTECTION STRUCTURE	(51) H04N 9/04 H04N 5/225 H04N 5/232 H04N 5/30 H04N 5/335 H01L 27/146 (11) EP3780594 (21) EP19776717.1 (22) 15.03.2019 (54) IMAGING DEVICE AND METHOD, IMAGE PROCESSING DEVICE AND METHOD, AND IMAGING ELEMENT (73) Sony Group Corporation (72) MIKAMI Takuya MIYATANI Yoshitaka	(51) H04N 19/124 (11) EP3958563 (21) EP21202138.0 (22) 12.08.2011 (54) APPARATUS FOR DECODING A MOVING PICTURE (73) M&K Holdings Inc. (72) OH, Soo Mi YANG, Moonock
(73) Samsung Electronics Co., Ltd. (72) CHOI, Junyoung AN, Hyosang	(74) ir. W.J.J.M. Kempes (31) 2018068049 (32) 30.03.2018 (33) Japan	(74) dr. R.C. van Duijvenbode c.s. (31) 20110064306 20100079530 (32) 30.06.2011

17.08.2010	H04N 19/503	H04N 21/81
(33) Korea (Republic)	H04N 19/513	H04N 21/426
Korea (Republic)	(11) EP2717577	(11) EP3280148
(47) 07.06.2023	(21) EP12793067.5	(21) EP16773508.3
(51) H04N 19/124	(22) 29.05.2012	(22) 01.04.2016
(11) EP3958564	(54) IMAGE ENCODING METHOD,	(54) METHOD AND DEVICE FOR
(21) EP21202139.8	IMAGE ENCODING DEVICE, IMAGE	COMMUNICATING BETWEEN
(22) 12.08.2011	DECODING METHOD, IMAGE	DEVICES IN MULTIMEDIA SYSTEM
(54) APPARATUS FOR ENCODING A	DECODING DEVICE, AND IMAGE	(73) Samsung Electronics Co., Ltd.
MOVING PICTURE	ENCODING/DECODING DEVICE	(72) RYU, Young-Sun
(73) M&K Holdings Inc.	(73) Sun Patent Trust	(74) dr. R.C. van Duijvenbode c.s.
(72) YANG, Moonock	(72) TANIKAWA, Kyoko	(31) 20150080209
OH, Soo Mi	MATSUNOBU, Toru	20150073340
(74) dr. R.C. van Duijvenbode c.s.	SHIBAHARA, Youji	20150046455
(31) 20110064306	NISHI, Takahiro	(32) 05.06.2015
20100079530	SUGIO, Toshiyasu	26.05.2015
(32) 30.06.2011	SASAI, Hisao	01.04.2015
17.08.2010	(74) ir. J.C. Volmer c.s.	(33) Korea (Republic)
(33) Korea (Republic)	(31) 201161491549 P	Korea (Republic)
Korea (Republic)	(32) 31.05.2011	Korea (Republic)
(47) 07.06.2023	(33) United States of America	(47) 03.05.2023
(51) H04N 19/174	(47) 05.07.2023	(51) H04W 4/02
H04N 19/597	(51) H04N 19/625	H04W 4/33
H04N 19/436	H04N 19/61	H04W 4/70
H04N 19/70	H04N 19/176	(11) EP3910967
H04N 19/30	H04N 19/423	(21) EP20196664.5
H04N 19/423	H04N 19/11	(22) 17.09.2020
(11) EP3876536	H04N 19/593	(54) METHOD AND DEVICE FOR
(21) EP21170281.6	H04N 19/12	POSITIONING INTERNET OF THINGS
(22) 19.09.2013	H04N 19/122	DEVICES
(54) IMAGE DECODING METHOD, IMAGE	H04N 19/159	(73) Beijing Xiaomi Mobile Software Co., Ltd.
DECODING DEVICE, AND COMPUTER-	(11) EP3723373	(72) CHAMPEL, Mary-Luc Georges Henry
READABLE MEDIUM	(21) EP19856204.3	YU, Lei
(73) Sun Patent Trust	(22) 02.09.2019	(74) J.M.H. Duyver lic.
(72) WEDI, Thomas	(54) METHOD FOR DECODING AN IMAGE	(31) PCT/CN2020/090695
NARROSCHKE, Matthias	SIGNAL, METHOD FOR ENCODING	(32) 15.05.2020
ESENLIK, Semih	AN IMAGE SIGNAL AND STORAGE	(33) World Intellectual Property Office (WIPO)
(74) ir. H.A. Witmans c.s.	MEDIUM	(47) 14.06.2023
(31) 201261711892 P	(73) LG Electronics Inc.	(51) H04W 4/12
201261705846 P	(72) KIM, Seunghwan	H04W 48/12
(32) 10.10.2012	LIM, Jaehyun	H04W 72/04
26.09.2012	SALEHIFAR, Mehdi	H04W 74/00
(33) United States of America	KOO, Moonmo	H04W 4/20
United States of America	(74) J.M.H. Duyver lic.	H04W 48/16
(47) 14.06.2023	(31) 201862726298 P	(11) EP3905730
(51) H04N 19/186	(32) 02.09.2018	(21) EP21165661.6
H04N 19/593	(33) United States of America	(22) 22.01.2017
H04N 19/11	(47) 07.06.2023	(54) SYSTEM INFORMATION
H04N 19/132	(51) H04N 21/27	TRANSMISSION METHOD AND
H04N 19/119	H04N 21/442	DEVICE
H04N 19/157	G06F 3/01	(73) ZTE Corporation
(11) EP3847816	G07F 17/32	(72) LIU, Kun
(21) EP19872076.5	(11) EP3557845	YU, Guanghui
(22) 08.10.2019	(21) EP17879726.2	LU, Zhaohua
(54) SIMPLIFICATIONS OF CROSS-	(22) 13.12.2017	XIE, Feng
COMPONENT LINEAR MODEL	(54) METHOD AND DEVICE FOR	CHEN, Yijian
(73) Beijing Dajia Internet Information	TRANSMITTING PANORAMIC VIDEOS,	(74) ir. A.R. Aalbers
Technology Co., Ltd.	TERMINAL, SERVER AND SYSTEM	(31) 201610075946
(72) WANG, Xianglin	(73) ZTE Corporation	(32) 03.02.2016
CHEN, Yi-Wen	(72) HUANG, Cheng	(33) China
(74) ir. W.J.J.M. Kempes	(74) ir. A. Blokland c.s.	(47) 07.06.2023
(31) 201862742806 P	(31) 201611149103	(51) H04W 4/44
(32) 08.10.2018	(32) 13.12.2016	H04W 4/02
(33) United States of America	(33) China	H04W 4/06
(47) 19.04.2023	(47) 24.05.2023	H04W 4/12
(51) H04N 19/56	(51) H04N 21/41	H04W 4/40
H04N 19/105	H04N 21/436	G08G 1/00
H04N 19/52	H04N 21/4402	G08G 1/16

B60W 30/18	(54) METHOD AND APPARATUS FOR TRANSMITTING INFORMATION ON ENHANCED PHYSICAL DOWNLINK CONTROL CHANNEL	H04W 24/08
(11) EP3963913	(73) Huawei Device Co., Ltd.	(11) EP3908035
(21) EP20722206.8	(72) XU, Kai	(21) EP19915486.5
(22) 14.04.2020	(74) ir. W.J.J.M. Kempes	(22) 15.02.2019
(54) METHOD AND APPARATUS FOR VEHICLE MANEUVER PLANNING AND MESSAGING	(31) 201210143521	(54) WIRELESS COMMUNICATION METHOD, TERMINAL DEVICE, AND NETWORK DEVICE
(73) QUALCOMM INCORPORATED	(32) 10.05.2012	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(72) VASSILOVSKI, Dan	(33) China	(72) SHI, Zhihua
WU, Zhibin	(47) 03.05.2023	FANG, Yun
CHENG, Hong	(51) H04W 16/14	CHEN, Wenhong
PATIL, Shailesh	H04L 5/00	HUANG, Yingpei
HOVEY, Richard	H04L 5/14	(74) ir. W.J.J.M. Kempes
(74) dr. R.C. van Duijvenbode c.s.	H04L 27/26	(47) 07.06.2023
(31) 201916545282	H04W 88/06	(51) H04W 28/06
201962839981 P	H04W 88/08	H04B 7/0413
(32) 20.08.2019	(11) EP3000279	H03M 13/25
29.04.2019	(21) EP14731881.0	H04B 7/06
(33) United States of America	(22) 20.05.2014	(11) EP3371959
United States of America	(54) CONCURRENT WIRELESS COMMUNICATIONS OVER LICENSED AND UNLICENSED SPECTRUM	(21) EP16862784.2
(47) 31.05.2023	(73) Qualcomm Incorporated	(22) 01.11.2016
(51) H04W 12/04	(72) BHUSHAN, Naga	(54) APPARATUS, SYSTEM AND METHOD OF COMMUNICATING CONTROL INFORMATION IN A PHYSICAL LAYER CONVERGENCE PROTOCOL (PLCP) PROTOCOL DATA UNIT (PPDU)
H04W 36/00	LUO, Tao	(73) Intel Corporation
H04W 76/50	WEI, Yongbin	(72) TRAININ, Solomon B.
(11) EP4098007	MALLADI, Durga Prasad	CORDEIRO, Carlos
(21) EP20829046.0	JI, Tingfang	KASHER, Assaf
(22) 18.12.2020	HORN, Gavin Bernard	(74) ir. W.J.J.M. Kempes
(54) ROBUST EMERGENCY FALLBACK FROM 5G	GAAL, Peter	(31) 201615086113
(73) TELEFONAKTIEBOLAGET LM	DAMNJANOVIC, Aleksandar	201562249424 P
ERICSSON (PUBL)	CHEN, Wanshi	(32) 31.03.2016
(72) SHI, Nianshan	(74) dr. R.C. van Duijvenbode c.s.	02.11.2015
NAKARMI, Prajwol Kumar	(31) 201414281677	(33) United States of America
MELIN, Lena	201361825459 P	United States of America
(74) ir. A. Blokland c.s.	(32) 19.05.2014	(47) 24.05.2023
(31) 202062968364 P	20.05.2013	(51) H04W 36/00
(32) 31.01.2020	(33) United States of America	H04W 4/20
(33) United States of America	United States of America	(11) EP3634035
(47) 24.05.2023	(47) 07.06.2023	(21) EP19212381.8
(51) H04W 12/06	(51) H04W 24/02	(22) 20.10.2015
H04L 9/40	H04B 7/024	(54) NETWORK NODES, A USER EQUIPMENT AND METHODS THEREIN FOR HANDLING A CONNECTION BETWEEN THE USER EQUIPMENT AND A WIRELESS COMMUNICATIONS NETWORK
H04W 4/02	H04B 7/0413	(73) Telefonaktiebolaget LM Ericsson (publ)
H04W 12/04	H04W 72/04	(72) AXELSSON, Håkan
H04W 12/082	H04W 88/08	SCHLIWA-BERTLING, Paul
H04W 12/084	H04W 92/20	JOHANSSON, Stefan
(11) EP3603009	(11) EP3590200	WALLDEEN, Thomas
(21) EP18719434.5	(21) EP18703445.9	(74) ir. A. Blokland c.s.
(22) 22.03.2018	(22) 24.01.2018	(31) 201462079821 P
(54) AUTOMATED DELIVERY SECURITY SYSTEM	(54) METHODS AND SYSTEMS FOR ACCESS POINT CLUSTERING	201462069382 P
(73) Glue AB	(73) Qualcomm Incorporated	(32) 14.11.2014
(72) BATTERS, Richard John	(72) PATIL, Abhishek Pramod	28.10.2014
HULT, Magnus Olof Lorentz	ASTERJADHI, Alfred	(33) United States of America
PESIRIDIS, Konstantinos Ioannis	CHERIAN, George	United States of America
Sotiropoulos	VENKATACHALAM JAYARAMAN,	(47) 24.05.2023
KAFOUROS, Stavros	Venkata Ramanan	(51) H04W 36/00
BIGERT, Johnny	ZHOU, Yan	H04W 24/10
BLACKWELL, Timothy, Charles	(74) dr. R.C. van Duijvenbode c.s.	H04W 36/32
(74) dr. R.C. van Duijvenbode c.s.	(31) 201815874636	(11) EP3675555
(31) 201704629	201762464943 P	(21) EP17925525.2
(32) 23.03.2017	(32) 18.01.2018	
(33) United Kingdom	28.02.2017	
(47) 26.04.2023	(33) United States of America	
(51) H04W 16/02	United States of America	
H04L 5/00	(47) 07.06.2023	
(11) EP3934301	(51) H04W 24/10	
(21) EP21165748.1		
(22) 03.05.2013		

(22) 15.09.2017	OHLSSON, Oscar	H04W 52/24
(54) CELL MEASUREMENT METHOD AND APPARATUS	(74) ir. A. Blokland c.s.	H04L 5/00
(73) Beijing Xiaomi Mobile Software Co., Ltd.	(31) 201962825118 P	H04W 24/00
(72) HONG, Wei	(32) 28.03.2019	H04W 52/14
(74) J.M.H. Duyver lic.	(33) United States of America	(11) EP3962182
(47) 10.05.2023	(47) 10.05.2023	(21) EP19933027.5
(51) H04W 36/00	(51) H04W 40/22	(22) 14.06.2019
H04W 76/19	H04W 52/02	(54) WIRELESS COMMUNICATION METHOD, TERMINAL DEVICE AND NETWORK DEVICE
(11) EP3930362	H04W 52/34	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(21) EP19921034.5	H04W 36/22	(72) HE, Chuanfeng
(22) 22.03.2019	H04W 52/28	(74) ir. W.J.J.M. Kempes
(54) WIRELESS COMMUNICATION METHOD, TERMINAL DEVICE AND NETWORK DEVICE	H04W 72/04	(47) 14.06.2023
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	H04W 72/12	(51) H04W 52/14
(72) YOU, Xin	H04W 88/08	H04W 52/32
LU, Qianxi	(11) EP3609246	H04W 52/36
(74) ir. W.J.J.M. Kempes	(21) EP19188081.4	H04W 52/50
(47) 31.05.2023	(22) 13.02.2009	H04W 52/42
(51) H04W 36/00	(54) CONTROLLING ENERGY CONSUMPTION OF A WIRELESS NETWORK NODE	(11) EP3592047
H04W 88/06	(73) Telefonaktiebolaget LM Ericsson (publ)	(21) EP18799356.3
(11) EP3952449	(72) PARKVALL, Stefan	(22) 08.05.2018
(21) EP21183351.2	LINDOFF, Bengt	(54) METHOD AND APPARATUS FOR SETTING UPLINK TRANSMITTING POWER IN WIRELESS COMMUNICATION SYSTEM
(22) 16.06.2017	HAGERMAN, Bo	(73) Samsung Electronics Co., Ltd.
(54) METHOD AND APPARATUS FOR MOVING BETWEEN COMMUNICATIONS SYSTEMS	FRENGER, Pål	(72) KIM, Youngbum
(73) Huawei Technologies Co., Ltd.	(74) ir. A. Blokland c.s.	KIM, Taehyoung
(72) DOU, Fenghui	(47) 17.05.2023	CHOI, Seunghoon
HE, YUE	(51) H04W 48/18	(74) dr. R.C. van Duijvenbode c.s.
YANG, Haorui	H04W 48/14	(31) 20170057598
OUYANG, Guowei	H04W 48/12	(32) 08.05.2017
JIN, Hui	(11) EP3446520	(33) Korea (Republic)
(74) ir. W.J.J.M. Kempes	(21) EP17720015.1	(47) 07.06.2023
(31) PCT/CN2017/083522	(22) 11.04.2017	(51) H04W 56/00
(32) 08.05.2017	(54) RADIO RESOURCE CONTROL PROCEDURE FOR QUERY OF SERVICE PROVIDERS	H04W 24/10
(33) World Intellectual Property Office (WIPO)	(73) Nokia Solutions and Networks Oy	(11) EP3806555
(47) 19.04.2023	(72) MUSTAJARVI, Jari Pekka	(21) EP20198879.7
(51) H04W 36/06	RINNE, Mika Petri Olavi	(22) 29.09.2020
H04W 36/00	(74) ir. W.J.J.M. Kempes	(54) METHOD AND APPARATUS FOR TIMING ADVANCE VALIDATION IN A WIRELESS COMMUNICATION SYSTEM
(11) EP3767997	(31) 201615134042	(73) ASUSTek Computer Inc.
(21) EP18909768.6	(32) 20.04.2016	(72) GUO, Yu-Hsuan
(22) 27.12.2018	(33) United States of America	OU, Meng-Hui
(54) ADDRESS COORDINATION METHOD, DEVICE, BASE STATION, SMF NETWORK ELEMENT AND STORAGE MEDIUM	(47) 07.06.2023	(74) dr. ir. G.J.C. Verdijck c.s.
(73) ZTE Corporation	(51) H04W 48/20	(31) 201962912880 P
(72) YANG, Li	H04W 68/00	(32) 09.10.2019
(74) ir. A.R. Aalbers	H04W 76/28	(33) United States of America
(31) 201810210168	H04W 52/02	(47) 26.04.2023
(32) 14.03.2018	H04W 24/10	(51) H04W 56/00
(33) China	(11) EP3777348	H04W 76/14
(47) 28.06.2023	(21) EP19711485.3	(11) EP3958623
(51) H04W 36/08	(22) 01.03.2019	(21) EP21199992.5
H04W 36/36	(54) INTERACTION BETWEEN WUS AND RRM MEASUREMENT	(22) 08.08.2014
(11) EP3949514	(73) QUALCOMM Incorporated	(54) METHOD AND SYSTEM FOR INITIAL SYNCHRONIZATION AND COLLISION AVOIDANCE IN DEVICE TO DEVICE COMMUNICATIONS WITHOUT NETWORK COVERAGE
(21) EP20715009.5	(72) DHANDA, Mungal Singh	(73) BlackBerry Limited
(22) 25.03.2020	RICO ALVARINO, Alberto	(72) BLANKENSHIP, Yufei Wu
(54) OPTIONAL SENDING OF COMPLETE MESSAGE IN CONDITIONAL HANDOVER	PHUYAL, Umesh	DHAKAL, Sagar
(73) Telefonaktiebolaget LM Ericsson (publ)	LIU, Le	NGUYEN, Nam
(72) EKLÖF, Cecilia	(74) dr. R.C. van Duijvenbode c.s.	(74) ir. W.J.J.M. Kempes
BERGSTRÖM, Mattias	(31) 201916289435	(31) 201313962708
MÜLLER, Walter	201862657630 P	
	(32) 28.02.2019	
	13.04.2018	
	(33) United States of America	
	United States of America	
	(47) 07.06.2023	
	(51) H04W 52/04	

(32) 08.08.2013	H04L 5/00	CORDEIRO, Carlos
(33) United States of America	H04L 27/00	KASHER, Assaf
(47) 07.06.2023	(11) EP3434055	(74) ir. W.J.J.M. Kempes
(51) H04W 72/04	(21) EP16895296.8	(31) 201514670436
H04B 7/04	(22) 23.03.2016	201562127861 P
H04B 7/06	(54) COMMON PHASE ERROR AND/OR	201462087313 P
H04L 5/00	INTER-CARRIER INTERFERENCE	(32) 27.03.2015
(11) EP3684128	(73) Nokia Technologies Oy	04.03.2015
(21) EP18879723.7	(72) HAKOLA, Sami	04.12.2014
(22) 21.09.2018	PAJUKOSKI, Kari	(33) United States of America
(54) INFORMATION PROCESSING	TIROLA, Esa	United States of America
METHOD, COMMUNICATION DEVICE	(74) ir. W.J.J.M. Kempes	United States of America
AND STORAGE MEDIUM	(47) 10.05.2023	(47) 07.06.2023
(73) ZTE Corporation	(51) H04W 72/12	(51) H04W 74/08
(72) LI, YU Ngok	H04W 28/26	(11) EP3709756
WU, Hao	H04L 1/18	(21) EP20163110.8
LU, Zhaohua	H04M 1/253	(22) 23.10.2017
GAO, Bo	(11) EP2986073	(54) COLLISION AVOIDANCE ADAPTATION
CHEN, Yijian	(21) EP15188467.3	FOR AUTONOMOUS TRANSMISSION
(74) ir. A.R. Aalbers	(22) 13.08.2008	SYSTEMS
(31) 201711146781	(54) METHOD FOR CONTROLLING A	(73) Telefonaktiebolaget LM Ericsson (publ)
(32) 17.11.2017	SCHEDULING SCHEME	(72) Mukherjee, Amitav
(33) China	(73) Optis Cellular Technology, LLC	Obregon, Evanny
(47) 07.06.2023	(72) PARK, Kyu Jin	Koorapaty, Havish
(51) H04W 72/04	SUNG, Doo Hyun	Cheng, Jung-Fu
H04L 5/00	LEE, Eun Jong	Karaki, Reem
H04W 84/12	HAN, Jong Young	(74) ir. A. Blokland c.s.
H04W 88/08	CHO, Han Gyu	(31) 201662412388 P
H04B 7/06	CHOI, Jin Soo	(32) 25.10.2016
(11) EP3902357	PARK, Hyung Ho	(33) United States of America
(21) EP21161094.4	CHUNG, Jae Hoon	(47) 24.05.2023
(22) 12.11.2015	(74) ir. H.A. Witmans c.s.	(51) H04W 74/08
(54) WLAN SYSTEM RESOURCE	(31) 20080003031	(11) EP4023022
INDICATION METHOD AND	20070117514	(21) EP20765224.9
APPARATUS	55445	(22) 26.08.2020
(73) Huawei Technologies Co. Ltd.	39090	(54) FLEXIBLE ENERGY DETECTION IN
(72) ZHANG, Jiayin	38412	UNLICENSED SPECTRUM
PANG, Jiyong	31702	(73) Telefonaktiebolaget LM Ericsson (publ)
LUO, Jun	23432	(72) SUGIRTHARAJ, David
(74) ir. W.J.J.M. Kempes	955401 P	MADHAVAN, Narendar
(31) PCT/CN2015/081859	(32) 10.01.2008	SIOMINA, Iana
PCT/CN2015/077912	16.11.2007	KARAKI, Reem
(32) 18.06.2015	22.05.2008	FALAHATI, Sorour
30.04.2015	24.03.2008	KOORAPATY, Havish
(33) World Intellectual Property Office (WIPO)	21.03.2008	(74) ir. A. Blokland c.s.
World Intellectual Property Office (WIPO)	27.02.2008	(31) 202062993403 P
(47) 19.04.2023	25.01.2008	201962891570 P
(51) H04W 72/04	13.08.2007	(32) 23.03.2020
H04W 16/14	(33) Korea (Republic)	26.08.2019
(11) EP3917252	Korea (Republic)	(33) United States of America
(21) EP21187704.8	United States of America	United States of America
(22) 21.12.2017	United States of America	(47) 31.05.2023
(54) CONTROL OF UPLINK RADIO	United States of America	(51) H04W 74/08
TRANSMISSIONS ON SEMI-	United States of America	(11) EP4068897
PERSISTENTLY ALLOCATED	United States of America	(21) EP22164938.7
RESOURCES	United States of America	(22) 29.03.2022
(73) Telefonaktiebolaget LM Ericsson (publ)	(47) 26.04.2023	(54) METHOD AND APPARATUS
(72) Karaki, Reem	(51) H04W 72/14	FOR HANDLING CONTENTION
Mukherjee, Amitav	H04W 72/04	RESOLUTION IN A WIRELESS
Cheng, Jung-Fu	H04W 72/12	COMMUNICATION SYSTEM
(74) ir. A. Blokland c.s.	(11) EP3228139	(73) ASUSTek Computer Inc.
(31) 201762476089 P	(21) EP15865941.7	(72) HUANG, Yi-Hsuan
(32) 24.03.2017	(22) 04.11.2015	OU, Meng-Hui
(33) United States of America	(54) APPARATUS, PRODUCT AND METHOD	(74) dr. ir. G.J.C. Verdijck c.s.
(47) 10.05.2023	OF DYNAMIC ALLOCATION USING A	(31) 202163280339 P
(51) H04W 72/12	GRANT FRAME	202163169668 P
H04L 25/03	(73) Intel Corporation	(32) 17.11.2021
H04L 27/26	(72) TRAININ, Solomon B.	01.04.2021

(33) United States of America United States of America (47) 12.04.2023	(22) 09.11.2020 (54) CONNECTION RECOVERY BASED ON CELL CONFIGURATION	H04W 76/15 H04W 76/10 (11) EP3709765 (21) EP20172064.6 (22) 05.11.2015 (54) WIRELESS COMMUNICATION APPARATUS, WIRELESS COMMUNICATION METHOD, AND PROGRAM
(51) H04W 74/08 H04W 16/14 (11) EP3794898 (21) EP19729575.1 (22) 14.06.2019 (54) COMMUNICATIONS DEVICE, INFRASTRUCTURE EQUIPMENT AND METHODS	(73) Ofinno, LLC (72) PARK, Kyungmin DINAN, Esmael KIM, Taehun RYU, JinSook (74) dr. W.A.H.M. Van Borm (31) 201962931952 P (32) 07.11.2019 (33) United States of America (47) 10.05.2023	(73) Sony Group Corporation (72) Itoh, Katsutoshi Suzuki, Hideyuki Kawakami, Daisuke (74) ir. W.J.J.M. Kempes (31) 2015022448 (32) 06.02.2015 (33) Japan (47) 26.04.2023
(73) Sony Group Corporation (72) WEI, Yuxin SHARMA, Vivek WAKABAYASHI, Hideji ATUNGSIRI, Samuel Asangbeng (74) ir. W.J.J.M. Kempes (31) 18178844 (32) 20.06.2018 (33) European Patent Office (EPO) (47) 07.06.2023	(51) H04W 76/18 H04W 36/00 H04W 92/20 H04W 76/15 (11) EP3592099 (21) EP18794482.2 (22) 04.05.2018 (54) HANDOVER METHOD AND CORRESPONDING STORAGE MEDIUM AND CHIP SYSTEM	(73) Sony Group Corporation (72) Itoh, Katsutoshi Suzuki, Hideyuki Kawakami, Daisuke (74) ir. W.J.J.M. Kempes (31) 2015022448 (32) 06.02.2015 (33) Japan (47) 26.04.2023
(51) H04W 74/08 H04W 72/04 H04W 72/02 (11) EP3820235 (21) EP19843819.4 (22) 01.07.2019 (54) RANDOM ACCESS METHOD, TERMINAL DEVICE, AND NETWORK DEVICE	(37) GUO, Yi PENG, Wenjie DAI, Mingzeng (74) ir. W.J.J.M. Kempes (31) 201710314196 (32) 05.05.2017 (33) China (47) 19.04.2023	(73) Sony Group Corporation (72) Itoh, Katsutoshi Suzuki, Hideyuki Kawakami, Daisuke (74) ir. W.J.J.M. Kempes (31) 2015022448 (32) 06.02.2015 (33) Japan (47) 26.04.2023
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. (72) SHI, Cong (74) ir. W.J.J.M. Kempes (31) 201811082392 201810865921 (32) 17.09.2018 01.08.2018 (33) China China (47) 14.06.2023	(54) HANDOVER METHOD AND CORRESPONDING STORAGE MEDIUM AND CHIP SYSTEM	(73) Sony Group Corporation (72) Itoh, Katsutoshi Suzuki, Hideyuki Kawakami, Daisuke (74) ir. W.J.J.M. Kempes (31) 2015022448 (32) 06.02.2015 (33) Japan (47) 26.04.2023
(51) H04W 74/08 H04W 76/14 H04W 76/28 (11) EP3737194 (21) EP20182978.5 (22) 18.04.2017 (54) COMMUNICATION DEVICE, COMMUNICATION METHOD AND COMPUTER PROGRAM	(37) GUO, Yi PENG, Wenjie DAI, Mingzeng (74) ir. W.J.J.M. Kempes (31) 201710314196 (32) 05.05.2017 (33) China (47) 19.04.2023	(73) Sony Group Corporation (72) Itoh, Katsutoshi Suzuki, Hideyuki Kawakami, Daisuke (74) ir. W.J.J.M. Kempes (31) 2015022448 (32) 06.02.2015 (33) Japan (47) 26.04.2023
(73) Sony Group Corporation (72) Yifu, Tang Hiromasa, Uchiyama (74) ir. W.J.J.M. Kempes (31) 2016216751 2016096239 (32) 04.11.2016 12.05.2016 (33) Japan Japan (47) 14.06.2023	(54) CELL STATE MANAGEMENT METHODS AND APPARATUS	(73) Sony Group Corporation (72) Itoh, Katsutoshi Suzuki, Hideyuki Kawakami, Daisuke (74) ir. W.J.J.M. Kempes (31) 2015022448 (32) 06.02.2015 (33) Japan (47) 26.04.2023
(51) H04W 76/15 H04W 76/19 H04W 76/27 H04W 48/20 H04W 74/08 (11) EP4029345 (21) EP20817158.7	(54) CELL STATE MANAGEMENT METHODS AND APPARATUS	(73) Sony Group Corporation (72) Itoh, Katsutoshi Suzuki, Hideyuki Kawakami, Daisuke (74) ir. W.J.J.M. Kempes (31) 2015022448 (32) 06.02.2015 (33) Japan (47) 26.04.2023
	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. (72) XU, Weijie WANG, Shukun (74) ir. W.J.J.M. Kempes (47) 07.06.2023	(73) Sony Group Corporation (72) Itoh, Katsutoshi Suzuki, Hideyuki Kawakami, Daisuke (74) ir. W.J.J.M. Kempes (31) 2015022448 (32) 06.02.2015 (33) Japan (47) 26.04.2023
	(51) H04W 84/00 H04W 88/04 H04W 28/02 H04W 40/22 H04W 76/14 H04L 47/34 (11) EP4039061 (21) EP19784027.5 (22) 04.10.2019 (54) TRANSFER OF DATA PACKETS IN END-TO-END MULTI-HOP SIDELINK RADIO COMMUNICATION	(73) Sony Group Corporation (72) Itoh, Katsutoshi Suzuki, Hideyuki Kawakami, Daisuke (74) ir. W.J.J.M. Kempes (31) 2015022448 (32) 06.02.2015 (33) Japan (47) 26.04.2023
	(73) Telefonaktiebolaget LM Ericsson (publ) (72) MUHAMMAD, Ajmal ZHANG, Congchi HU, Liang (74) ir. A. Blokland c.s. (47) 10.05.2023	(73) Sony Group Corporation (72) Itoh, Katsutoshi Suzuki, Hideyuki Kawakami, Daisuke (74) ir. W.J.J.M. Kempes (31) 2015022448 (32) 06.02.2015 (33) Japan (47) 26.04.2023
	(51) H04W 88/06 H04W 88/04	(73) Sony Group Corporation (72) Itoh, Katsutoshi Suzuki, Hideyuki Kawakami, Daisuke (74) ir. W.J.J.M. Kempes (31) 2015022448 (32) 06.02.2015 (33) Japan (47) 26.04.2023

- (72) SAES, Marc
VERSTEEGDE, Tijs
GOMMANS, Nicolaas Johannes
Antonius
- (74) ir. J.C. Volmer c.s.
(31) 2023562
(32) 24.07.2019
(33) Netherlands
(47) 31.05.2023
-
- (51) H05H 1/48
F27B 5/04
F27B 5/14
F27D 17/00
F27D 19/00
F27D 99/00
H05H 1/44
- (11) EP3710767
(21) EP18804274.1
(22) 15.11.2018
(54) HIGH TEMPERATURE FURNACE,
USE OF A HIGH TEMPERATURE
FURNACE AND METHOD FOR HIGH
TEMPERATURE HEATING WITHOUT
EMISSIONS IN A HIGH TEMPERATURE
FURNACE
- (73) Linde GmbH
(72) NISKA, John
NILSSON, Annika
- (74) ir. W.J.J.M. Kempes
(31) 1751417
(32) 16.11.2017
(33) Sweden
(47) 31.05.2023
-
- (51) H05K 13/04
H05K 13/08
- (11) EP3806612
(21) EP18920707.9
(22) 01.06.2018
(54) BACKUP PIN AND AUTOMATIC
BACKUP PIN EXCHANGE SYSTEM
- (73) Fuji Corporation
(72) KANDA, Tomohisa
- (74) dr. R.C. van Duijvenbode c.s.
(47) 07.06.2023
-
- (51) H10K 59/32
H10K 59/35
H10K 59/38
H10K 50/19
H10K 50/824
- (11) EP3252823
(21) EP17173826.3
(22) 31.05.2017
(54) DISPLAY PANEL AND METHOD FOR
MANUFACTURING THE SAME
- (73) Samsung Display Co., Ltd.
(72) JEON, Woosik
OH, Eonseok
KIM, Jungyeon
- (74) ir. H.A. Witmans c.s.
(31) 20160068368
(32) 01.06.2016
(33) Korea (Republic)
(47) 28.06.2023
-

EP4

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

(51) A47J 31/44	(33) United Kingdom	(22) 20.06.2014
A47J 31/40	(47) 01.01.2020	(54) FACILITY FOR LOADING AND UNLOADING CONTAINERS
A47J 31/54	(51) B01D 53/86	(73) GAUSSIN SA
(11) EP3413766	C01B 21/38	(74) ir. M.F.J.M. Ketelaars c.s.
(21) EP17705088.7	(11) EP3454975	(72) KLEIN, Simon
(22) 10.02.2017	(21) EP17721060.6	HECKY, Stéphane
(54) MACHINE FOR MAKING BEVERAGES	(22) 13.04.2017	(31) 1360245
(73) Tchibo (Schweiz) AG	(54) METHOD FOR REDUCING THE WASTE	1356288
(74) dr. ir. G.J.C. Verdijck c.s.	GAS CONCENTRATION OF NOX IN A	(32) 21.10.2013
(72) GÖDDE, Wolfgang	PLANT FOR PRODUCING NITRIC ACID	28.06.2013
HARTMANN, Doreen	AS SAID PLANT IS STARTED UP AND/OR SHUT DOWN	(33) France
(31) 16155564	(73) thyssenkrupp Industrial Solutions AG	France
(32) 12.02.2016	thyssenkrupp AG	(47) 15.04.2020
(33) European Patent Office (EPO)	(74) ir. H.A. Witmans c.s.	(51) C03B 19/10
(47) 11.03.2020	(72) RUTHARDT, Klaus	C03C 11/00
(51) A61B 17/00	GROVES, Michael	C03C 3/06
A61B 17/12	KERN, Paul	C03C 12/00
(11) EP2266465	(31) 102016206872	(11) EP3000790
(21) EP09169783.9	(32) 22.04.2016	(21) EP14186768.9
(22) 22.03.2007	(33) Germany	(22) 29.09.2014
(54) Occlusion instrument and method for its production	(47) 04.11.2020	(54) Method for production of components made of synthetic quartz-glass from SiO ₂ granulate
(73) Occlutech Holding AG	(51) B21B 45/02	(73) Heraeus Quarzglas GmbH & Co. KG
(72) Krizanic, Florian, Dr.	B21B 39/08	(74) ir. W.J.J.M. Kempes
Moszner, Robert, Dr.	(11) EP2623221	(72) Otter, Matthias
Figulla, Hans-Reiner, Prof.	(21) EP11828709.3	Kuehn, Bodo
Moszner, Friedrich	(22) 05.09.2011	Hofmann, Achim
(31) 102006013770	(54) MANUFACTURING DEVICE AND MANUFACTURING METHOD FOR HOT-ROLLED STEEL STRIP	Kayser, Thomas
(32) 24.03.2006	(73) Nippon Steel & Sumitomo Metal Corporation	(47) 27.11.2019
(33) Germany	(72) HORII, Kenji	(51) C07C 209/52
(47) 21.05.2014	TAKENO, Koichi	C07C 249/02
(51) A61F 2/24	ETO, Manabu	C07C 209/26
(11) EP2787924	WASHIKITA, Yoshiro	(11) EP2885269
(21) EP12795707.4	IKEMOTO, Yuji	(21) EP13735210.0
(22) 20.11.2012	(31) 2010216352	(22) 11.07.2013
(54) TRANSCATHETER VALVE HAVING REDUCED SEAM EXPOSURE	(32) 28.09.2010	(54) CONTINUOUS METHOD FOR PRODUCING PRIMARY ALIPHATIC AMINES FROM ALDEHYDES
(73) Medtronic Inc.	(33) Japan	(73) OXEA GmbH
(74) ir. A. Blokland c.s.	(47) 06.04.2016	(72) HEYMANN, Peter
(72) DESTEFANO, Alaena	(51) B41F 33/00	BERMANN, Dirk
(31) 201113310949	B41F 13/14	SCHALAPSKI, Kurt
(32) 05.12.2011	B41F 17/22	GEISEL, Sebastian
(33) United States of America	(11) EP3028856	STRUTZ, Heinz
(47) 20.09.2017	(21) EP14196388.4	EISENACHER, Matthias
(51) A61K 38/18	(22) 04.12.2014	JOHNEN, Leif
A61P 9/10	(54) Printing apparatus	NOWOTNY, Norman
A61P 11/00	(73) Ball Beverage Packaging Europe Limited	(31) 102012016433
(11) EP3166628	Ball Beverage Can South America S.A.	(32) 17.08.2012
(21) EP15739658.1	(74) ir. A. Blokland c.s.	(33) Germany
(22) 09.07.2015	(72) Giublin, Bruno Leonardo	(47) 14.09.2016
(54) THERAPEUTIC USE OF BONE MORPHOGENETIC PROTEINS	Hansen, Michael Bo	(51) C07K 14/51
(73) Cambridge Enterprise Limited	Guilherme, Leandro Augusto	A61K 38/10
(74) ir. H.A. Witmans c.s.	Kilde, Henrik	A61K 38/17
(72) UPTON, Paul D	(47) 03.04.2019	(11) EP2251351
LI, Wei	(51) B60P 1/02	(21) EP10006930.1
MORRELL, Nicholas W	B60P 1/64	(22) 28.04.2006
(31) 201412290	(11) EP3013639	(54) SCLEROSTIN EPITOPES
(32) 10.07.2014	(21) EP14749883.6	

(73) Amgen Inc.	(73) tesa SE	(11) EP2402754
(72) Lawson, Alastair	(72) Burmeister, Axel	(21) EP11172812.7
Robinson, Martyn Kim	Mayer, Michael	(22) 06.03.2007
Hoffmann, Kelly Sue	Dollase, Thilo	(54) Unstructured recombinant polymers and
Henry, Alistair James	Krawinkel, Thorsten	uses thereof
Latham, John	Petersen, Anika	(73) Amunix Operating Inc.
Paszty, Christopher	(31) 102013215296	(72) Cramer, Andreas
Lu, Hsieng Sen	(32) 02.08.2013	Wang, Chia-wei
Winters, Aaron George	(33) Germany	Popkov, Mikhail
Winkler, David	(47) 28.09.2016	Gordon, Nathaniel C.
(31) 410540	(51) C10G 3/00	Stemmer, Willem P.
792645 P	C10G 45/58	Scholle, Michael D.
782244 P	C10G 45/02	Schellenberger, Volker
776847 P	C10L 1/04	(31) 528950
677583 P	C11C 3/00	528927
(32) 25.04.2006	C10G 65/04	743622 P
17.04.2006	(11) EP2334757	743410 P
13.03.2006	(21) EP09777387.3	(32) 27.09.2006
24.02.2006	(22) 23.07.2009	27.09.2006
03.05.2005	(54) HYDROCONVERSION PROCESS AND	21.03.2006
(33) United States of America	CATALYST	06.03.2006
United States of America	(73) Haldor Topsøe A/S	(33) United States of America
United States of America	(72) KNUDSEN, Kim, Grøn	United States of America
United States of America	BLOM, Niels, Jørgen	United States of America
United States of America	HANSEN, Jens, A.	United States of America
(47) 04.01.2017	EGEBERG, Rasmus, Gottschalck	(47) 19.11.2014
(51) C07K 16/40	(31) 200801267	
C07K 16/12	(32) 10.09.2008	
C12N 9/64	(33) Denmark	
A61K 39/395	(47) 18.09.2013	
A61K 39/00	(51) C12N 15/10	
A61K 39/08	C12N 9/22	
A61P 3/06	(11) EP3237615	
G01N 33/569	(21) EP15831022.7	
(11) EP2358756	(22) 21.12.2015	
(21) EP09793408.7	(54) CRISPR HAVING OR ASSOCIATED	
(22) 15.12.2009	WITH DESTABILIZATION DOMAINS	
(54) HIGH AFFINITY HUMAN ANTIBODIES	(73) President and Fellows of Harvard	
TO PCSK9	College	
(73) Regeneron Pharmaceuticals, Inc.	The Broad Institute, Inc.	
(72) MARTIN, Joel, H.	Massachusetts Institute of Technology	
HUANG, Tammy, T.	(74) ir. W.J.J.M. Kempes	
MACDONALD, Douglas	(72) ZETSCHKE, Bernd	
SLEEMAN, Mark, W.	CHOUDHARY, Amit	
(31) 261776 P	ZHANG, Feng	
218136 P	(31) 201562181151 P	
210566 P	201462096656 P	
249135 P	(32) 17.06.2015	
122482 P	24.12.2014	
168753 P	(33) United States of America	
(32) 17.11.2009	United States of America	
18.06.2009	(47) 12.02.2020	
18.03.2009	(51) F04C 25/02	
06.10.2009	F04C 29/00	
15.12.2008	(11) EP2831423	
13.04.2009	(21) EP13724324.2	
(33) United States of America	(22) 20.03.2013	
United States of America	(54) VACUUM PUMP SYSTEM	
United States of America	(73) Edwards Limited	
United States of America	(74) ir. F.A. Geurts c.s.	
United States of America	(72) MANSON, David Paul	
United States of America	(31) 201205284	
(47) 11.01.2017	(32) 26.03.2012	
(51) C09J 133/08	(33) United Kingdom	
(11) EP2883926	(47) 01.07.2020	
(21) EP14179525.2	(51) G01N 33/53	
(22) 01.08.2014	G01N 33/567	
(54) Adhesive mass	C12N 15/06	

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) A23L 2/38	(47) 02.04.2014	29.05.2015
A23B 7/155	(51) C08J 3/03	(33) United States of America
A23L 19/00	C09D 167/00	United States of America
A23B 7/10	(11) EP2681260	(47) 04.03.2020
A23L 2/42	(21) EP11708634.8	(51) H04L 12/28
(11) EP2648530	(22) 02.03.2011	A61L 9/015
(21) EP11802325.8	(54) METHOD FOR PRODUCING AN	A61L 9/03
(22) 07.12.2011	AQUEOUS DISPERSION	A61L 9/12
(54) FRUIT FERMENTS CONTAINING	(73) Dow Global Technologies LLC	A61L 9/14
PROPIONATE AND USE THEREOF	Rohm and Haas Company	F24F 11/50
(73) Purac Biochem B.V.	(72) YOUNG, Timothy	F24F 3/16
(72) HEINTZ, Eelco Anthonius Johannes	DIEHL, Charles	H04W 4/80
SLIEKERS, Arne Olav	LINDENMUTH, Denise	F24F 110/60
(74) ir. A.R. Aalbers	MALOTKY, David	(11) EP3360291
(31) 10194044	KAINZ, Bernhard	(21) EP16784346.5
(32) 07.12.2010	(74) ir. J.D. de Zeeuw	(22) 05.10.2016
(33) European Patent Office (EPO)	(47) 19.04.2017	(54) SYSTEMS AND METHODS FOR
(47) 27.05.2020	(51) C12N 1/22	COUPLING THE OPERATIONS OF A
(51) A61K 9/08	C12N 9/24	VOLATILE COMPOSITION DISPENSER
A61K 31/728	C12N 15/81	AND A SMART APPLIANCE
A61K 31/737	(11) EP3033413	(73) The Procter & Gamble Company
(11) EP2034956	(21) EP14756202.9	(72) HASENOEHL, Erik John
(21) EP07729534.3	(22) 15.08.2014	(74) ir. W.J.J.M. Kempes
(22) 25.05.2007	(54) METHODS FOR THE IMPROVEMENT	(31) 201514879112
(54) COMPOSITIONS COMPRISING	OF PRODUCT YIELD AND	(32) 09.10.2015
GLYCOSAMINOGLYCANS OF LOW	PRODUCTION IN A MICROORGANISM	(33) United States of America
VISCOSITY AND USE OF SAID	THROUGH GLYCEROL RECYCLING	(47) 16.09.2020
COMPOSITION IN THERAPY OF	(73) Lallemand Hungary Liquidity	
CHRONIC CYSTITIS	Management LLC	
(73) ALTERGON S.A.	(72) STONEHOUSE, Emily	
(72) PIZZUTTI, Marco	KENEALY, William R.	
PUPPINI, Nadia	ARGYROS, Aaron	
ZOPPETTI, Giorgio	(74) dr. R.C. van Duijvenbode c.s.	
(74) ir. H.A. Witmans c.s.	(31) 201361866338 P	
(31) MI20061030	(32) 15.08.2013	
(32) 26.05.2006	(33) United States of America	
(33) Italy	(47) 24.06.2020	
(47) 21.03.2018	(51) C12Q 1/6886	
(51) A61P 11/06	A61P 13/10	
A61P 11/00	A61P 35/00	
A61K 9/12	A61P 35/04	
A61K 45/06	A61P 43/00	
A61K 9/00	(11) EP3303632	
A61K 31/167	(21) EP16732373.2	
A61K 31/40	(22) 27.05.2016	
(11) EP2515855	(54) THERAPEUTIC AND DIAGNOSTIC	
(21) EP10799030.1	METHODS FOR CANCER	
(22) 22.12.2010	(73) F. Hoffmann-La Roche AG	
(54) Combination therapy for COPD	(72) MARIATHASAN, Sanjeev	
(73) Chiesi Farmaceutici S.p.A.	KOWANETZ, Marcin	
(72) BONELLI, Sauro	FINE, Gregg	
ZAMBELLI, Enrico	HEGDE, Priti	
USBERTI, Francesca	BOURGON, Richard	
(74) ir. H.A. Witmans c.s.	(74) drs. C.M.A. Quintelier	
(31) 09180671	(31) 201662301599 P	
(32) 23.12.2009	201562168669 P	
(33) European Patent Office (EPO)	(32) 29.02.2016	

SPC**Ingeschreven en verleende certificaten.****Contains data concerning applications for- or granted Supplementary Protection Certificates.**

(21) 301238

(22) 24.07.2023

(11) 301238

(74) dr. R.C. van Duijvenbode c.s.

(68) EP2922846

(54) AMIDE-SUBSTITUTED

HETEROCYCLIC COMPOUNDS

USEFUL AS MODULATORS OF IL-12,

IL-23 AND/OR IFN-ALPHA

(94) 1598

(95) Deucravacitinib, desgewenst in de vorm

van een farmaceutisch aanvaardbaar

zout

(93) EU/1/23/1718 24.03.2023

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) EP2665436	B60K 25/02
(51) A61M 1/36	B62D 55/00
A61B 90/90	E01H 4/02
A61B 90/96	B60K 6/26
A61B 90/98	B60K 6/34
(00) 38/22	(00) 38/22
21.09.2022	21.09.2022
(11) EP3231595	(11) EP3800146
(51) B32B 5/26	(51) B65G 17/20
B32B 7/04	B65G 43/08
B32B 27/02	(00) 38/22
B81C 1/00	21.09.2022
G06F 1/16	
H04R 31/00	
B01D 69/10	
B01D 69/12	
D06M 10/02	
B01D 67/00	
H04R 7/10	
H04R 7/12	
H04R 29/00	
D04H 1/728	
D06M 10/10	
D06M 14/18	
B01D 39/08	
B01D 39/16	
D01D 5/00	
B32B 5/02	
(00) 39/22	
28.09.2022	
(11) EP3540081	
(51) C21B 7/10	
C21C 5/46	
F27B 1/24	
F27B 3/24	
F27D 1/12	
F27D 9/00	
(00) 38/22	
21.09.2022	
(11) EP3548640	
(51) C21C 5/52	
F27D 3/15	
F27B 3/10	
F27B 3/18	
F27B 3/08	
C21C 5/46	
C21C 5/28	
C21C 5/54	
C21B 11/10	
(00) 38/22	
21.09.2022	
(11) EP3683140	
(51) B64C 9/22	
B64C 9/24	
(00) 41/22	
12.10.2022	
(11) EP3736154	
(51) B60K 6/46	

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) EP2493783	(51) C08B 37/16
(51) B65F 1/00	C08L 5/16
(00) 07/20	(11) EP3388777
12.02.2020	(51) F42B 10/64
(11) EP2518018	F42B 10/26
(51) B01D 53/86	(00) 04/23
B01J 23/10	25.01.2023
B01J 33/00	(00) 25.07.2023
F01N 3/10	(00) Positive
C01F 17/00	(11) EP3403877
(00) 39/21	(51) E04H 15/06
29.09.2021	E04H 15/20
(11) EP2559266	B60P 3/34
(51) H04W 4/00	(11) EP3406462
(11) EP2609808	(51) B60C 1/00
(51) A21D 2/16	B60C 5/00
A21D 2/36	B60C 9/08
A21D 2/38	B60C 9/18
A21D 8/04	B60C 11/00
A21D 10/00	B60C 19/00
A21D 13/00	(00) 28/21
(11) EP2643401	14.07.2021
(51) B60C 1/00	(11) EP3422875
C08K 5/00	(51) A24B 15/00
C08L 9/06	A24B 15/30
(00) 33/21	A24B 15/34
18.08.2021	A24B 15/16
(11) EP2970389	A24F 47/00
(51) A61K 38/12	(00) 01/21
C07K 7/54	06.01.2021
(11) EP3103448	(11) EP3430923
(51) A61K 9/16	(51) A41B 11/00
A61K 9/20	A61F 13/06
A61K 9/28	A61F 13/08
A61K 9/48	(00) 33/21
A61K 9/50	18.08.2021
A61K 31/135	(11) EP3603570
A61K 47/38	(51) A61C 17/22
A61P 37/06	(00) 52/21
(00) 33/19	29.12.2021
14.08.2019	(11) EP3753706
(11) EP3104111	(51) B29C 64/153
(51) F28F 1/32	B29C 64/371
F28F 13/06	B29C 64/245
(00) 24/23	B22F 10/322
14.06.2023	B22F 3/105
(00) 24.07.2023	B22F 12/17
(00) Positive	B22F 12/30
(11) EP3334873	B22F 12/70
(51) B60R 3/02	B33Y 10/00
E04F 11/02	B33Y 30/00
E04F 11/035	(00) 24/23
E04F 11/06	14.06.2023
(11) EP3378856	(00) 20.07.2023
(51) C07D 279/18	(00) Positive
(11) EP3380554	

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

	C12N 9/22
(11) EP2251351	(11) EP3413766
(51) C07K 14/51	(51) A47J 31/44
A61K 38/10	A47J 31/40
A61K 38/17	A47J 31/54
(11) EP2266465	(11) EP3415708
(51) A61B 17/00	(51) E21B 7/04
A61B 17/12	E21B 15/04
(11) EP2334757	(11) EP3454975
(51) C10G 3/00	(51) B01D 53/86
C10G 45/58	C01B 21/38
C10G 45/02	(11) EP3725778
C10L 1/04	(00) 17.07.2023
C11C 3/00	(51) C07D 233/86
C10G 65/04	A61K 31/4164
(11) EP2358756	A61P 35/00
(51) C07K 16/40	A61K 31/4166
C07K 16/12	A61K 9/16
C12N 9/64	A61P 13/08
A61K 39/395	A61P 15/00
A61K 39/00	A61P 15/08
A61K 39/08	A61P 15/14
A61P 3/06	A61P 43/00
G01N 33/569	(00) For Invalidity declaration
(11) EP2402754	
(51) G01N 33/53	
G01N 33/567	
C12N 15/06	
(11) EP2623221	
(51) B21B 45/02	
B21B 39/08	
(11) EP2787924	
(51) A61F 2/24	
(11) EP2831423	
(51) F04C 25/02	
F04C 29/00	
(11) EP2883926	
(51) C09J 133/08	
(11) EP2885269	
(51) C07C 209/52	
C07C 249/02	
C07C 209/26	
(11) EP3000790	
(51) C03B 19/10	
C03C 11/00	
C03C 3/06	
C03C 12/00	
(11) EP3013639	
(51) B60P 1/02	
B60P 1/64	
(11) EP3028856	
(51) B41F 33/00	
B41F 13/14	
B41F 17/22	
(11) EP3166628	
(51) A61K 38/18	
A61P 9/10	
A61P 11/00	
(11) EP3237615	
(51) C12N 15/10	

VRV

**Verval of nietigverklaring.
Contains data concerning lapse or annulment.**

(11) 1023981	(00) Patent Expired	(00) Patent Expired
(00) 23.07.2023	(11) EP1525158	(11) EP1536437
(00) Patent Expired	(00) 24.07.2023	(00) 22.07.2023
(11) 1023990	(00) Patent Expired	(00) Patent Expired
(00) 24.07.2023	(11) EP1525159	(11) EP1536792
(00) Patent Expired	(00) 25.07.2023	(00) 25.07.2023
(11) 1023995	(00) Patent Expired	(00) Patent Expired
(00) 24.07.2023	(11) EP1525224	(11) EP1537159
(00) Patent Expired	(00) 24.07.2023	(00) 24.07.2023
(11) 1024003	(00) Patent Expired	(00) Patent Expired
(00) 25.07.2023	(11) EP1525317	(11) EP1537229
(00) Patent Expired	(00) 25.07.2023	(00) 25.07.2023
(11) EP1384445	(00) Patent Expired	(00) Patent Expired
(00) 21.07.2023	(11) EP1525320	(11) EP1539826
(00) Patent Expired	(00) 21.07.2023	(00) 26.07.2023
(11) EP1384849	(00) Patent Expired	(00) Patent Expired
(00) 21.07.2023	(11) EP1525351	(11) EP1540087
(00) Patent Expired	(00) 22.07.2023	(00) 24.07.2023
(11) EP1387151	(00) Patent Expired	(00) Patent Expired
(00) 23.07.2023	(11) EP1525426	(11) EP1541000
(00) Patent Expired	(00) 22.07.2023	(00) 24.07.2023
(11) EP1393741	(00) Patent Expired	(00) Patent Expired
(00) 23.07.2023	(11) EP1526966	(11) EP1541688
(00) Patent Expired	(00) 25.07.2023	(00) 25.07.2023
(11) EP1398099	(00) Patent Expired	(00) Patent Expired
(00) 22.07.2023	(11) EP1527338	(11) EP1542596
(00) Patent Expired	(00) 24.07.2023	(00) 25.07.2023
(11) EP1400634	(00) Patent Expired	(00) Patent Expired
(00) 25.07.2023	(11) EP1527461	(11) EP1545298
(00) Patent Expired	(00) 25.07.2023	(00) 24.07.2023
(11) EP1500349	(00) Patent Expired	(00) Patent Expired
(00) 25.07.2023	(11) EP1529379	(11) EP1546094
(00) Patent Expired	(00) 24.07.2023	(00) 24.07.2023
(11) EP1523340	(00) Patent Expired	(00) Patent Expired
(00) 22.07.2023	(11) EP1530374	(11) EP1546565
(00) Patent Expired	(00) 22.07.2023	(00) 24.07.2023
(11) EP1523355	(00) Patent Expired	(00) Patent Expired
(00) 22.07.2023	(11) EP1530464	(11) EP1546633
(00) Patent Expired	(00) 25.07.2023	(00) 24.07.2023
(11) EP1523503	(00) Patent Expired	(00) Patent Expired
(00) 23.07.2023	(11) EP1530471	(11) EP1546831
(00) Patent Expired	(00) 25.07.2023	(00) 24.07.2023
(11) EP1523512	(00) Patent Expired	(00) Patent Expired
(00) 22.07.2023	(11) EP1530509	(11) EP1551390
(00) Patent Expired	(00) 22.07.2023	(00) 21.07.2023
(11) EP1523532	(00) Patent Expired	(00) Patent Expired
(00) 22.07.2023	(11) EP1532835	(11) EP1552155
(00) Patent Expired	(00) 22.07.2023	(00) 24.07.2023
(11) EP1524913	(00) Patent Expired	(00) Patent Expired
(00) 23.07.2023	(11) EP1534086	(11) EP1552156
(00) Patent Expired	(00) 23.07.2023	(00) 24.07.2023
(11) EP1524922	(00) Patent Expired	(00) Patent Expired
(00) 21.07.2023	(11) EP1534480	(11) EP1556029
(00) Patent Expired	(00) 21.07.2023	(00) 22.07.2023
(11) EP1525023	(00) Patent Expired	(00) Patent Expired
(00) 24.07.2023	(11) EP1534678	(11) EP1572339
(00) Patent Expired	(00) 23.07.2023	(00) 23.07.2023
(11) EP1525157	(00) Patent Expired	(00) Patent Expired
(00) 23.07.2023	(11) EP1535518	(11) EP1572598
	(00) 25.07.2023	(00) 25.07.2023

(00) Patent Expired	(00) Patent Expired	(00) EPV Ceased Effect
(11) EP1575416	(11) EP2320659	(11) EP2785393
(00) 21.07.2023	(00) 22.07.2023	(00) 22.03.2023
(00) Patent Expired	(00) Patent Expired	(00) EPV Ceased Effect
(11) EP1632458	(11) EP2436794	(11) EP2788904
(00) 23.07.2023	(00) 03.03.2023	(00) 22.03.2023
(00) Patent Expired	(00) European Patent got Revoked	(00) EPV Ceased Effect
(11) EP1646289	(11) EP2462557	(11) EP2790341
(00) 21.07.2023	(00) 04.03.2015	(00) 22.03.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP1648720	(11) EP2505853	(11) EP2791519
(00) 25.07.2023	(00) 22.03.2023	(00) 22.03.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP1688106	(11) EP2526778	(11) EP2803759
(00) 25.07.2023	(00) 04.01.2017	(00) 22.03.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP1813541	(11) EP2615453	(11) EP2814329
(00) 23.07.2023	(00) 22.03.2023	(00) 17.01.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) European Patent got Revoked
(11) EP1973549	(11) EP2619406	(11) EP2817138
(00) 24.05.2023	(00) 22.03.2023	(00) 22.03.2023
(00) European Patent got Revoked	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2040055	(11) EP2644887	(11) EP2820511
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2085613	(11) EP2646086	(11) EP2824927
(00) 20.12.2022	(00) 22.03.2023	(00) 22.07.2023
(00) European Patent got Revoked	(00) EPV Ceased Effect	(00) Patent Expired
(11) EP2097342	(11) EP2647488	(11) EP2824928
(00) 22.03.2023	(00) 22.03.2023	(00) 22.07.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) Patent Expired
(11) EP2151169	(11) EP2660365	(11) EP2824986
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2201984	(11) EP2667275	(11) EP2830591
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2289514	(11) EP2679767	(11) EP2831612
(00) 25.07.2023	(00) 22.03.2023	(00) 22.03.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2295579	(11) EP2696170	(11) EP2848963
(00) 25.07.2023	(00) 22.03.2023	(00) 22.03.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2298905	(11) EP2702300	(11) EP2856420
(00) 25.07.2023	(00) 22.03.2023	(00) 22.03.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2298906	(11) EP2723297	(11) EP2863920
(00) 25.07.2023	(00) 22.03.2023	(00) 22.03.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2298907	(11) EP2726159	(11) EP2869152
(00) 25.07.2023	(00) 22.03.2023	(00) 22.03.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2298908	(11) EP2729856	(11) EP2889848
(00) 25.07.2023	(00) 22.03.2023	(00) 06.06.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) European Patent got Revoked
(11) EP2298909	(11) EP2730663	(11) EP2895949
(00) 25.07.2023	(00) 22.03.2023	(00) 22.03.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2302061	(11) EP2747775	(11) EP2903272
(00) 25.07.2023	(00) 22.03.2023	(00) 22.07.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) Patent Expired
(11) EP2305301	(11) EP2754378	(11) EP2903277
(00) 21.07.2023	(00) 22.03.2023	(00) 22.07.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) Patent Expired
(11) EP2308507	(11) EP2771672	(11) EP2903278
(00) 21.07.2023	(00) 22.03.2023	(00) 22.07.2023

(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2910179	(11) EP3009640	(11) EP3120984
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2912954	(11) EP3013984	(11) EP3122877
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2928185	(11) EP3018156	(11) EP3123580
(00) 22.07.2023	(00) 22.03.2023	(00) 22.03.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2931192	(11) EP3034006	(11) EP3128500
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2934671	(11) EP3039381	(11) EP3129744
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2936456	(11) EP3039707	(11) EP3131958
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2940491	(11) EP3045139	(11) EP3135072
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2941488	(11) EP3047676	(11) EP3136939
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2944942	(11) EP3056268	(11) EP3137410
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2950894	(11) EP3056726	(11) EP3142043
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2953271	(11) EP3058226	(11) EP3145426
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2956167	(11) EP3058942	(11) EP3154426
(00) 16.12.2022	(00) 04.12.2019	(00) 22.03.2023
(00) European Patent got Revoked	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2978640	(11) EP3061035	(11) EP3154539
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2983220	(11) EP3064142	(11) EP3157072
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2988317	(11) EP3068726	(11) EP3162627
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2988700	(11) EP3077190	(11) EP3163419
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2990710	(11) EP3081960	(11) EP3163980
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2993962	(11) EP3091102	(11) EP3164756
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2995282	(11) EP3101449	(11) EP3164775
(00) 21.07.2023	(00) 22.03.2023	(00) 22.03.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3002289	(11) EP3104421	(11) EP3165683
(00) 17.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) European Patent got Revoked	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3004169	(11) EP3104767	(11) EP3172138
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3006929	(11) EP3118110	(11) EP3174118
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3176332	(11) EP3239045	(11) EP3293703
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3182040	(11) EP3239143	(11) EP3294120
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3182482	(11) EP3240562	(11) EP3299562
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3183099	(11) EP3240632	(11) EP3300131
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3189154	(11) EP3246779	(11) EP3301937
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3193572	(11) EP3247547	(11) EP3304659
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3195642	(11) EP3255281	(11) EP3305679
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3195923	(11) EP3255780	(11) EP3308687
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3196613	(11) EP3256186	(11) EP3308762
(00) 22.03.2023	(00) 22.03.2023	(00) 16.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) European Patent got Revoked
(11) EP3199565	(11) EP3256418	(11) EP3308918
(00) 22.03.2023	(00) 30.01.2019	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3201704	(11) EP3259246	(11) EP3309193
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3209259	(11) EP3266290	(11) EP3310047
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3215235	(11) EP3268782	(11) EP3312577
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3216413	(11) EP3272697	(11) EP3315130
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3220463	(11) EP3272782	(11) EP3315745
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3221132	(11) EP3273375	(11) EP3315746
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3229255	(11) EP3274145	(11) EP3317341
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3229722	(11) EP3275717	(11) EP3317924
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3234312	(11) EP3277676	(11) EP3318179
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3235196	(11) EP3280361	(11) EP3318936
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3235611	(11) EP3280508	(11) EP3319075
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3236156	(11) EP3292254	(11) EP3319899
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3320040	(11) EP3361850	(11) EP3397117
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3320942	(11) EP3364458	(11) EP3397835
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3322225	(11) EP3364867	(11) EP3398190
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3324201	(11) EP3365731	(11) EP3399421
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3324883	(11) EP3365811	(11) EP3399568
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3325346	(11) EP3369466	(11) EP3401425
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3330524	(11) EP3369569	(11) EP3402843
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3331939	(11) EP3370374	(11) EP3403930
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3332349	(11) EP3370560	(11) EP3404214
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3336450	(11) EP3371423	(11) EP3406296
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3342898	(11) EP3374550	(11) EP3409970
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3345961	(11) EP3374732	(11) EP3413652
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3346167	(11) EP3377675	(11) EP3414856
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3346295	(11) EP3377740	(11) EP3415541
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3348138	(11) EP3381665	(11) EP3415885
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3348162	(11) EP3383354	(11) EP3419186
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3353030	(11) EP3391471	(11) EP3419328
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3354426	(11) EP3392768	(11) EP3419562
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3355144	(11) EP3393149	(11) EP3421230
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3356959	(11) EP3395187	(11) EP3424705
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3357548	(11) EP3395934	(11) EP3426179
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3360524	(11) EP3396834	(11) EP3428422
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023

(00) EPV Ceased Effect	(00) European Patent got Revoked	(00) EPV Ceased Effect
(11) EP3428568	(11) EP3454706	(11) EP3473114
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3429798	(11) EP3455420	(11) EP3473141
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3429876	(11) EP3456069	(11) EP3473243
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3432333	(11) EP3456114	(11) EP3473950
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3432433	(11) EP3457008	(11) EP3475196
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3432973	(11) EP3458959	(11) EP3476909
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3434122	(11) EP3459429	(11) EP3478530
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3434422	(11) EP3460507	(11) EP3479775
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3436100	(11) EP3461114	(11) EP3480221
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3436133	(11) EP3461148	(11) EP3482695
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3436468	(11) EP3462469	(11) EP3482881
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3437806	(11) EP3464799	(11) EP3483092
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3442693	(11) EP3467080	(11) EP3483097
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3444181	(11) EP3469329	(11) EP3483336
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3444947	(11) EP3469383	(11) EP3483434
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3446656	(11) EP3469875	(11) EP3486314
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3447513	(11) EP3470290	(11) EP3486981
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3451034	(11) EP3470671	(11) EP3488184
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3451890	(11) EP3470835	(11) EP3488198
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3452000	(11) EP3471928	(11) EP3488495
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3452122	(11) EP3471969	(11) EP3488683
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3452790	(11) EP3472094	(11) EP3489668
(00) 17.03.2023	(00) 22.03.2023	(00) 22.03.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3489733	(11) EP3511502	(11) EP3531147
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3489827	(11) EP3512548	(11) EP3532515
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3490948	(11) EP3516259	(11) EP3533752
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3493882	(11) EP3518441	(11) EP3535162
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3493920	(11) EP3518644	(11) EP3535379
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3494273	(11) EP3519846	(11) EP3535662
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3494391	(11) EP3520421	(11) EP3535929
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3495095	(11) EP3521952	(11) EP3538999
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3496693	(11) EP3522241	(11) EP3539238
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3497274	(11) EP3522247	(11) EP3539765
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3497857	(11) EP3522581	(11) EP3541734
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3499515	(11) EP3524745	(11) EP3542076
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3500522	(11) EP3524961	(11) EP3544818
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3503211	(11) EP3525615	(11) EP3545168
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3503720	(11) EP3526552	(11) EP3545554
(00) 20.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) European Patent got Revoked	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3505215	(11) EP3526851	(11) EP3547110
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3505606	(11) EP3527484	(11) EP3548244
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3507584	(11) EP3527772	(11) EP3548593
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3507823	(11) EP3528752	(11) EP3548964
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3509002	(11) EP3529002	(11) EP3549504
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3510030	(11) EP3529689	(11) EP3550129
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3511310	(11) EP3529706	(11) EP3550285
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3550299	(11) EP3560386	(11) EP3579600
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3551696	(11) EP3561554	(11) EP3579752
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3551984	(11) EP3561583	(11) EP3582039
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3552034	(11) EP3561959	(11) EP3583647
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3552141	(11) EP3562324	(11) EP3583821
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3552268	(11) EP3563845	(11) EP3585980
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3552280	(11) EP3564596	(11) EP3586146
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3552887	(11) EP3566065	(11) EP3587433
(00) 22.03.2023	(00) 22.03.2023	(00) 16.06.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) European Patent got Revoked
(11) EP3552994	(11) EP3566809	(11) EP3588058
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3553410	(11) EP3567467	(11) EP3588517
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3553843	(11) EP3570012	(11) EP3588859
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3554367	(11) EP3571498	(11) EP3588940
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3554844	(11) EP3573712	(11) EP3591036
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3555017	(11) EP3574332	(11) EP3591368
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3555204	(11) EP3574381	(11) EP3591454
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3555206	(11) EP3575643	(11) EP3591499
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3555374	(11) EP3576295	(11) EP3594927
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3556176	(11) EP3576646	(11) EP3597558
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3558529	(11) EP3577429	(11) EP3598170
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3558705	(11) EP3578080	(11) EP3599195
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3559590	(11) EP3578234	(11) EP3599398
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3559773	(11) EP3579290	(11) EP3600220
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3600896	(11) EP3616334	(11) EP3627790
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3601748	(11) EP3616482	(11) EP3628508
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3602297	(11) EP3616842	(11) EP3628983
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3603011	(11) EP3617184	(11) EP3630220
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3603482	(11) EP3617518	(11) EP3630275
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3603573	(11) EP3617613	(11) EP3631042
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3603786	(11) EP3617723	(11) EP3631242
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3603916	(11) EP3619193	(11) EP3631902
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3604124	(11) EP3619249	(11) EP3632956
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3605396	(11) EP3620369	(11) EP3632957
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3605922	(11) EP3621769	(11) EP3633142
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3606424	(11) EP3621930	(11) EP3635351
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3606742	(11) EP3622029	(11) EP3635780
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3607815	(11) EP3623169	(11) EP3636187
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3609748	(11) EP3623278	(11) EP3636288
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3610236	(11) EP3623825	(11) EP3636368
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3610327	(11) EP3624326	(11) EP3637106
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3611643	(11) EP3625407	(11) EP3637208
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3613710	(11) EP3626172	(11) EP3637371
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3613714	(11) EP3626783	(11) EP3637942
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3614272	(11) EP3627170	(11) EP3639117
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3616276	(11) EP3627540	(11) EP3641391
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3641491	(11) EP3653959	(11) EP3664577
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3642773	(11) EP3655021	(11) EP3665050
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3643712	(11) EP3656121	(11) EP3665319
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3644644	(11) EP3657054	(11) EP3666510
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3644731	(11) EP3657912	(11) EP3666542
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3645447	(11) EP3658006	(11) EP3666847
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3646318	(11) EP3658054	(11) EP3667104
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3646637	(11) EP3658103	(11) EP3667285
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3646717	(11) EP3659280	(11) EP3667691
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3646806	(11) EP3659909	(11) EP3667745
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3646967	(11) EP3659951	(11) EP3668745
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3647115	(11) EP3660352	(11) EP3668765
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3647230	(11) EP3660471	(11) EP3669731
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3647846	(11) EP3660490	(11) EP3670937
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3648904	(11) EP3660907	(11) EP3671165
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3649343	(11) EP3662746	(11) EP3671223
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3649452	(11) EP3663156	(11) EP3671325
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3650141	(11) EP3663245	(11) EP3671979
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3650668	(11) EP3663463	(11) EP3672997
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3650880	(11) EP3663926	(11) EP3673535
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3651990	(11) EP3664426	(11) EP3674526
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3653186	(11) EP3664576	(11) EP3674527
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3674636	(11) EP3688367	(11) EP3702532
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3676493	(11) EP3689207	(11) EP3702778
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3677777	(11) EP3689292	(11) EP3704312
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3677819	(11) EP3689589	(11) EP3704440
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3679138	(11) EP3689615	(11) EP3707089
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3681134	(11) EP3690437	(11) EP3707573
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3682176	(11) EP3690574	(11) EP3708327
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3682239	(11) EP3690911	(11) EP3708369
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3682677	(11) EP3691850	(11) EP3709564
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3682713	(11) EP3691903	(11) EP3709891
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3683637	(11) EP3693153	(11) EP3710165
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3683766	(11) EP3693498	(11) EP3711618
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3684215	(11) EP3696120	(11) EP3711990
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3684267	(11) EP3696405	(11) EP3712075
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3684645	(11) EP3697250	(11) EP3712445
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3685006	(11) EP3698869	(11) EP3713327
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3685938	(11) EP3698972	(11) EP3713386
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3686559	(11) EP3699101	(11) EP3715116
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3686656	(11) EP3700320	(11) EP3715125
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3686706	(11) EP3701340	(11) EP3718517
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3686723	(11) EP3702121	(11) EP3718779
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3688218	(11) EP3702206	(11) EP3718780
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3719149	(11) EP3731910	(11) EP3740943
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3720622	(11) EP3733259	(11) EP3741067
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3721074	(11) EP3733347	(11) EP3742088
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3721075	(11) EP3733634	(11) EP3742177
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3722942	(11) EP3733672	(11) EP3744443
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3723124	(11) EP3734020	(11) EP3744487
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3723921	(11) EP3734021	(11) EP3744596
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3723967	(11) EP3734088	(11) EP3744639
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3723972	(11) EP3734090	(11) EP3745081
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3725926	(11) EP3734954	(11) EP3745902
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3726025	(11) EP3735606	(11) EP3745920
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3726276	(11) EP3735757	(11) EP3746287
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3727390	(11) EP3736165	(11) EP3747616
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3727476	(11) EP3736530	(11) EP3747780
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3727555	(11) EP3736940	(11) EP3748232
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3727599	(11) EP3736999	(11) EP3748355
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3727830	(11) EP3737106	(11) EP3749061
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3729702	(11) EP3737975	(11) EP3749502
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3730471	(11) EP3738497	(11) EP3750172
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3730813	(11) EP3739285	(11) EP3751165
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3730924	(11) EP3740344	(11) EP3751420
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3731356	(11) EP3740364	(11) EP3751813
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3751844	(11) EP3765554	(11) EP3773380
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3752090	(11) EP3765767	(11) EP3774112
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3753554	(11) EP3765934	(11) EP3774255
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3753745	(11) EP3766715	(11) EP3774261
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3754366	(11) EP3766813	(11) EP3774552
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3754508	(11) EP3767421	(11) EP3775567
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3754530	(11) EP3767486	(11) EP3775861
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3754679	(11) EP3767652	(11) EP3776737
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3754712	(11) EP3767881	(11) EP3777381
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3754736	(11) EP3770358	(11) EP3777569
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3754746	(11) EP3770499	(11) EP3778267
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3756716	(11) EP3770624	(11) EP3778395
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3758393	(11) EP3771013	(11) EP3778764
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3759983	(11) EP3771076	(11) EP3778956
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3760590	(11) EP3771182	(11) EP3778957
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3760617	(11) EP3771222	(11) EP3779056
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3761546	(11) EP3771542	(11) EP3779145
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3761942	(11) EP3772052	(11) EP3779203
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3762690	(11) EP3772181	(11) EP3780071
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3763495	(11) EP3772185	(11) EP3780179
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3763561	(11) EP3772193	(11) EP3780552
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3764147	(11) EP3773253	(11) EP3780553
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3780869	(11) EP3793797	(11) EP3806071
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3781021	(11) EP3793885	(11) EP3807053
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3781882	(11) EP3795827	(11) EP3808556
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3782581	(11) EP3796631	(11) EP3808577
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3782673	(11) EP3796733	(11) EP3808600
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3782825	(11) EP3798457	(11) EP3808949
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3784735	(11) EP3798458	(11) EP3808978
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3784932	(11) EP3798496	(11) EP3811044
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3785447	(11) EP3799800	(11) EP3811672
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3785504	(11) EP3800072	(11) EP3812274
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3785543	(11) EP3800479	(11) EP3812286
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3785934	(11) EP3800669	(11) EP3812713
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3785982	(11) EP3800961	(11) EP3812912
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3785986	(11) EP3800979	(11) EP3813831
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3788194	(11) EP3801357	(11) EP3814755
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3788535	(11) EP3801497	(11) EP3814968
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3788621	(11) EP3802250	(11) EP3815968
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3788901	(11) EP3803032	(11) EP3816586
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3789115	(11) EP3803961	(11) EP3818635
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3789152	(11) EP3804043	(11) EP3819040
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3789215	(11) EP3804838	(11) EP3819155
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3789726	(11) EP3804998	(11) EP3819220
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3820158	(11) EP3842198	(11) EP3855757
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3821201	(11) EP3842234	(11) EP3856302
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3822473	(11) EP3843153	(11) EP3857373
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3826301	(11) EP3844009	(11) EP3858663
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3827287	(11) EP3844529	(11) EP3858750
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3828413	(11) EP3845071	(11) EP3860524
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3832879	(11) EP3845253	(11) EP3862704
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3833215	(11) EP3845815	(11) EP3864248
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3833575	(11) EP3846570	(11) EP3864261
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3833857	(11) EP3847064	(11) EP3864987
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3835523	(11) EP3847127	(11) EP3865919
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3836077	(11) EP3847841	(11) EP3866230
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3836307	(11) EP3848182	(11) EP3866636
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3837074	(11) EP3848655	(11) EP3867773
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3837115	(11) EP3848834	(11) EP3867783
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3837116	(11) EP3849263	(11) EP3868445
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3837765	(11) EP3849782	(11) EP3868509
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3838606	(11) EP3850237	(11) EP3868601
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3840257	(11) EP3853467	(11) EP3868999
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3840979	(11) EP3854514	(11) EP3870868
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3841286	(11) EP3855072	(11) EP3872261
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3841571	(11) EP3855079	(11) EP3874526
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3875241	(11) EP3902042	(11) EP3912366
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3877828	(11) EP3902069	(11) EP3913426
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3878626	(11) EP3902942	(11) EP3913673
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3879840	(11) EP3903017	(11) EP3914187
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3881037	(11) EP3903980	(11) EP3914544
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3881578	(11) EP3904249	(11) EP3915869
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3883830	(11) EP3904843	(11) EP3916702
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3884613	(11) EP3904894	(11) EP3918901
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3884727	(11) EP3907631	(11) EP3919138
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3885448	(11) EP3907962	(11) EP3920053
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3887168	(11) EP3907975	(11) EP3920616
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3888430	(11) EP3908212	(11) EP3921008
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3888576	(11) EP3908744	(11) EP3921558
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3889627	(11) EP3909461	(11) EP3922495
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3890069	(11) EP3909482	(11) EP3923886
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3890995	(11) EP3909632	(11) EP3924339
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3896546	(11) EP3909775	(11) EP3924392
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3897913	(11) EP3909827	(11) EP3924757
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3899404	(11) EP3910516	(11) EP3925507
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3899667	(11) EP3910576	(11) EP3925832
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3900665	(11) EP3911481	(11) EP3926023
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3902041	(11) EP3911821	(11) EP3926281
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3926532	(11) EP3935766	(11) EP3948603
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3927135	(11) EP3938611	(11) EP3948604
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3927264	(11) EP3938751	(11) EP3948941
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3927691	(11) EP3939151	(11) EP3949083
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3928100	(11) EP3939231	(11) EP3949579
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3928583	(11) EP3939389	(11) EP3951126
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3928955	(11) EP3939455	(11) EP3951808
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3929431	(11) EP3939733	(11) EP3953415
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3929468	(11) EP3940561	(11) EP3954007
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3929634	(11) EP3940988	(11) EP3954046
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3929770	(11) EP3941163	(11) EP3954077
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3929778	(11) EP3942452	(11) EP3954529
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3930070	(11) EP3943574	(11) EP3956126
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3930074	(11) EP3945144	(11) EP3956572
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3930943	(11) EP3946772	(11) EP3956646
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3931047	(11) EP3946978	(11) EP3959479
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3931463	(11) EP3947016	(11) EP3959514
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3933145	(11) EP3947099	(11) EP3959648
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3934144	(11) EP3947310	(11) EP3960722
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3934820	(11) EP3947500	(11) EP3961140
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3935010	(11) EP3947831	(11) EP3962489
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3935754	(11) EP3948191	(11) EP3962647
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3962849	(11) EP3984932	(11) EP4031010
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3963318	(11) EP3985499	(11) EP4033516
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3965404	(11) EP3986957	(11) EP4036130
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3965615	(11) EP3987992	(11) EP4039405
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3966495	(11) EP3988064	(11) EP4039568
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3967870	(11) EP3988242	(11) EP4040425
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3967898	(11) EP3990745	(11) EP4044640
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3968818	(11) EP3991939	(11) EP4055403
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3968880	(11) EP3995765	(11) EP4067548
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3969493	(11) EP3997348	(11) EP4068402
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3970220	(11) EP3999270	(11) EP4069965
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3971115	(11) EP4006495	(11) EP4071504
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3971133	(11) EP4006968	(11) EP4077949
(00) 22.03.2023	(00) 22.03.2023	(00) 22.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3973149	(11) EP4009525	
(00) 22.03.2023	(00) 22.03.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3973155	(11) EP4009572	
(00) 22.03.2023	(00) 22.03.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3976288	(11) EP4010758	
(00) 22.03.2023	(00) 22.03.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3978880	(11) EP4014236	
(00) 22.03.2023	(00) 22.03.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3981663	(11) EP4014425	
(00) 22.03.2023	(00) 22.03.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3982054	(11) EP4018121	
(00) 22.03.2023	(00) 22.03.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3982389	(11) EP4021564	
(00) 22.03.2023	(00) 22.03.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3983259	(11) EP4026304	
(00) 22.03.2023	(00) 22.03.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3983652	(11) EP4026365	
(00) 22.03.2023	(00) 22.03.2023	

VRB

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

(11) EP3209309
(00) 17.03.2023
(00) Proceedings Interruption: Legal
prevention (Rule 142(1)(b))
(51) A61P 29/00
A61P 35/00
A61K 35/74

(11) EP3240554
(00) 17.03.2023
(00) Proceedings Interruption: Legal
prevention (Rule 142(1)(b))
(51) A61P 1/00
A61P 11/06
A61P 19/02
A61P 25/28
A61P 29/00
C12N 1/20
A61K 35/74
A61K 35/745

CO

Ingeschreven overdrachten.

Contains data concerning registered assignments or change of owners.

(71) Wyeth Holdings LLC	(11) EP2400963	C07D 231/14
(73) Wyeth Holdings LLC	(00) 18.07.2023	(00) Assignment
(11) EP1468697	(51) A61K 31/24	(71) Bristol-Myers Squibb Company
(00) 18.07.2023	A61K 31/7076	(73) Bristol-Myers Squibb Company
(51) A61K 31/43	A61K 33/06	(11) EP2953974
A61K 47/18	A61K 45/06	(00) 14.07.2023
(00) Change of Legal Entity	A61P 41/00	(51) A61P 31/00
(71) Resonac Graphite Germany GmbH	(00) Change of owner(s) name	C07K 16/28
(73) Resonac Graphite Germany GmbH	(71) EngMab Beta Holdings LLC	(00) Assignment
(11) EP1735475	(73) Bristol-Myers Squibb Company	(71) AvenCell Europe GmbH
(00) 28.06.2023	(11) EP2982694	(73) AvenCell Europe GmbH
(51) C22B 7/02	(00) 14.07.2023	(11) EP3029137
F23D 1/00	(51) A61K 39/395	(00) 13.07.2023
F23D 17/00	A61P 35/00	(51) C12N 5/0735
F27D 3/18	C07K 16/28	C12N 5/074
(00) Change of owner(s) name	C07K 16/46	C12N 5/077
(71) Guangdong Zhongyitang Technology Co., Ltd.	(00) Assignment	C12N 5/0775
(73) Guangdong Zhongyitang Technology Co., Ltd.	(71) Geuder AG	(00) Change of owner(s) name
(11) EP2172207	VRmagic Holding AG	(71) GEMoaB GmbH
(00) 12.07.2023	(73) Haag-Streit GmbH	(73) AvenCell Europe GmbH
(51) A61K 36/233	Geuder AG	(11) EP3029137
A61K 36/428	(11) EP2391963	(00) 13.07.2023
A61K 36/539	(00) 17.07.2023	(51) C12N 5/0735
A61K 36/708	(51) G06F 19/00	C12N 5/074
A61K 36/71	G09B 23/28	C12N 5/077
A61K 36/718	(00) Merge	C12N 5/0775
A61K 36/736	(71) Geuder AG	(00) Change of owner(s) name
A61K 36/75	Haag-Streit GmbH	(71) University of Northumbria at Newcastle
A61K 36/8888	(73) Haag-Streit GmbH	(73) University of Northumbria at Newcastle
A61P 3/10	Geuder AG	(11) EP3209932
(00) Assignment	(11) EP2391963	(00) 12.07.2023
(71) ImagineOptix Corporation	(00) 17.07.2023	(51) A61B 18/00
(73) ImagineOptix Corporation	(51) G06F 19/00	A61N 5/06
(11) EP2350736	G09B 23/28	F21V 8/00
(00) 18.07.2023	(00) Change of Legal Entity	(00) Assignment
(51) G02F 1/1335	(71) Bristol-Myers Squibb Company	(71) BioPhenoMA Inc.
G02F 1/139	(73) Bristol-Myers Squibb Company	(73) BioPhenoMA Inc.
(00) Assignment	(11) EP2982694	(11) EP2987866
(71) ATNX SPV, LLC	(00) 14.07.2023	(00) 14.07.2023
(73) ATNX SPV, LLC	(51) A61K 39/395	(51) C12Q 1/00
(11) EP2114934	A61P 35/00	C12Q 1/28
(00) 17.07.2023	C07K 16/28	C12Q 1/34
(51) A61K 31/5377	C07K 16/46	C12Q 1/42
A61P 35/00	(00) Assignment	C12Q 1/68
C07D 413/12	(71) BioPhenoMA Inc.	G01N 21/25
(00) Assignment	(73) BioPhenoMA Inc.	G01N 21/78
(71) Inventive Medical Solutions Limited	(11) EP2695948	G01N 33/53
(73) Inventive Medical Solutions Limited	(00) 14.07.2023	G01N 33/536
(11) EP2400963	(51) C12Q 1/00	(00) Assignment
(00) 18.07.2023	C12Q 1/42	(71) EngMab Beta Holdings LLC
(51) A61K 31/24	C12Q 1/68	(73) Bristol-Myers Squibb Company
A61K 31/7076	G01N 21/25	(11) EP2984107
A61K 33/06	G01N 21/78	(00) 14.07.2023
A61K 45/06	(00) Assignment	(51) A61K 39/00
A61P 41/00	(71) FMC AGRICULTURAL PRODUCTS INTERNATIONAL AG	C07K 16/28
(00) Assignment	(73) FMC AGRICULTURAL PRODUCTS INTERNATIONAL AG	C07K 16/30
(71) AOP Orphan IP AG	(11) EP3087058	C07K 16/40
(73) Inventive Medical Solutions Limited	(00) 14.07.2023	(00) Assignment
	(51) C07C 243/28	(71) EngMab Beta Holdings LLC
		(73) Bristol-Myers Squibb Company
		(11) EP2953974

(00) 14.07.2023	(71) Cytodigm, Inc.	(71) Adaptive Biotechnologies Corporation
(51) A61P 31/00	(73) Cytodigm, Inc.	Fred Hutchinson Cancer Center
C07K 16/28	(11) EP2928500	(73) Adaptive Biotechnologies Corporation
(00) Assignment	(00) 18.07.2023	Fred Hutchinson Cancer Center
(71) Suez International	(51) A61K 9/51	(11) EP3388535
(73) Suez International	(00) Assignment	(00) 14.07.2023
(11) EP3105186	(71) Bristol-Myers Squibb Company	(51) C12Q 1/68
(00) 18.07.2023	(73) Bristol-Myers Squibb Company	C12Q 1/6886
(51) A61L 9/00	(11) EP2984107	(00) Change of owner(s) name
B05B 15/04	(00) 14.07.2023	(71) Adaptive Biotechnologies Corporation
F23L 17/16	(51) A61K 39/00	Seattle Cancer Care Alliance
(00) Assignment	C07K 16/28	(73) Adaptive Biotechnologies Corporation
(71) Haag-Streit GmbH	C07K 16/30	Fred Hutchinson Cancer Center
(73) Haag-Streit GmbH	C07K 16/40	(11) EP3388535
(11) EP2289061	(00) Assignment	(00) 14.07.2023
(00) 17.07.2023	(71) BioPhenoMA Inc.	(51) C12Q 1/68
(51) A61B 19/00	(73) BioPhenoMA Inc.	C12Q 1/6886
G09B 23/28	(11) EP3296405	(00) Merge
(00) Change of Legal Entity	(00) 14.07.2023	(71) Taiwan Semiconductor Manufacturing
(71) VRmagic Holding AG	(51) C12Q 1/00	Company, Ltd.
(73) Haag-Streit GmbH	C12Q 1/28	(73) Taiwan Semiconductor Manufacturing
(11) EP2289061	G01N 21/25	Company, Ltd.
(00) 17.07.2023	G01N 21/78	(11) EP3167676
(51) A61B 19/00	(00) Assignment	(00) 14.07.2023
G09B 23/28	(71) Adaptive Biotechnologies Corp.	(51) H04W 72/02
(00) Merge	Seattle Cancer Care Alliance	(00) Assignment
(71) AvenCell Europe GmbH	(73) Adaptive Biotechnologies Corp.	(71) EngMab Beta Holdings LLC
(73) AvenCell Europe GmbH	Fred Hutchinson Cancer Center	(73) Bristol-Myers Squibb Company
(11) EP2726507	(11) EP3262196	(11) EP3331910
(00) 13.07.2023	(00) 14.07.2023	(00) 14.07.2023
(51) C07K 16/28	(51) C12P 19/34	(51) A61P 35/00
C07K 16/30	C12Q 1/70	C07K 16/28
(00) Change of owner(s) name	G01N 33/50	C07K 16/30
(71) GEMoAB GmbH	C12Q 1/68	C07K 16/46
(73) AvenCell Europe GmbH	C12Q 1/6869	(00) Assignment
(11) EP2726507	C12Q 1/6881	(71) TAUNS Holdings Co., Ltd.
(00) 13.07.2023	C12Q 1/6883	(73) TAUNS Holdings Co., Ltd.
(51) C07K 16/28	(00) Merge	(11) EP3499237
C07K 16/30	(71) JSG Verwaltungs GmbH	(00) 11.07.2023
(00) Change of owner(s) name	(73) Jürgen Perick	(51) G01N 33/543
(71) Mohawk Flooring Investments, LLC	(11) EP3634323	G01N 33/569
(73) Flooring Industries Limited S.à.r.l.	(00) 12.07.2023	(00) Merge
(11) EP3473783	(51) A61F 5/02	(71) Bristol-Myers Squibb Company
(00) 14.07.2023	(00) Change of owner(s) name	(73) Bristol-Myers Squibb Company
(51) C09D 5/00	(71) Jürgen Perick	(11) EP3331910
C09D 129/00	(73) Jürgen Perick	(00) 14.07.2023
E04F 15/02	(11) EP3634323	(51) A61P 35/00
E04F 15/10	(00) 12.07.2023	C07K 16/28
(00) Assignment	(51) A61F 5/02	C07K 16/30
(71) Mohawk International Holdings S.à.r.l.	(00) Assignment	C07K 16/46
(73) Flooring Industries Limited S.à.r.l.	(71) Bristol-Myers Squibb Company	(00) Assignment
(11) EP3473783	(73) Bristol-Myers Squibb Company	(71) Adaptive Biotechnologies Corp.
(00) 14.07.2023	(11) EP3193611	Seattle Cancer Care Alliance
(51) C09D 5/00	(00) 14.07.2023	(73) Fred Hutchinson Cancer Center
C09D 129/00	(51) A61K 31/551	Adaptive Biotechnologies Corporation
E04F 15/02	A61P 35/00	(11) EP3132059
E04F 15/10	A61P 37/00	(00) 14.07.2023
(00) Assignment	C07D 495/14	(51) C12Q 1/6881
(71) Mohawk Global Investments S.à.r.l.	(00) Assignment	(00) Merge
(73) Flooring Industries Limited S.à.r.l.	(71) Suez International	(71) Adaptive Biotechnologies Corporation
(11) EP3473783	(73) Suez International	Fred Hutchinson Cancer Center
(00) 14.07.2023	(11) EP3362507	(73) Fred Hutchinson Cancer Center
(51) C09D 5/00	(00) 18.07.2023	Adaptive Biotechnologies Corporation
C09D 129/00	(51) B29B 17/02	(11) EP3132059
E04F 15/02	C08J 11/04	(00) 14.07.2023
E04F 15/10	C08J 11/08	(51) C12Q 1/6881
(00) Assignment	(00) Assignment	(00) Change of owner(s) name

(71) Beijing Xiaomi Mobile Software Co., Ltd.	E04F 15/10
(73) Beijing Xiaomi Mobile Software Co., Ltd.	(00) Assignment
(11) EP3871359	(71) Flooring Industries Limited S.à.r.l.
(00) 14.07.2023	(73) Flooring Industries Limited S.à.r.l.
(51) H04L 5/00	(11) EP3473783
(00) Assignment	(00) 14.07.2023
(71) Beijing Xiaomi Mobile Software Co., Ltd.	(51) C09D 5/00
(73) Beijing Xiaomi Mobile Software Co., Ltd.	C09D 129/00
(11) EP3788826	E04F 15/02
(00) 14.07.2023	E04F 15/10
(51) H04W 68/00	(00) Assignment
H04W 84/04	(71) Adaptive Biotechnologies Corp.
H04W 8/18	Fred Hutchinson Cancer Center
(00) Assignment	(73) Adaptive Biotechnologies Corp.
(71) Adaptive Biotechnologies Corp.	Fred Hutchinson Cancer Center
Seattle Cancer Care Alliance	(11) EP3262196
(73) Fred Hutchinson Cancer Center	(00) 14.07.2023
Adaptive Biotechnologies Corporation	(51) C12P 19/34
(11) EP3212790	C12Q 1/70
(00) 14.07.2023	G01N 33/50
(51) C12N 15/10	C12Q 1/68
C12Q 1/68	C12Q 1/6869
C12Q 1/6809	C12Q 1/6881
C12Q 1/6881	C12Q 1/6883
(00) Merge	(00) Change of owner(s) name
(71) Adaptive Biotechnologies Corporation	(71) EDIGNA B.V.
Fred Hutchinson Cancer Center	(73) EDIGNA B.V.
(73) Fred Hutchinson Cancer Center	(11) 2027633
Adaptive Biotechnologies Corporation	(00) 18.07.2023
(11) EP3212790	(51) A01G 25/16
(00) 14.07.2023	(00) Assignment
(51) C12N 15/10	(71) Beijing Xiaomi Mobile Software Co., Ltd.
C12Q 1/68	(73) Beijing Xiaomi Mobile Software Co., Ltd.
C12Q 1/6809	(11) EP3529934
C12Q 1/6881	(00) 14.07.2023
(00) Change of owner(s) name	(51) H04L 1/18
(71) Fehrmann Materials GmbH & Co. KG	(00) Assignment
(73) Fehrmann Materials GmbH & Co. KG	(71) Lehner GmbH
(11) EP3732310	(73) Lehner GmbH
(00) 18.07.2023	(11) EP3932673
(51) B22F 10/20	(00) 24.07.2023
B22F 10/30	(51) B41F 27/00
C22F 1/047	(00) Assignment
C22C 21/06	
C22C 21/08	
(00) Change of owner(s) name	
(71) EngMab Beta Holdings LLC	
(73) Bristol-Myers Squibb Company	
(11) EP2953972	
(00) 14.07.2023	
(51) A61P 31/00	
C07K 16/28	
(00) Assignment	
(71) Bristol-Myers Squibb Company	
(73) Bristol-Myers Squibb Company	
(11) EP2953972	
(00) 14.07.2023	
(51) A61P 31/00	
C07K 16/28	
(00) Assignment	
(71) Mohawk International Holdings (DE), LLC	
(73) Flooring Industries Limited S.à.r.l.	
(11) EP3473783	
(00) 14.07.2023	
(51) C09D 5/00	
C09D 129/00	
E04F 15/02	

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) EP3833394	(11) EP3526415	(11) EP3777675
(11) EP2411973	(11) EP3532763	(11) EP3680532
(11) EP2480820	(11) EP3541759	(11) EP3749558
(11) EP2539584	(11) EP3645497	(11) EP3701996
(11) EP2481233	(11) EP3559441	(11) EP3743938
(11) EP2763541	(11) EP3722220	(11) EP3863886
(11) EP2956051	(11) EP3399340	(11) EP3774304
(11) EP2873112	(11) EP3577048	(11) EP3511041
(11) EP2815344	(11) EP3545917	(11) EP3718769
(11) EP2867265	(11) EP3514679	(11) EP3756509
(11) EP2875808	(11) EP3352120	(11) EP3788269
(11) EP3014250	(11) EP3511353	(11) EP3765398
(11) EP2964790	(11) EP3546608	(11) EP3790421
(11) EP3182646	(11) EP3597312	(11) EP3763265
(11) EP3060191	(11) EP3581517	(11) EP3778048
(11) EP3029903	(11) EP3613943	(11) EP3636559
(11) EP3095226	(11) EP3530878	(11) EP3838355
(11) EP3120642	(11) EP3441699	(11) EP3636601
(11) EP3107834	(11) EP3656926	(11) EP3795508
(11) EP3198738	(11) EP3573911	(11) EP3820742
(11) EP3230710	(11) EP3597580	(11) EP3798276
(11) EP3238498	(11) EP3635947	(11) EP3720147
(11) EP3359815	(11) EP3698512	(11) EP3696408
(11) EP3167120	(11) EP3655628	(11) EP3816204
(11) EP3526562	(11) EP3638606	(11) EP3731081
(11) EP3310956	(11) EP3586660	(11) EP3638443
(11) EP3394362	(11) EP3461592	(11) EP3987347
(11) EP3397795	(11) EP3474513	(11) EP3785524
(11) EP3280775	(11) EP3571376	(11) EP3911141
(11) EP3291691	(11) EP3592332	(11) EP3735713
(11) EP3260805	(11) EP3621426	(11) EP3824032
(11) EP3375570	(11) EP3482006	(11) EP3870195
(11) EP3307896	(11) EP3600170	(11) EP3823717
(11) EP3352622	(11) EP3607023	(11) EP2676117
(11) EP3359310	(11) EP3692228	(11) EP2828775
(11) EP3379228	(11) EP3728015	(11) EP3873787
(11) EP3374332	(11) EP3704432	(11) EP2864968
(11) EP3372196	(11) EP3635983	(11) EP3750824
(11) EP3378293	(11) EP3655449	(11) EP3883515
(11) EP3462635	(11) EP3582720	(11) EP3870213
(11) EP3417428	(11) EP3650412	(11) EP3018488
(11) EP3273174	(11) EP3717160	(11) EP3851357
(11) EP3416867	(11) EP3716008	(11) EP3784704
(11) EP3405892	(11) EP3658224	(11) EP3053148
(11) EP3408466	(11) EP3458174	(11) EP3880954
(11) EP3408452	(11) EP3661530	(11) EP3899259
(11) EP3600866	(11) EP3678866	(11) EP2981800
(11) EP3479538	(11) EP3705790	(11) EP3041886
(11) EP3532417	(11) EP3578325	(11) EP2994496
(11) EP3506783	(11) EP3594196	(11) EP3063583
(11) EP3445532	(11) EP3678767	(11) EP3715882
(11) EP3652507	(11) EP3695462	(11) EP3924631
(11) EP3512433	(11) EP3607530	(11) EP3158505
(11) EP3515428	(11) EP3727687	(11) EP3708482
(11) EP3544816	(11) EP3604951	(11) EP3715227
	(11) EP3614374	(11) EP3250960

(11) EP3878323	(11) EP3839235	(11) EP3722237
(11) EP3179011	(11) EP3956619	(11) EP3749874
(11) EP3902590	(11) EP3800413	(11) EP3848885
(11) EP3885740	(11) EP3645299	(11) EP3749888
(11) EP3785545	(11) EP3831173	(11) EP3740827
(11) EP3073356	(11) EP3778319	(11) EP4053662
(11) EP3757943	(11) EP3953652	(11) EP4063706
(11) EP3785923	(11) EP3648768	(11) EP3763177
(11) EP3749516	(11) EP3649316	(11) EP3759451
(11) EP3265710	(11) EP3958726	(11) EP3919404
(11) EP3807678	(11) EP3580171	(11) EP3901046
(11) EP3761709	(11) EP3958715	(11) EP4085814
(11) EP3789166	(11) EP3651730	(11) EP3762743
(11) EP3334318	(11) EP3673151	(11) EP3774373
(11) EP3341495	(11) EP3984646	(11) EP3774374
(11) EP3964553	(11) EP3691856	(11) EP3790758
(11) EP3363002	(11) EP3688051	(11) EP3791461
(11) EP3337859	(11) EP3710534	(11) EP3952148
(11) EP3699369	(11) EP3681981	(11) EP3933295
(11) EP3355909	(11) EP3790264	(11) EP3784865
(11) EP3383774	(11) EP3825565	(11) EP3781813
(11) EP3800855	(11) EP3938592	(11) EP3967612
(11) EP3357130	(11) EP3728843	(11) EP3814031
(11) EP3871584	(11) EP3894644	(11) EP3930123
(11) EP3378328	(11) EP3717798	(11) EP3820312
(11) EP3323442	(11) EP3717433	(11) EP3971421
(11) EP3503119	(11) EP3945864	(11) EP3936750
(11) EP3420745	(11) EP3635984	(11) EP3829810
(11) EP3593336	(11) EP3657517	(11) EP3833868
(11) EP3497152	(11) EP3987124	(11) EP4014742
(11) EP3431079	(11) EP3659936	(11) EP4107768
(11) EP3397474	(11) EP4041016	(11) EP4025502
(11) EP3525989	(11) EP3677617	(11) EP3978387
(11) EP3548267	(11) EP3966352	(11) EP3821513
(11) EP3559445	(11) EP3762599	(11) EP3810910
(11) EP3716907	(11) EP3498275	(11) EP3972298
(11) EP3529058	(11) EP3955777	(11) EP3957809
(11) EP3559550	(11) EP4007853	(11) EP3849894
(11) EP3673199	(11) EP3492637	(11) EP3985608
(11) EP3706647	(11) EP3933148	(11) EP4059777
(11) EP3547122	(11) EP3980613	(11) EP3947160
(11) EP3412263	(11) EP3734118	(11) EP3850674
(11) EP3406242	(11) EP3564282	(11) EP3841037
(11) EP3488857	(11) EP3744164	(11) EP3769610
(11) EP3882048	(11) EP3997759	(11) EP3775671
(11) EP3896217	(11) EP3984841	(11) EP4060295
(11) EP3628507	(11) EP3909539	(11) EP4045776
(11) EP3474131	(11) EP3581982	(11) EP3864362
(11) EP3495294	(11) EP4069625	(11) EP3873680
(11) EP3995538	(11) EP3760403	(11) EP2904357
(11) EP3821696	(11) EP4062444	(11) EP3466247
(11) EP3670921	(11) EP3763264	(11) EP4080177
(11) EP3537855	(11) EP3852130	(11) EP3465114
(11) EP3752757	(11) EP3591057	(11) EP3463315
(11) EP3730736	(11) EP3604728	(11) EP3881342
(11) EP3596028	(11) EP3869284	(11) EP3880953
(11) EP3757508	(11) EP3632749	(11) EP3579253
(11) EP3613212	(11) EP4050325	(11) EP3633045
(11) EP3927658	(11) EP3832467	(11) EP3883425
(11) EP3624978	(11) EP3825605	(11) EP3877126
(11) EP3924580	(11) EP3819530	(11) EP3603410
(11) EP3960479	(11) EP3626551	(11) EP3734283

(11) EP3530949	(11) EP3941958
(11) EP3899263	(11) EP3941293
(11) EP3617447	(11) EP3939037
(11) EP3829124	(11) EP3955893
(11) EP3846642	(11) EP3966924
(11) EP3884354	(11) EP3949168
(11) EP3949813	(11) EP3948337
(11) EP3856814	(11) EP3954632
(11) EP3877559	(11) EP4062055
(11) EP3809179	(11) EP4005835
(11) EP3791759	(11) EP4023880
(11) EP3912093	(11) EP4029989
(11) EP3918250	(11) EP3862245
(11) EP3959146	(11) EP3875705
(11) EP3715168	(11) EP3861916
(11) EP3689566	(11) EP3875703
(11) EP3116761	(11) EP3875545
(11) EP3318393	(11) EP4080195
(11) EP3722933	(11) EP3885075
(11) EP3478422	(11) EP4080196
(11) EP3927129	(11) EP3875038
(11) EP3491311	(11) EP3922551
(11) EP3599288	(11) EP3904007
(11) EP3653179	(11) EP3978388
(11) EP3062711	(11) EP4115994
(11) EP3767152	(11) EP3944457
(11) EP3501451	(11) EP4079183
(11) EP3784053	(11) EP3961673
(11) EP3770542	(11) EP4001164
(11) EP3266489	(11) EP3955641
(11) EP3475746	(11) EP4015718
(11) EP3743353	(11) EP3972795
(11) EP3528518	(11) EP3986633
(11) EP3798760	(11) EP4039917
(11) EP3750564	(11) EP3362239
(11) EP3552492	(11) EP3535612
(11) EP3723384	(11) EP3606127
(11) EP3784443	(11) EP3667246
(11) EP3777939	(11) EP3801855
(11) EP4015692	(11) EP3824660
(11) EP3952697	(11) EP3733235
(11) EP3792603	(11) EP3792938
(11) EP3677834	(11) EP3969189
(11) EP3747596	(11) EP3967509
(11) EP3984606	(11) EP3114490
(11) EP4059675	(11) EP3306328
(11) EP3800433	(11) EP3334471
(11) EP3991809	(11) EP3243988
(11) EP4001611	(11) EP3515253
(11) EP3964063	(11) EP3476766
(11) EP3831186	(11) EP3366668
(11) EP3848025	(11) EP3703904
(11) EP3961477	(11) EP3735919
(11) EP3937005	(11) EP3784345
(11) EP4019849	(11) EP3881069
(11) EP3930453	(11) EP3916621
(11) EP3973363	(11) EP3872418
(11) EP4109072	(11) EP3966026
(11) EP3932149	(11) EP4055323
(11) EP3992779	(11) EP3983208
(11) EP3995220	(11) EP3862119
(11) EP3935655	

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).