



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.

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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**

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Iban: NL41INGB070500129

BIC: INGBNL2A

Inhoudsopgave	Blz. Content	Page
Rubriek NP1 Bevat gegevens betreffende octrooiaanvragen die zijn ingeschreven op grond van de Octrooiwet 1995.	8 Heading NP1 Contains data concerning Netherlands patent applications which have been entered in the patent register under the Patents Act 1995.	8
Rubriek NP2 Bevat gegevens betreffende ingeschreven en verleende octrooien op grond van de Octrooiwet 1995.	10 Heading NP2 Contains data concerning Netherlands patents which have been entered in the patent register under the Patents Act 1995.	10
Rubriek NP3 Bevat gegevens betreffende Nederlandse octrooien na gedeeltelijke afstand conform artikel 63 van de Octrooiwet 1995.	12 Heading NP3 Contains data concerning Netherlands patents after partial renunciation confirm Article 63 of the Patents Act 1995.	12
Rubriek EP1 Bevat gegevens betreffende vertaalde conclusies van Europese octrooiaanvragen.	13 Heading EP1 Contains data concerning translations of the conclusions of European patent applications.	13
Rubriek EP2 Bevat gegevens betreffende voor Nederland verleende Europese octrooien.	14 Heading EP2 Contains data concerning European patents granted for The Netherlands.	14
Rubriek EP3 Bevat gegevens betreffende voor Nederland verleende Europese octrooien waarvoor een vertaling is ingediend conform artikel 52 lid 1 of 6 van de Octrooiwet 1995.	218 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.	218
Rubriek EP4 Bevat gegevens betreffende voor Nederland verleende gewijzigde Europese octrooien.	253 Heading EP4 Contains data concerning European patents granted in amended form for the Netherlands.	253
Rubriek EP5 Bevat gegevens betreffende voor Nederland verleende gewijzigde	254 Heading EP5 Contains data concerning European patents granted in amended form for	254

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	255Heading SPC Contains data concerning applications for- or granted Supplementary Protection Certificates.	255
Rubriek VB1 Bevat gegevens betreffende rechten waarvoor een verzoek of bezwaarschrift is ingediend conform de Octrooiwet 1995.	256Heading VB1 Contains data concerning requests and notices of opposition under the General administrative law.	256
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.	257Heading 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.	257
Rubriek MED Bevat gegevens betreffende overige mededelingen.	258Heading MED Contains data concerning other communications.	258
Rubriek VRV Bevat gegevens betreffende verval of nietigverklaring.	259Heading VRV Contains data concerning lapse or annulment.	259
Rubriek VRB Bevat gegevens betreffende verbeteringen op eerdere publicaties.	309Heading VRB Contains data concerning corrections on earlier publications.	309
Rubriek CO Bevat gegevens betreffende wijzigingen in het octrooiregister.	310Heading CO Contains data concerning changes in the Netherland patent register.	310
Rubriek TVH Bevat gegevens betreffende topografieën van halfgeleiderproducten.	312Heading TVH Contains data concerning depots of original topographies of semi-conductor products.	312

Rubriek UP1 Bevat gegevens over Europese octrooien met geregistreerde eenheidswerking.	313Heading UP1 Contains data concerning European patents with registered Unitary Effect.	313
Rubriek UP2 Bevat gegevens over Europese octrooien met geregistreerd verzoek ex. artikel 52a (herstel recht op validatie).	316Heading UP2 Contains data concerning European patents with registered request ex article 52a (restoration of validation right).	316
Rubriek UP3 Bevat gegevens over Europese octrooien met geaccepteerd verzoek ex. artikel 52a (herstel recht op validatie) en complete validatie.	317Heading UP3 Contains data concerning European patents with accepted ex article 52a (restoration of validation right) and validation completed.	317
Rubriek UP4 Bevat gegevens over Europese octrooien met geaccepteerd verzoek ex. artikel 52a (herstel recht op validatie) en geen complete validatie.	318Heading UP4 Contains data concerning European patents with accepted request ex article 52a (restoration of validation right) and incomplete validation.	318
Rubriek UP5 Bevat gegevens over Europese octrooien met afgewezen verzoek ex. artikel 52a (herstel recht op validatie).	319Heading UP5 Contains data concerning European patents with rejected request ex article 52a (restoration of validation right).	319
Rubriek UP6 Bevat gegevens over Europese octrooien met ingetrokken verzoek ex. artikel 52a (herstel recht op validatie).	320Heading UP6 Contains data concerning European patents with withdrawn request ex article 52a (restoration of validation right).	320

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) A01B 79/00 A01B 79/02 A01G 22/00	APPLICATION IN DETECTION OF ALDEHYDES AND KETONES	(32) 21.12.2022 (33) China
(21) 2036235 (22) 10.11.2023	(71) CHINESE RESEARCH ACADEMY OF ENVIRONMENTAL SCIENCES	(51) E02D 31/00 (21) 2035951 (22) 03.10.2023
(54) A RESTORATION METHOD FOR WETLANDS BY NATURAL GERMINATION OF SUAEDA SALSA	(74) dr. J. van Straaten	(54) ANTI-SCOURING DEVICE FOR MONOPILE OFFSHORE WIND TURBINE
(71) Beijing Normal University (74) dr. R.C. van Duijvenbode c.s.	(72) Sufang Wang Huajin Dong Ying Cao Mingxiao Li Tian Meng Xueliang Feng	(71) Beibu Gulf University (74) ir. M.B. Plaggenborg (72) Zhanbin Meng Dongzhen Wang Yan Wang Xiangxi Han Yijiang Xia Jiangmao Zhu Liang Sun Zhiqiang Feng Han Liu Dongsheng Du Dongbin Yang Zhenguo Tang Fei Fu Kai Liu
(72) Zhengze Liu Baoshan Cui Xu Ma Qing Wang Haochen Sui Dongdong Qiu	(31) 202210584793.0 (32) 27.05.2022 (33) China	
(51) A61P 35/00 A61K 31/352 A61K 36/539	(51) C07K 14/47 A61P 35/00 C12N 15/113 A61K 38/16	
(21) 2034947 (22) 30.05.2023	(21) 2036115 (22) 25.10.2023	
(54) APPLICATION OF SCUTELLAREIN IN THE PREPARATION OF DRUGS FOR TREATING PANCREATIC CANCER	(54) USE OF CORO1A PROTEIN FOR PREPARING A REAGENT TO REGULATE THE PRODUCTION OF EXTRACELLULAR VESICLES	
(71) YUNNAN UNIVERSITY OF CHINESE MEDICINE Kunming Institute of Botany, Chinese Academy of Sciences	(71) The Second Affiliated Hospital and Yuying Children's Hospital of Wenzhou Medical University (WMU)	(51) H01L 31/0352 (21) 2033695 (22) 08.12.2022
(74) ir. W.J.J.M. Kempes	(74) drs. C.M.A. Quintelier	(54) SOLAR CELL AND PRODUCTION METHOD THEREOF, PHOTOVOLTAIC MODULE
(72) Zejun Dong Xue Bai Yan Li Jia Su Lingmei Kong	(72) Hao Wu	(71) ZHEJIANG JINKO SOLAR CO., LTD. JINKO SOLAR CO., LTD.
(31) 202210583952.5 (32) 27.05.2022 (33) China	(51) E02B 5/02 E02D 17/20 A01G 20/00 A01G 22/20 A01G 22/40 E02B 11/00 E02D 17/00 E02B 3/12	(74) ir. J.D. de Zeeuw (72) Lipeng Wang Zhongxiang Yang Zhao Wang Mengchao Shen Xinyu Zhang Jie Yang
(51) B60P 1/44 (21) 2034915 (22) 25.05.2023	(21) 2035875 (22) 26.09.2023	(31) 202210590274.5 (32) 26.05.2022 (33) China
(54) Hefdrager voor motorvoertuigen, in het bijzonder voor expeditievoertuigen	(54) METHOD OF RAPID SLOPE PROTECTION AND GRASS PLANTING FOR FARMLAND DRAINAGE CHANNELS IN BLACK SOIL REGIONS	(51) H02S 10/12 H02S 20/32 (21) 2036010 (22) 12.10.2023
(71) 4wheel24 GmbH (74) ir. J.C. Volmer c.s.	(71) Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences	(54) ELECTRIC QUANTITY INCREASING DEVICE FOR HYBRID POWER GENERATION OF PHOTOVOLTAIC POWER STATION
(72) Tristan Hopf Tobias Teichmann	(74) ir. M.B. Plaggenborg	(71) HUANENG RENEWABLES CORPORATION LIMITED HEBEI BRANCH
(31) 202022102905.9 (32) 25.05.2022 (33) Germany	(72) Daqing Peng Xueshan Wang Jielin Liu Mingming Guo Xiaolei Kong Qiang Zhang	(74) dr. R.C. van Duijvenbode c.s. (72) Teng Li Haiyu Zhao Qiang Qiao
(51) C07D 209/42 G01N 33/18 G01N 30/72	(31) 202211648422.0	
(21) 2034563 (22) 13.04.2023		
(54) INDOLE COMPOUND, ITS PREPARATION METHOD AND		

Xiangwei Wang
Sen Wang
Conggui Duan

(31) 2023106758638

(32) 08.06.2023

(33) China

(51) H04L 9/08

H04L 9/40

(21) 2033981

(22) 18.01.2023

(54) METHOD FOR ENCRYPTING AND
DECRYPTING DATA ACROSS
DOMAINS BASED ON PRIVACY
COMPUTING

(71) NANHU LABORATORY

(74) drs. A.A. Jilderda

(72) Ruiyan Xia

Lei Zhang

(31) 202210571691.5

(32) 25.05.2022

(33) China

(51) H05G 2/00

G03F 7/20

(21) 2034367

(22) 17.03.2023

(54) EXTREME ULTRAVIOLET LIGHT
GENERATION APPARATUS
AND ELECTRONIC DEVICE
MANUFACTURING METHOD

(71) Gigaphoton Inc.

(74) ir. A. Blokland c.s.

(72) Takashi Sugauma

(31) 2022-085523

(32) 25.05.2022

(33) Japan

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) A01N 1/02 (11) 2033449 (47) 05.12.2023 (22) 03.11.2022 (54) ADIPOSE TISSUE CRYOPRESERVATION PROTECTIVE AGENT (73) SHANGHAI NINTH PEOPLE'S HOSPITAL, SHANGHAI JIAOTONG UNIVERSITY SCHOOL OF MEDICINE (72) Shuangbai Zhou Qingfeng Li (74) M. Schmid	(54) NON-TEACHING MEMORIZING COAL CAVING SYSTEM WITH TOP-COAL CAVING HYDRAULIC SUPPORTS IN INTELLIGENT COMPREHENSIVELY- MECHANIZED TOP COAL CAVING FACE (73) CHINA UNIVERSITY OF MINING AND TECHNOLOGY (72) Zhongbin Wang Dong Wei Chao Tan Lei Si Xuliang Lu Songyong Liu Haifeng Yan Jiahao Li Xinhua Liu Hongxiang Jiang (74) drs. C.M.A. Quintelier (31) 202111130410.4 (32) 26.09.2021 (33) China	(33) United Kingdom <hr/> (51) F41H 1/02 F41H 5/04 (11) 2029154 (47) 05.12.2023 (22) 09.09.2021 (54) PROTECTIVE VEST (73) ASOCIACION DE INVESTIGACION DE LA INDUSTRIA TEXTIL (AITEK) (72) Eduardo Fages Santana Óscar Gutiérrez Moscardó José Ramón Martínez Guillén José Gisbert Gomis (74) dr. R.C. van Duijvenbode c.s. (31) 202130378 (32) 24.02.2021 (33) Spain <hr/> (51) G01N 21/552 G01N 21/85 G01N 21/27 (11) 2032316 (47) 05.12.2023 (22) 29.06.2022 (54) A device for real-time monitoring the microscopic dynamic process of hydrate by in-situ ATR FTIR and its application method (73) Qilu University of Technology (72) Yinghua Gong Tianduo Li Min Cui Wei Hu Yingzhou Li Vladimir Arnoldovich Vinokurov Andrey Stoporev Anton Semenov (74) ir. W.J.J.M. Kempes (31) 202110776892.4 (32) 09.07.2021 (33) China <hr/> (51) G01V 3/08 G01R 33/16 G06F 17/14 (11) 2032576 (47) 05.12.2023 (22) 22.07.2022 (54) MAGNETIC SUSCEPTIBILITY INVERSION METHOD AND SYSTEM (73) The Third Geological Exploration Institute of Qinghai Province (72) Haifeng Hu Jinhai Wang Shuyue He Junhai Meng Lijun Wang Zhonghong Yu Yong Zhang (74) ir. M.B. Plaggenborg (31) 202110865233.8 (32) 29.07.2021
(51) B01J 29/85 C07C 1/20 C07C 11/02 C07C 11/04 C07C 11/06 (11) 2030674 (47) 05.12.2023 (22) 24.01.2022 (54) IRON-LOADED FUNCTIONALIZED SAPO-34 MOLECULAR SIEVE AND PREPARATION METHOD AND APPLICATION THEREOF (73) Qingdao University of Science and Technology Frontier Institute of Nano and Micro Science (Qingdao) Co., Ltd. (72) Yunmei Du Shouhua Feng Lei Wang Tiantian Ye Bin Li Zhenyu Xiao (74) ir. M.B. Plaggenborg (31) 202111363749.9 (32) 17.11.2021 (33) China	(51) E21D 3/00 (11) 2032184 (47) 05.12.2023 (22) 16.06.2022 (54) INCLINED SHAFT EXCAVATION METHOD (73) Sinohydro Bureau 6 Co., Ltd. (72) Ming Ye Changchun Ren Jinxing He Shushen Tian Wenhui Zhang Qinsheng Yu Haonan Zheng (74) ir. W.J.J.M. Kempes (31) 202110863280.9 (32) 29.07.2021 (33) China	
(51) E04H 4/00 (11) 2031009 (47) 05.12.2023 (22) 18.02.2022 (54) CONSTRUCTIEMODULE VOOR ZWEMBAD, GEASSOCIEERD ZWEMBAD EN WERKWIJZE VOOR HET VERWEZENLIJKEN VAN EEN ZWEMBAD (73) Emmanuel Julliard (72) Emmanuel Julliard (74) ir. H.Th. van den Heuvel c.s. (31) 2101657 (32) 19.02.2021 (33) France	(51) F03D 13/25 E02D 27/42 E02D 27/52 E02D 23/16 E02D 23/08 E02D 23/02 E02D 15/08 E02D 27/50 E02B 17/02 E02B 17/00 B63B 21/27 (11) 2034000 (47) 05.12.2023 (22) 20.01.2023 (54) Foundations for offshore wind turbines (73) Seaway 7 Engineering B.V. (72) Alan John Macleay (74) ir. H.Th. van den Heuvel c.s. (31) 2200812.2 (32) 21.01.2022	

(33) China

NP3

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

EP1

Vertaalde conclusies van Europese octrooiaanvragen.

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

EP2

Voor Nederland verleende Europese octrooien.

Contains data concerning European patents granted for The Netherlands.

(51) A01B 3/46	(73) Clemens GmbH & Co. KG, Weinbautechnik - Getränketechnik	(51) A01D 34/00
A01D 78/10	(72) CLEMENS, Bernhard	A01B 69/04
A01B 59/06	(51) A01B 71/04	A01G 25/09
A01B 73/00	F16C 23/08	A01G 25/16
(11) EP3932157	F16C 33/78	G05D 1/00
(21) EP21183352.0	A01B 49/02	(11) EP3881662
(47) 06.12.2023	(11) EP3689120	(21) EP21163043.9
(22) 02.07.2021	(21) EP20152466.7	(47) 06.12.2023
(54) AGRICULTURAL IMPLEMENT	(47) 06.12.2023	(22) 17.03.2021
(73) Pöttinger Landtechnik GmbH	(22) 17.01.2020	(54) MOTORIZED ROBOTIC LAWNMOWER
(72) BALDINGER, Friedrich	(54) BEARING UNIT AND AGRICULTURAL MACHINE WITH SUCH A BEARING UNIT	(73) Bernini, Fabrizio
Hehenberger, Martin	(73) Horsch Maschinen GmbH	(72) Bernini, Fabrizio
Hehenberger, Robert	(72) HASELHOFF, Alexander	(31) 202000005608
Meindlhumer, Wilhelm	(31) 102019201353	(32) 17.03.2020
Preimeß, Hans-Jörg	(32) 01.02.2019	(33) Italy
(31) 102020117433	(33) Germany	(51) A01D 34/00
(32) 02.07.2020	(51) A01B 79/00	B60B 11/02
(33) Germany	A01B 63/11	(11) EP3725146
(51) A01B 21/08	B62D 49/06	(21) EP20159961.0
A01B 23/04	(11) EP3626040	(47) 06.12.2023
A01B 49/02	(21) EP19184707.8	(22) 28.02.2020
A01B 49/06	(47) 06.12.2023	(54) AN ASSEMBLY OF TWO TYRES FOR SELF-PROPELLED LAWN MOWER ROBOTS
A01B 63/24	(22) 05.07.2019	(73) Bernini, Fabrizio
A01B 71/02	(54) AGRICULTURAL WORK SYSTEM	(72) Bernini, Fabrizio
A01C 5/06	(73) CLAAS Tractor S.A.S.	(31) 201900006044
A01B 25/00	(72) Noyer, Pierre	(32) 18.04.2019
A01C 7/20	Ehlert, Christian	(33) Italy
A01B 63/00	Wieckhorst, Jan Carsten	(51) A01D 34/53
A01B 63/22	Meyer, Lennart	A01D 45/00
A01B 63/26	(31) 102018123476	A01G 3/00
A01B 63/32	(32) 24.09.2018	(11) EP3700322
(11) EP4037456	(33) Germany	(21) EP18869571.2
(21) EP20785975.2	(51) A01C 21/00	(47) 06.12.2023
(47) 06.12.2023	A01B 79/00	(87) CA2018000201
(87) EP2020077665	(11) EP3878260	02.05.2019
08.04.2021	(21) EP21154770.8	(22) 26.10.2018
(22) 02.10.2020	(47) 06.12.2023	(54) PLANT TRIMMING APPARATUS AND METHODS
(54) SOIL-WORKING MACHINE	(22) 02.02.2021	(73) Eteros Technologies Inc.
(73) Agrowin International	(54) WORK VEHICLE WITH A CROP ORIENTATION SYSTEM	(72) INGRAM, Erik
(72) EVIN, florence	(73) Deere & Company	MCKELLAR, Aaron
EVIN, Michel	(72) Glass, David	HEYWOOD, Joe
(31) 1910926	Helmich, Sam	KLOSSOK, Rudi
1910924	(31) 202016817202	(31) 201715796157
1910925	(32) 12.03.2020	(32) 27.10.2017
(32) 02.10.2019	(33) United States of America	(33) United States of America
02.10.2019	(51) A01D 34/00	(51) A01D 34/68
02.10.2019	(11) EP3794921	(11) EP3515169
(33) France	(21) EP20197501.8	(21) EP17778110.1
France	(47) 06.12.2023	(47) 06.12.2023
France	(22) 22.09.2020	(87) US2017052695
(51) A01B 39/16	(54) LAWN MOWER ROBOT AND CORRESPONDING PROCESS	29.03.2018
A01B 39/18	(73) Bernini, Fabrizio	(22) 21.09.2017
A01B 39/20	(72) Bernini, Fabrizio	(54) CONTROL ASSEMBLY FOR A WALK- BEHIND MOWER
A01G 17/00	(31) 201900016946	(73) MTD products Inc
(11) EP4052550	(32) 23.09.2019	(72) SMITH, Philip B.
(21) EP21161080.3	(33) Italy	(31) 201662397659 P
(47) 06.12.2023		(32) 21.09.2016
(22) 05.03.2021		
(54) GRADIENT COMPENSATION DEVICE FOR VITICULTURE		

(33) United States of America	11.05.2018	(54) PLANT PROMOTER FOR TRANSGENE EXPRESSION
(51) A01D 34/90	(22) 25.10.2017	(73) Corteva Agriscience LLC
A45F 3/14	(54) SECATEURS	(72) SIDORENKO, Lyudmila
(11) EP3595486	(73) Bortolussi, Claudio	LARSEN, Cory M.
(21) EP17926512.9	(72) BONATO, Luigi	ANTHONY, Geny
(47) 06.12.2023	INTRIERI, Cesare	SRIRAM, Shreedharan
(87) CN2017103738	(31) 201600111926	BUTLER, Holly Jean
04.04.2019	(32) 07.11.2016	(31) 201762587024 P
(22) 27.09.2017	(33) Italy	(32) 16.11.2017
(54) ADJUSTABLE CARRIER ASSEMBLY FOR A HARNESS	(51) A01G 9/04	(33) United States of America
(73) Globe (Jiangsu) Co., Ltd.	A01G 9/14	(51) A01H 6/46
(72) LENNINGS, Eric	A01G 9/24	(11) EP3539372
EKBERG, Emma	A01G 27/00	(21) EP19151512.1
ZHONG, Minglong	A01G 27/02	(47) 06.12.2023
WANG, Doushi	A01G 31/06	(22) 02.10.2012
(51) A01D 41/12	(11) EP3873192	(54) WHEAT WITH INCREASED RESISTANT STARCH LEVELS
A01D 41/127	(21) EP19880466.8	(73) Arcadia Biosciences Inc.
(11) EP3973763	(47) 06.12.2023	Slade, Ann, J.
(21) EP21189973.7	(87) FI2019050763	Loeffler, Dayna, L.
(47) 06.12.2023	07.05.2020	Holm, Aaron, M.
(22) 05.08.2021	(22) 25.10.2019	Mullenberg, Jessica, C.
(54) AUTOMATED CAMERA SYSTEM CONTROL FOR HARVESTING MACHINE UNLOADING	(54) OPEN-TOP GUTTER	(72) SLADE, Ann J.
(73) Deere & Company	(73) Green Automation Group Oy	LOEFFLER, Danya L.
(72) O'CONNOR, Kellen	(72) HUTTUNEN, Jukka	HOLM, Aaron M.
FAUST, Jeremy J.	(31) 20197004	MULLENBERG, Jessica C.
(31) 202017034890	20187155	(31) 201161542953 P
(32) 28.09.2020	(32) 08.01.2019	(32) 04.10.2011
(33) United States of America	29.10.2018	(33) United States of America
(51) A01F 12/44	(33) Finland	(51) A01H 9/00
(11) EP3466243	Finland	C12N 15/82
(21) EP18198423.8	(51) A01G 9/14	C12N 15/87
(47) 06.12.2023	A01G 9/24	C12N 5/00
(22) 03.10.2018	A01G 31/00	C12N 9/16
(54) SEGMENTED FAN HOUSING FOR CLEANING SYSTEM OF COMBINE HARVESTER	A01G 31/06	(11) EP3116305
(73) CNH Industrial Belgium NV	A01G 31/02	(21) EP15761154.2
(72) Linde, Mr. Karl R.	G05B 19/418	(47) 06.12.2023
Thomas, Jeff	(11) EP3570657	(87) US2015020622
(31) 201715726900	(21) EP18742266.2	17.09.2015
(32) 06.10.2017	(47) 06.12.2023	(22) 14.03.2015
(33) United States of America	(87) SG2018050032	(54) METHODS AND COMPOSITIONS FOR INCREASING EFFICIENCY OF TARGETED GENE MODIFICATION USING OLIGONUCLEOTIDE-MEDIATED GENE REPAIR
(51) A01F 25/14	26.07.2018	(73) Cibus US LLC
F25D 23/00	(22) 19.01.2018	Cibus Europe B.V.
(11) EP3677115	(54) SYSTEM AND METHOD FOR FARMING	(72) BEETHAM, Peter R.
(21) EP18860732.9	(73) Greenphyto Pte. Ltd.	GOCAL, Gregory F.W.
(47) 06.12.2023	(72) CHONG, Suk Shien	SCHOPKE, Christian
(87) JP2018036056	(31) 10201700512T	SAUER, Noel
04.04.2019	(32) 20.01.2017	PEARCE, James
(22) 27.09.2018	(33) Singapore	SEGAMI, Rosa E.
(54) INTERNAL AIR ADJUSTMENT DEVICE	(51) A01G 9/28	MOZORUK, Jerry
(73) Daikin Industries, Ltd.	(11) EP4173476	(31) 201562133129 P
(72) KAMEI, Noritaka	(21) EP21204965.4	201462075811 P
TANAKA, Naohiro	(47) 06.12.2023	201462075816 P
MATSUI, Hidenori	(22) 27.10.2021	201462051579 P
(31) 2017189947	(54) RAISED BED WITH SIDE WALLS AND CROSS STRUTS	201461953333 P
(32) 29.09.2017	(73) Steland Apparatebau GmbH & Co. KG	(32) 13.03.2015
(33) Japan	(72) STELAND, Jörg	05.11.2014
(51) A01G 3/02	(51) A01H 1/00	05.11.2014
B26B 13/06	C12N 5/10	17.09.2014
(11) EP3534686	C12N 15/82	14.03.2014
(21) EP17798339.2	(11) EP3709792	(33) United States of America
(47) 06.12.2023	(21) EP18879839.1	United States of America
(87) IB2017056611	(47) 06.12.2023	United States of America
	(87) US2018058338	
	23.05.2019	
	(22) 31.10.2018	

United States of America	20.12.2012	(51) A01K 67/033
United States of America	(22) 17.06.2012	A23K 10/20
(51) A01J 5/017	(54) PET PROTECTIVE COLLAR WITH STAYS	A23L 3/36
A01J 7/04	(73) Imagine That International, Inc.	A23K 40/00
A01K 1/12	(72) MARKFIELD, Linda	A23K 50/90
(11) EP3801000	(31) 201161498524 P	(11) EP3972409
(21) EP19743008.5	(32) 17.06.2011	(21) EP20725948.2
(47) 06.12.2023	(33) United States of America	(47) 06.12.2023
(87) NL2019050288	(51) A01K 61/59	(87) IB2020054449
28.11.2019	A01K 61/80	26.11.2020
(22) 17.05.2019	A01K 63/04	(22) 11.05.2020
(54) SYSTEM FOR MILKING OF A DAIRY ANIMAL	(11) EP3277081	(54) SYSTEM AND METHOD FOR PRODUCING INSECTS
(73) Lely Patent N.V.	(21) EP16711377.8	(73) Invers
(72) DE WAARD, Nicky	(47) 06.12.2023	(72) CREPIEUX, Sébastien
(31) 2020983	(87) US2016017588	TOURNIER, Ludovic
(32) 24.05.2018	06.10.2016	QUITTARD, David
(33) Netherlands	(22) 11.02.2016	CAILLOUX, Stéphanie
(51) A01K 1/01	(54) MULTI-PHASIC MODULARISED SHRIMP PRODUCTION SYSTEM AND METHOD	(31) 1905282
A01K 1/02	(73) Royal Caridea LLC	(32) 20.05.2019
(11) EP3512332	(72) KEMP, Maurice	(33) France
(21) EP17851178.8	BRAND, Anthony P.	(51) A01M 7/00
(47) 06.12.2023	(31) 201562140392 P	(11) EP3874947
(87) SE2017050876	(32) 30.03.2015	(21) EP21159634.1
22.03.2018	(33) United States of America	(47) 06.12.2023
(22) 04.09.2017	(51) A01K 61/60	(22) 26.02.2021
(54) MOVABLE ENDLESS FLOOR FOR ANIMAL HUSBANDRY AND ANIMAL HUSBANDRY DEVICE	A01K 61/13	(54) CENTER FRAME POSITIONING SYSTEM AND AGRICULTURAL SPRAYER VEHICLE WITH SUCH
(73) Lindvalls Patentbolag AB	(11) EP3541174	(73) Deere & Company
(72) LINDVALL, Tommy	(21) EP17801665.5	(72) Sporrer, Adam D.
(31) 1651233	(47) 06.12.2023	Ehrecke, Kevin L.
(32) 15.09.2016	(87) EP2017079121	Mcnaull, Robert
(33) Sweden	24.05.2018	Darr, Matthew J.
(51) A01K 1/015	(22) 14.11.2017	Blaylock, Kyle
(11) EP3821704	(54) NET FOR SUBMERSIBLE MARINE FISH PEN	(31) 202117178526
(21) EP20204808.8	(73) Marine Constructions AS	202062985132 P
(47) 06.12.2023	(72) GRYTDAL, Andreas	(32) 18.02.2021
(22) 30.10.2020	AASEN, Kjell, Audun	04.03.2020
(54) ANIMAL SHED FLOOR	(31) 20161802	(33) United States of America
(73) Lely Patent N.V.	(32) 15.11.2016	United States of America
(72) VAN DEN BERG, Karel	(33) Norway	(51) A01M 21/04
FRANSEN, Renuat Ignatius Josephus	(51) A01K 61/80	(11) EP4081025
(31) 2024227	A01K 61/95	(21) EP20839320.7
(32) 12.11.2019	(11) EP3609318	(47) 06.12.2023
(33) Netherlands	(21) EP18723968.6	(87) EP2020087773
(51) A01K 15/02	(47) 06.12.2023	01.07.2021
(11) EP3621431	(87) IB2018052595	(22) 23.12.2020
(21) EP18722571.9	18.10.2018	(54) DEVICE FOR APPLYING OF TRANSITIONAL RESISTANCE REDUCING MEDIA AND APPLYING OF ELECTRICITY TO PLANTS
(47) 06.12.2023	(22) 13.04.2018	(73) crop.zone GmbH
(87) EP2018062277	(54) AUTONOMOUS AQUACULTURE FISH FEEDING SYSTEM AND OPERATION METHOD THEREOF	(72) LEHNEN, Marcus
15.11.2018	(73) Universidade do Porto	VANDENHIRTZ, Dirk Guido
(22) 12.05.2018	CIIMAR - Centro Interdisciplinar de Investigação Marinha e Ambiental	(31) 102020115923
(54) METHOD OF USING A DEVICE FOR THE COLLECTION AND RELEASE OF ODOROUS MOLECULES	Foodintech, Lda	102019135768
(73) Bidesiv Sàrl	(72) DE ALMEIDA OZÓRIO, Rodrigo Otávio TAINÁ DE SOUZA, Allan FERREIRA PEREIRA, Luís Filipe MAGALHÃES GONÇALVES, José Fernando CARVALHO ARAÚJO FERNANDES, Miguel Ângelo	(32) 17.06.2020
(72) COURRIER, Quentin		23.12.2019
(31) 1770489		(33) Germany
(32) 12.05.2017		Germany
(33) France		(51) A01N 1/02
(51) A01K 27/00		B25J 9/02
A01K 13/00		B25J 9/04
(11) EP2728997		B25J 21/00
(21) EP12800705.1		(11) EP4044802
(47) 06.12.2023		(21) EP20781575.4
(87) US2012042851		(47) 06.12.2023
	(31) 2017110028	
	(32) 13.04.2017	
	(33) Portugal	

- | | | |
|---|---|--|
| (87) EP2020077978
22.04.2021 | A01N 43/40
A01N 43/84 | (54) ANTIBACTERIAL SOL AND A METHOD
FOR ITS PREPARATION |
| (22) 06.10.2020 | C07C 257/12 | (73) Grade Medical S.r.o. |
| (54) INSTALLATION FOR HANDLING AND
STORING BIOLOGICAL SAMPLES
AT VERY LOW TEMPERATURES,
COMPRISING AT LEAST ONE
CARTESIAN ROBOT AND ONE AT
LEAST FIVE-AXIS ROBOT | C07D 265/30
C07D 211/12
C07C 317/32
C07C 323/41
A01P 3/00 | (72) KAVALÍREK, Jan
BRATKA, Petr |
| (73) Irelec | (11) EP3525589 | (31) 20190612 |
| (72) CUNRATH, Aymeric
DECOLIN, Eric
DISERBO, Vincent
HEBERT, Guillaume
MICHEL, Alain
MUNSCH, Thierry | (21) EP17797733.7
(47) 06.12.2023
(87) IB2017056277
19.04.2018 | (32) 02.10.2019
(33) Czech Republic |
| (31) 1911493 | (22) 11.10.2017 | <hr/> |
| (32) 15.10.2019 | (54) 4-ARYLAMINO SUBSTITUTED
PHENYLAMIDINE DERIVATIVES
AND THEIR USE TO PROTECT
CROPS BY FIGHTING
UNDESIRED PHYTOPATHOGENIC
MICOORGANISMS | (51) A21D 15/08
A21D 13/00
A21D 8/04
A21D 13/24
A21D 13/28 |
| (33) France | (73) PI Industries Ltd | (11) EP3593639 |
| (51) A01N 25/02 | (72) NAIK, Maruti N.
MAHAJAN, Vishal Ashok
WALUNJ, Gulab Eknath
KALE, Manoj Ganpat
JHALA, Vikram Singh
MANJUNATHA, Sulur G
VENKATESHA, Hagalavadi M
AUTKAR, Santosh Shridhar
GARG, Ruchi
SAMANTA, Jatin
KLAUSENER, Alexander G. M.
POSCHARNY, Konstantin | (21) EP19189227.2
(47) 06.12.2023
(22) 22.06.2015
(54) PROBIOTIC FORTIFIED FOOD
PRODUCTS AND METHODS OF
MANUFACTURE |
| A01N 43/60 | (31) 201611035246 | (73) Goodman Fielder PTE. LTD |
| A01N 43/653 | (32) 14.10.2016 | (72) NAG, Arup
DAS, Shantanu |
| A01N 43/88 | (33) India | (31) 14626691 |
| A01N 43/90 | (51) A01N 43/40 | (32) 25.06.2014 |
| A01N 47/24 | A01N 31/02 | (33) New Zealand |
| A01N 47/30 | A01N 25/02 | <hr/> |
| A01N 53/00 | A01P 1/00 | (51) A22C 11/02 |
| A01N 57/16 | (11) EP3726991 | (11) EP3449728 |
| A01N 43/707 | (21) EP18830763.1 | (21) EP18191946.5 |
| A01P 3/00 | (47) 06.12.2023 | (47) 06.12.2023 |
| A01P 7/04 | (87) EP2018084914
27.06.2019 | (22) 31.08.2018 |
| (11) EP3703495 | (22) 14.12.2018 | (54) DEVICE FOR FILLING TUBULAR
CASINGS |
| (21) EP17930714.5 | (54) COLOURED DISINFECTANT
PREPARATION WITH A CONTENT OF
OCTENIDINE DIHYDROCHLORIDE | (73) VEMAG Maschinenbau GmbH |
| (47) 06.12.2023 | (73) SCHÜLKE & MAYR GmbH | (72) MACH, Matthias
HAGEDORN, Jan-Nils
MATTHIES, Heiner
GROTE, Olaf
LEWIN, Alexander |
| (87) CN2017109248
09.05.2019 | (72) DETTMANN, Andreas
BEHREND, Sabine
LEMBKE, André | (31) 102017120108
(32) 31.08.2017
(33) Germany |
| (22) 03.11.2017 | (31) 102017130313 | <hr/> |
| (54) SOLVENTS FOR AGRICULTURAL
APPLICATIONS AND PESTICIDE
FORMULATIONS | (32) 18.12.2017 | (51) A22C 11/10
B65B 9/12 |
| (73) Dow Global Technologies LLC | (33) Germany | (11) EP3732978 |
| (72) LU, Wei
JIANG, Xin
REN, Hua
ZHONG, Ling
MU, Jianhai | (51) A01N 59/16 | (21) EP20171975.4
(47) 06.12.2023
(22) 29.04.2020 |
| (51) A01N 37/46 | A01N 31/02 | (54) METHOD AND DEVICE FOR
SEPARATING SAUSAGES FROM A
STRING OF SAUSAGES |
| A01N 43/30 | A01N 25/04 | (73) Inotec GmbH Maschinenentwicklung und
Vertrieb |
| A01P 7/00 | A01N 25/10 | (72) DOMLATIL, Miroslav |
| (11) EP2775839 | A01N 25/34 | (31) 102019111195 |
| (21) EP12841890.2 | A01P 1/00 | (32) 30.04.2019 |
| (47) 06.12.2023 | (11) EP4037487 | (33) Germany |
| (87) US2012060673
25.04.2013 | (21) EP20796689.6 | <hr/> |
| (22) 17.10.2012 | (47) 06.12.2023 | (51) A22C 13/00
A23J 3/14
A23J 3/26
A23L 29/256 |
| (54) METHODS FOR ASSESSING
REPELLANT QUALITY OF ORGANIC
MATERIALS AND METHODS AND
COMPOSITIONS FOR REPELLING
ARTHROPODS | (87) CZ2020000043
08.04.2021 | (11) EP3280265
(21) EP16777353.0
(47) 06.12.2023
(87) US2016026636
13.10.2016 |
| (73) The Regents of the University of
California | (22) 29.09.2020 | (22) 08.04.2016 |
| (72) RAY, Anandasankar
BOYLE, Sean, Michael | | (54) IMITATION SKINLESS SAUSAGES |
| (31) 201161548141 P | | |
| (32) 17.10.2011 | | |
| (33) United States of America | | |
| (51) A01N 37/52 | | |

(73) DuPont Nutrition USA, Inc.	(87) US2020066564	DABSON, Shanna Christine
(72) NIELSEN, Helge, Henrik	08.07.2021	(31) 201662384075 P
(31) 201562145673 P	(22) 22.12.2020	201662297410 P
(32) 10.04.2015	(54) A NON-DAIRY CREAMER AND	201562237906 P
(33) United States of America	METHOD OF MAKING THE SAME	201562237886 P
(51) A22C 21/00	(73) Cargill, Incorporated	(32) 06.09.2016
(11) EP3522730	(72) CHANG, Guifang	19.02.2016
(21) EP17784905.6	GE, Yun	06.10.2015
(47) 06.12.2023	HUANG, Weifeng	06.10.2015
(87) EP2017075100	SI, Yaobin	(33) United States of America
12.04.2018	(31) 201911422641	United States of America
(22) 04.10.2017	202062972697 P	United States of America
(54) POULTRY SHACKLE OR PRODUCT	(32) 30.12.2019	United States of America
CARRIER WITH TENDON TRAP FOR	11.02.2020	
SUSPENDING POULTRY OR PARTS	(33) China	(51) A23G 9/04
THEREOF	United States of America	A23L 2/54
(73) Teknologisk Institut	(51) A23C 21/02	A23L 5/30
(72) THRANE, Uffe	A23C 21/06	B67D 1/08
(31) PA201600600	(11) EP4096420	(11) EP3945842
(32) 06.10.2016	(21) EP21702640.0	(21) EP19922932.9
(33) Denmark	(47) 06.12.2023	(47) 06.12.2023
(51) A23B 7/144	(87) EP2021052051	(87) US2019025286
A23B 7/005	05.08.2021	08.10.2020
A23B 7/015	(22) 29.01.2021	(22) 02.04.2019
A23L 3/16	(54) CHEESE-LIKE PRODUCT, USE	(54) WATERLESS ICE CRYSTAL
A23L 3/26	THEREOF AND METHOD FOR	NUCLEATOR WITH CONVEX
A23L 3/34	PREPARING SAME	ULTRASONIC TRANSMITTER
A23L 3/3409	(73) Arla Foods amba	(73) The Coca-Cola Company
(11) EP3468374	(72) JOHANSEN, Bo, Hedegaard	(72) SEKITA, Miyako
(21) EP17907916.5	ANDERSEN, Claus Bukbjerg	(51) A23K 10/22
(47) 06.12.2023	THOMSEN, Karoline Borg	A23K 20/158
(87) CA2017050818	(31) 20154218	A23K 50/80
01.11.2018	(32) 29.01.2020	B01D 3/10
(22) 06.07.2017	(33) European Patent Office (EPO)	C11B 3/12
(54) ADVANCED OXIDATIVE PROCESS	(51) A23D 7/00	C11C 1/02
AND SYSTEM FOR MICROBIAL	A23D 7/005	C11C 1/10
REDUCTION	A23D 7/01	C11C 3/00
(73) Harpc Solutions Inc.	A61K 9/107	(11) EP3554260
(72) MOYER, Paul	(11) EP3384780	(21) EP19706233.4
VANDERVEEN, Mark	(21) EP18165328.8	(47) 06.12.2023
(31) 201762489180 P	(47) 06.12.2023	(87) IB2019050751
(32) 24.04.2017	(22) 30.03.2018	22.08.2019
(33) United States of America	(54) VEGETABLE OIL COMPOSITION AND	(22) 30.01.2019
(51) A23C 1/04	USES THEREOF	(54) PROVISION OF A FEED INGREDIENT
A61P 3/02	(73) Noivita S.R.L.S.	(73) Golden Omega S.A.
A23L 33/00	(72) UBERTI, Francesca	(72) MEZA ALMENDRA, Julio Cesar
A23L 33/17	MOLINARI, Claudio Giuseppe	LOPEZ CASTILLO, Jose Luis
A23L 33/185	(31) 201700036744	NAPOLITANO FEITO, Pablo
A23L 33/19	(32) 04.04.2017	DORLHIAC SILVA, Gustavo Adolfo
(11) EP2835059	(33) Italy	PINCHEIRA VARAS, Luis Tomás
(21) EP14185561.9	(51) A23G 3/48	MARKOVITS ROJAS, Alejandro
(47) 06.12.2023	A23L 19/00	(31) 201815896133
(22) 12.03.2009	A23L 29/231	(32) 14.02.2018
(54) High protein liquid enteral nutritional	A23L 29/238	(33) United States of America
composition	A23L 29/256	(51) A23K 50/10
(73) N.V. Nutricia	A23B 7/01	A23K 50/30
(72) Minor, Marcel	A23L 3/01	A23K 50/75
Weel, Koenraad Gerard Christoffel	(11) EP3358962	A23K 10/37
Hotrum, Natalie Elizabeth	(21) EP16784659.1	A23K 20/158
(31) PCT/NL2008/050141	(47) 06.12.2023	A23K 20/105
(32) 12.03.2008	(87) US2016055716	A23K 20/163
(33) World Intellectual Property Office (WIPO)	13.04.2017	A23K 20/24
(51) A23C 11/10	(22) 06.10.2016	A23K 20/20
A23C 11/02	(54) METHOD OF PREPARING HIGH	A61K 31/19
A23D 9/00	METHOD OF PREPARING HIGH	A23K 20/10
(11) EP4084621	MOISTURE EDIBLE COMPOSITIONS	(11) EP3324753
(21) EP20842865.6	(73) Wm. Wrigley Jr. Company	(21) EP16745370.3
(47) 06.12.2023	(72) GAO, Yang	(47) 06.12.2023
	UNLU, Emine	(87) US2016043494

26.01.2017	(31) 201562255838 P	25.01.2018
(22) 22.07.2016	201562246412 P	(22) 17.07.2017
(54) ODOR FREE VOLATILE FATTY ACIDS AS AN ENERGY SOURCE FOR RUMINANTS, SWINE AND POULTRY	(32) 16.11.2015	(54) COMPOSITIONS FOR USE IN METHODS FOR MANAGING DIGESTIVE DISORDERS
(73) Zinpro Corporation	26.10.2015	(73) Metagenics LLC
(72) STARK, Peter A.	(33) United States of America	(72) LEBRUN-BLASHKA, Sara
KENDING, Cory Shawn	United States of America	TROUP, John
SOCHA, Michael Thomas	(51) A23L 7/104	CONTRACTOR, Nikhat
(31) 201514843130	(11) EP3659444	(31) 201662363590 P
201514805571	(21) EP18000921.9	(32) 18.07.2016
(32) 02.09.2015	(47) 06.12.2023	(33) United States of America
22.07.2015	(22) 27.11.2018	(51) A24B 13/00
(33) United States of America	(54) GLUTEN-FREE GRAIN-CONCENTRATE SUBSTITUTE FOR FERMENTED WHEAT GERM FOOD PRODUCT AND METHOD OF PREPARATION	A24B 13/02
United States of America	(73) Bencze, Gyula	A24B 15/16
(51) A23L 2/56	(72) BENCZE, Gyula	A61K 31/465
C12F 3/06	WALES, David	(11) EP3379952
C12G 3/06	JAVES, Michael F.	(21) EP16801595.6
(11) EP4082356	(51) A23L 29/262	(47) 06.12.2023
(21) EP21170840.9	A23L 29/269	(87) IB2016056935
(47) 06.12.2023	A23L 29/294	01.06.2017
(22) 28.04.2021	A23L 29/30	(22) 17.11.2016
(54) METHOD OF TREATMENT OF NON-LIGNIFIED GRAPE STALKS IN THE PLANT STATE AND THEIR USE	A23L 29/00	(54) NICOTINE SALTS, CO-CRYSTALS, AND SALT CO-CRYSTAL COMPLEXES
(73) Torevitis SA	A23L 33/16	(73) R. J. Reynolds Tobacco Company
(72) Chantreuil, Grégoire	A23L 33/125	(72) DULL, Gary M.
de Pontbriand, Cédric	A23L 2/52	CARR, Andrew
(51) A23L 2/60	(11) EP3941218	SHARP, Emma
A23L 2/70	(21) EP20776637.9	(31) 201514951939
A23L 2/38	(47) 06.12.2023	(32) 25.11.2015
A23L 33/125	(87) JP2020012465	(33) United States of America
A23L 27/00	01.10.2020	(51) A24C 5/46
(11) EP3560348	(22) 19.03.2020	A24D 3/02
(21) EP17885337.0	(54) A PROCESS FOR PREPARING A READILY DISPERSIBLE HYDROCOLLOID COMPOSITION	(11) EP4099854
(47) 06.12.2023	(73) DuPont Nutrition Biosciences ApS	(21) EP21711635.9
(87) KR2017015146	(72) SWORN Graham	(47) 06.12.2023
28.06.2018	YOUNG Niall	(87) IB2021050960
(22) 20.12.2017	FALCK Karen	12.08.2021
(54) AMINO ACID BEVERAGE CONTAINING ALLULOSE	SNABE Torben	(22) 05.02.2021
(73) Cj Cheiljedang Corporation	INOUE Motoki	(54) MANUFACTURING MACHINE AND MANUFACTURING METHOD FOR THE PRODUCTION OF A FILTER FOR A TUBULAR ELEMENT
(72) SHIM, Dong Seok	TOYAMA Yoshio	(73) Sasib S.p.A.
KIM, Su-Jeong	(31) 2019055510	(72) GHIOTTI, Roberto
PARK, Seung Won	(32) 22.03.2019	MANFREDI, Enrico
BAK, Youn-Kyung	(33) Japan	NEGRINI, Yuri
PARK, Jung Gyu	(51) A23L 33/21	(31) 202000002419
BYUN, Sung Bae	A61K 31/702	(32) 07.02.2020
LEE, In	A61K 31/7016	(33) Italy
JUNG, Dong Chul	A23L 2/52	(51) A24C 5/47
CHOI, Jong Min	A61K 31/07	A24C 5/32
(31) 20160175262	A61K 31/197	A24D 3/02
(32) 21.12.2016	A61K 31/198	(11) EP3984381
(33) Korea (Republic)	A61K 31/28	(21) EP21202253.7
(51) A23L 2/60	A61K 31/355	(47) 06.12.2023
A23L 33/20	A61K 31/375	(22) 12.10.2021
(11) EP3367816	A61K 31/401	(54) METHOD TO CONTROL A FEEDING UNIT TO FEED COMPONENTS FOR SMOKING ARTICLES
(21) EP16860673.9	A61K 31/405	(73) G.D SOCIETA' PER AZIONI
(47) 06.12.2023	A61K 31/4172	(72) MALAVOLTA, Massimo
(87) US2016058834	A61K 31/4188	BALDANZA, Nicola
04.05.2017	A61K 31/4415	BRUSCHI, Marco
(22) 26.10.2016	A61K 31/455	EUSEPI, Ivan
(54) STEVIOL GLYCOSIDE COMPOSITIONS	A61K 31/51	GAMBERINI, Giuliano
(73) Purecircle Usa Inc.	A61K 31/525	(31) 202000023935
(72) PURKAYASTHA, Siddhartha	(11) EP3484311	(32) 12.10.2020
MARTIN, John	(21) EP17745586.2	
PETIT, Marcia	(47) 06.12.2023	
CHKHAN, Kristina	(87) US2017042329	

(33) Italy	WEN, Zhihua	(31) 201802764
(51) A24C 5/47	CHEN, Yongguang	201706335
A24C 5/32	HE, Danchong	(32) 21.02.2018
A24D 3/02	(31) 201922279855 U	20.04.2017
(11) EP3984382	(32) 17.12.2019	(33) United Kingdom
(21) EP21202280.0	(33) China	United Kingdom
(47) 06.12.2023	(51) A24F 40/57	(51) A41G 5/02
(22) 12.10.2021	A24F 40/50	(11) EP4057859
(54) METHOD TO CONTROL A FEEDING UNIT TO FEED COMPONENTS FOR SMOKING ARTICLES AND CONVEYOR DRUM OF A FEEDING UNIT TO FEED COMPONENTS FOR SMOKING ARTICLES	A24F 40/20	(21) EP20800950.6
(73) G.D SOCIETA' PER AZIONI	(11) EP3777576	(47) 06.12.2023
(72) BALDANZA, Nicola	(21) EP18912523.0	(87) EP2020081526
EUSEPI, Ivan	(47) 06.12.2023	20.05.2021
MALAVOLTA, Massimo	(87) JP2018012246	(22) 09.11.2020
VALDIROSA, Jacopo	03.10.2019	(54) ROW OF ARTIFICIAL EYELASHES AND MANUFACTURING METHOD
GAMBERINI, Giuliano	(22) 26.03.2018	(73) L'OREAL
(31) 202000023959	(54) AEROSOL GENERATION DEVICE, CONTROL METHOD AND PROGRAM	(72) CAULIER, Eric
(32) 12.10.2020	(73) Japan Tobacco Inc.	SACHS, Haroun
(33) Italy	(72) NAKANO, Takuma	(31) 1912623
(51) A24D 3/17	(72) FUJITA, Hajime	(32) 12.11.2019
A24D 3/06	(51) A24F 47/00	(33) France
A24D 3/10	A24F 15/015	(51) A41G 5/02
(11) EP3970521	A24F 40/44	(11) EP4057860
(21) EP21198049.5	(11) EP3987958	(21) EP20800951.4
(47) 06.12.2023	(21) EP20831642.2	(47) 06.12.2023
(22) 08.10.2019	(47) 06.12.2023	(87) EP2020081528
(54) BIODEGRADABLE SEGMENT OF A SMOKING PRODUCT	(87) CN2020097758	20.05.2021
(73) delfortgroup AG	30.12.2020	(22) 09.11.2020
(72) VOLGGER, Dietmar	(22) 23.06.2020	(54) ROW OF ARTIFICIAL EYELASHES AND MANUFACTURING METHOD
BACHMANN, Stefan	(54) ATOMIZATION ASSEMBLY, AND ELECTRONIC CIGARETTE	(73) L'OREAL
(31) 102019100112	(73) Shenzhen First Union Technology Co., Ltd.	(72) CAULIER, Eric
(32) 04.01.2019	(72) HU, Ruilong	SACHS, Haroun
(33) Germany	ZHAO, Senbing	(31) 1912620
(51) A24F 40/44	XU, Zhongli	(32) 12.11.2019
A24F 40/46	LI, Yonghai	(33) France
(11) EP3895562	(31) 201910548306	(51) A42B 3/22
(21) EP19894706.1	(32) 24.06.2019	(11) EP3866633
(47) 06.12.2023	(33) China	(21) EP19804837.3
(87) CN2019120201	(51) A24F 47/00	(47) 06.12.2023
18.06.2020	A24F 40/42	(87) IB2019058828
(22) 22.11.2019	A24F 40/53	23.04.2020
(54) ATOMIZING HEAD, ATOMIZER AND ELECTRONIC CIGARETTE	(11) EP4018858	(22) 16.10.2019
(73) Changzhou Patent Electronic Technology Co., Ltd	(21) EP22155342.3	(54) PROTECTION HELMET
(72) QIU, Weihua	(47) 06.12.2023	(73) Momo Design S.r.l.
ZHANG, Hongjun	(22) 16.07.2014	(72) FIORINO, Klaus
(31) 201822094247 U	(54) ELECTRONIC SMOKING ARTICLE WITH HAPTIC FEEDBACK	CATTANEO, Paolo Pier Gaspare
(32) 13.12.2018	(73) RAI Strategic Holdings, Inc.	(31) 201800009613
(33) China	(72) GALLOWAY, Michael Ryan	(32) 19.10.2018
(51) A24F 40/485	HENRY, Raymond Charles Jr.	(33) Italy
A24F 40/10	KIMSEY, Glen	(51) A43B 1/10
A24F 40/40	AMPOLINI, Frederic Philippe	A43B 3/10
(11) EP4074203	(31) 201313946309	A43B 13/04
(21) EP20903897.5	(32) 19.07.2013	A43B 23/02
(47) 06.12.2023	(33) United States of America	A43B 23/04
(87) CN2020127083	(51) A41C 3/00	B29D 35/00
24.06.2021	A41C 3/14	B29D 35/02
(22) 06.11.2020	(11) EP3612046	(11) EP3850977
(54) ATOMIZER AND ELECTRONIC ATOMIZATION DEVICE	(21) EP18721122.2	(21) EP21151940.0
(73) Shenzhen Smoore Technology Limited	(47) 06.12.2023	(47) 06.12.2023
(72) TAN, Junwei	(87) GB2018051048	(22) 15.01.2021
	25.10.2018	(54) FOOTWEAR SOLE, BOOT AND SANDAL
	(22) 20.04.2018	(73) Totes Isotoner Corporation
	(54) BRASSIERE	(72) BRAY, Jr., Walter T.
	(73) Creative Lingerie Limited	NICHOLS, Lex
	(72) MISSELDINE, Jeanette	(31) 202016745929
		(32) 17.01.2020

(33) United States of America	(73) D. Swarovski KG	(51) A45D 20/10
(51) A43B 3/34	(72) TEISSL, Christian	(11) EP4039125
A43B 7/00	NEUHAUSER, Christof	(21) EP22020027.3
A43B 17/00	BLASBICHLER, Günther	(47) 06.12.2023
A43B 13/12	RIESER, Simone	(22) 30.01.2022
(11) EP3841906	KOPP, Sonja	(54) HAIRDRYER
(21) EP20204549.8	MUEHLBERGER, Michael	(73) Tenacta Group S.p.A.
(47) 06.12.2023	(31) 19206351	(72) Morgandi, Arturo
(22) 29.10.2020	(32) 30.10.2019	(31) 202100029273
(54) SHOE-TYPE DEVICE AND METHOD	(33) European Patent Office (EPO)	202100002390
OF CONTROLLING THE SAME	(51) A45C 5/03	(32) 19.11.2021
(73) Samsung Electronics Co., Ltd.	A45C 13/00	03.02.2021
(72) Roh, Changhyun	(11) EP4103010	(33) Italy
Roh, Segon	(21) EP21703289.5	Italy
Shim, Youngbo	(47) 06.12.2023	(51) A45D 40/02
(31) 20190173847	(87) EP2021053102	A45D 40/22
(32) 24.12.2019	19.08.2021	A45D 40/00
(33) Korea (Republic)	(22) 09.02.2021	(11) EP3358986
(51) A43B 17/00	(54) LUGGAGE COMPRISING A	(21) EP16854427.8
A43B 13/38	MOTORIZED OPENING PANEL	(47) 06.12.2023
A61F 5/14	(73) PA.COTTE SA	(87) US2016055995
A43B 7/14	(72) COTTE, Pierre-Alain	13.04.2017
(11) EP4099863	POREZ, Mathieu	(22) 07.10.2016
(21) EP21707368.3	FOUQUET, Fabien	(54) FLIP LIP APPLICATOR
(47) 06.12.2023	FERRE, Victorien	(73) Seidler, Stewart
(87) IB2021050715	(31) 2001432	(72) Seidler, Stewart
12.08.2021	(32) 13.02.2020	(31) 201615056643
(22) 29.01.2021	(33) France	201562239613 P
(54) PLANTAR ORTHOSIS	(51) A45C 13/04	(32) 29.02.2016
(73) Corona, Roberto	A45C 13/36	09.10.2015
(72) Corona, Roberto	A45C 5/03	(33) United States of America
(31) 202000002008	(11) EP3316726	United States of America
(32) 03.02.2020	(21) EP16818730.0	(51) A45F 4/02
(33) Italy	(47) 06.12.2023	A45C 9/00
(51) A43D 8/32	(87) US2016040207	A45C 13/26
A43D 95/00	05.01.2017	A45C 13/28
A43D 95/02	(22) 29.06.2016	A45F 3/04
A43D 95/16	(54) MODULAR SUITCASE FRAME	A45C 13/30
A43D 95/20	(73) Tumi, Inc.	A45F 3/14
A43D 95/22	(72) SCICLUNA, Paul V.	(11) EP3703532
A43D 95/24	(31) 201662323943 P	(21) EP18804225.3
A43D 95/26	201562186822 P	(47) 06.12.2023
(11) EP4030957	(32) 18.04.2016	(87) EP2018025274
(21) EP20781253.8	30.06.2015	09.05.2019
(47) 06.12.2023	(33) United States of America	(22) 31.10.2018
(87) US2020051020	United States of America	(54) A CONVERTIBLE BAG AND A METHOD
25.03.2021	(51) A45D 1/06	FOR OPERATING A CONVERTIBLE
(22) 16.09.2020	A45D 1/04	BAG
(54) BUFFING SYSTEM FOR FOOTWEAR	A45D 20/10	(73) Beaudurof Limited
(73) NIKE Innovate C.V.	A45D 20/12	(72) BRANDON, Frances
(72) CHEN, Chun-Chieh	A45D 20/50	GILBERT, Jacqueline
CHEN, Yi-Min	(11) EP3941306	(31) 201810973
LIN, Chia-Hung	(21) EP20709667.8	201718108
WU, Hsien-Kuang	(47) 06.12.2023	(32) 04.07.2018
WU, Hung-Yu	(87) GB2020050443	01.11.2017
(31) 201962900983 P	01.10.2020	(33) United Kingdom
(32) 16.09.2019	(22) 25.02.2020	United Kingdom
(33) United States of America	(54) A HAIR STYLING APPLIANCE	(51) A46B 3/06
(51) A44C 17/00	(73) DYSON TECHNOLOGY LIMITED	A46B 5/00
B24B 9/16	(72) BEAUMONT, Rory	A46B 9/04
B28D 5/00	COURTNEY, Stephen	A46D 3/00
(11) EP4051047	BALLARATI, Maurizio	A46D 3/04
(21) EP20807288.4	HUGHES, Alexander	A61C 17/22
(47) 06.12.2023	COULTON, Robert	(11) EP3809917
(87) EP2020079670	IMHASLY, Nathan	(21) EP19742430.2
06.05.2021	(31) 201903958	(47) 06.12.2023
(22) 21.10.2020	(32) 22.03.2019	(87) FR2019051081
(54) DECORATIVE ELEMENT	(33) United Kingdom	28.11.2019

(22) 14.05.2019	SCHMIDT, Bernhard Josef	(72) TAN, Yepeng
(54) METHOD FOR MANUFACTURING A DENTAL BRUSHING PART, AND DENTAL BRUSHING PART	MÜHLE, Rebecca	(31) 201910017113
(73) Fasteesh	(31) 102019205055	(32) 08.01.2019
(72) CADOT, Christophe	(32) 09.04.2019	(33) China
COHEN, Benjamin	(33) Germany	(51) A47F 3/00
(31) 1854219	(51) A47B 88/40	A47F 5/00
(32) 22.05.2018	A47B 88/437	A47F 11/10
(33) France	A47B 88/447	F21V 1/00
(51) A46B 9/04	A47B 88/493	(11) EP3861892
A46D 1/00	(11) EP3981291	(21) EP20155454.0
(11) EP3876786	(21) EP20848830.4	(47) 06.12.2023
(21) EP18943232.1	(47) 06.12.2023	(22) 04.02.2020
(47) 06.12.2023	(87) CN2020134730	(54) LUMINAIRE FOR ILLUMINATING SHELVING AND SHELVING WITH A LUMINAIRE
(87) CN2018120838	03.03.2022	(73) Lumitech Patentverwertung GmbH
18.06.2020	(22) 09.12.2020	(72) Hoschopf, Hans-Christian
(22) 13.12.2018	(54) SLIDE RAIL ASSEMBLY AND CABINET COMPRISING THE SAME	Tasch, Stefan
(54) ORAL CARE IMPLEMENT	(73) Dongguan Dige Hardware Products Co., Ltd.	(51) A47G 9/10
(73) Colgate-Palmolive Company	(72) HE, Quanfang	(11) EP4039136
(72) XI, Wen Jin	(31) 202010866740	(21) EP22155030.4
ZHOU, Jiang	(32) 25.08.2020	(47) 06.12.2023
Ji, Yanmei	(33) China	(22) 03.02.2022
HOHLBEIN, Douglas	(51) A47B 97/00	(54) PILLOW CORE AND PILLOW CORE SYSTEM
XIE, Fangang	B60P 7/08	(73) Schwab, Helmut
(51) A46B 15/00	B60P 7/13	(72) Schwab, Helmut
A46B 9/04	B60P 7/135	(31) 202021100622 U
A46B 9/06	B61D 45/00	(32) 09.02.2021
A46D 1/00	B64D 9/00	(33) Germany
(11) EP3747309	F16M 13/02	(51) A47J 31/00
(21) EP19178404.0	(11) EP3681349	A47J 31/38
(47) 06.12.2023	(21) EP18857075.8	A47J 31/44
(22) 05.06.2019	(47) 06.12.2023	A47J 31/02
(54) HEAD FOR AN ORAL CARE IMPLEMENT AND ORAL CARE IMPLEMENT	(87) IB2018001142	(11) EP3745929
(73) The Procter & Gamble Company	21.03.2019	(21) EP19710455.7
(72) EBEN, Kerstin Sarina	(22) 12.09.2018	(47) 06.12.2023
(51) A46B 15/00	(54) FURNITURE SECURING DEVICE	(87) GB2019000017
A61N 1/05	(73) Elbee Pty Ltd.	08.08.2019
A61C 17/34	(72) MARSDEN, Andrew	(22) 01.02.2019
A61C 19/06	(31) 201762558853 P	(54) AN APPARATUS FOR MAKING A HOT BEVERAGE
A61C 3/025	(32) 14.09.2017	(73) Barista & Co Coffee Ltd
(11) EP4157035	(33) United States of America	(72) GRAY, James
(21) EP21726413.4	(51) A47C 3/03	(31) 201801626
(47) 06.12.2023	A47C 3/026	(32) 01.02.2018
(87) EP2021063408	A47C 9/00	(33) United Kingdom
02.12.2021	A47C 7/14	(51) A47J 31/40
(22) 20.05.2021	A47C 7/34	A47J 31/36
(54) ORAL CARE DEVICE AND METHOD	A47C 3/025	A47J 31/06
(73) Koninklijke Philips N.V.	(11) EP3639698	(11) EP3768127
(72) JOHNSON, Mark Thomas	(21) EP19204101.0	(21) EP19771421.5
GERHARDT, Lutz Christian	(47) 06.12.2023	(47) 06.12.2023
GOTTENBOS, Bart	(22) 18.10.2019	(87) US2019023707
(31) 20176970	(54) SEAT CARRIER FOR A CHAIR AND CHAIR WITH SUCH A SEAT CARRIER	26.09.2019
(32) 28.05.2020	(73) Vökle Bürosthühle GmbH	(22) 22.03.2019
(33) European Patent Office (EPO)	(72) Vökle, Rolf	(54) PUNCTURE MECHANISM FOR BEVERAGE MACHINE
(51) A46D 1/00	(31) 102018217954	(73) Bedford Systems LLC
A46B 3/04	(32) 19.10.2018	(72) MACLEAN, Timothy
(11) EP3952698	(33) Germany	NEVERS, Travis
(21) EP20713617.7	(51) A47D 13/06	O'NEILL, Charlie
(47) 06.12.2023	(11) EP3909473	COLLINGS, Hallam Arthur William
(87) EP2020057996	(21) EP20738240.9	WELLS, George William Arthur
15.10.2020	(47) 06.12.2023	STRATTON, Andrew James
(22) 23.03.2020	(87) CN2020070689	LAWSON, Benjamin Latham
(54) ORAL TREATMENT INSTRUMENT	16.07.2020	COVENEY, Daniel Luke
(73) M+C Schiffer GmbH	(22) 07.01.2020	(31) 201862646813 P
(72) HUNDENBORN, Maik	(54) CHILD PLAY ENCLOSURE FRAME	
	(73) Aspire Kunshan, Limited	

(32) 22.03.2018	(54) METHOD FOR INSERTING A HEATING FLEX IN A HEAT SINK	(47) 06.12.2023
(33) United States of America	(73) Texas De France	(22) 20.11.2018
(51) A47J 31/44	(72) VIENNET, Raphaël	(54) WET FLOORCARE ROBOT CLEANER TANK LATCH
(11) EP3799555	BLOUIN, Philippe	(73) iRobot Corporation
(21) EP20704310.0	(31) 1904122	(72) SUCHMAN, Jason Jeffrey
(47) 06.12.2023	(32) 17.04.2019	FARMER, William
(87) EP2020053972	(33) France	HSU, Johnson
25.02.2021	(51) A47K 10/22	(31) 201815863086
(22) 14.02.2020	A47K 10/38	(32) 05.01.2018
(54) MILK TRANSPORT DEVICE FOR A COFFEE MACHINE AND CORRESPONDING METHOD	(11) EP4245200	(33) United States of America
(73) JURA Elektroapparate AG	(21) EP22166439.4	(51) A47L 15/50
(72) SANDRO, Klepzig	(47) 06.12.2023	(11) EP4085816
(31) 19193186	(22) 04.04.2022	(21) EP22168066.3
(32) 22.08.2019	(54) REUSABLE FIXED TISSUE HOLDER	(47) 06.12.2023
(33) European Patent Office (EPO)	(73) Tongxiang Cochlea Supply Chain Management Co., Ltd.	(22) 13.04.2022
(51) A47J 31/52	(72) Lu, Xiangyu	(54) SPRAY GUARD, DETERGENT HOLDER AND DOMESTIC DISHWASHER
A47J 42/40	(31) 202210262588	(73) BSH Hausgeräte GmbH
(11) EP3833228	(32) 17.03.2022	(72) Heinle, Martin
(21) EP20808183.6	(33) China	Racs, Florian
(47) 06.12.2023	(51) A47K 10/42	Miller, Daniel
(87) IB2020059498	(11) EP4044890	Steck, Thomas
15.04.2021	(21) EP19808637.3	Friedke, Aaron
(22) 09.10.2020	(47) 06.12.2023	(31) 102021204541
(54) ARRANGEMENT COMPRISING AN ESPRESSO COFFEE MACHINE AND A COFFEE GRINDER	(87) IB2019058766	(32) 05.05.2021
(73) Rancilio Group S.p.A.	22.04.2021	(33) Germany
(72) RAIMONDI, Stefano	(22) 15.10.2019	(51) A61B 1/00
LOCATI, Valerio	(54) A DISPENSER FOR CELLULOSE PRODUCTS IN SHEET FORM	(11) EP3409184
(31) 201900018605	(73) Sofidel S.p.A.	(21) EP18171530.1
(32) 11.10.2019	(72) LAZZARESCI, Luigi	(47) 06.12.2023
(33) Italy	(51) A47L 5/36	(22) 09.05.2018
(51) A47K 4/00	A47L 9/00	(54) ENDOSCOPE CONTROL DEVICE, ENDOSCOPE MAINTENANCE SUPPORT METHOD, AND ENDOSCOPE MAINTENANCE SUPPORT PROGRAM
B60R 15/04	A47L 9/28	(73) FUJIFILM Corporation
B63B 29/14	(11) EP3895590	(72) TAKAHIRA, Masayuki
B64D 11/02	(21) EP21173270.6	KAWAMURA, Noriko
E04B 1/344	(47) 06.12.2023	SUZUKI, Issei
E04B 2/74	(22) 27.02.2017	(31) 2017108461
E04H 1/12	(54) VACUUM CLEANER	(32) 31.05.2017
(11) EP3873311	(73) LG Electronics Inc.	(33) Japan
(21) EP19877661.9	(72) Son, Jungkyu	(51) A61B 1/00
(47) 06.12.2023	Nam, Bohyun	A61B 1/015
(87) US2019058499	Park, Jaeyong	A61B 1/12
07.05.2020	Bae, Sehwan	(11) EP3672470
(22) 29.10.2019	Seo, Jonghyun	(21) EP18848761.5
(54) AFT COMPLEX WITH PRM LAVATORY	Lee, Jinwoo	(47) 06.12.2023
(73) Safran Cabin Inc.	Kwak, Donghoon	(87) US2018047977
(72) SCOLEY, Ian Geoffrey	Ko, Jaehwan	28.02.2019
SHETTY, Sandesh	(31) 20170001590	(22) 24.08.2018
SAVIAN, Scott	20160184117	(54) APPARATUS FOR IMPROVED VISUALIZATION FOR ENDOSCOPIC PROCEDURES
(31) 201862752998 P	20160108676	(73) Erbe-USA, Inc.
(32) 30.10.2018	20160062452	(72) MAURICE, Daniel G.
(33) United States of America	20160024022	(31) 201762549698 P
(51) A47K 10/06	(32) 04.01.2017	(32) 24.08.2017
F24H 3/00	30.12.2016	(33) United States of America
F24H 9/18	25.08.2016	(51) A61B 1/00
H05B 3/44	20.05.2016	A61B 1/045
H05B 3/48	29.02.2016	A61B 1/06
H05B 3/56	(33) Korea (Republic)	H04N 23/50
B29C 65/56	Korea (Republic)	H04N 23/56
B29C 65/00	Korea (Republic)	H04N 23/73
F24D 13/02	Korea (Republic)	H04N 23/74
(11) EP3725200	(51) A47L 11/40	
(21) EP20170130.7	A47L 13/20	
(47) 06.12.2023	(11) EP3508105	
(22) 17.04.2020	(21) EP18207141.5	

H04N 25/531	(31) 201514974422	(31) 201762571787 P
(11) EP3714760	(32) 18.12.2015	(32) 12.10.2017
(21) EP20161269.4	(33) United States of America	(33) United States of America
(47) 06.12.2023	(51) A61B 1/018	(51) A61B 5/00
(22) 05.03.2020	A61B 1/015	(11) EP3659537
(54) SYSTEM AND METHOD	A61B 1/00	(21) EP19201983.4
FOR PRIORITIZING THE	(11) EP3607868	(47) 06.12.2023
SYNCHRONIZATION OF A LIGHT	(21) EP19184446.3	(22) 24.08.2012
SOURCE WITH IMAGE SENSOR	(47) 06.12.2023	(54) SYSTEM FOR LOCATING AND
(73) Karl Storz Imaging, Inc.	(22) 04.07.2019	IDENTIFYING FUNCTIONAL NERVES
(72) Molieri, Eduardo M.	(54) COMBINATION OF AN ENDOSCOPE	INNERVATING WALL OF ARTERIES
(31) 201916368514	AND AN ENDOSCOPE AID	(73) SYMAP MEDICAL (SUZHOU) LTD
(32) 28.03.2019	(73) FUJIFILM Corporation	(72) WANG, Jie
(33) United States of America	(72) UEDA, Yoshihiro	(31) 201261609565 P
(51) A61B 1/00	(31) 2018148831	201161527893 P
A61B 1/05	(32) 07.08.2018	(32) 12.03.2012
A61B 46/13	(33) Japan	26.08.2011
(11) EP3903659	(51) A61B 1/24	(33) United States of America
(21) EP20172198.2	(11) EP3410919	United States of America
(47) 06.12.2023	(21) EP17748093.6	(51) A61B 5/00
(22) 29.04.2020	(47) 06.12.2023	(11) EP3492000
(54) STERILE COVER FOR A MEDICAL	(87) US2017016088	(21) EP18202226.9
IMAGING DEVICE AND STERILE	10.08.2017	(47) 06.12.2023
MEDICAL IMAGING SYSTEM	(22) 01.02.2017	(22) 24.10.2018
(73) BHS Technologies GmbH	(54) DENTAL IMAGER AND METHOD	(54) ELECTRONIC DEVICE FOR
(72) CAPELLI, Mark	FOR RECORDING PHOTOGRAPHIC	MEASURING HYDRATION USING
SANTEK, Michael	IMPRESSIONS	DISPLAY AND METHOD FOR
(51) A61B 1/00	(73) Martin, Marco	OPERATING THE SAME
A61B 5/01	(72) Martin, Marco	(73) Samsung Electronics Co., Ltd.
A61B 5/1491	(31) 201662289504 P	(72) PARK, Sangil
A61B 5/00	(32) 01.02.2016	MUN, Gitae
A61B 18/04	(33) United States of America	SEO, Jinwoo
(11) EP4104746	(51) A61B 3/10	LEE, Yongjin
(21) EP22178300.4	A61B 3/00	(31) 20170162071
(47) 06.12.2023	(11) EP3007610	(32) 29.11.2017
(22) 08.12.2017	(21) EP14731185.6	(33) Korea (Republic)
(54) SYSTEM AND METHOD FOR	(47) 06.12.2023	(51) A61B 5/00
DISTRIBUTED HEAT FLUX SENSING	(87) EP2014061933	A61B 5/02
OF BODY TISSUE	18.12.2014	A61B 5/087
(73) Intuitive Surgical Operations, Inc.	(22) 09.06.2014	A61B 5/026
(72) SANBORN, Eric E.	(54) METHOD FOR DETERMINING WAVE-	A61B 5/024
FROGGATT, Mark E.	FRONT ABERRATION DATA OF A TO-	A61B 5/0205
SORGER, Jonathan M.	BE-TESTED OPTICAL SYSTEM	(11) EP3752047
(31) 201662432452 P	(73) Essilor International	(21) EP19704335.9
(32) 09.12.2016	(72) HERNANDEZ CASTANEDAS, Martha	(47) 06.12.2023
(33) United States of America	MARIN, Gildas	(87) EP2019053586
(51) A61B 1/00	THIBOS, Larry	22.08.2019
A61B 90/30	LIU, Tao	(22) 13.02.2019
F21V 8/00	(31) 13305781	(54) USE OF APPARATUS FOR THE
G02B 6/24	(32) 10.06.2013	CARDIOVASCULAR ASSESSMENT OF
G02B 6/26	(33) European Patent Office (EPO)	A SUBJECT IN NEED THEREOF
A61B 90/00	(51) A61B 3/10	(73) Consorcio Centro de Investigación
A61B 1/07	A61B 5/00	Biomédica en Red
A61F 9/007	G01B 9/02	Asociación Centro de Investigación
(11) EP3368821	(11) EP3694392	Cooperativa en Biomateriales - CIC
(21) EP16819185.6	(21) EP18866648.1	biomaGUNE
(47) 06.12.2023	(47) 06.12.2023	Fundación Instituto Investigación
(87) IB2016057670	(87) US2018055585	Sanitaria Fundación Jiménez Díaz
22.06.2017	18.04.2019	(72) SANTOS OVIEDO, Arnoldo de Jesús
(22) 15.12.2016	(22) 12.10.2018	RUIZ-CABELLO OSUNA, Jesús María
(54) METHOD OF MAKING DIVERGING-	(54) SYSTEM FOR MULTIPLE REFERENCE	(31) 18382080
LIGHT FIBER OPTICS ILLUMINATION	ARM SPECTRAL DOMAIN OPTICAL	(32) 13.02.2018
DELIVERY SYSTEM	COHERENCE TOMOGRAPHY	(33) European Patent Office (EPO)
(73) Alcon Inc.	(73) The General Hospital Corporation	(51) A61B 5/00
(72) MIRSEPASSI, Alireza	(72) TEARNEY, Guillermo, J.	A61B 5/02
SMITH, Ronald T.	VERMA, Yogesh	A61B 8/06
PAPAC, Michael J.	OTUYA, David, Odeke	A61F 2/01
DIAO, Chenguang	LUU, Romain	A61F 2/82

	VENUGOPAL, Vivek	European Patent Office (EPO)
A61F 2/86		(51) A61B 5/00
A61F 2/89	(31) 201662334363 P	A61F 2/16
A61F 2/90	(32) 10.05.2016	A61B 3/16
(11) EP4052638	(33) United States of America	A61N 1/40
(21) EP22169478.9	(51) A61B 5/00	(11) EP3661411
(47) 06.12.2023	A61B 5/103	(21) EP18840215.0
(22) 14.12.2017	G01R 33/20	(47) 06.12.2023
(54) CEREBRAL BLOOD FLOW REORGANIZATION	G06T 7/00	(87) US2018045430
(73) The Regents of the University of California	A61B 5/243	07.02.2019
(72) AMANS, Matthew	(11) EP3664697	(22) 06.08.2018
(31) 201662434116 P	(21) EP18844754.4	(54) MULTI-COIL WIRELESS POWER TRANSFER ASSEMBLY FOR WIRELESS GLAUCOMA THERAPY
(32) 14.12.2016	(47) 06.12.2023	(73) Purdue Research Foundation
(33) United States of America	(87) US2018046055	(72) IRAZOQUI, Pedro P.
(51) A61B 5/00	14.02.2019	SIMON, Gabriel
A61B 5/024	(22) 09.08.2018	ALBORS, Gabriel
A61B 5/0245	(54) BIOMAGNETIC DETECTION	WILLIAMS, Jack
A61B 5/08	(73) Genetesis, Inc.	YUAN, Quan
A61B 5/11	(72) ERASALA, Vineet	WANG, Zhi
A61B 5/113	VON STEIN, Jon	SLAUBAUGH, Curtis
(11) EP3474732	SEDLAK, Tatiana	(31) 201762541218 P
(21) EP17746368.4	PRINCE, Julia	(32) 04.08.2017
(47) 06.12.2023	(31) 201715673067	(33) United States of America
(87) CZ2017000041	(32) 09.08.2017	
28.12.2017	(33) United States of America	(51) A61B 5/02
(22) 22.06.2017	(51) A61B 5/00	A61B 5/00
(54) DEVICE FOR MONITORING PATIENT'S VITAL FUNCTIONS COMPRISING A PIEZOELECTRIC TRANSDUCER AND A MEASURING CAPACITOR	A61B 18/04	G09B 23/30
(73) Linet Spol. S.R.O.	A61B 18/18	(11) EP3773180
(72) KOLÁR, Vladimír	A61B 5/053	(21) EP19784551.4
(31) 20160366	A61B 18/14	(47) 06.12.2023
(32) 22.06.2016	A61B 18/00	(87) US2019027003
(33) Czech Republic	A61B 17/00	17.10.2019
(51) A61B 5/00	A61B 5/0295	(22) 11.04.2019
A61B 5/024	(11) EP2494917	(54) ASSESSMENT OF CORONARY FUNCTION VIA ADVANCED 3D PRINTED MODELS
A61B 5/11	(21) EP12157891.8	(73) Cornell University
(11) EP3685735	(47) 06.12.2023	(72) MIN, James K.
(21) EP17924788.7	(22) 02.03.2012	DUNHAM, Simon
(47) 06.12.2023	(54) Systems for identifying tissue and vessels	MOSADEGH, Bobak
(87) KR2017011892	(73) Covidien LP	KOLLI, Kranthi Kumar
21.03.2019	(72) Chernov, Boris	(31) 201862656285 P
(22) 26.10.2017	Misuchenko, Igoris	(32) 11.04.2018
(54) DEVICE FOR PREDICTING THYROTOXICOSIS	Martsinovskiy, Georgy	(33) United States of America
(73) Thyroscope Inc.	Verbitsky, Mikhail	(51) A61B 5/02
(72) MOON, Jaehoon	(31) 201113040347	A61B 5/021
(31) 20170119326	(32) 04.03.2011	A61B 5/0215
(32) 18.09.2017	(33) United States of America	A61B 5/1495
(33) Korea (Republic)	(51) A61B 5/00	A61B 5/00
(51) A61B 5/00	A61B 34/20	(11) EP3701859
A61B 5/024	G02B 27/01	(21) EP20159501.4
A61B 5/1455	A61B 90/00	(47) 06.12.2023
(11) EP3454724	A61B 90/50	(22) 26.02.2020
(21) EP17725418.2	A61B 34/10	(54) APPARATUS AND METHOD FOR ESTIMATING BIO-INFORMATION
(47) 06.12.2023	(11) EP3443924	(73) Samsung Electronics Co., Ltd.
(87) US2017032028	(21) EP17206558.3	(72) PARK, Chang Soon
16.11.2017	(47) 06.12.2023	KWON, Ui Kun
(22) 10.05.2017	(22) 12.12.2017	YOON, Seung Keun
(54) SYSTEMS AND METHODS FOR NON-PULSATILE BLOOD VOLUME MEASUREMENTS	(54) A GRAPHICAL USER INTERFACE FOR USE IN A SURGICAL NAVIGATION SYSTEM WITH A ROBOT ARM	(31) 20190024070
(73) Apple Inc.	(73) Holo Surgical Inc.	(32) 28.02.2019
(72) ALLEC, Nicholas, Paul Joseph	(72) Siemionow, Krzysztof B.	(33) Korea (Republic)
PETERSON, Rui	Luciano, Cristian J.	
BLOCK, Ueyn, L.	Mejia Orozco, Edwing Isaac	(51) A61B 5/02
	(31) 17201224	A61B 5/024
	17186307	A61B 5/11
	(32) 11.11.2017	A61B 7/00
	15.08.2017	A61B 8/02
	(33) European Patent Office (EPO)	

A61B 8/06	(32) 10.05.2017	(72) LEE, Gae Hwang
A61N 1/37	(33) United States of America	KANG, Hyun Bum
(11) EP3675717	(51) A61B 5/0215	CHUNG, Jong Won
(21) EP18851186.9	A61B 5/022	YUN, Youngjun
(47) 06.12.2023	A61B 5/00	LEE, Yeongjun
(87) US2018046378	A61B 34/30	(31) 20200068623
07.03.2019	A61B 5/107	(32) 05.06.2020
(22) 10.08.2018	A61B 5/11	(33) Korea (Republic)
(54) MULTISENSOR CARDIAC FUNCTION MONITORING AND ANALYTICS SYSTEMS	A61B 34/00	(51) A61B 5/055
(73) The Regents of the University of California	(11) EP3769672	A61B 5/00
(72) KAISER, William	(21) EP20187314.8	(11) EP3248543
BORGSTROM, Nils Peter	(47) 06.12.2023	(21) EP16171060.3
BORGSTROM, Per Henrik	(22) 23.07.2020	(47) 06.12.2023
MAHAJAN, Aman	(54) SYSTEMS FOR MONITORING BLOOD PRESSURE WITH A POWERED LINEAR DRIVE	(22) 24.05.2016
(31) 201762552864 P	(73) Covidien LP	(54) APPARATUS AND METHOD FOR VISUALIZING TISSUE MACRO- AND MICROSTRUCTURE FOR PATHOLOGY EVALUATION IN MAGNETIC RESONANCE IMAGING
(32) 31.08.2017	(72) WILLIAMS, Justin	(73) Siemens Healthcare GmbH
(33) United States of America	(31) 202016890259	Centre Hospitalier Universitaire Vaudois
(51) A61B 5/02	201962878816 P	(72) BONNIER, Guillaume
A61B 5/145	(32) 02.06.2020	GRANZIERA, Cristina
G06T 7/136	26.07.2019	KRÜGER, Gunnar
G06V 40/10	(33) United States of America	KOBER, Tobias
A61B 5/00	United States of America	
(11) EP3697294	(51) A61B 5/0235	(51) A61B 5/06
(21) EP18867626.6	(11) EP3456255	A61B 5/00
(47) 06.12.2023	(21) EP17795836.0	A61B 34/20
(87) US2018056100	(47) 06.12.2023	A61B 1/00
25.04.2019	(87) JP2017011579	A61B 1/04
(22) 16.10.2018	16.11.2017	A61B 1/06
(54) SYSTEM AND METHOD FOR NON-INVASIVE HEMATOLOGICAL MEASUREMENTS	(22) 23.03.2017	A61B 1/005
(73) Massachusetts Institute Of Technology	(54) VALVE, FLUID CONTROL DEVICE, AND BLOOD-PRESSURE MONITOR	(11) EP3056145
Universidad Politécnica de Madrid	(73) Murata Manufacturing Co., Ltd.	(21) EP16163497.7
(72) CASTRO-GONZALES, Carlos	(72) KAWAMURA Kenichiro	(47) 06.12.2023
BUTTERWORTH, Ian	(31) 2016093612	(22) 18.12.2014
BOURQUARD, Aurelien	(32) 09.05.2016	(54) METHOD FOR DETERMINING A POSITION AND AN ORIENTATION OF AN ENDOSCOPE WITHIN A CAVITY
SANCHEZ-FERRO, Alvaro	(33) Japan	(73) Karl Storz SE & Co. KG
TUCKER-SCHWARTZ, Jason	(51) A61B 5/024	(72) Schwarz, Peter
PABLO-TRINIDAD, Alberto	A61B 5/08	Irion, Klaus M.
LEDMESMA-CARBAYO, Maria, J.	A61B 5/1455	Fallert, Johannes
VETTENBURG, Tom	A61B 5/00	Lowag, Florus
(31) 201762572738 P	(11) EP3986265	
(32) 16.10.2017	(21) EP20736882.0	(51) A61B 5/08
(33) United States of America	(47) 06.12.2023	(11) EP3184045
(51) A61B 5/0205	(87) US2020038309	(21) EP16196049.7
A61B 5/024	24.12.2020	(47) 06.12.2023
A61B 5/08	(22) 18.06.2020	(22) 19.11.2009
G16H 50/20	(54) SLEEP STAGING USING AN IN-EAR PHOTOPLETHYSMOGRAPHY (PPG)	(54) SYSTEM TREATING SLEEP DISORDERED BREATHING
A61B 7/00	(73) Drowsy Digital, Inc.	(73) Inspire Medical Systems, Inc.
A61B 7/04	(72) AYERS, Tegan M.	(72) CHRISTOPHERSON, Mark A.
G16H 40/63	PAETSCH, Christopher R.	NI, Quan
G16H 50/30	TROTT, Christian A.	HERBERT, Timothy P.
(11) EP3634218	HETHERMAN, Brian J.	RONDONI, John
(21) EP18798090.9	HICKS, Matthew Ryan	(31) 116149 P
(47) 06.12.2023	(31) 201916445464	(32) 19.11.2008
(87) CA2018050453	(32) 19.06.2019	(33) United States of America
15.11.2018	(33) United States of America	
(22) 13.04.2018	(51) A61B 5/024	(51) A61B 5/087
(54) SYSTEM FOR DETERMINING CARDIAC RHYTHM AND/OR RESPIRATORY	A61B 5/1455	A61N 1/36
(73) Ecole de Technologie Supérieure	(11) EP3918981	A61N 1/04
(72) MARTIN, Alexis	(21) EP20205327.8	A61B 5/01
VOIX, Jérémie	(47) 06.12.2023	A61B 5/024
(31) 201762504258 P	(22) 03.11.2020	A61B 5/11
	(54) BIOSENSOR AND BIOSENSOR ARRAY AND DEVICE	A61B 5/1455
	(73) Samsung Electronics Co., Ltd.	A61B 7/00
		(11) EP3685744

(21) EP17921206.3	(51) A61B 5/145	G16B 20/20
(47) 06.12.2023	A61B 5/00	G16B 20/50
(87) ES2017070574	G05B 13/04	G16H 10/40
14.02.2019	(11) EP3970611	G16H 50/20
(22) 09.08.2017	(21) EP21203483.9	(11) EP3288455
(54) SYSTEM FOR DETECTING EPISODES OF APNOEA AND/OR HYPOPNEA	(47) 06.12.2023	(21) EP16789867.5
(73) Torytrans, S.L	(22) 03.05.2018	(47) 06.12.2023
(72) FERNÁNDEZ RONDÁN, Baldomero	(54) CLOSED LOOP CONTROL OF PHYSIOLOGICAL GLUCOSE	(87) US2016030301
MONTERO BLASCO, Víctor Javier	(73) Ypsomed AG	10.11.2016
(51) A61B 5/11	(72) HAIDAR, Ahmad Mohamad	(22) 29.04.2016
A61M 21/00	(31) 201762536541 P	(54) DIAGNOSTIC METHODS
G01P 7/00	201762501976 P	(73) Guardant Health, Inc.
A61B 5/00	(32) 25.07.2017	(72) ELTOUKHY, Helmy
(11) EP3337401	05.05.2017	TALASAZ, Amirali
(21) EP16837783.6	(33) United States of America	(31) 201562155755 P
(47) 06.12.2023	United States of America	(32) 01.05.2015
(87) US2016047426	(51) A61B 5/145	(33) United States of America
23.02.2017	A61B 5/1486	(51) A61B 5/1455
(22) 17.08.2016	(11) EP4007526	A61B 5/0205
(54) METHOD AND SYSTEM FOR ADJUSTING AUDIO SIGNALS BASED ON MOTION DEVIATION	(21) EP20761927.1	A61B 5/083
(73) University of Miami	(47) 06.12.2023	G16H 50/20
(72) BENNETT, Christopher	(87) US2020043971	A61B 5/00
GAILEY, Robert	04.02.2021	A61B 5/18
AGRAWAL, Vibhor	(22) 29.07.2020	A61B 5/16
LEIDER, Colby	(54) MICRO-PILLAR WORKING ELECTRODES DESIGN TO REDUCE BACKFLOW OF HYDROGEN	A61B 5/145
(31) 201562206575 P	PEROXIDE IN GLUCOSE SENSOR	(11) EP3790467
(32) 18.08.2015	(73) Medtronic MiniMed, Inc.	(21) EP19799916.2
(33) United States of America	(72) SUN, Zhenzhong	(47) 06.12.2023
(51) A61B 5/145	HENG, Xin	(87) CA2019050637
(11) EP3685745	KONG, Rui	14.11.2019
(21) EP19153041.9	(31) 201916528813	(22) 10.05.2019
(47) 06.12.2023	(32) 01.08.2019	(54) ABNORMAL BLOOD OXYGENATION LEVEL MONITORING SYSTEM AND SELF-MONITORING OXYGENATION SYSTEM
(22) 22.01.2019	(33) United States of America	(73) Spectronix Inc.
(54) AN APPARATUS FOR SENSING BIOMETRIC PARAMETERS	(51) A61B 5/145	(72) ASSOUAD, Patrick
(73) Nokia Technologies Oy	A61B 5/157	(31) 201862670291 P
(72) Agarwal, Akshat	H04B 7/24	(32) 11.05.2018
O'Connell, Diarmuid	(11) EP3632308	(33) United States of America
(51) A61B 5/145	(21) EP19195113.6	(51) A61B 5/1468
A61B 5/00	(47) 06.12.2023	(11) EP3838147
A61B 5/11	(22) 28.09.2011	(21) EP21151736.2
A61B 5/1486	(54) ADVANCED CONTINUOUS ANALYTE MONITORING SYSTEM	(47) 06.12.2023
G16H 40/60	(73) Dexcom, Inc.	(22) 26.06.2013
G16H 10/40	(72) Bohm, Sebastian	(54) SENSOR ELEMENT FOR DETECTING AN ANALYTE IN A BODY FLUID
G16H 10/60	Dervaes, Mark	(73) Roche Diabetes Care GmbH
G16H 40/67	Johnson, Eric	(72) ACHMANN, Sabine
H04L 69/18	Kamath, Apurv Ullas	KOTZAN, Holger
(11) EP4088658	Larvenz, Shawn	MÜLLER, Ulrich
(21) EP22168134.9	Leach, Jacob S.	STRASSER, Monika
(47) 06.12.2023	Lieu, Phong	WIEDER, Herbert
(22) 28.03.2017	Mahalingam, Aarthi	(31) 12174251
(54) SYSTEMS AND METHODS FOR DISPLAY DEVICE AND SENSOR ELECTRONICS UNIT COMMUNICATION	Miller, Tom	(32) 29.06.2012
(73) DexCom, Inc.	Neale, Paul V.	(33) European Patent Office (EPO)
(72) Wedekind, Jeffrey R.	Pryor, Jack	(51) A61B 5/1473
Burnette, Douglas William	Peyser, Thomas A.	A61B 5/145
Mandapaka, Aditya	Rong, Daiting	A61B 5/00
McDaniel, Zebediah L.	San Vicente, Ken	(11) EP3681396
Simpson, Peter C.	Shariati, Mohammad Ali	(21) EP18856567.5
Garcia, Arturo	Simpson, Peter C.	(47) 06.12.2023
(31) 201662315976 P	Wightlin, Matthew	(87) US2018044710
(32) 31.03.2016	(31) 38779310 P	21.03.2019
(33) United States of America	(32) 29.09.2010	(22) 31.07.2018
	(33) United States of America	(54) INVASIVE BIOSENSOR ALIGNMENT AND RETENTION
	(51) A61B 5/145	(73) Dexcom, Inc.
	G16B 20/10	

(72) LIN, Arthur WANG, Xianyan KO, Pey-Jiun	(73) Koh Young Technology Inc. (72) ROH, Young Jun SHIN, Min Sik	SONG, Pengfei (31) 201462072167 P (32) 29.10.2014 (33) United States of America
(31) 201715703087 (32) 13.09.2017 (33) United States of America	KANG, Sung Hoon OH, Tae Seok (31) 201962866967 P (32) 26.06.2019 (33) United States of America	(31) 201462072167 P (32) 29.10.2014 (33) United States of America
(51) A61B 5/352 A61B 5/0245	(31) 201962866967 P (32) 26.06.2019 (33) United States of America	(51) A61B 8/00 A61B 8/08 (11) EP3537981 (21) EP17868877.6 (47) 06.12.2023 (87) US2017059123 17.05.2018 (22) 30.10.2017 (54) ULTRASOUND SYSTEM FOR ENHANCED INSTRUMENT VISUALIZATION
(11) EP3875025 (21) EP19880328.0 (47) 06.12.2023 (87) JP2019041644 07.05.2020 (22) 24.10.2019 (54) HEART RATE DETECTION METHOD, HEART RATE DETECTION DEVICE AND PROGRAM	(51) A61B 6/03 A61B 6/00 G06T 5/00 G06T 11/00 G06N 3/02 (11) EP3700425 (21) EP18789081.9 (47) 06.12.2023 (87) EP2018078126 02.05.2019 (22) 16.10.2018 (54) POSITRON EMISSION TOMOGRAPHY (PET) SYSTEM DESIGN OPTIMIZATION USING DEEP IMAGING	(11) EP3537981 (21) EP17868877.6 (47) 06.12.2023 (87) US2017059123 17.05.2018 (22) 30.10.2017 (54) ULTRASOUND SYSTEM FOR ENHANCED INSTRUMENT VISUALIZATION (73) Fujifilm Sonosite, Inc. (72) KARADAYI, Kerem (31) 201615347697 (32) 09.11.2016 (33) United States of America
(73) NIPPON TELEGRAPH AND TELEPHONE CORPORATION (72) HASHIMOTO, Yuki KUWABARA, Kei MATSUURA, Nobuaki	(22) 16.10.2018 (54) POSITRON EMISSION TOMOGRAPHY (PET) SYSTEM DESIGN OPTIMIZATION USING DEEP IMAGING	(31) 201615347697 (32) 09.11.2016 (33) United States of America
(31) 2018203544 (32) 30.10.2018 (33) Japan	(73) Koninklijke Philips N.V. (72) BAI, Chuanyong ZHU, Yang-Ming ANDREYEV, Andriy ZHANG, Bin TUNG, Chi-Hua	(51) A61B 8/04 A61B 8/06 A61B 8/08 A61B 5/02 (11) EP3954299 (21) EP20190939.7 (47) 06.12.2023 (22) 13.08.2020 (54) METHOD FOR DETERMINING LOAD- INDEPENDENT CONTRACTILITY
(51) A61B 6/00 (11) EP3643239 (21) EP19161868.5 (47) 06.12.2023 (22) 11.03.2019 (54) METHOD AND SYSTEM FOR CONTROLLING AN X-RAY PROJECTION IMAGING DEVICE	(31) 201762575547 P (32) 23.10.2017 (33) United States of America (51) A61B 6/04 A61B 6/00 B65B 53/02 (11) EP3868302 (21) EP21168311.5 (47) 06.12.2023 (22) 25.09.2017 (54) IMAGING WITH CURVED COMPRESSION ELEMENTS	(51) A61B 8/04 A61B 8/06 A61B 8/08 A61B 5/02 (11) EP3954299 (21) EP20190939.7 (47) 06.12.2023 (22) 13.08.2020 (54) METHOD FOR DETERMINING LOAD- INDEPENDENT CONTRACTILITY (73) Justus-Liebig-Universität Gießen (72) Tello, Khodr Gall, Henning Ghofrani, Ardeschir Seeger, Werner
(73) Siemens Healthcare GmbH (72) Beister, Marcel Bock, Rüdiger Geiger, Bernhard Jedinger, Sandra	(31) 201762575547 P (32) 23.10.2017 (33) United States of America (51) A61B 6/04 A61B 6/00 B65B 53/02 (11) EP3868302 (21) EP21168311.5 (47) 06.12.2023 (22) 25.09.2017 (54) IMAGING WITH CURVED COMPRESSION ELEMENTS	(73) Justus-Liebig-Universität Gießen (72) Tello, Khodr Gall, Henning Ghofrani, Ardeschir Seeger, Werner
(31) 18201824 (32) 22.10.2018 (33) European Patent Office (EPO)	(73) Hologic, Inc. (72) CHEN, Biao STANGO, Timothy R. STEIN, Jay A. RUTH, Christopher	(51) A61B 8/08 A61B 5/00 A61B 5/0205 A61B 5/1455 A61B 5/282 A61B 5/316 A61B 5/332 A61B 5/333 A61B 5/339 (11) EP3691535 (21) EP18864249.0 (47) 06.12.2023 (87) US2018054019 11.04.2019 (22) 02.10.2018 (54) SYSTEM AND METHOD FOR FUSING ULTRASOUND WITH ADDITIONAL SIGNALS
(51) A61B 6/00 G06T 17/00 G09B 23/28 A61B 6/02	(72) CHEN, Biao STANGO, Timothy R. STEIN, Jay A. RUTH, Christopher	(51) A61B 8/08 A61B 5/00 A61B 5/0205 A61B 5/1455 A61B 5/282 A61B 5/316 A61B 5/332 A61B 5/333 A61B 5/339 (11) EP3691535 (21) EP18864249.0 (47) 06.12.2023 (87) US2018054019 11.04.2019 (22) 02.10.2018 (54) SYSTEM AND METHOD FOR FUSING ULTRASOUND WITH ADDITIONAL SIGNALS
(11) EP3648671 (21) EP17758269.9 (47) 06.12.2023 (87) IB2017000986 10.01.2019 (22) 04.07.2017 (54) METHOD OF RADIOGRAPHY OF AN ORGAN OF A PATIENT	(31) 201762531807 P 201662419336 P (32) 12.07.2017 08.11.2016 (33) United States of America United States of America (51) A61B 8/00 A61B 8/08 (11) EP3215018 (21) EP15855110.1 (47) 06.12.2023 (87) US2015057825 06.05.2016 (22) 28.10.2015 (54) METHOD FOR ULTRASOUND ELASTOGRAPHY THROUGH CONTINUOUS VIBRATION OF AN ULTRASOUND TRANSDUCER	(51) A61B 8/08 A61B 5/00 A61B 5/0205 A61B 5/1455 A61B 5/282 A61B 5/316 A61B 5/332 A61B 5/333 A61B 5/339 (11) EP3691535 (21) EP18864249.0 (47) 06.12.2023 (87) US2018054019 11.04.2019 (22) 02.10.2018 (54) SYSTEM AND METHOD FOR FUSING ULTRASOUND WITH ADDITIONAL SIGNALS
(73) EOS Imaging (72) DESAUTE, Pascal METZ, Camille	(31) 201762531807 P 201662419336 P (32) 12.07.2017 08.11.2016 (33) United States of America United States of America (51) A61B 8/00 A61B 8/08 (11) EP3215018 (21) EP15855110.1 (47) 06.12.2023 (87) US2015057825 06.05.2016 (22) 28.10.2015 (54) METHOD FOR ULTRASOUND ELASTOGRAPHY THROUGH CONTINUOUS VIBRATION OF AN ULTRASOUND TRANSDUCER	(73) Echonous, Inc. (72) PAGOULATOS, Nikolaos PAILOOR, Ramachandra NIEMINEN, Greg DOHERTY, Terry BROAD, Ron BRUNKE, Shelby (31) 201815969632 201762568709 P (32) 02.05.2018 05.10.2017 (33) United States of America United States of America
(51) A61B 6/03 A61B 6/00	(87) US2015057825 06.05.2016 (22) 28.10.2015 (54) METHOD FOR ULTRASOUND ELASTOGRAPHY THROUGH CONTINUOUS VIBRATION OF AN ULTRASOUND TRANSDUCER	(73) Echonous, Inc. (72) PAGOULATOS, Nikolaos PAILOOR, Ramachandra NIEMINEN, Greg DOHERTY, Terry BROAD, Ron BRUNKE, Shelby (31) 201815969632 201762568709 P (32) 02.05.2018 05.10.2017 (33) United States of America United States of America
(11) EP3991661 (21) EP20831813.9 (47) 06.12.2023 (87) KR2020008416 30.12.2020 (22) 26.06.2020 (54) COMPUTED TOMOGRAPHY APPARATUS USING PLURALITY OF LIGHT SOURCES AND COMPUTED TOMOGRAPHY METHOD	(73) Mayo Foundation for Medical Education and Research (72) CHEN, Shigao GREENLEAF, James, F. MELLEMA, Daniel, C.	(51) A61B 8/14 A61B 8/06

(11) EP3700430	(87) US2017058163	(11) EP3917410
(21) EP18789093.4	03.05.2018	(21) EP20708960.8
(47) 06.12.2023	(22) 24.10.2017	(47) 06.12.2023
(87) EP2018078203	(54) ASPIRATION DEVICE	(87) US2020016103
02.05.2019	(73) Yale University	06.08.2020
(22) 16.10.2018	(72) BROWN, James Elliott	(22) 31.01.2020
(54) ULTRASOUND PROBE TRANSDUCER TESTING	THOMSON, Blake	(54) SUTURE DELIVERY WITH ASYNCHRONOUS NEEDLE CAPTURE
(73) Koninklijke Philips N.V.	XAVIER-FERRUCIO, Juliana	(73) Terumo Medical Corporation
(72) CAO, Ji	KRAUSE, Diane	(72) JUAN, Chun-Chia
LAMBERT, Patrick	HALENE, Stephanie	WENG, Yu-Shih
POTTS, Mark	(31) 201762504090 P	(31) 201916263569
(31) 201762575562 P	201662411780 P	(32) 31.01.2019
(32) 23.10.2017	(32) 10.05.2017	(33) United States of America
(33) United States of America	24.10.2016	<hr/>
(51) A61B 10/00	(33) United States of America	(51) A61B 17/04
A61B 10/02	United States of America	A61F 2/24
(11) EP3481302	(51) A61B 17/00	A61B 17/00
(21) EP17824892.8	A61B 17/04	A61B 17/06
(47) 06.12.2023	A61B 17/06	(11) EP3753498
(87) US2017040903	(11) EP3531925	(21) EP20185531.9
11.01.2018	(21) EP17790785.4	(47) 06.12.2023
(22) 06.07.2017	(47) 06.12.2023	(22) 03.10.2016
(54) IMPROVED VAGINAL CELL OR CERVICAL CELL COLLECTION DEVICE	(87) EP2017077524	(54) DISTAL ANCHOR APPARATUS FOR MITRAL VALVE REPAIR
(73) Mel-Mont Medical, Inc	03.05.2018	(73) Harpoon Medical, Inc.
(72) MELENDEZ, Frank	(22) 26.10.2017	(72) WILSON, Peter
MONTEZ, Liliana	(54) DEVICE FOR TREATMENT OF ANAL FISTULA	EPSTEIN, Stephen
(31) 201615204007	(73) Super Seton B.V.	COURNANE, Stephen
(32) 07.07.2016	(72) HOREMAN, Tim	(31) 201662315879 P
(33) United States of America	NERKENS, Willem	201562236225 P
(51) A61B 10/00	(31) 201618129	(32) 31.03.2016
A61B 10/02	(32) 26.10.2016	02.10.2015
A61B 5/15	(33) United Kingdom	(33) United States of America
A61M 5/14	(51) A61B 17/02	United States of America
A61M 5/168	A61B 17/42	<hr/>
A61M 5/172	(11) EP4051130	(51) A61B 17/06
A61M 5/20	(21) EP20815718.0	A61F 2/08
A61M 5/28	(47) 06.12.2023	(11) EP3476304
G16H 30/40	(87) EP2020080607	(21) EP18202172.5
G16H 30/20	06.05.2021	(47) 06.12.2023
G16H 40/67	(22) 30.10.2020	(22) 23.10.2018
H04N 7/18	(54) SURGICAL ACCESS SYSTEM	(54) SUTURE/NEEDLE CONSTRUCTS
G16H 20/17	(73) National University of Ireland Galway	(73) Smith & Nephew, Inc.
G16H 10/40	(72) MAHER, Padraig	(72) Bettenga, Mason James
G16H 10/60	MCCANN, Barry	(31) 201762577488 P
G16H 40/63	MAHER, Marie-Therese	(32) 26.10.2017
G06V 20/52	(31) 19206358	(33) United States of America
G06Q 50/22	(32) 30.10.2019	<hr/>
G06F 3/01	(33) European Patent Office (EPO)	(51) A61B 17/072
(11) EP3524294	(51) A61B 17/02	A61B 90/00
(21) EP19165422.7	A61B 90/57	A61B 17/00
(47) 06.12.2023	(11) EP3558140	A61B 17/29
(22) 29.01.2015	(21) EP17829861.8	(11) EP3417808
(54) SYSTEM AND METHOD FOR ASSURING PATIENT MEDICATION AND FLUID DELIVERY AT THE CLINICAL POINT OF USE	(47) 06.12.2023	(21) EP17209624.0
(73) Becton, Dickinson and Company	(87) US2017067762	(47) 06.12.2023
(72) BURKHOLZ, Jonathan Karl	28.06.2018	(22) 21.12.2017
O'BRYAN, Jeff	(22) 21.12.2017	(54) CLOSED LOOP FEEDBACK CONTROL OF MOTOR VELOCITY OF A SURGICAL STAPLING AND CUTTING INSTRUMENT BASED ON MEASURED TIME OVER A SPECIFIED NUMBER OF SHAFT ROTATIONS
(31) 201461933024 P	(54) SURGICAL RETRACTOR	(73) Ethicon LLC
(32) 29.01.2014	(73) Nuvasive, Inc.	(72) SHELTON, IV, Frederick E.
(33) United States of America	(72) O'CONNELL, Casey	HARRIS, Jason L.
(51) A61B 10/02	LEE, James, Coleman	ADAMS, Shane R.
(11) EP3528709	KOHN, Joel	YATES, David C.
(21) EP17863505.8	BANKS, David	WORTHINGTON, Sarah A.
(47) 06.12.2023	(31) 201615386999	(31) 201715628072
	(32) 21.12.2016	(32) 20.06.2017
	(33) United States of America	
	(51) A61B 17/04	
	A61B 17/00	

(33) United States of America	CRESTON, Brian J.	(32) 03.11.2010
(51) A61B 17/115	BARIL, Jacob C.	(33) United States of America
(11) EP3939521	(31) 201816030926	(51) A61B 17/32
(21) EP21185126.6	201762542325 P	A61B 90/00
(47) 06.12.2023	(32) 10.07.2018	A61B 17/00
(22) 12.07.2021	08.08.2017	(11) EP3071127
(54) HANDHELD ELECTROMECHANICAL SURGICAL SYSTEM	(33) United States of America	(21) EP14806508.9
(73) Covidien LP	United States of America	(47) 06.12.2023
(72) KOLLAR, Charles R	(51) A61B 17/16	(87) US2014065630
HART, Alexander J.	(11) EP3691550	28.05.2015
STRASSNER, Haley E.	(21) EP18799896.8	(22) 14.11.2014
VALENTINE, David E.	(47) 06.12.2023	(54) FEATURES FOR COUPLING ULTRASONIC SURGICAL INSTRUMENT COMPONENTS TOGETHER
DELBO, James	(87) US2018053754	(73) Ethicon LLC
SANDOR, Jonathan M.	11.04.2019	(72) KIMBALL, Cory G.
(31) 202117347129	(22) 01.10.2018	WITT, David A.
202063051026 P	(54) ROTARY SURGICAL INSTRUMENT ASSEMBLY	GRUBBS, Nathan D.
(32) 14.06.2021	(73) DePuy Ireland Unlimited Company	PRENGER, Daniel J.
13.07.2020	(72) CAMERON, Rod, G., Jr.	CLEM, William E.
(33) United States of America	CUNEO, John	(31) 201314087352
United States of America	MCALEXANDER, Chad	(32) 22.11.2013
(51) A61B 17/115	SAHA, Prasenjit	(33) United States of America
A61B 90/98	(31) 201762567806 P	(51) A61B 17/32
(11) EP3912567	(32) 04.10.2017	B26B 19/44
(21) EP21174898.3	(33) United States of America	B26D 7/18
(47) 06.12.2023	(51) A61B 17/221	B26B 19/14
(22) 20.05.2021	A61B 17/34	A61F 2/24
(54) SURGICAL STAPLING DEVICE	(11) EP3939525	(11) EP3923832
(73) Covidien LP	(21) EP21192438.6	(21) EP19832213.3
(72) SCAMPOLI, David	(47) 06.12.2023	(47) 06.12.2023
WINK, John	(22) 05.07.2018	(87) IL2019051398
(31) 202117313181	(54) INVERTING THROMBECTOMY APPARATUSES	20.08.2020
202063028908 P	(73) Stryker Corporation	(22) 23.12.2019
(32) 06.05.2021	(72) WALLACE, Michael, P.	(54) DEVICE FOR CONDITIONING EX VIVO PERICARDIAL TISSUE
22.05.2020	GARABEDIAN, Robert, J.	(73) Cardiovalve Ltd.
(33) United States of America	GARABEDIAN, Robert, J.	(72) ALBITOV, Michael
United States of America	WALLACE, Gavin, P.	IAMBERGER, Meni
(51) A61B 17/122	(31) 201762529386 P	HARITON, Ilia
A61B 90/00	(32) 06.07.2017	(31) 201901887
A61B 17/128	(33) United States of America	(32) 11.02.2019
(11) EP3808286	(51) A61B 17/295	(33) United Kingdom
(21) EP20199949.7	A61B 18/14	(51) A61B 17/3211
(47) 06.12.2023	A61B 34/30	A61B 90/30
(22) 18.09.2017	(11) EP3849441	F21V 23/06
(54) RELOADABLE APPLICATOR FOR HEMOSTATIC CLIPS	(21) EP19859986.2	(11) EP3528721
(73) Boston Scientific Scimed, Inc.	(47) 06.12.2023	(21) EP17864092.6
(72) KING, Joseph W.	(87) US2019050126	(47) 06.12.2023
RYAN, Shawn	19.03.2020	(87) US2017057808
ESTEVEZ, Ramon	(22) 09.09.2019	03.05.2018
(31) 201662397124 P	(54) ARTICULATING BLADE DEPLOYMENT	(22) 23.10.2017
(32) 20.09.2016	(73) Covidien LP	(54) LIGHTING ELEMENT
(33) United States of America	(72) HAMMERLAND, John	(73) Invuity, Inc.
(51) A61B 17/128	DROCHNER, Thomas	(72) IMANGHOLI, Babak
A61B 17/00	(31) 201862731367 P	(31) 201662412195 P
A61B 34/37	(32) 14.09.2018	(32) 24.10.2016
A61B 90/00	(33) United States of America	(33) United States of America
(11) EP3664722	(51) A61B 17/32	(51) A61B 17/3213
(21) EP18843492.2	A61B 17/16	G08B 25/10
(47) 06.12.2023	A61B 17/29	A61B 90/30
(87) US2018045470	(11) EP3721821	(11) EP3752080
14.02.2019	(21) EP20178117.6	(21) EP19754084.2
(22) 07.08.2018	(47) 06.12.2023	(47) 06.12.2023
(54) ENDOSCOPIC SURGICAL CLIP APPLIER	(22) 03.10.2011	(87) US2019018374
(73) Covidien LP	(54) SURGICAL TOOL WITH SHEATH	22.08.2019
(72) CZERNIK, Roman	(73) Gyrus ACMI, Inc.	(22) 17.02.2019
ZAMMATARO, Thomas A.	(72) CASEY, Jay A.	
	EDWARDS, Kevin C.	
	(31) 93878610	

<p>(54) STRUCTURAL ELEMENT WITH BAYONET HAVING A UNIVERSAL BLADE FITTING WITH ELECTRICAL SOURCE POD AND TERMINAL CONFIGURATION</p> <p>(73) Nano Surgical LLC (72) HACKER, Steven M. (31) 201815898511 (32) 17.02.2018 (33) United States of America</p> <hr/> <p>(51) A61B 17/34 A61B 17/04</p> <p>(11) EP3420986 (21) EP18180459.2 (47) 06.12.2023 (22) 28.06.2018</p> <p>(54) TROCAR WITH OBLIQUE NEEDLE INSERTION PORT AND COPLANAR STOPCOCK</p> <p>(73) Ethicon LLC (72) PARIHAR, Shailendra K. HARRIS, Jason L. SHELTON, IV, Frederick E.</p> <p>(31) 201715637688 (32) 29.06.2017 (33) United States of America</p> <hr/> <p>(51) A61B 17/34 A61B 90/11 A61B 17/00 A61B 90/00</p> <p>(11) EP4029462 (21) EP21305056.0 (47) 06.12.2023 (22) 19.01.2021</p> <p>(54) STAND FOR A PUNCTURING DEVICE</p> <p>(73) IMACTIS (72) CARRAT, Lionel CLAVERIE, Frédéric</p> <hr/> <p>(51) A61B 17/34 A61M 13/00 A61M 16/16</p> <p>(11) EP4027918 (21) EP20771838.8 (47) 06.12.2023 (87) EP2020075580 18.03.2021 (22) 12.09.2020</p> <p>(54) A MODULAR SYSTEM FOR MONITORING AND CONTROLLING THE HOMEOSTASIS IN CAVITIES</p> <p>(73) Fundación Para la Investigación del Hospital Universitario y Politécnico La Fe de la Comunidad Valenciana Fundación de la Comunidad Valenciana Hospital General para la Investigación Biomédica, Docencia y Desarrollo de las Ciencias de la Salud</p> <p>(72) DÍAZ CAMBRONERO, Óscar MAZZINARI, Guido FLOR LORENTE, Blas ROVIRA SORIANO, Lucas</p> <p>(31) 19382791 (32) 12.09.2019 (33) European Patent Office (EPO)</p> <hr/> <p>(51) A61B 17/34 A61M 37/00 A61B 90/00</p> <p>(11) EP4021319</p>	<p>(21) EP20768515.7 (47) 06.12.2023 (87) EP2020073764 04.03.2021 (22) 25.08.2020</p> <p>(54) INJECTOR SYSTEM FOR DELIVERY OF A MEDICAL IMPLANT</p> <p>(73) Novalon S.A. (72) BUFFAT, Jean-Michel VAN BUTSELE, Kathy</p> <p>(31) 201905555 (32) 26.08.2019 (33) Belgium</p> <hr/> <p>(51) A61B 17/56 A61F 2/44 A61F 2/30 A61L 27/58 A61B 17/86 A61L 27/44 A61L 31/14 A61L 31/12 A61L 31/06 A61L 31/08</p> <p>(11) EP3628249 (21) EP19200585.8 (47) 06.12.2023 (22) 28.12.2015</p> <p>(54) CONTINUOUS-FIBER REINFORCED BIOCOSMPOSITE MEDICAL IMPLANTS</p> <p>(73) Ossio Ltd (72) PREISS-BLOOM, Orah LINDER, Taly Pnina EPSTEIN, Eyal POREH, Danielle</p> <p>(31) 201462096932 P (32) 26.12.2014 (33) United States of America</p> <hr/> <p>(51) A61B 17/70 A61B 90/00</p> <p>(11) EP3636185 (21) EP18199467.4 (47) 06.12.2023 (22) 09.10.2018</p> <p>(54) SYSTEM FOR CORRECTING THE POSITION OF BONES, BONE PARTS OR VERTEBRAE</p> <p>(73) Biedermann Technologies GmbH & Co. KG (72) BIEDERMANN, Timo SCHÜNEMANN, Achim MUNDHENKE, Marc</p> <hr/> <p>(51) A61B 17/80 (11) EP3787536 (21) EP19723862.9 (47) 06.12.2023 (87) IB2019052952 07.11.2019 (22) 10.04.2019</p> <p>(54) THREADED LOCKING STRUCTURES FOR AFFIXING BONE ANCHORS TO A BONE PLATE</p> <p>(73) DePuy Synthes Products, Inc. (72) BOSSHARD, Simon, M. ROCCI, Mirko MCGURK, Michael DUDE, Stefan</p> <p>(31) 201815966047 (32) 30.04.2018</p>	<p>(33) United States of America</p> <hr/> <p>(51) A61B 18/12 A61B 18/14 A61B 17/32 B01D 50/00 B03C 3/41 B03C 3/011 B03C 3/017 B03C 3/019 B03C 3/06 B03C 3/08 B03C 3/12 B03C 3/155 B03C 3/47 B03C 3/49 B03C 3/74 B03C 3/78 A61B 18/08 B01D 46/00 B01D 46/42</p> <p>(11) EP3735189 (21) EP19875715.5 (47) 06.12.2023 (87) US2019058149 30.04.2020 (22) 25.10.2019</p> <p>(54) FILTERING SYSTEM, APPARATUS, AND METHOD</p> <p>(73) Buffalo Filter LLC (72) SZYMANSKI, Mark C. CHIMIACK, Michael A. SHVETSOV, Kyrylo PEPE, Gregory BONANO, Samantha</p> <p>(31) 201862750878 P (32) 26.10.2018 (33) United States of America</p> <hr/> <p>(51) A61B 18/14 A61B 18/00</p> <p>(11) EP3654866 (21) EP18752336.0 (47) 06.12.2023 (87) US2018043009 24.01.2019 (22) 20.07.2018</p> <p>(54) SMOKE EVACUATION ELECTROSURGICAL INSTRUMENT</p> <p>(73) Medtronic Advanced Energy LLC (72) SEGIT, Alexander, J. BARRY, Jonathan, J. BRADLEY, Amy GOODWIN, Peter</p> <p>(31) 201762535269 P (32) 21.07.2017 (33) United States of America</p> <hr/> <p>(51) A61B 18/14 A61B 18/00 A61N 1/05 A61N 1/36 A61N 7/00 A61N 7/02</p> <p>(11) EP3463133 (21) EP17810880.9 (47) 06.12.2023 (87) US2017036201 14.12.2017 (22) 06.06.2017</p> <p>(54) INTRALUMINAL ABLATION CATHETER</p>
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(73) Metavention, Inc.	(72) CHAPLIN, Ben Robert	(11) EP3359077
(72) VRBA, Anthony, Ciro	GRANT, James Oliver	(21) EP16781364.1
SMITH, Scott, Raymond	MARSHALL, Keith	(47) 06.12.2023
AZAMIAN, Bobak, Robert	PHOOLCHUND, Nikki Priyam Su-Ling	(87) EP2016074186
HANSEN, James, G.	JACKSON, Thomas Bates	13.04.2017
EMPANGER, Kathryn, Elizabeth	(31) 201613094	(22) 10.10.2016
MALOMO, Kenneth, J.	(32) 29.07.2016	(54) SURGICAL MARKER ELEMENT,
MOTTA, Rossana	(33) United Kingdom	SURGICAL REFERENCING UNIT, AND
(31) 201715614460	(51) A61B 34/35	SURGICAL NAVIGATION SYSTEM
201762458990 P	A61B 34/37	(73) Aesculap AG
201662346990 P	B25J 3/00	(72) BROERS, Holger
(32) 05.06.2017	(11) EP3443928	GÖGGLMANN, Andreas
14.02.2017	(21) EP17782442.2	PFEIFER, Tobias
07.06.2016	(47) 06.12.2023	(31) 102015117239
(33) United States of America	(87) JP2017015020	(32) 09.10.2015
United States of America	19.10.2017	(33) Germany
United States of America	(22) 12.04.2017	(51) A61B 90/00
(51) A61B 18/20	(54) SURGICAL SYSTEM	A61M 25/00
A61F 9/008	(73) Kawasaki Jukogyo Kabushiki Kaisha	A61M 25/01
(11) EP3600109	(72) HIRATSUKA, Mitsuichi	(11) EP3738543
(21) EP18776885.8	NAKANISHI, Tetsuya	(21) EP20174058.6
(47) 06.12.2023	(31) 2016081856	(47) 06.12.2023
(87) US2018025608	(32) 15.04.2016	(22) 12.05.2020
04.10.2018	(33) Japan	(54) MEDICAL INSTRUMENT AND DEVICE
(22) 31.03.2018	(51) A61B 34/37	HAVING ECHOGENIC MARKINGS
(54) SYSTEMS FOR OCULAR LASER	A61B 34/00	AND CORRESPONDING METHOD OF
SURGERY AND THERAPEUTIC	A61B 17/00	MANUFACTURING
TREATMENTS	A61B 90/50	(73) Thüringisches Institut für Textil- und
(73) Hipsley, AnnMarie	A61B 90/90	Kunststoff-Forschung e.V.
(72) Hipsley, AnnMarie	A61B 90/00	(72) Gunkel, Holger
(31) 201762480294 P	A61B 34/20	(31) 102019112606
(32) 31.03.2017	G01S 11/14	(32) 14.05.2019
(33) United States of America	(11) EP3626200	(33) Germany
(51) A61B 34/00	(21) EP19197967.3	(51) A61B 90/20
A61B 90/00	(47) 06.12.2023	G02B 21/00
A61B 34/10	(22) 18.09.2019	G02B 7/00
A61B 34/20	(54) SURGERY SUPPORTING APPARATUS	A61B 34/20
A61B 34/30	CAPABLE OF MEASURING THE	(11) EP3805834
A61B 90/10	MOVEMENT OF A MEDICAL	(21) EP19202508.8
A61B 90/14	INSTRUMENT AND SURGERY	(47) 06.12.2023
(11) EP3711700	SUPPORTING SYSTEM	(22) 10.10.2019
(21) EP20163554.7	(73) A-Traction Inc.	(54) OPTICAL IMAGING SYSTEM AND
(47) 06.12.2023	(72) ANDO, Takehiro	CORRESPONDING APPARATUS,
(22) 17.03.2020	MIYAMOTO, Hiroyuki	METHOD AND COMPUTER PROGRAM
(54) SYSTEM FOR NEURONAVIGATION	AWANO, Keita	(73) Leica Instruments (Singapore) Pte. Ltd.
REGISTRATION AND ROBOTIC	SUGIURA, Yoshihide	(72) THEMELIS, George
TRAJECTORY GUIDANCE, AND	FUKUSHIMA, Yuta	(51) A61C 7/00
RELATED METHODS AND DEVICES	(31) 2018178054	A61C 7/08
(73) Globus Medical, Inc.	(32) 21.09.2018	(11) EP3928734
(72) CAMERON, Hayden	(33) Japan	(21) EP21184102.8
MANTZAVINOS, Spiros	(51) A61B 50/20	(47) 06.12.2023
CRAWFORD, Neil R.	A61B 50/33	(22) 11.11.2015
JOSHI, Sanjay M.	A61B 50/34	(54) COMPUTER READABLE MEDIUM
JOHNSON, Norbert	(11) EP4110224	HAVING INSTRUCTIONS STORED
(31) 201916361863	(21) EP22713607.4	THEREON TO CALCULATE
(32) 22.03.2019	(47) 06.12.2023	PROJECTED DIMENSIONS OF AN
(33) United States of America	(87) EP2022055882	UNERUPTED OR ERUPTING TOOTH
(51) A61B 34/30	15.09.2022	(73) Align Technology, Inc.
A61B 46/10	(22) 08.03.2022	(72) CHOI, Jeeyoung
A61B 17/00	(54) EXPANDING HOLDER AND TOOL SET	LI, Chunhua
(11) EP3490483	(73) Aesculap AG	MORTON, John
(21) EP17748881.4	(72) AY, Eda	PESENTI, Bastien
(47) 06.12.2023	KNITTEL, Timo	MATOV, Vadim
(87) GB2017052191	(31) 102021106110	BELIAEV, Alexander
01.02.2018	(32) 12.03.2021	USHANOV, Petr
(22) 27.07.2017	(33) Germany	ROSCHIN, Roman A.
(54) DRIVE TRANSFER	(51) A61B 90/00	(31) 201414541021
(73) CMR Surgical Limited	A61B 34/20	(32) 13.11.2014

(33) United States of America	29.09.2016	(21) EP19813619.4
(51) A61C 7/00	(33) World Intellectual Property Office (WIPO)	(47) 06.12.2023
A61C 7/08	European Patent Office (EPO)	(87) FR2019052421
A61C 7/36	(51) A61C 8/00	16.04.2020
(11) EP3791824	A61C 13/00	(22) 11.10.2019
(21) EP20203591.1	(11) EP3838214	(54) METHOD AND SYSTEM FOR
(47) 06.12.2023	(21) EP19216892.0	MANUFACTURING REPLICA TEETH
(22) 17.09.2015	(47) 06.12.2023	WITH THE CORRESPONDING ROOT
(54) METHOD FOR DISPLAYING	(22) 17.12.2019	CANAL SYSTEM
REPOSITIONING JAW ELEMENTS	(54) A CAD METHOD FOR GENERATING A	(73) Naodent Evolution
(73) Align Technology, Inc.	VIRTUAL SUPERSTRUCTURE FOR A	(72) BABIN, Thierry
(72) WU, Ken	CUSTOMIZED DENTAL PROSTHESIS	ROGER, Jean-Baptiste
KUO, Eric, E.	AND PROVIDING THE SAME.	(31) 1859412
DERAKHSHAN, Mitra	(73) CLINICA SAN MARTINO S.R.L.	(32) 11.10.2018
TJHIA, Crystal	(72) PIASINI, Bruno	(33) France
YAU, Eric	PEDRETTI, Giorgio Giovanni	(51) A61C 15/04
BORONKAY, Allen, R.	(51) A61C 8/00	(11) EP3967265
LI, Chunhua	A61L 27/32	(21) EP21195520.8
KRIVOVYAZ, Gleb	(11) EP3801364	(47) 06.12.2023
(31) 201414491765	(21) EP19721571.8	(22) 08.09.2021
(32) 19.09.2014	(47) 06.12.2023	(54) DENTAL FLOSS, CONTINUOUS
(33) United States of America	(87) EP2019060518	DENTAL FLOSS, AND METHOD FOR
(51) A61C 7/00	05.12.2019	MANUFACTURING CONTINUOUS
A61C 7/28	(22) 24.04.2019	DENTAL FLOSS
A61C 7/30	(54) METHOD FOR PRODUCING A DENTAL	(73) GC Corporation
(11) EP3576667	IMPLANT AND DENTAL IMPLANT	(72) Nakamura, Masaru
(21) EP18748336.7	PRODUCED BY SAID METHOD	Yokonuma, Kumiko
(47) 06.12.2023	(73) ZV3 - Zircon Vision GmbH	Suda, Youku
(87) US2018016293	(72) FEITH, Johan	Sato, Aki
09.08.2018	(31) 102018112935	(31) 2020153137
(22) 31.01.2018	(32) 30.05.2018	(32) 11.09.2020
(54) HYBRID ORTHODONTIC ARCHWIRES	(33) Germany	(33) Japan
(73) Swift Health Systems Inc.	(51) A61C 11/08	(51) A61F 2/06
(72) TONG, Hongsheng	A61C 9/00	A61F 2/07
PHAM, Philong, John	(11) EP3934566	A61F 2/954
HUYNH, Allen	(21) EP20707660.5	A61F 2/962
LEE, Robert	(47) 06.12.2023	(11) EP3583916
(31) 201762452802 P	(87) EP2020055827	(21) EP19190356.6
(32) 31.01.2017	17.09.2020	(47) 06.12.2023
(33) United States of America	(22) 05.03.2020	(22) 19.04.2012
(51) A61C 7/08	(54) METHOD FOR PROVIDING A 3D-	(54) APPARATUS FOR FACILITATING
(11) EP3217918	PRINT DATA SET OF A DENTAL	DEPLOYMENT OF AN ENDOLUMINAL
(21) EP15801229.4	MODEL STRUCTURE, COMPUTER	PROSTHESIS
(47) 06.12.2023	PROGRAM PRODUCT, DENTAL	(73) Cook Medical Technologies LLC
(87) IB2015002136	MODEL STRUCTURE, MOUNTING	Cleveland Clinic Foundation
19.05.2016	PLATE AND DENTAL MODEL SYSTEM	(72) GREENBERG, Roy K.
(22) 11.11.2015	(73) SAM Präzisionstechnik GmbH	West, Karl J.
(54) ORTHODONTIC ALIGNER WITH	(72) MACK, Florian	RESCH, Timothy A.
ISOLATED SEGMENTS	(31) 19161552	ROEDER, Blayne A.
(73) Align Technology, Inc.	(32) 08.03.2019	(31) 201161581475 P
(72) WEBBER, Peter	(33) European Patent Office (EPO)	201161526061 P
CHEN, Jennifer C.	(51) A61C 11/08	201161480091 P
CHEN, Yan	A61C 9/00	(32) 29.12.2011
(31) 201414539725	(11) EP3705079	22.08.2011
(32) 12.11.2014	(21) EP19161552.5	28.04.2011
(33) United States of America	(47) 06.12.2023	(33) United States of America
(51) A61C 8/00	(22) 08.03.2019	United States of America
(11) EP3995104	(54) METHOD FOR PROVIDING A 3D-	United States of America
(21) EP21169621.6	PRINT DATA SET OF A DENTAL	(51) A61F 2/24
(47) 06.12.2023	MODEL STRUCTURE, DENTAL MODEL	(11) EP3107494
(22) 26.05.2017	STRUCTURE, MOUNTING PLATE AND	(21) EP15705982.5
(54) ADAPTER FOR HOLDING A DENTAL	DENTAL MODEL SYSTEM	(47) 06.12.2023
IMPLANT	(73) SAM Präzisionstechnik GmbH	(87) EP2015053420
(73) Camlog Biotechnologies GmbH	(72) Mack, Florian	27.08.2015
(72) Schäublin, Markus	(51) A61C 13/08	(22) 18.02.2015
(31) PCT/EP2016/062568	G09B 23/28	(54) MEDICAL DEVICE FOR A CARDIAC
16191320	(11) EP3864642	VALVE IMPLANT
(32) 02.06.2016		(73) HVR Cardio Oy

(72) ZERKOWSKI, Hans-Reinhard O'CARROLL, Ger PUGH, Mark	11.08.2011 11.08.2011 11.08.2011	(47) 06.12.2023 (87) US2017034471 30.11.2017
(31) 14155508 (32) 18.02.2014 (33) European Patent Office (EPO)	11.08.2011 (33) United States of America United States of America	(22) 25.05.2017 (54) STAND ALONE INTERBODY SPINAL SYSTEM
(51) A61F 2/24 (11) EP3294220 (21) EP16793655.8 (47) 06.12.2023 (87) US2016032546 17.11.2016	United States of America United States of America United States of America United States of America United States of America	(73) Genesys Spine (72) KAUFMANN, Josh CALBERT, Greg BRYANT, Scott BERGERON, Brian GILKEY, Landon KELLER, Ben GUIOT, M.D., Bernard H. WOLF, M.D., Aizik PHILIPS, M.D., Matthew FRIEDLAND, M.D., John T.
(22) 13.05.2016 (54) CARDIAC VALVE DELIVERY DEVICES AND SYSTEMS (73) Cephea Valve Technologies, Inc. (72) GREGG, Peter WALLACE, Dan GROGAN, Aaron CRISOSTOMO, Crissly	(37) A61F 2/24 A61B 17/00 (11) EP3398560 (21) EP18158901.1 (47) 06.12.2023 (22) 22.12.2006 (54) SYSTEMS FOR SURGERY AND STENT VALVES FOR REPLACEMENT (73) Boston Scientific Medical Device Limited (72) Von Segesser, Ludwig K. (31) 755590 P 753071 P	(31) 201762445428 P 201662341123 P (32) 12.01.2017 25.05.2016 (33) United States of America United States of America
(31) 201562161747 P (32) 14.05.2015 (33) United States of America	(32) 29.12.2005 22.12.2005 (33) United States of America United States of America	(51) A61F 2/44 A61F 2/30 (11) EP3603580 (21) EP19189225.6 (47) 06.12.2023 (22) 30.07.2019 (54) INTERVERTEBRAL SPINAL IMPLANTS (73) Globus Medical, Inc. (72) CRYDER, Joel FEIGENBAUM, David KOPP, Hillary WEIMAN, Mark MICCIO, Mark (31) 201816053300 (32) 02.08.2018 (33) United States of America
(51) A61F 2/24 (11) EP3463193 (21) EP17729739.7 (47) 06.12.2023 (87) US2017036082 14.12.2017	(51) A61F 2/28 A61L 27/36 A61L 27/24 A61C 8/02 A61F 2/46 (11) EP3804661 (21) EP19811409.2 (47) 06.12.2023 (87) KR2019003637 05.12.2019 (22) 28.03.2019 (54) METHOD FOR MANUFACTURING RING-SHAPED BONE GRAFTING SUBSTITUTE (73) Purgo Biologics Inc. (72) KANG, Ho Chang (31) 20180062008 (32) 30.05.2018 (33) Korea (Republic)	(51) A61F 2/44 A61F 2/46 A61F 2/30 (11) EP3470022 (21) EP18199794.1 (47) 06.12.2023 (22) 11.10.2018 (54) INTERVERTEBRAL SPACER AND INSERTER (73) Globus Medical, Inc. (72) SEIFERT, Jody HANSELL, Matthew FRIEDRICH, Adam (31) 201715729825 (32) 11.10.2017 (33) United States of America
(22) 06.06.2017 (54) TRANSCATHETER PROSTHETIC HEART VALVE DELIVERY SYSTEM WITH LATERAL OFFSET CONTROL (73) Medtronic Vascular Inc. (72) MENDELSON, Jill SILVER, Michele GLOSS, Michael GROEN, Timothy ROTHSTEIN, Paul SANDSTROM, Jeffrey HAARSTAD, Phil RACCHINI, Joel BLAESER, David	(31) 201662346039 P (32) 06.06.2016 (33) United States of America	(51) A61F 2/44 A61F 2/30 (11) EP3705090 (21) EP19214616.5 (47) 06.12.2023 (22) 13.08.2012 (54) IMPROVEMENTS FOR PROSTHETIC VALVES AND RELATED INVENTIONS (73) Tendyne Holdings, Inc. (72) VIDLUND, Robert SCHANKERELI, Kemal LOZONSCHI, Lucian LUTTER, Georg
(31) 201261615264 P 201161564462 P 201161523134 P 201161522476 P 201161522450 P 201161522468 P 201161522542 P (32) 24.03.2012 29.11.2011 12.08.2011	(51) A61F 2/36 (11) EP3634317 (21) EP18724720.0 (47) 06.12.2023 (87) US2018029911 01.11.2018 (22) 27.04.2018 (54) COAXIAL FULLY ARTICULATING JOINT (73) Noel, Hector (72) Noel, Hector (31) 201715829267 201762491829 P (32) 01.12.2017 28.04.2017 (33) United States of America United States of America	(51) A61F 2/64 (11) EP3713522 (21) EP18785948.3 (47) 06.12.2023 (87) EP2018077739 31.05.2019 (22) 11.10.2018 (54) ARTICULATION WITH BRAKE (73) Ottobock SE & Co. KGaA (72) BOITEN, Herman FRICK, Eugen (31) 102017127860 (32) 24.11.2017

<p>(33) Germany</p> <hr/> <p>(51) A61F 2/64 A61F 2/50 A61F 2/74</p> <p>(11) EP3212131 (21) EP15808327.9 (47) 06.12.2023 (87) DE2015100426 06.05.2016 (22) 14.10.2015 (54) PROSTHESIS (73) Ottobock SE & Co. KGaA (72) PUSCH, Martin WILL, Christian BOITEN, Herman (31) 102014015756 (32) 27.10.2014</p> <hr/> <p>(33) Germany</p> <p>(51) A61F 5/01 (11) EP3706670 (21) EP18782243.2 (47) 06.12.2023 (87) US2018050009 16.05.2019 (22) 07.09.2018 (54) BRACE HAVING INTEGRATED REMOTE PATIENT MONITORING TECHNOLOGY AND METHOD OF USING SAME (73) DJO, LLC (72) MOORE, Michael Wayne (31) 201762583168 P 201762582863 P (32) 08.11.2017 07.11.2017</p> <hr/> <p>(33) United States of America United States of America</p> <hr/> <p>(51) A61F 5/02 (11) EP3323391 (21) EP17201303.9 (47) 06.12.2023 (22) 13.11.2017 (54) SCOLIOSIS ACTIVITY SUIT (73) Hsu, Wen Hua (72) Hsu, Wen Hua (31) 105138212 (32) 22.11.2016 (33) Taiwan, Chinese Taipei</p> <hr/> <p>(51) A61F 5/44 A61F 5/441 A61F 5/445 (11) EP4054493 (21) EP20800474.7 (47) 06.12.2023 (87) US2020055244 14.05.2021 (22) 12.10.2020 (54) OSTOMY APPLIANCE AND FILTER ASSEMBLY WITH BYPASS VENTING (73) Hollister Incorporated (72) CZAPLEWSKI, Gregory J. TETZLAFF, Patrick C. LEADINGHAM, Brian T. GRUBER, Alex J. KERSCHER, Nicholas A. (31) 201962933064 P (32) 08.11.2019</p>	<p>(33) United States of America</p> <hr/> <p>(51) A61F 5/445 A61F 5/443 A61F 5/44 A61B 5/00 (11) EP3764960 (21) EP19713692.2 (47) 06.12.2023 (87) DK2019050086 19.09.2019 (22) 15.03.2019 (54) APPARATUS AND METHODS FOR DETERMINING OSTOMY APPLIANCE WEAR TIME BASED ON LOCATION DATA (73) Coloplast A/S (72) SVANEGAARD, Mads Hindhede STROEBECH, Esben EISENBERG, Jacob OLSEN, Carsten Høllum MALMBERG, Jeppe POULSEN, Alex (31) PA201870159 (32) 15.03.2018 (33) Denmark</p> <hr/> <p>(51) A61F 5/451 A61F 5/453 A61F 5/455 (11) EP3787568 (21) EP19723275.4 (47) 06.12.2023 (87) US2019029609 07.11.2019 (22) 29.04.2019 (54) FLUID COLLECTION DEVICES, RELATED SYSTEMS, AND RELATED METHODS (73) Purewick Corporation (72) HUGHETT, James David REHM, Eric (31) 201862665331 P (32) 01.05.2018 (33) United States of America</p> <hr/> <p>(51) A61F 5/453 A61F 5/455 (11) EP3975946 (21) EP20730847.9 (47) 06.12.2023 (87) US2020033122 03.12.2020 (22) 15.05.2020 (54) FLUID COLLECTION DEVICES, FLUID COLLECTION SYSTEMS INCLUDING THE SAME, AND METHODS OF USING THE SAME (73) Purewick Corporation (72) METZGER, Stephanie SCALF, Candace OTTINGER, Caroline JOHANNES, Ashley Marie CHALLA, Pranav (31) 201962853279 P (32) 28.05.2019 (33) United States of America</p> <hr/> <p>(51) A61F 9/007 (11) EP3448337 (21) EP17790132.9 (47) 06.12.2023</p>	<p>(87) US2017028497 02.11.2017 (22) 20.04.2017 (54) ULTRASONIC SURGICAL ASPIRATION NEEDLE ASSEMBLY WITH MOLDED HUB (73) Bausch & Lomb Incorporated (72) MCCARY, Brian D. SMITH, Todd (31) 201615142932 (32) 29.04.2016 (33) United States of America</p> <hr/> <p>(51) A61F 13/00 A61F 13/02 A61G 7/057 A61M 27/00 (11) EP3554437 (21) EP17884774.5 (47) 06.12.2023 (87) US2017066306 28.06.2018 (22) 14.12.2017 (54) MICRO-CLIMATE-MANAGED SKIN CARE, INCLUDING WOUND CARE (73) Purewick Corporation (72) NEWTON, Camille, Rose (31) 201615384196 (32) 19.12.2016 (33) United States of America</p> <hr/> <p>(51) A61F 13/02 A61F 13/00 (11) EP3801417 (21) EP19727393.1 (47) 06.12.2023 (87) EP2019063880 05.12.2019 (22) 28.05.2019 (54) MULTIFUNCTIONAL RELEASE LINER FOR DRESSINGS (73) Mölnlycke Health Care AB (72) JOELSSON, Hans HALLERSTIG, Linn Liu EIBPOOSH, Shiva BLOMQUIST, Annelie (31) 18175192 (32) 30.05.2018 (33) European Patent Office (EPO)</p> <hr/> <p>(51) A61F 13/08 D04B 1/22 D04B 1/26 (11) EP3721842 (21) EP20168639.1 (47) 06.12.2023 (22) 08.04.2020 (54) CYLINDRICAL BANDAGE (73) Trestech Co., Ltd. (72) SASAKI, Toshiya (31) 2019073950 (32) 09.04.2019 (33) Japan</p> <hr/> <p>(51) A61F 13/15 (11) EP3756631 (21) EP20190645.0 (47) 06.12.2023 (22) 15.10.2012 (54) METHODS AND APPARATUS FOR APPLICATION OF NESTED ZERO WASTE EAR TO TRAVELING WEB AND</p>
--	---	--

FORMATION OF ARTICLES USING A DUAL CUT SLIP UNIT	KABAYA, Yoshiaki SANGAWA, Yuta	(51) A61G 5/02 A61G 5/08 A61G 7/10 A61G 5/12 A61G 5/04
(73) Curt G. Joa, Inc.	(31) 2017119148	(11) EP3297593
(72) PAGEL, Tyler W	(32) 16.06.2017	(21) EP16723119.0
JANKUSKI, Brian	(33) Japan	(47) 06.12.2023
HERBERG, Robert	(51) A61F 13/511	(87) EP2016061048
JENQUIN, Peter J	A61F 13/512	24.11.2016
ANDREWS, Robert E	(11) EP3579799	(22) 17.05.2016
(31) 201161547474 P	(21) EP18707208.7	(54) WHEELCHAIR
(32) 14.10.2011	(47) 06.12.2023	(73) Duchamp, Robert
(33) United States of America	(87) US2018017750	(72) Duchamp, Robert
(51) A61F 13/15	16.08.2018	(31) 1501015
A61F 13/511	(22) 12.02.2018	(32) 18.05.2015
A61F 13/512	(54) ABSORBENT ARTICLES COMPRISING LAMINATES	(33) France
(11) EP3431063	(73) The Procter & Gamble Company	(51) A61G 5/12
(21) EP16894130.0	(72) SCHNEIDER, Uwe	A47C 7/38
(47) 06.12.2023	IBRAHIM, Farihah	B60N 2/806
(87) CN2016094311	RAABE, Kyle James	A61G 3/08
21.09.2017	TRINKAUS, Jan Michael	(11) EP3922228
(22) 10.08.2016	JACKELS, Hans Adolf	(21) EP21173596.4
(54) PERFORATED NON-WOVEN FABRIC AND PROCUTION METHOD THEREFOR	ERDEM, Gueltekin	(47) 06.12.2023
(73) Xiamen Yanjan New Material Co., Ltd	(31) 201762574245 P	(22) 12.05.2021
(72) XIE, Jihuan	201762574242 P	(54) A SUPPORT CUSHION FOR USE IN A VEHICLE
CAI, Jixiang	201762574240 P	(73) NMI Safety Systems Ltd
(31) 201610148875	201762574237 P	(72) SAWDY, Michael
(32) 16.03.2016	201762458173 P	(31) 202008898
(33) China	201762458060 P	(32) 11.06.2020
(51) A61F 13/49	201762458051 P	(33) United Kingdom
A61F 13/494	(32) 19.10.2017	(51) A61G 7/057
A61F 13/56	19.10.2017	A61H 9/00
A44B 18/00	19.10.2017	(11) EP3723693
A61F 13/496	13.02.2017	(21) EP18797435.7
(11) EP3603591	13.02.2017	(47) 06.12.2023
(21) EP18774942.9	(33) United States of America	(87) US2018056495
(47) 06.12.2023	United States of America	20.06.2019
(87) JP2018008471	United States of America	(22) 18.10.2018
04.10.2018	United States of America	(54) ACTIVE COMFORT CONTROLLED BEDDING SYSTEMS
(22) 06.03.2018	United States of America	(73) Dreamwell, Ltd.
(54) TAPE-TYPE DISPOSABLE DIAPER	United States of America	(72) DEFRANKS, Michael S.
(73) Daio Paper Corporation	United States of America	KIRTIKAR, Rahul
(72) OKADA, Yuki	United States of America	(31) 201715838659
FURUKAWA, Masashi	(51) A61F 13/511	(32) 12.12.2017
MORI, Yosuke	D04H 1/4382	(33) United States of America
(31) 2017067003	D04H 1/544	(51) A61G 7/10
2017063581	D04H 3/005	(11) EP3943056
(32) 30.03.2017	D04H 3/147	(21) EP21185917.8
28.03.2017	D04H 1/482	(47) 06.12.2023
(33) Japan	(11) EP3592316	(22) 15.07.2021
Japan	(21) EP18713109.9	(54) PATIENT LIFT SLING
(51) A61F 13/511	(47) 06.12.2023	(73) Liko Research & Development AB
A61F 13/15	(87) US2018021675	(72) CASTANO, Alejandro C
A61F 13/513	13.09.2018	BUCCIERI, Michael
D04H 1/4291	(22) 09.03.2018	DOVERVIK, Elin K
D04H 3/16	(54) THERMOPLASTIC POLYMERIC MATERIALS WITH HEAT ACTIVATABLE COMPOSITIONS	DREYER, Morgan
D04H 5/06	(73) The Procter & Gamble Company	KOORS, Edward J
D06M 15/643	(72) LINDNER, Torsten	SLAVIN, Jennifer D
D06M 15/647	BERUDA, Holger	(31) 202063053855 P
(11) EP3639802	BRENNAN, Jon	(32) 20.07.2020
(21) EP18817925.3	ERDEM, Gultekin	(33) United States of America
(47) 06.12.2023	LANYI, Franz Josef	(51) A61G 7/10
(87) JP2018022798	SCHUBERT, Dirk Wolfram	(11) EP3750518
20.12.2018	(31) 201762469155 P	(21) EP20177396.7
(22) 14.06.2018	(32) 09.03.2017	(47) 06.12.2023
(54) ABSORBENT ARTICLE	(33) United States of America	
(73) Kao Corporation		
(72) SUZUKI, Hana		

(22) 29.05.2020	201762565449 P	(32) 10.07.2018
(54) BATHTUB HOIST	(32) 29.09.2017	(33) China
(73) Drive Medical GmbH & Co. KG	29.09.2017	(51) A61J 7/00
(72) Kempster, Robert	29.09.2017	A61J 7/04
(31) 102019116173	29.09.2017	(11) EP3731796
(32) 13.06.2019	(33) United States of America	(21) EP18834194.5
(33) Germany	United States of America	(47) 06.12.2023
(51) A61G 13/12	United States of America	(87) US2018066640
(11) EP3900690	United States of America	04.07.2019
(21) EP21164218.6	(51) A61H 23/02	(22) 20.12.2018
(47) 06.12.2023	A61H 23/04	(54) SYSTEMS FOR PORTABLE PILL
(22) 23.03.2021	A61H 37/00	DISPENSERS WITH VARIOUS
(54) HEAD SUPPORT AND METHOD FOR	(11) EP3863588	DISPENSING MECHANISMS
USE OF THE HEAD SUPPORT FOR	(21) EP19870999.0	(73) Intent Solutions, Inc.
POSITIONING A PATIENT RELATIVE	(47) 06.12.2023	(72) CROWLEY, Chris
TO A SURGICAL FRAME	(87) US2019055183	MCCRARY, Tyler
(73) Warsaw Orthopedic, Inc.	16.04.2020	BROOM, Ward
(72) LIM, Roy K.	(22) 08.10.2019	KIDD, John
HYNES, Richard A.	(54) SYSTEMS AND METHODS	HANCOCK, Ashley B.
(31) 202016855331	FOR EFFECTIVE REUSE OF A	INGOLDBY, Michael
(32) 22.04.2020	SELFCONTAINED PORTABLE	NELSON IV, Roscoe Conkling
(33) United States of America	POSITIONABLE OSCILLATING MOTOR	(31) 201762610634 P
(51) A61H 3/02	ARRAY	(32) 27.12.2017
A45B 1/00	(73) Tactile Systems Technology, Inc.	(33) United States of America
A45B 3/00	(72) SHOCKLEY, Jr., Harold David	(51) A61K 8/19
A45B 9/02	MARCEK, Geoffrey Albert	A61K 8/27
A61H 1/00	ELLIS, Robert Wiley	A61K 8/44
A61H 3/00	(31) 201816157631	A61K 8/46
A61H 3/04	(32) 11.10.2018	A61Q 11/00
(11) EP3681458	(33) United States of America	(11) EP3870134
(21) EP18857196.2	(51) A61H 31/00	(21) EP19795406.8
(47) 06.12.2023	(11) EP3925589	(47) 06.12.2023
(87) US2018050413	(21) EP21180158.4	(87) US2019055755
21.03.2019	(47) 06.12.2023	30.04.2020
(22) 11.09.2018	(22) 17.06.2021	(22) 11.10.2019
(54) CRUTCH	(54) CARDIOPULMONARY	(54) ZINC - AMINO ACID - LAURYL
(73) Mobility Designed, Inc.	RESUSCITATION SYSTEM	SULFATE COMPLEX WITH
(72) YOUNGER, Max Jeffries	(73) MO.S.A.I.C. - Motion System and	ANTIMICROBIAL ACTIVITY
(31) 201762557237 P	Information Control S.r.l.	(73) Colgate-Palmolive Company
(32) 12.09.2017	(72) DONARELLI, Giovanni	(72) BRINZARI, Tatiana
(33) United States of America	IAFRATE, Daniele	STRANICK, Michael
(51) A61H 9/00	D'AGOSTINO, Massimiliano	CHENG, Chi-Yuan
(11) EP3687472	CECCHI, Luciano	HAO, Zhigang
(21) EP18792504.5	BONIELLO, Chiara	PAPPAS, Iraklis
(47) 06.12.2023	(31) 202000014437	MARRON, Gregory
(87) IB2018057616	(32) 17.06.2020	DUBOVOY, Viktor
04.04.2019	(33) Italy	PAN, Long
(22) 01.10.2018	(51) A61J 3/00	(31) 201862749714 P
(54) MEDICAL PRESSURE THERAPY	A61K 9/30	(32) 24.10.2018
DEVICE AND COMPONENTS	(11) EP3821872	(33) United States of America
THEREOF	(21) EP19833995.4	(51) A61K 8/34
(73) Otivio AS	(47) 06.12.2023	A61K 8/35
(72) LAASANEN, Juho	(87) CN2019092126	A61K 8/60
TUONONEN, Sanna	16.01.2020	A61K 8/63
RANTANEN, Petri	(22) 20.06.2019	A61Q 11/00
RASMUSSEN, Joachim	(54) CONTINUOUS SKIN PACKAGING AND	(11) EP4044996
ERLANDSEN, Andreas	COATING APPARATUS AND COATING	(21) EP20788817.3
PETTERSEN, Jakob	METHOD FOR TABLETS	(47) 06.12.2023
ANDRESEN, Marius	(73) Shanghai Modern Pharmaceutical	(87) EP2020078793
MATHIESEN, Iacob	Engineering Research Center Co., Ltd.	22.04.2021
KRISTJANSSON, Arnar	(72) HOU, Huimin	(22) 13.10.2020
ELDERSTIERN, Jonas	YUAN, Chunping	(54) ORAL CARE COMPOSITION
ULVEGARD, Hannes	ZHANG, Huiping	(73) Lacer, S.A.
BRAKHYA, Ronny	LUO, Chunlin	(72) MATA MOLINER, Montserrat
AXELSSON, Robert	QIAN, Mingying	HUARTE FOURNIER, Elena
(31) 201762565568 P	WANG, Zhengfang	DEL CASTILLO NIETO, Juan Carlos
201762565534 P	REN, Yunmei	MIRA OTAL, Javier
201762565505 P	(31) 201810750341	WIEDEMANN, Ralf

(31) 19382897	(11) EP4043006	(72) OSBORNE, David W.
(32) 14.10.2019	(21) EP22156013.9	(31) 201715712900
(33) European Patent Office (EPO)	(47) 06.12.2023	(32) 22.09.2017
(51) A61K 8/41	(22) 10.02.2022	(33) United States of America
A61Q 1/02	(54) NEW FOSFOMYCIN TABLET FORMULATIONS	(51) A61K 9/14
A61Q 17/04	(73) Labiana Health, S.L.	A61K 9/20
A61K 8/81	(72) PRIOR ORTEGA, Marta	A61K 31/48
A61Q 19/08	FRANCESCH OLLÉ, Ramon	A61P 3/10
A61K 8/06	(31) 21382104	A61P 3/08
(11) EP3709958	(32) 10.02.2021	A61K 31/4985
(21) EP18800963.3	(33) European Patent Office (EPO)	A61P 25/16
(47) 06.12.2023	(51) A61K 9/00	(11) EP3960160
(87) EP2018081471	A61K 31/375	(21) EP21203207.2
23.05.2019	(11) EP3554474	(47) 06.12.2023
(22) 15.11.2018	(21) EP17829412.0	(22) 29.04.2013
(54) COSMETIC OR DERMATOLOGICAL COMPOSITION COMPRISING A MEROCYANINE AND AN ACRYLIC POLYMER	(47) 06.12.2023	(54) BROMOCRIPTINE FORMULATIONS
(73) L'OREAL	(87) US2017066652	(73) VeroScience LLC
(72) SAFOUANE, Mahassine	21.06.2018	(72) CINOTTA, Anthony
LUCET-LEVANNIER, Karine	(22) 15.12.2017	BOWE, Craig Michael
ABEYSEKERA, Nideka	(54) MICAFUNGIN COMPOSITIONS	STEARNS, Paul Clark
(31) 1760733	(73) Baxter International Inc.	WESTON, Laura Jean
(32) 15.11.2017	Baxter Healthcare SA	(31) 201213460452
(33) France	(72) COPE, Sydney J.	(32) 30.04.2012
(51) A61K 8/49	REBBECK, Christine L.	(33) United States of America
A61Q 5/06	DOTY, Mark J.	(51) A61K 9/16
(11) EP3512488	(31) 201662435695 P	A61K 9/50
(21) EP17772562.9	(32) 16.12.2016	A61K 9/51
(47) 06.12.2023	(33) United States of America	C08J 9/16
(87) US2017051408	(51) A61K 9/00	C08J 9/22
22.03.2018	A61K 38/48	A61K 31/122
(22) 13.09.2017	A61K 47/02	A61K 31/337
(54) HAIR COLOR COMPOSITIONS COMPRISING STABLE VIOLET-BLUE TO BLUE IMIDAZOLIUM DYES	A61K 47/10	A61K 31/573
(73) Wella Operations US, LLC	A61K 47/36	A61K 31/58
(72) MURPHY, Bryan Patrick	A61P 17/00	A61P 17/02
ZHANG, Guiru	A61P 31/04	A61P 27/06
ZHAO, Jieliu	A61Q 17/00	(11) EP4019575
(31) 201615267585	(11) EP4149420	(21) EP21211254.4
201615263934	(21) EP21724692.5	(47) 06.12.2023
(32) 16.09.2016	(47) 06.12.2023	(22) 07.10.2016
13.09.2016	(87) EP2021062630	(54) CROSSLINKED PARTICLES
(33) United States of America	18.11.2021	(73) Le Dévédec, Frantz
United States of America	(22) 12.05.2021	Allen, Christine Jane
(51) A61K 8/64	(54) PROTEASE FORMULATION FOR TREATMENT OF MICROBIAL INFECTIONS	Stevens, David Michael
A61Q 19/08	(73) ZYMIQ Technology AB	Rager-Aguiar, Dean James
(11) EP3773460	(72) CLARSUND, Mats	Ruckh, Timothy Tordella
(21) EP19715480.0	(31) 20174324	Elmquist, Carl Eric
(47) 06.12.2023	(32) 13.05.2020	(72) Le Dévédec, Frantz
(87) EP2019058551	(33) European Patent Office (EPO)	Allen, Christine Jane
10.10.2019	(51) A61K 9/00	Stevens, David Michael
(22) 04.04.2019	A61K 47/10	Rager-Aguiar, Dean James
(54) USE OF A PEPTIDE FOR THE TREATMENT OF EPIDERM	A61K 9/06	Ruckh, Timothy Tordella
(73) SEDERMA	A61K 31/44	Elmquist, Carl Eric
(72) MONDON, Philippe	A61P 17/00	(31) 201662313013 P
RINGENBACH, Caroline	(11) EP3684334	201662281631 P
GRACIOSO, Olga	(21) EP18783250.6	201562239758 P
(31) 1852950	(47) 06.12.2023	(32) 24.03.2016
(32) 05.04.2018	(87) US2018051691	21.01.2016
(33) France	28.03.2019	09.10.2015
(51) A61K 9/00	(22) 19.09.2018	(33) United States of America
A61K 9/20	(54) PHARMACEUTICAL COMPOSITIONS OF ROFLUMILAST IN AQUEOUS BLENDS OF WATER-MISCIBLE, PHARMACEUTICALLY ACCEPTABLE SOLVENTS	United States of America
A61K 31/665	(73) Arcutis Biotherapeutics, Inc.	United States of America
A61P 31/04		(51) A61K 9/20
		A61K 31/505
		A61K 9/00
		(11) EP3528791
		(21) EP17794275.2
		(47) 06.12.2023
		(87) EP2017077030

03.05.2018	(51) A61K 9/51	(22) 29.08.2016
(22) 23.10.2017	A61K 9/50	(54) PATCH PREPARATION CONTAINING
(54) DISPERSIBLE COMPOSITIONS	A61K 49/18	AN ACID SCAVENGER
(73) Janssen Sciences Ireland Unlimited	A61N 1/372	(73) MEDRx Co., Ltd.
Company	A61N 5/06	(72) Hamamoto, Hidetoshi
(72) PATANKAR, Harshad	B82B 1/00	Tanimoto, Takahiro
GOYVAERTS, Nicolaas Martha Felix	B82B 3/00	(31) PCT/JP2015/074552
RANGA RAJAN, Gopal Rajan	H05B 6/36	(32) 29.08.2015
(31) 201621036404	(11) EP3618815	(33) World Intellectual Property Office (WIPO)
(32) 24.10.2016	(21) EP18795236.1	(51) A61K 31/10
(33) India	(47) 06.12.2023	A61K 31/275
(51) A61K 9/24	(87) US2018030942	A61P 9/04
A61K 9/50	08.11.2018	A61K 9/00
A61K 31/05	(22) 03.05.2018	A61K 9/48
A61K 31/192	(54) PROPULSION AND CONTROL OF A	(11) EP3565540
A61K 31/352	MICRO-DEVICE	(21) EP18736230.6
A61P 25/08	(73) Bionaut Labs Ltd.	(47) 06.12.2023
A61P 29/02	Shpigelmacher, Michael	(87) US2018012625
A61P 35/00	(72) SHPIGELMACHER, Michael	12.07.2018
A61K 9/68	KISELYOV, Alex	(22) 05.01.2018
A23G 4/06	(31) 201762501156 P	(54) A PHARMACEUTICAL COMPOSITION
A23G 4/20	(32) 04.05.2017	FOR USE IN TREATING
A23L 33/105	(33) United States of America	CARDIOVASCULAR DISEASES
A23G 4/12	(51) A61K 9/51	(73) Olatec Therapeutics LLC
(11) EP3876744	A61K 47/22	(72) MARCHETTI, Carlo
(21) EP19805887.7	A61K 9/127	DINARELLO, Charles A.
(47) 06.12.2023	A61K 31/7105	(31) 201762506843 P
(87) DK2019050308	A61K 31/711	201762443387 P
10.09.2020	A61K 31/713	(32) 16.05.2017
(22) 10.10.2019	C07C 219/06	06.01.2017
(54) TABLETED CANNABINOID CHEWING	C07C 229/12	(33) United States of America
GUM WITH LAYERED STRUCTURE	C07D 207/08	United States of America
(73) NordicCan A/S	C07D 211/62	(51) A61K 31/13
(72) BRUUN, Heidi Ziegler	A61K 31/712	A61P 11/00
BOESEN, Dorte Schackinger	A61K 47/18	A61K 45/06
ERIKSEN, Ane	A61P 31/12	A61K 31/135
(31) 3035400	A61P 31/16	A61K 31/381
201916289770	C07C 219/16	A61K 31/445
(32) 01.03.2019	C07D 211/34	A61K 31/47
01.03.2019	C07D 295/15	A61K 31/625
(33) Canada	(11) EP3188760	A61K 31/4545
United States of America	(21) EP15775528.1	(11) EP2849738
(51) A61K 9/50	(47) 06.12.2023	(21) EP13791142.6
A61K 35/39	(87) US2015048535	(47) 06.12.2023
A61K 47/55	10.03.2016	(87) CN2013072693
A61K 47/61	(22) 04.09.2015	21.11.2013
A61K 47/69	(54) LIPIDS AND LIPID COMPOSITIONS	(22) 15.03.2013
B01J 13/14	FOR THE DELIVERY OF ACTIVE	(54) HIGH PENETRATION PRODRUG
B01J 13/20	AGENTS	COMPOSITIONS AND
(11) EP3782613	(73) Novartis AG	PHARMACEUTICAL COMPOSITION
(21) EP19781150.8	(72) BECKWITH, Rohan Eric John	THEREOF FOR TREATMENT OF
(47) 06.12.2023	BRITO, Luis	PULMONARY CONDITIONS
(87) KR2019003885	DECHRISTOPHER, Brian Addison	(73) Techfields Pharma Co., Ltd.
10.10.2019	GAMBER, Gabriel Grant	Yu, Chongxi
(22) 02.04.2019	GEALL, Andrew	(72) YU, Chongxi
(54) ALGINATE MICROCAPSULES	ZABAWA, Thomas	XU, Lina
FOR CELL ENCAPSULATION	(31) 201462046487 P	(31) 201210151555
AND, MANUFACTURING METHOD	(32) 05.09.2014	(32) 16.05.2012
THEREFOR	(33) United States of America	(33) China
(73) Optipharm Co., Ltd	(51) A61K 9/70	(51) A61K 31/135
(72) LEE, Dong Yun	A61K 47/02	A61K 31/198
LEE, Jae Bin	A61K 47/12	A61K 31/205
CHOI, Ki Myung	A61K 47/18	A61K 9/12
SHIM, Joo Hyun	A61K 31/433	A61M 15/00
PARK, Jae Kyung	A61P 25/04	A61M 15/08
(31) 20180038205	(11) EP3756659	A61P 25/18
(32) 02.04.2018	(21) EP20186427.9	A61P 25/24
(33) Korea (Republic)	(47) 06.12.2023	A61P 25/30

(11) EP3463301	A61K 31/722	10.08.2016
(21) EP17803613.3	A61K 31/734	(33) United States of America
(47) 06.12.2023	A61K 31/785	United States of America
(87) US2017034542	A61K 36/73	(51) A61K 31/381
30.11.2017	A61K 36/899	A61K 31/519
(22) 25.05.2017	A61K 39/395	C07D 487/14
(54) METHOD AND COMPOSITION	A61P 25/28	A61P 35/00
FOR DECREASING THE	C07K 16/26	(11) EP3565558
PSYCHOTOMIMETIC SIDE EFFECT	G01N 33/15	(21) EP18736115.9
AND ADDICTIVE DISORDER OF	A61K 31/661	(47) 06.12.2023
KETAMINE	A61P 43/00	(87) US2018012675
(73) National Health Research Institutes	A61K 39/00	12.07.2018
(72) CHEN, Hwei-Hsien	A61K 31/192	(22) 05.01.2018
(31) 201662341278 P	(11) EP3569248	(54) COMBINATION THERAPY WITH A
(32) 25.05.2016	(21) EP17886842.8	SERD COMPOUND AND A CDK4/6
(33) United States of America	(47) 06.12.2023	INHIBITOR FOR THE TREATMENT OF
(51) A61K 31/155	(87) JP2017046525	CANCER
A61K 31/785	05.07.2018	(73) G1 Therapeutics, Inc.
A61P 7/04	(22) 26.12.2017	The Board of Trustees of the University
C08G 73/02	(54) GIP INHIBITORS FOR IMPROVING	of Illinois
C08G 73/08	COGNITIVE FUNCTION	(72) STRUM, Jay, C.
A61P 29/00	(73) Kao Corporation	THATCHER, Gregory, R.
(11) EP3248596	(72) OKAHARA, Fumiaki	XIONG, Rui
(21) EP15879124.4	KOGA, Yoshitaka	ZHAO, Jiong
(47) 06.12.2023	MORI, Takuya	TONETTI, Debra, A.
(87) RU2015000253	(31) 2016251778	(31) 201762443588 P
28.07.2016	(32) 26.12.2016	(32) 06.01.2017
(22) 20.04.2015	(33) Japan	(33) United States of America
(54) HEMOSTATIC AGENT	(51) A61K 31/33	(51) A61K 31/4015
(73) Tets, Viktor Veniaminovich	(11) EP3209291	A61K 31/395
Tets, Georgy Viktorovich	(21) EP15787849.7	A61P 25/00
(72) KRASNOV, Konstantin Andreevich	(47) 06.12.2023	A61P 29/00
(31) 2015101640	(87) US2015056824	C07D 207/263
(32) 20.01.2015	28.04.2016	(11) EP3525782
(33) Russian Federation	(22) 22.10.2015	(21) EP17860014.4
(51) A61K 31/164	(54) METHOD OF TREATING CONDITIONS	(47) 06.12.2023
A61K 31/20	RELATED TO THE PGI2 RECEPTOR	(87) US2017056745
A61K 31/201	(73) Arena Pharmaceuticals, Inc.	19.04.2018
A61K 31/202	(72) GLICKLICH, Alan	(22) 16.10.2017
A61K 9/00	(31) 201462067916 P	(54) TREATING NEUROPATHIC PAIN IN
A61P 17/00	(32) 23.10.2014	SPINAL CORD INJURED INDIVIDUALS
A61P 29/00	(33) United States of America	(73) CNS Biosciences, Inc.
(11) EP3177281	(51) A61K 31/357	(72) FALCI, Scott P.
(21) EP15754028.7	A61K 31/436	(31) 201662408490 P
(47) 06.12.2023	A61K 31/513	(32) 14.10.2016
(87) IB2015055885	A61K 31/5377	(33) United States of America
11.02.2016	A61K 31/551	(51) A61K 31/4035
(22) 03.08.2015	A61K 31/5685	A61K 31/423
(54) MIXTURE OF FATTY ACIDS AND	A61K 31/7048	C07D 261/20
PALMITOYLETHANOLAMIDE FOR	A61P 35/00	(11) EP3509587
USE IN THE TREATMENT OF	C07D 401/04	(21) EP17849719.4
INFLAMMATORY AND ALLERGIC	C07D 401/14	(47) 06.12.2023
PATHOLOGIES	C07D 405/14	(87) US2017050956
(73) ALI RESEARCH S.R.L.	(11) EP3496721	15.03.2018
(72) MIGLIACCIO, Raffaele	(21) EP17840210.3	(22) 11.09.2017
SARDEI, Antonella	(47) 06.12.2023	(54) MONOCYCLIC COMPOUNDS USEFUL
MIGLIACCIO, Carmela	(87) US2017046098	AS GPR120 MODULATORS
(31) MI20141474	15.02.2018	(73) Valo Health, Inc.
(32) 08.08.2014	(22) 09.08.2017	(72) RAIMUNDO, Brian
(33) Italy	(54) TREATMENT OF MERKEL CELL	KOLTUN, Elena S.
(51) A61K 31/166	CARCINOMA	GRIFFIN, John
A61K 31/22	(73) Celgene Quanticel Research, Inc.	STANGELAND, Eric
A61K 31/404	(72) XU, Jiangchun	(31) 201662393616 P
A61K 31/519	CHO, Robert	(32) 12.09.2016
A61K 31/683	NGUYEN, Aaron	(33) United States of America
A61K 31/685	(31) 201762468424 P	(51) A61K 31/404
A61K 31/717	201662373263 P	A61K 31/497
A61K 31/718	(32) 08.03.2017	A61K 31/435

A61K 31/4412	(73) ESTEVE PHARMACEUTICALS, S.A.	(31) 201915094
A61K 31/192	(72) ZAMANILLO-CASTANEDO, Daniel	(32) 18.10.2019
A61K 45/06	PRADOS-SALAZAR, José-Carlos	(33) United Kingdom
A61P 17/00	VIDELA-CÉS, Sebastià	(51) A61K 31/4741
A61P 9/00	VELA HERNÁNDEZ, José-Miguel	A61P 37/02
A61P 11/00	PLATA-SALAMAN, Carlos-Ramón	A61P 5/00
A61P 1/00	BRUNA-ESCUER, Jordi	A61K 38/22
(11) EP3368512	(31) 16382258	A61K 45/06
(21) EP15907425.1	(32) 06.06.2016	A61K 31/517
(47) 06.12.2023	(33) European Patent Office (EPO)	A61K 31/14
(87) US2015057600	(51) A61K 31/4164	A61K 31/506
04.05.2017	A61K 31/593	A61K 31/573
(22) 27.10.2015	A61K 31/661	G01N 33/574
(54) INDOLINE DERIVATIVES FOR TREATMENT AND/OR PREVENTION OF FIBROSIS DISEASES	A61K 45/06	(11) EP3393495
(73) Taipei Medical University	A61P 35/00	(21) EP16879971.6
(72) LIN, Chien, Huang	(11) EP3668506	(47) 06.12.2023
LIU, Jing, Ping	(21) EP18756419.0	(87) US2016067775
PAN, Shiow-Lin	(47) 06.12.2023	29.06.2017
TENG, Che-Ming	(87) EP2018072306	(22) 20.12.2016
(51) A61K 31/407	21.02.2019	(54) SMALL MOLECULE INHIBITORS OF HLA-DR3 BINDING FOR TREATING AUTOIMMUNE THYROIDITIS
A61K 31/4523	(22) 17.08.2018	(73) Icahn School of Medicine at Mount Sinai
A61K 31/4468	(54) ENHANCEMENT OF CANCER TREATMENT EFFICIENCY VIA THE SPHINGOSINE-1-PHOSPHATE PATHWAY	(72) TOMER, Yaron
A61K 45/06	(73) AC BioScience	OSMAN, Roman
A61K 31/517	(72) AUCLAIR, Christian	(31) 201562270870 P
A61K 31/502	(31) 17306077	(32) 22.12.2015
A61P 19/04	(32) 17.08.2017	(33) United States of America
A61K 31/445	(33) European Patent Office (EPO)	(51) A61K 31/496
A61P 9/14	(51) A61K 31/423	A61K 31/551
C12N 9/12	A61K 9/00	A61K 9/00
A61K 31/506	A61P 25/00	A61P 25/00
(11) EP3866799	A61P 25/28	A61P 25/18
(21) EP19872573.1	(11) EP3860639	A61P 25/24
(47) 06.12.2023	(21) EP19869745.0	(11) EP3156056
(87) US2019056616	(47) 06.12.2023	(21) EP16185202.5
23.04.2020	(87) US2019054245	(47) 06.12.2023
(22) 16.10.2019	09.04.2020	(22) 19.03.2012
(54) COMPOSITIONS FOR TREATING VASCULAR EHLERS DANLOS SYNDROME	(22) 02.10.2019	(54) PHARMACEUTICAL COMPOSITIONS COMPRISING SORBITAN ESTERS
(73) The Johns Hopkins University	(54) AN INHIBITOR OF SLC7A5 OR LAT1 FOR USE IN PROMOTING REMYELINATION OF NEURONS	(73) Alkermes Pharma Ireland Limited
(72) DIETZ, Harry C.	(73) Georgetown University	(72) HICKEY, Magali, B.
BOWEN, Caitlin J.	(72) HUANG, Jeffrey	PERRY, Jason, M.
CALDERON GIADROSIC, Juan Francisco	BAYDYUK, Maryna	DEAVER, Daniel, R.
(31) 201962838049 P	(31) 201862740175 P	REMEMAR, Julius, F.
201862747587 P	(32) 02.10.2018	VANDIVER, Jennifer
201862746524 P	(33) United States of America	(31) 201161454008 P
(32) 24.04.2019	(51) A61K 31/433	(32) 18.03.2011
18.10.2018	C07D 285/08	(33) United States of America
16.10.2018	A61K 9/48	(51) A61K 31/519
(33) United States of America	A61P 3/10	A61K 9/10
United States of America	A61K 9/20	A61P 25/18
United States of America	A61K 9/28	A61P 25/24
(51) A61K 31/415	(11) EP4045038	A61K 9/00
A61K 31/4155	(21) EP20799795.8	(11) EP3744326
A61K 31/5377	(47) 06.12.2023	(21) EP20169861.0
A61K 31/337	(87) GB2020052618	(47) 06.12.2023
A61P 35/00	22.04.2021	(22) 30.03.2016
(11) EP3463339	(22) 16.10.2020	(54) DOSING REGIMEN FOR MISSED DOSES FOR LONG-ACTING INJECTABLE PALIPERIDONE ESTERS
(21) EP17726968.5	(54) NEW FORMULATIONS OF 4-CHLORO- N-[2-[(4-CHLOROPHENYL)METHYL]-3- OXO-1,2,4-THIA DIAZOL-5- YL]BENZAMIDE	(73) Janssen Pharmaceutica NV
(47) 06.12.2023	(73) Betagenon AB	(72) GOPAL, Srihari
(87) EP2017063614	(72) EDLUND, Thomas	RAVENSTIJN, Paulien Gerarda Maria
14.12.2017	WESTMAN, Jacob	RUSSU, Alberto
(22) 05.06.2017		SAMTANI, Mahesh Narain
(54) USE OF SIGMA RECEPTOR LIGANDS IN CANCER		(31) 201562162596 P
		201562144054 P

(32) 15.05.2015	A61P 25/28	C07K 16/28
07.04.2015	A61P 35/00	A61K 31/513
(33) United States of America	A61P 35/04	A61K 35/17
United States of America	A61P 43/00	A61K 39/395
(51) A61K 31/519	(11) EP3815688	(11) EP3473256
A61K 31/5377	(21) EP19826841.9	(21) EP17813411.0
A61K 31/55	(47) 06.12.2023	(47) 06.12.2023
A61P 35/00	(87) JP2019025856	(87) JP2017022214
A61K 45/06	02.01.2020	21.12.2017
(11) EP3641775	(22) 28.06.2019	(22) 15.06.2017
(21) EP18731845.6	(54) PHARMACEUTICAL COMPOSITION	(54) INTRATUMORAL VEIN FORMATION
(47) 06.12.2023	CONTAINING POORLY-SOLUBLE	PROMOTER
(87) EP2018066551	BASIC MEDICINE	(73) Osaka University
27.12.2018	(73) CHUGAI SEIYAKU KABUSHIKI KAISHA	(72) TAKAKURA, Nobuyuki
(22) 21.06.2018	(72) KITAYAMA Akira	EINO, Daisuke
(54) COMBINATION OF A MCL-1	SASOH Takeshi	(31) 2016121283
INHIBITOR AND A STANDARD	(31) 2018124830	(32) 17.06.2016
OF CARE TREATMENT FOR	(32) 29.06.2018	(33) Japan
HEMATOLOGIC CANCERS, USES AND	(33) Japan	(51) A61K 31/7012
PHARMACEUTICAL COMPOSITIONS	(51) A61K 31/575	A61K 31/7024
THEREOF	A61P 35/00	A61K 31/70
(73) Les Laboratoires Servier	A61K 36/076	C07K 14/65
Novartis AG	(11) EP3146968	A61P 25/00
(72) WEI, Andrew	(21) EP15795482.7	(11) EP3833358
MOUJALLED, Donia	(47) 06.12.2023	(21) EP19846073.5
POMILIO, Giovanna	(87) CN2015079439	(47) 06.12.2023
GENESTE, Olivier	26.11.2015	(87) US2019046227
MARAGNO, Ana-Leticia	(22) 21.05.2015	13.02.2020
(31) 201762523389 P	(54) K2 COMPOSITION, PREPARATION	(22) 12.08.2019
17189550	METHOD THEREFOR, AND	(54) USE OF IGF-2 RECEPTOR AGONIST
(32) 22.06.2017	APPLICATION THEREOF	LIGANDS FOR TREATMENT OF
06.09.2017	(73) Sinphar Tian-li Pharmaceutical Co., Ltd.	ANGELMAN SYNDROME AND AUTISM
(33) United States of America	(Hangzhou)	(73) New York University
European Patent Office (EPO)	(72) LIN, Hang-Ching	(72) ALBERINI, Cristina, Maria
(51) A61K 31/522	HUANG, Hsin-Wen	TRAUNER, Dirk
A61K 31/53	LU, Shih-Min	ARP, Christopher, James
A61P 29/00	(31) 201462001737 P	(31) 201862717372 P
A61P 17/00	201462001328 P	(32) 10.08.2018
A61P 13/00	(32) 22.05.2014	(33) United States of America
C07D 473/30	21.05.2014	(51) A61K 31/704
C07D 487/04	(33) United States of America	A61P 1/16
C07D 513/04	United States of America	(11) EP3182979
(11) EP4045053	(51) A61K 31/585	(21) EP15833246.0
(21) EP20793302.9	A61P 15/18	(47) 06.12.2023
(47) 06.12.2023	(11) EP3313408	(87) US2015045653
(87) EP2020078856	(21) EP16731177.8	25.02.2016
22.04.2021	(47) 06.12.2023	(22) 18.08.2015
(22) 14.10.2020	(87) EP2016064574	(54) NOVEL COMPOSITIONS AND
(54) NOVEL TETRAZOLES	29.12.2016	METHODS USEFUL FOR TREATING
(73) Boehringer Ingelheim International	(22) 23.06.2016	OR PREVENTING LIVER DISEASES
GmbH	(54) DROSPIRENONE-BASED	OR DISORDERS, AND PROMOTING
(72) FLECK, Martin, Thomas	CONTRACEPTIVE FOR A FEMALE	WEIGHT LOSS
BINDER, Florian, Paul, Christian	PATIENT AFFECTED WITH EXCESS	(73) Yale University
DAHMAN, Georg	WEIGHT	(72) MEHAL, Wajahat
HEHN, Joerg, P.	(73) Laboratorios Leon Farma SA	OUYANG, Xinshou
LESSEL, Uta, Friederike	(72) DROUIN, Dominique	(31) 201462039619 P
WILLWACHER, Jens	BOYER-JOUBERT, Cécile	(32) 20.08.2014
(31) 19203174	PERRIN, Philippe	(33) United States of America
(32) 15.10.2019	(31) 201510348953	(51) A61K 31/7068
(33) European Patent Office (EPO)	15305965	A61P 35/00
(51) A61K 31/5377	(32) 23.06.2015	A61P 35/02
A61K 9/20	23.06.2015	A61P 31/12
A61K 47/02	(33) China	A61K 47/54
A61K 47/18	European Patent Office (EPO)	(11) EP3383407
A61K 47/20	(51) A61K 31/685	(21) EP16870114.2
A61K 47/32	A61P 43/00	(47) 06.12.2023
A61K 47/38	A61P 37/04	(87) IL2016050077
A61P 25/24	A61P 35/00	08.06.2017

(22) 25.01.2016	LAUSTSEN, Anders	STEFFEK, Amy, E.
(54) CYTARABINE CONJUGATES FOR CANCER THERAPY	NIELSEN, Ulrik	(31) 201562116766 P
(73) BioSight Ltd.	(31) 202014920	(32) 16.02.2015
(72) GENGRINOVITCH, Stela	(32) 22.09.2020	(33) United States of America
BEN YAKAR, Ruth	(33) United Kingdom	(51) A61K 36/28
(31) 201562262428 P	(51) A61K 35/28	A61K 33/00
(32) 03.12.2015	A61K 8/98	A61P 35/00
(33) United States of America	A61Q 19/00	A61K 9/00
(51) A61K 31/736	A61P 17/04	G01N 33/574
A61K 36/28	(11) EP3646877	(11) EP3860620
A61K 36/68	(21) EP18822756.5	(21) EP19795326.8
A61P 1/10	(47) 06.12.2023	(47) 06.12.2023
(11) EP3706764	(87) KR2018007369	(87) IB2019058298
(21) EP18792405.5	03.01.2019	09.04.2020
(47) 06.12.2023	(22) 28.06.2018	(22) 30.09.2019
(87) EP2018079570	(54) COMPOSITION COMPRISING STEM	(54) FORMULATION COMPRISING
16.05.2019	CELL-DERIVED EXOSOME AS	OZONISED OIL IN THE TREATMENT
(22) 29.10.2018	EFFECTIVE INGREDIENT FOR USE	OF A TUMOUR
(54) COMPOSITION FOR THE ACUTE	IN PREVENTION OR ALLEVIATION OF	(73) O3 ZONE LIMITED
AND CHRONIC TREATMENT OF	PRURITUS	(72) CAROCCI, Giancarlo
CONSTIPATION	(73) Exocobio Inc.	(31) 201800009063
(73) Neilos S.r.l.	(72) YI, Yong Weon	(32) 01.10.2018
(72) DI MAIO, Umberto	CHO, Byong Seung	(33) Italy
(31) 201700128680	(31) 20180063921	(51) A61K 38/22
(32) 10.11.2017	20170083508	A61K 38/08
(33) Italy	(32) 02.06.2018	A61K 31/137
(51) A61K 33/30	30.06.2017	A61P 9/02
A61K 38/28	(33) Korea (Republic)	(11) EP3400000
C07K 14/62	Korea (Republic)	(21) EP17736407.2
A61K 9/00	(51) A61K 35/28	(47) 06.12.2023
A61P 3/10	A61K 9/00	(87) US2017012485
(11) EP3261648	A61K 35/51	13.07.2017
(21) EP15883637.9	A61P 25/00	(22) 06.01.2017
(47) 06.12.2023	(11) EP3773486	(54) METHODS FOR ADMINISTERING
(87) US2015067129	(21) EP19781349.6	ANGIOTENSIN II
01.09.2016	(47) 06.12.2023	(73) La Jolla Pharma, LLC
(22) 21.12.2015	(87) US2019025716	(72) TIDMARSH, George
(54) LIQUID INSULIN FORMULATIONS AND	10.10.2019	CHAWLA, Lakhmir
METHODS RELATING THERETO	(22) 04.04.2019	(31) 201662347292 P
(73) Aerami Therapeutics, Inc.	(54) UMBILICAL CORD TISSUE-DERIVED	201662276171 P
(72) BUECHE, Blaine	MESENCHYMAL STROMAL CELLS	(32) 08.06.2016
KUO, Mei-Chang	FOR USE IN THE TREATMENT OF	07.01.2016
PATTON, John S.	AUTISM SPECTRUM DISORDERS	(33) United States of America
SANDER, Matthew	(73) Duke University	United States of America
(31) 201562120573 P	(72) KURTZBERG, Joanne	(51) A61K 38/46
(32) 25.02.2015	DAWSON, Geraldine	C12N 9/16
(33) United States of America	SUN, Jessica	C12N 5/00
(51) A61K 35/15	(31) 201862652722 P	C07K 14/00
A61K 39/00	(32) 04.04.2018	C12P 21/04
A61P 29/00	(33) United States of America	C07H 21/04
A61P 35/00	(51) A61K 36/05	(11) EP3212221
A61P 37/04	A61K 36/02	(21) EP15854732.3
A61P 37/06	A61P 29/00	(47) 06.12.2023
C07K 16/28	A61P 11/00	(87) US2015058096
C12N 5/0784	A61P 19/02	06.05.2016
(11) EP4203979	(11) EP3258948	(22) 29.10.2015
(21) EP21778144.2	(21) EP16752918.9	(54) EFFICIENT DELIVERY OF
(47) 06.12.2023	(47) 06.12.2023	THERAPEUTIC MOLECULES IN VITRO
(87) EP2021076051	(87) US2016018105	AND IN VIVO
31.03.2022	25.08.2016	(73) Massachusetts Eye & Ear Infirmary
(22) 22.09.2021	(22) 16.02.2016	President and Fellows of Harvard
(54) TREATING CANCER AND	(54) ANTI-INFLAMMATORY AND	College
AUTOIMMUNE AND INFLAMMATORY	IMMUNOMODULATORY	(72) CHEN, Zheng-yi
DISEASES	COMPOSITIONS COMPRISING	LIU, David
(73) UNIKUM Therapeutics ApS	KLEBSORMIDIUM AND USES	THOMPSON, David
(72) BAK, Rasmus Otkjær	THEREOF	ZURIS, John
JAKOBSEN, Martin Roelsgaard	(73) Zivo Bioscience, Inc.	LI, Margie
	(72) DAHL, Andrew, A.	(31) 201462072209 P

(32) 29.10.2014	(21) EP17163849.7	A61K 9/51
(33) United States of America	(47) 06.12.2023	A61P 35/00
(51) A61K 38/47	(22) 26.07.2011	(11) EP4008344
A61K 31/16	(54) IMMUNOGENIC ANTI-INFLAMMATORY	(21) EP21210308.9
A61P 11/12	COMPOSITIONS	(47) 06.12.2023
A61K 9/00	(73) Qu Biologics Inc.	(22) 26.01.2018
A61P 11/00	(72) Gunn, Harold David	(54) CORE/SHELL STRUCTURE PLATFORM
A61P 31/14	Dhanji, Salim	FOR IMMUNOTHERAPY
A61P 31/16	(31) 201161500836 P	(73) The Methodist Hospital
A61P 43/00	201113019208	(72) SHEN, Haifa
(11) EP2841092	411371 P	(31) 201762451575 P
(21) EP13749329.2	843296	(32) 27.01.2017
(47) 06.12.2023	(32) 24.06.2011	(33) United States of America
(87) US2013026754	01.02.2011	(51) A61K 39/395
22.08.2013	08.11.2010	A61P 1/04
(22) 19.02.2013	26.07.2010	A61P 1/16
(54) COMPOUNDS AND COMPOSITIONS	(33) United States of America	A61P 3/10
FOR USE IN A METHOD OF	United States of America	A61P 5/14
TREATMENT OF PARAINFLUENZA	United States of America	A61P 7/06
VIRUS	United States of America	A61P 9/00
(73) Ansun Biopharma, Inc.	(51) A61K 39/002	A61P 9/10
(72) MOSS, Ron	C07K 14/45	A61P 9/12
LI, Tiejun	C12N 15/30	A61P 11/00
(31) 201261727627 P	C12N 15/70	A61P 11/06
201261600545 P	C12N 1/21	A61P 13/12
(32) 16.11.2012	A61P 33/02	A61P 15/08
17.02.2012	(11) EP3838916	A61P 17/00
(33) United States of America	(21) EP18923744.9	A61P 17/06
United States of America	(47) 06.12.2023	A61P 19/02
(51) A61K 38/54	(87) CN2018111235	A61P 19/10
A61K 38/48	26.12.2019	A61P 21/00
A61P 35/00	(22) 22.10.2018	A61P 21/04
(11) EP3442564	(54) VACCINE USED FOR PREVENTING	A61P 25/00
(21) EP17781637.8	TOXOPLASMA GONDII INFECTION	C07K 16/28
(47) 06.12.2023	AND PREPARATION METHOD	(11) EP3263132
(87) AU2017050323	THEREFOR	(21) EP16755677.8
19.10.2017	(73) Haimu Animal Health Products	(47) 06.12.2023
(22) 12.04.2017	(Shandong) Co., Ltd.	(87) JP2016055768
(54) COMPOSITION OF PROENZYMES FOR	(72) CAO, Lili	01.09.2016
CANCER TREATMENT	GONG, Pengtao	(22) 26.02.2016
(73) Propanc Pty Ltd	LI, Siming	(54) COMPOSITION FOR TREATING IL-6-
(72) KENYON, Julian	CHEN, Xingyuan	RELATED DISEASES
BRANDT, Ralf	DING, He	(73) Chugai Seiyaku Kabushiki Kaisha
(31) 201662321370 P	WANG, Dian	(72) KAKEHI, Takahiro
(32) 12.04.2016	HOU, Feng	YAMADA, Akinori
(33) United States of America	(31) 201810632019	ISHIDA, Yoshimasa
(51) A61K 39/00	(32) 19.06.2018	(31) 2015037933
A61K 39/02	(33) China	(32) 27.02.2015
A61K 39/05	(51) A61K 39/085	(33) Japan
A61K 39/085	(11) EP3362089	(51) A61K 39/395
A61K 39/09	(21) EP16781441.7	A61P 25/28
A61K 39/095	(47) 06.12.2023	C07K 16/18
A61K 39/102	(87) EP2016074598	C12N 15/02
A61K 39/104	20.04.2017	C12P 21/08
A61K 39/108	(22) 13.10.2016	C07K 16/46
A61K 39/112	(54) IMMUNOGENIC COMPOSITIONS	C07K 14/47
A61K 39/12	AGAINST S. AUREUS	A61K 39/00
G01N 33/48	(73) Sanofi Pasteur	(11) EP3662931
G01N 33/569	(72) DRIGUEZ, Pierre-Alexandre	(21) EP19207405.2
A61P 1/00	GUILLO, Nathalie	(47) 06.12.2023
A61P 1/02	ROKBI, Bachra	(22) 30.05.2013
A61P 1/04	MISTRETTA, Noëlle	(54) THERAPEUTIC AGENT OR
A61P 19/02	TALAGA, Philippe	PROPHYLACTIC AGENT FOR
A61P 29/00	(31) 15306621	DEMENTIA
A61P 35/00	(32) 13.10.2015	(73) University Public Corporation Osaka
A61P 37/04	(33) European Patent Office (EPO)	Teijin Pharma Limited
A61P 43/00	(51) A61K 39/39	(72) MORI, Hiroshi
(11) EP3235506	A61K 9/127	TOMIYAMA, Takami

MATSUMOTO, Yoichi	(31) 201800009731	(72) TAKAHASHI, Hironori
EGUCHI, Hiroshi	(32) 25.10.2018	(31) 2020162628
KUNORI, Yuichi	(33) Italy	(32) 28.09.2020
(31) 2012124336	(51) A61K 47/69	(33) Japan
(32) 31.05.2012	A61P 35/00	(51) A61L 2/08
(33) Japan	(11) EP3302568	A61L 29/08
(51) A61K 47/50	(21) EP16730103.5	(11) EP4088749
(11) EP3200829	(47) 06.12.2023	(21) EP22183788.3
(21) EP15782151.3	(87) US2016034351	(47) 06.12.2023
(47) 06.12.2023	08.12.2016	(22) 19.01.2018
(87) US2015053397	(22) 26.05.2016	(54) METHOD FOR FORMING A
07.04.2016	(54) METHODS OF TREATMENT USING	STERILIZED URINARY CATHETER
(22) 01.10.2015	ULTRASMALL NANOPARTICLES TO	(73) Hollister Incorporated
(54) METHOD OF CONJUGATING A	INDUCE CELL DEATH OF NUTRIENT-	(72) FARRELL, David J.
POLYPEPTIDE	DEPRIVED CANCER CELLS VIA	O'MAHONY, John P.
(73) Medimmune, LLC	FERROPTOSIS	(31) 201762448733 P
(72) CHRISTIE, Ronald James	(73) Memorial Sloan Kettering Cancer Center	(32) 20.01.2017
GAO, Changshou	Cornell University	(33) United States of America
DIMASI, Nazzareno	(72) BRADBURY, Michelle S.	(51) A61L 2/10
(31) 201462058502 P	WIESNER, Ulrich	(11) EP3466451
(32) 01.10.2014	OVERHOLTZER, Michael	(21) EP18198065.7
(33) United States of America	SCHER, Howard	(47) 06.12.2023
(51) A61K 47/59	MA, Kai	(22) 01.10.2018
A61K 47/68	(31) 201662280960 P	(54) REFLECTOR SYSTEM FOR A
A61K 38/08	201562168636 P	LIGHTING ASSEMBLY
(11) EP3641826	(32) 20.01.2016	(73) The Boeing Company
(21) EP18742636.6	29.05.2015	(72) GROSS, Adam Franklin
(47) 06.12.2023	(33) United States of America	CUI, Shanying
(87) US2018038988	United States of America	NEFF, Brian Wayne
27.12.2018	(51) A61K 49/22	GEARY, Kevin
(22) 22.06.2018	(11) EP3990032	KEEFE, Andrew C.
(54) METHODS OF PRODUCING DRUG-	(21) EP20733837.7	CAMP III, Randolph C.
CARRYING POLYMER SCAFFOLDS	(47) 06.12.2023	CALLAHAN, Kevin S.
AND PROTEIN-POLYMER-DRUG	(87) EP2020067752	CHILDRESS, Jamie J.
CONJUGATES	30.12.2020	(31) 201715726595
(73) Mersana Therapeutics, Inc.	(22) 24.06.2020	(32) 06.10.2017
(72) GURIJALA, Venu Reddy	(54) FREEZE-DRIED COMPOSITION FOR	(33) United States of America
BOLLU, Satyanarayan Reddy	PREPARING CALIBRATED GAS-FILLED	(51) A61L 2/22
LEBLANC, Jacques	MICROVESICLES	A61C 19/00
LOWINGER, Timothy B.	(73) Bracco Suisse SA	(11) EP3662936
MCGILLICUDDY, Dennis	(72) LASSUS, Anne	(21) EP18210836.5
YIN, Mao	CHERKAOUI, Samir	(47) 06.12.2023
YURKOVETSKIY, Aleksandr V.	(31) 19182223	(22) 06.12.2018
(31) 201862623275 P	(32) 25.06.2019	(54) CLEANING AND DISINFECTING
201762545296 P	(33) European Patent Office (EPO)	DEVICE WITH A FILTER DEVICE
201762523378 P	(51) A61K 49/22	(73) MELAG Medizintechnik GmbH & Co. KG
(32) 29.01.2018	(11) EP3990033	(72) Hering, Alexander
14.08.2017	(21) EP20761497.5	Litzba, Guido
22.06.2017	(47) 06.12.2023	Staerk, Michael
(33) United States of America	(87) EP2020067756	(51) A61L 15/60
United States of America	30.12.2020	A61L 15/18
United States of America	(22) 24.06.2020	A61L 15/20
(51) A61K 47/61	(54) FREEZE-DRIED COMPOSITION FOR	A61L 15/46
A61P 35/00	PREPARING CALIBRATED GAS-FILLED	A61F 13/84
(11) EP3870233	MICROVESICLES	(11) EP3893948
(21) EP19801630.5	(73) Bracco Suisse SA	(21) EP19836739.3
(47) 06.12.2023	(72) LASSUS, Anne	(47) 06.12.2023
(87) IB2019059073	CHERKAOUI, Samir	(87) US2019066000
30.04.2020	(31) 19182226	18.06.2020
(22) 23.10.2019	(32) 25.06.2019	(22) 12.12.2019
(54) PACLITAXEL-HYALURONIC ACID	(33) European Patent Office (EPO)	(54) ODOR-INHIBITING COMPOSITIONS
CONJUGATE IN THE TREATMENT OF	(51) A61L 2/07	AND HYGIENIC ARTICLES
NON-MUSCLE INVASIVE BLADDER	(11) EP3974000	INCORPORATING THE SAME
CANCER	(21) EP21196076.0	(73) BASF SE
(73) Fidia Farmaceutici S.p.A.	(47) 06.12.2023	(72) HOELLER, Olaf
(72) MOSCONI, Giorgio	(22) 10.09.2021	RODRIGUEZ, David J
JABES, Daniela	(54) STEAM STERILIZER	LEPTICH, Joseph
PIZZOCARO, Carlo	(73) Nakanishi Inc.	WOLFE, Michaela P.

MITCHELL, Michael	A61L 17/10	(72) JANG, Cheol
(31) 201862779453 P	D06M 15/564	KIM, Ji Sun
(32) 13.12.2018	A61B 17/04	SO, Jineon
(33) United States of America	(11) EP3762048	LEE, Chang Hyun
(51) A61L 27/08	(21) EP19707844.7	LEE, Chung
A61L 27/22	(47) 06.12.2023	REE, Hwayoun
A61L 27/38	(87) EP2019055604	JUNG, Hyun Tae
A61L 27/50	12.09.2019	KIM, Goo Youn
B33Y 10/00	(22) 06.03.2019	(31) 20180080210
B33Y 70/00	(54) OSTEOCONDUCTIVE FIBERS,	(32) 10.07.2018
B33Y 80/00	MEDICAL IMPLANT COMPRISING	(33) Korea (Republic)
(11) EP3852821	SUCH OSTEOCONDUCTIVE FIBERS,	(51) A61L 27/26
(21) EP19780172.3	AND METHODS OF MAKING	A61L 27/44
(47) 06.12.2023	(73) DSM IP Assets B.V.	A61L 27/52
(87) EP2019075264	(72) DIAS, Aylvin Jorge Angelo Athanasius	(11) EP3927387
26.03.2020	DAVISON, Noel L.	(21) EP20754841.3
(22) 19.09.2019	PERSSON, Anne Marie	(47) 06.12.2023
(54) SELF-ASSEMBLING GRAPHENE	MENGERINK, Ynze	(87) PL2020050019
OXIDE-PROTEIN MATRIX	DE BUEGER, Paul Mathieu	27.08.2020
(73) Queen Mary University of London	(31) 18160350	(22) 21.02.2020
(72) WU, Yuanhao	(32) 06.03.2018	(54) HYDROGEL HYBRID MATERIAL,
WANG, Wen	(33) European Patent Office (EPO)	METHOD OF ITS PREPARATION AND
CHAVARRIA, Alvaro Mata	(51) A61L 27/18	APPLICATION
(31) 201815285	A61L 27/54	(73) Uniwersytet Jagiellonski
(32) 19.09.2018	A61L 29/06	(72) NOWAKOWSKA, Maria
(33) United Kingdom	A61L 29/16	LEWANDOWSKA-LANCUCKA, Joanna
(51) A61L 27/16	A61L 31/10	GILARSKA, Adriana
A61L 27/50	A61L 31/14	(31) 42899319
A61L 27/56	A61L 31/16	(32) 21.02.2019
(11) EP3941543	A61F 2/07	(33) Poland
(21) EP20719010.9	C08L 67/04	(51) A61L 27/34
(47) 06.12.2023	(11) EP3274004	A61L 15/24
(87) US2020023604	(21) EP16714714.9	A61L 15/60
24.09.2020	(47) 06.12.2023	A61L 27/16
(22) 19.03.2020	(87) US2016024228	A61L 27/18
(54) ORBITAL FLOOR TEMPLATE	29.09.2016	A61L 27/40
(73) Poriferous, LLC	(22) 25.03.2016	A61L 27/52
(72) NOBLE, Aaron	(54) CONTROLLED RELEASE MATRIX	A61L 29/04
(31) 201962820320 P	BARRIER STRUCTURE FOR	A61L 29/06
(32) 19.03.2019	SUBCUTANEOUS MEDICAL DEVICES	A61L 29/08
(33) United States of America	(73) SurModics, Inc.	A61L 29/12
(51) A61L 27/18	Burton, Kevin W.	A61L 29/14
A61L 27/20	(72) BURTON, Kevin W.	A61L 31/04
A61L 27/34	MCGONIGLE, Joseph Schmidt	A61L 31/06
A61L 27/54	KURDYUMOV, Aleksey V.	A61L 31/10
A61L 27/56	MISSLING, Jeffrey J.	A61L 31/12
(11) EP3325027	LOCKWOOD, Nathan A.	A61L 31/14
(21) EP16744500.6	PETERSEN, Beth A.	A61P 17/00
(47) 06.12.2023	(31) 201514669571	A61L 15/48
(87) GB2016052270	(32) 26.03.2015	A61L 27/50
02.02.2017	(33) United States of America	A61P 27/02
(22) 25.07.2016	(51) A61L 27/20	(11) EP4066867
(54) MEDICAL IMPLANT	A61L 27/52	(21) EP21740915.0
(73) The University Of Sheffield	C08L 5/08	(47) 06.12.2023
(72) CRAWFORD-CORRIE, Aileen	A61L 27/54	(87) JP2021000185
BUTTLE, David John	A61K 8/73	22.07.2021
HAYCOCK, John William	A61Q 19/08	(22) 06.01.2021
(31) 201513097	C08B 37/08	(54) METHOD FOR PRODUCING MEDICAL
(32) 24.07.2015	(11) EP3804770	DEVICE
(33) United Kingdom	(21) EP19834837.7	(73) Toray Industries, Inc.
(51) A61L 27/18	(47) 06.12.2023	(72) KITAGAWA, Rumiko
A61L 27/46	(87) KR2019008435	NAKAMURA, Masataka
A61L 27/54	16.01.2020	(31) 2020004872
A61L 27/56	(22) 09.07.2019	(32) 16.01.2020
A61L 31/06	(54) HYALURONIC ACID FILLER HAVING	(33) Japan
A61L 31/12	HIGH LIFT CAPACITY AND LOW	(51) A61L 27/34
A61L 31/14	INJECTION FORCE	A61L 29/10
A61L 31/16	(73) LG CHEM, LTD.	A61L 31/08

B05D 5/08	(31) 16001169	(21) EP20171056.3
C08J 7/06	(32) 20.05.2016	(47) 06.12.2023
C09D 105/08	(33) European Patent Office (EPO)	(22) 23.04.2020
F16N 1/00	(51) A61M 1/00	(54) SYSTEM AND METHODS
C08J 7/04	A61M 39/00	INCORPORATING REPLACEMENT
C08L 5/08	(11) EP3538172	FLUID MAXIMIZATION
C08B 37/08	(21) EP17793909.7	(73) Fenwal, Inc.
(11) EP3841159	(47) 06.12.2023	(72) ALI, Zahra R.
(21) EP19758942.7	(87) EP2017077186	(31) 201962837509 P
(47) 06.12.2023	17.05.2018	(32) 23.04.2019
(87) EP2019072402	(22) 24.10.2017	(33) United States of America
27.02.2020	(54) CONNECTOR DEVICE FOR A	(51) A61M 5/00
(22) 21.08.2019	NEGATIVE PRESSURE WOUND	A61M 5/28
(54) LUBRICATION METHOD	THERAPY SYSTEM	A61M 5/142
(73) NATVI	(73) Mölnlycke Health Care AB	A61M 5/145
(72) DAO, Vi Thuy	(72) NILSSON, Carianne	A61M 5/32
(31) 1857583	ROUX, Alain	A61M 5/34
(32) 22.08.2018	(31) 16198139	A61M 5/158
(33) France	(32) 10.11.2016	A61M 5/315
(51) A61L 27/56	(33) European Patent Office (EPO)	(11) EP359219
A61L 27/44	(51) A61M 1/02	(21) EP16784686.4
A61K 9/70	C12M 1/26	(47) 06.12.2023
A61K 47/34	C12M 1/00	(87) US2016056210
A61F 2/00	(11) EP3954405	13.04.2017
A61P 3/10	(21) EP20788402.4	(22) 10.10.2016
A61P 1/16	(47) 06.12.2023	(54) CARTRIDGE NEST
A61P 25/16	(87) KR2020004773	(73) West Pharma. Services IL, Ltd.
A61K 35/39	15.10.2020	(72) NORTON, Paul, H.
A61K 35/30	(22) 08.04.2020	CABIRI, Oz
A61K 35/407	(54) SCREEN EXCHANGE DEVICE	HEZKIAHU, Ran
(11) EP3528860	AND BIOLOGICAL TISSUE SIZE	JANSEN, Hubert
(21) EP17862669.3	REDUCTION SYSTEM	(31) 201615269248
(47) 06.12.2023	(73) Lee, Jun Seok	201615204542
(87) AU2017051126	(72) COPCU, Eray	201662281536 P
26.04.2018	LEE, Jun Seok	201562284806 P
(22) 18.10.2017	(31) 20190131097	(32) 19.09.2016
(54) CELL ASSOCIATED SCAFFOLDS FOR	20190041337	07.07.2016
DELIVERY OF AGENTS	(32) 22.10.2019	21.01.2016
(73) Australian Foundation For Diabetes	09.04.2019	09.10.2015
Research	(33) Korea (Republic)	(33) United States of America
(72) TUCH, Bernard	Korea (Republic)	United States of America
DARGAVILLE, Tim	(51) A61M 1/36	United States of America
MRIDHA, Auvro	A61M 25/10	United States of America
DALTON, Paul	A61M 60/857	(51) A61M 5/00
VAITHILINGAM, Vijayaganapathy	A61M 60/113	B01L 9/06
(31) 2016904265	A61M 25/00	(11) EP3656416
(32) 20.10.2016	A61M 25/01	(21) EP18207446.8
(33) Australia	(11) EP3681552	(47) 06.12.2023
(51) A61L 29/04	(21) EP18768448.5	(22) 21.11.2018
A61L 29/08	(47) 06.12.2023	(54) STAND FOR MEDICAMENT DELIVERY
A61L 29/14	(87) TR2018050100	DEVICE, AND SYSTEM COMPRISING
A61M 39/08	20.09.2018	STAND AND MEDICAMENT DELIVERY
A61M 39/10	(22) 16.03.2018	DEVICE
A61M 39/12	(54) A FEMORAL ARTERIAL ECMO	(73) SHL Medical AG
A61M 39/14	(EXTRACORPOREAL MEMBRANE	(72) CARPENTER, Lucas
(11) EP3458121	OXYGENATION) CANNULA	(51) A61M 5/178
(21) EP17723718.7	(73) T.C. Istanbul Medipol Universitesi	A61M 5/32
(47) 06.12.2023	T.C. Istanbul Universitesi	(11) EP3698829
(87) EP2017062109	(72) SALIHOGLU, Ece	(21) EP19863972.6
23.11.2017	SALIHOGLU, Ziya	(47) 06.12.2023
(22) 19.05.2017	YILDIZ, Yahya	(87) CN2019093149
(54) FLEXIBLE MEDICAL TUBE	YILDIZ, Ugur Ozgur	02.07.2020
(73) Fresenius Medical Care Deutschland	(31) 201704099	(22) 27.06.2019
GmbH	(32) 17.03.2017	(54) SAFE INJECTION DEVICE, SYRINGE
(72) VENERONI, Alain	(33) Türkiye	AND ASSEMBLY METHOD FOR SAFE
FINI, Massimo	(51) A61M 1/38	INJECTION DEVICE
REITER, Reinhold	A61M 1/36	(73) Ningbo Medsun Medical Co., Ltd.
LAUER, Martin	(11) EP3730168	(72) CHEN, Zhicheng

<p>WU, Fengxia (31) 201910260356 201811614986 (32) 02.04.2019 27.12.2018 (33) China China</p> <hr/> <p>(51) A61M 5/31 A61M 5/315 (11) EP3746156 (21) EP19702897.0 (47) 06.12.2023 (87) EP2019052466 08.08.2019 (22) 01.02.2019 (54) PREFILLED SYRINGE AND METHOD OF STERILIZING A PREFILLED SYRINGE (73) F. Hoffmann-La Roche AG (72) CAMMISH, Neil B. HEMMINGER, Markus BLINTZ, Cyrille BOWEN, Mayumi HORVATH, Joshua (31) 201862625444 P (32) 02.02.2018 (33) United States of America</p> <hr/> <p>(51) A61M 5/32 (11) EP3645086 (21) EP18825375.1 (47) 06.12.2023 (87) US2018036687 03.01.2019 (22) 08.06.2018 (54) SAFETY SYRINGE WITH NEEDLE REDIRECTION DEVICE (73) Retractable Technologies, Inc. Shaw, Thomas J. (72) SHAW, Thomas J. SMALL, Mark (31) 201715635346 (32) 28.06.2017 (33) United States of America</p> <hr/> <p>(51) A61M 5/32 (11) EP3856297 (21) EP19765492.4 (47) 06.12.2023 (87) EP2019074298 02.04.2020 (22) 12.09.2019 (54) NEEDLE SHIELD REMOVER (73) SHL Medical AG (72) STEFANOV, Slobodan (31) 201862735313 P 18205314 (32) 24.09.2018 09.11.2018 (33) United States of America European Patent Office (EPO)</p> <hr/> <p>(51) A61M 5/32 A61M 5/50 A61M 5/178 A61M 5/31 (11) EP4062959 (21) EP21859331.7 (47) 06.12.2023 (87) CN2021116135 18.08.2022</p>	<p>(22) 02.09.2021 (54) SAFETY SYRINGE (73) Shanghai Kindly Medical Instruments Co., Ltd. (72) LIN, Sen LIANG, Dongke ZHOU, Hongxin LI, Lei LIN, Peng GU, Yan (31) 202110180431 (32) 09.02.2021 (33) China</p> <hr/> <p>(51) A61M 5/32 A61M 25/06 (11) EP3996780 (21) EP20750896.1 (47) 06.12.2023 (87) US2020041044 14.01.2021 (22) 07.07.2020 (54) CATHETER SYSTEM FACILITATING REDUCED DRAG FORCE (73) Becton, Dickinson and Company (72) SPATARO, Joseph ISAACSON, Ray S. YONG, Zhee Min Jimmy (31) 202016921494 201962873088 P (32) 06.07.2020 11.07.2019 (33) United States of America United States of America</p> <hr/> <p>(51) A61M 11/00 A61M 11/04 A61M 15/00 A61M 15/06 H04R 1/02 A24F 40/44 A24F 40/46 F22B 3/02 (11) EP3664877 (21) EP18844642.1 (47) 06.12.2023 (87) US2018013925 14.02.2019 (22) 16.01.2018 (54) PERMEABLE ELEMENT BASED VAPORIZATION PROCESS AND DEVICE (73) Vuber Technologies, LLC. (72) CROWN, David (31) 201815860641 201762593141 P 201762543316 P (32) 02.01.2018 30.11.2017 09.08.2017 (33) United States of America United States of America United States of America</p> <hr/> <p>(51) A61M 16/00 (11) EP4079357 (21) EP22156133.5 (47) 06.12.2023 (22) 10.02.2022 (54) COUGH ASSIST MACHINE USING A VIDEO ANIMATION FOR ASSISTING</p>	<p>THE PATIENT WITH PERFORMING THEIR TREATMENT, IN PARTICULAR IN INEX MODE (73) Air Liquide Medical Systems EOVE (72) LEROUX, Jean GALBRUN, Marie-Amédée (31) 2104247 (32) 23.04.2021 (33) France</p> <hr/> <p>(51) A61M 16/06 A61M 16/00 A61M 16/08 A61M 16/10 (11) EP2950864 (21) EP14746612.2 (47) 06.12.2023 (87) AU2014000077 07.08.2014 (22) 04.02.2014 (54) RESPIRATORY APPARATUS (73) ResMed Pty Ltd (72) EDWARDS, Craig, David GOLDSPINK, Lachlan, Richard HENRY, Robert, Edward HUNG, Andrew KLASEK, Paul, Jan LAW, Kam Man OVZINSKY, Grant Milton PLASCOTT, Stuart, Norris SCHEINER, Rupert, Christian SUNG, James SWIFT, Lance Ian WELLS, Matthew Robin (31) 2013900349 2013900348 (32) 04.02.2013 04.02.2013 (33) Australia Australia</p> <hr/> <p>(51) A61M 16/08 A61M 16/14 A61M 15/00 A61M 16/16 (11) EP3873574 (21) EP19787292.2 (47) 06.12.2023 (87) EP2019078668 07.05.2020 (22) 22.10.2019 (54) APPARATUS TO ADMINISTER DRUGS TO MECHANICALLY VENTILATED PATIENTS (73) Chiesi Farmaceutici S.p.A. (72) AGAZZI, Ruben CAMPOLO, Benedetta DALLACASA, Nicolò DAVICO, Edoardo SPEZIALI, Chantal, Erika (31) 18203344 (32) 30.10.2018 (33) European Patent Office (EPO)</p> <hr/> <p>(51) A61M 16/08 G01F 23/292 (11) EP3954421 (21) EP21198359.8 (47) 06.12.2023 (22) 16.03.2017</p>
---	--	--

(54) APPARATUS FOR DETECTING LIQUID LEVEL IN A TRAP BOWL	(11) EP4085962	(73) Colder Products Company
(73) Mallinckrodt Pharmaceuticals Ireland Limited	(21) EP22180940.3	(72) TRUONG, Loi Trong
(72) BIBA, Scott, I.	(47) 06.12.2023	WILLIAMS, Randall Scott
(31) 201662331117 P	(22) 13.03.2014	(31) 201562238870 P
(32) 03.05.2016	(54) URINARY CATHETERS WITH PROTECTIVE TIP	(32) 08.10.2015
(33) United States of America	(73) Hollister Incorporated	(33) United States of America
(51) A61M 16/10	(72) HANNON, David	(51) A61M 60/122
C01B 21/24	MULKERRIN, Colm	A61M 60/20
C01B 21/30	MURRAY, Michael	A61M 60/508
A61M 16/00	O'FLYNN, Pdraig	A61M 60/857
A61M 16/12	MCMENAMIN, Martin	A61M 60/515
A61M 16/20	FOLEY, Adam	A61M 60/873
(11) EP3871725	(31) 201313803139	A61M 60/88
(21) EP19877198.2	(32) 14.03.2013	(11) EP3687596
(47) 06.12.2023	(33) United States of America	(21) EP18779968.9
(87) JP2019037667	(51) A61M 25/00	(47) 06.12.2023
30.04.2020	A61M 37/00	(87) US2018051013
(22) 25.09.2019	(11) EP3784319	04.04.2019
(54) NITRIC OXIDE ADMINISTRATION DEVICE	(21) EP18800705.8	(22) 14.09.2018
(73) Teijin Pharma Limited	(47) 06.12.2023	(54) INSTRUMENTED DRIVELINE USING A FLEXIBLE ARTIFICIAL SKIN SENSORY ARRAY
(72) TAMIYA, Rei	(87) FR2018052608	(73) Heartware, Inc.
(31) 2018201138	31.10.2019	(72) CASAS, Fernando
(32) 25.10.2018	(22) 19.10.2018	(31) 201762563333 P
(33) Japan	(54) DEVICE FOR TREATING A PART OF THE HUMAN BODY COMPRISING AT LEAST ONE MAGNETISED NEEDLE	(32) 26.09.2017
(51) A61M 16/16	(73) Paradis, Line	(33) United States of America
A61M 16/00	(72) Paradis, Line	(51) A61N 1/36
A61M 16/10	(31) PCT/FR2018/051058	A61B 5/00
H05B 3/28	(32) 26.04.2018	A61N 1/04
(11) EP3714930	(33) World Intellectual Property Office (WIPO)	A61N 1/05
(21) EP20152759.5	(51) A61M 29/02	A61N 1/378
(47) 06.12.2023	A61M 25/10	A61B 5/11
(22) 15.06.2012	A61B 17/24	A61N 1/372
(54) HUMIDIFIER WITH LAYERED HEATING ELEMENT	A61M 39/24	(11) EP3560552
(73) ResMed Pty Ltd	A61B 17/00	(21) EP19173003.5
(72) TANG, Zhuo Ran	A61B 17/22	(47) 06.12.2023
HUBY, Ronald James	A61B 90/00	(22) 17.10.2014
VERMA, Hargopal	(11) EP3957351	(54) SYSTEM FOR RESTORING MUSCLE FUNCTION TO THE LUMBAR SPINE
BATH, Andrew Roderick	(21) EP21200552.4	(73) Mainstay Medical Limited
FOOTE, Roger Mervyn Lloyd	(47) 06.12.2023	(72) SACHS, Dan
(31) 2011902350	(22) 09.09.2015	RAWAT, Prashant Brijmohansingh
201161628622 P	(54) PRESSURE RELIEF FOR A CATHETER BALLOON DEVICE	SHIROFF, Jason Alan
(32) 16.06.2011	(73) Medtronic Xomed, Inc.	CROSBY, Peter Andrew
03.11.2011	(72) LI, Wenjeng	(31) 201314061614
(33) Australia	LITTLE, David	(32) 23.10.2013
United States of America	(31) 201414486033	(33) United States of America
(51) A61M 25/00	(32) 15.09.2014	(51) A61N 1/36
(11) EP3589348	(33) United States of America	A61B 18/02
(21) EP18724347.2	(51) A61M 39/20	A61B 18/12
(47) 06.12.2023	A61M 39/00	A61N 7/00
(87) US2018020410	A61M 39/14	(11) EP3661593
07.09.2018	A61M 39/18	(21) EP18743158.0
(22) 01.03.2018	A61M 39/26	(47) 06.12.2023
(54) FLEXIBLE TIP CATHETER	F16L 29/00	(87) US2018039407
(73) Covidien LP	A61M 39/10	07.02.2019
(72) STERN, George	A61M 39/16	(22) 26.06.2018
BON, Edwin	F16L 37/35	(54) ABLATION CHECK PULSE ROUTINE AND INTEGRATION FOR ELECTROPORATION
WANG, Edwin	(11) EP3359242	(73) Medtronic, Inc.
JALGAONKAR, Ujwal	(21) EP16854486.4	(72) HOWARD, Brian T.
SKUJINS, Peter	(47) 06.12.2023	(31) 201715669048
(31) 201715448028	(87) US2016056120	(32) 04.08.2017
(32) 02.03.2017	13.04.2017	(33) United States of America
(33) United States of America	(22) 07.10.2016	(51) A61N 1/36
(51) A61M 25/00	(54) REUSABLE ASEPTIC FLUID COUPLINGS	A61N 1/05
A61M 25/01		

A61B 5/24	(54) PORTABLE NON-INVASIVE DEVICES	(33) Japan
A61B 5/00	FOR INTEGRATIVE MEDICINE AND	(51) A61N 5/10
A61N 1/372	HOLISTIC HEALING	A61B 6/00
(11) EP3713637	(73) Tatsumura Hillyer, Kazuko	G01T 1/00
(21) EP18878074.6	Miyashita, Masakazu	(11) EP3755431
(47) 06.12.2023	(72) Tatsumura Hillyer, Kazuko	(21) EP19708603.6
(87) AU2018051240	Miyashita, Masakazu	(47) 06.12.2023
23.05.2019	(31) 201715477685	(87) GB2019050431
(22) 20.11.2018	(32) 03.04.2017	22.08.2019
(54) PERIPHERAL NERVE ELECTRODE	(33) United States of America	(22) 19.02.2019
ARRAY	(51) A61N 5/10	(54) WATER TANK APPARATUS
(73) The Bionics Institute of Australia	(11) EP4037761	(73) Elekta Limited
(72) SHEPHERD, Robert K	(21) EP20772133.3	(72) MARINOS, Nikolas
FALLON, James	(47) 06.12.2023	(31) 201802641
PAYNE, Sophie	(87) IT2020050203	(32) 19.02.2018
BURNS, Owen	25.03.2021	(33) United Kingdom
FURNESS, John Barton	(22) 10.08.2020	(51) A61N 5/10
(31) 2018904157	(54) DEVICE FOR RADIOTHERAPY	A61B 6/03
2017904685	TREATMENT OF CANCER PATIENTS	G06T 7/00
2017904684	(73) S.I.T. - Sordina IORT Technologies S.p.A.	A61B 34/20
(32) 01.11.2018	(72) FELICI, Giuseppe	G06T 7/246
20.11.2017	CARELLA, Giuseppe	(11) EP3590577
20.11.2017	DI FRANCESCO, Massimo	(21) EP18761561.2
(33) Australia	BARONE, Salvatore	(47) 06.12.2023
Australia	FAILLACE, Luigi	(87) JP2018007873
Australia	MIGLIORATI, Mauro	07.09.2018
(51) A61N 1/36	SPATARO, Bruno	(22) 01.03.2018
A61N 1/362	PALUMBO, Luigi	(54) OBJECT TRACKING DEVICE
A61N 1/365	MOSTACCI, Andrea	(73) University of Tsukuba
A61N 1/37	(31) 201900016760	(72) TERUNUMA, Toshiyuki
A61N 1/375	(32) 19.09.2019	SAKAE, Takeji
(11) EP3522979	(33) Italy	(31) 2017041111
(21) EP17859259.8	(51) A61N 5/10	(32) 03.03.2017
(47) 06.12.2023	(11) EP4147750	(33) Japan
(87) US2017055536	(21) EP22204108.9	(51) A61P 7/00
12.04.2018	(47) 06.12.2023	C07K 16/18
(22) 06.10.2017	(22) 24.10.2019	A61K 39/395
(54) CARDIAC PACEMAKER FOR HEART	(54) NEUTRON SOURCE FOR NEUTRON	(11) EP3873602
MUSCLE REMODELING	CAPTURE THERAPY	(21) EP19806353.9
(73) The University Of Vermont And State	(73) Adelphi Technology, Inc.	(47) 06.12.2023
Agricultural College	(72) PIESTRUP, Melvin Arthur	(87) US2019058846
(72) MEYER, Markus	BROWN, Craig Mathew	07.05.2020
(31) 201662404908 P	CHEN, Allan Xi	(22) 30.10.2019
(32) 06.10.2016	GARY, Charles Kevin	(54) SUBCUTANEOUS DOSAGE AND
(33) United States of America	GUAN, Yao Zong	ADMINISTRATION OF ANTI-C5
(51) A61N 1/375	HORII, Yoshio	ANTIBODIES FOR TREATMENT
A61N 1/37	JONES JR., Glenn Emerson	OF PAROXYSMAL NOCTURNAL
A61N 1/36	KOKUBO, Yuji	HEMOGLOBINURIA (PNH)
(11) EP3964259	YAMADA, Naoyuki	(73) Alexion Pharmaceuticals, Inc.
(21) EP21194598.5	KOMURA, Shotaro	(72) VOLLES, Lori
(47) 06.12.2023	(31) 201862749875 P	PRADHAN, Rajendra
(22) 02.09.2021	(32) 24.10.2018	SHERIDAN, Douglas, L.
(54) HOLDING MAGNETS AND MAGNET	(33) United States of America	VALLEE, Marc
SYSTEM FOR IMPLANTABLE	(51) A61N 5/10	GAO, Xiang
SYSTEMS OPTIMIZED FOR MRI	A61B 6/00	(31) 201862752563 P
(73) MED-EL Elektromedizinische Geräte	(11) EP3960235	(32) 30.10.2018
GmbH	(21) EP19926103.3	(33) United States of America
(72) ZIMMERLING, Martin	(47) 06.12.2023	(51) A61P 17/02
(31) 20194214	(87) JP2019040787	A61K 8/00
(32) 02.09.2020	29.10.2020	A61K 8/30
(33) European Patent Office (EPO)	(22) 17.10.2019	A61K 8/64
(51) A61N 5/06	(54) PATIENT POSITION DETERMINATION	A61P 17/00
(11) EP3606611	SYSTEM, METHOD, AND PROGRAM	(11) EP3432988
(21) EP18781494.2	(73) Hitachi, Ltd.	(21) EP17770871.6
(47) 06.12.2023	(72) MIYAZAKI, Koichi	(47) 06.12.2023
(87) US2018025813	UMEKAWA, Toru	(87) US2017023066
11.10.2018	(31) 2019084817	28.09.2017
(22) 03.04.2018	(32) 26.04.2019	(22) 17.03.2017

<p>(54) EXTRACELLULAR VESICLES FOR PREVENTING OR TREATING CUTANEOUS INJURY</p> <p>(73) Capricor, Inc.</p> <p>(72) HEMMATI, Houman RODRIGUEZ-BORLADO, Luis PECK, Kiel, A. MARBAN, Linda</p> <p>(31) 201662311905 P (32) 22.03.2016 (33) United States of America</p> <hr/> <p>(51) A61P 31/12 C07D 311/30 A61K 31/352</p> <p>(11) EP3911413 (21) EP20701700.5 (47) 06.12.2023 (87) EP2020050953 23.07.2020</p> <p>(22) 16.01.2020</p> <p>(54) SUBSTITUTED CHROMEN-4-ONE FOR THE TREATMENT AND PROPHYLAXIS OF HEPATITIS B VIRUS INFECTION</p> <p>(73) F. Hoffmann-La Roche AG</p> <p>(72) CHEN, Dongdong FENG, Song LIANG, Chungen MIAO, Kun TAN, Xuefei SHEN, Hong</p> <p>(31) PCT/CN2019/072117 (32) 17.01.2019 (33) World Intellectual Property Office (WIPO)</p> <hr/> <p>(51) A61P 39/06 A61K 38/44 A61K 38/17 A61K 48/00 A61K 31/7115</p> <p>(11) EP3777980 (21) EP20196298.2 (47) 06.12.2023 (22) 29.10.2014</p> <p>(54) NUCLEAR FACTOR ERYTHROID 2-LIKE 2 (NRF2) FOR USE IN TREATMENT OF AGE-RELATED MACULAR DEGENERATION</p> <p>(73) President and Fellows of Harvard College</p> <p>(72) CEPKO, Constance, L. XIONG, Wenjun</p> <p>(31) 201361896805 P (32) 29.10.2013 (33) United States of America</p> <hr/> <p>(51) A61Q 19/04 A61Q 19/00 A61K 8/02 A61K 8/04 A61K 8/19 A61K 8/891 A61K 8/92</p> <p>(11) EP3958985 (21) EP20754311.7 (47) 06.12.2023 (87) FR2020050689 29.10.2020 (22) 23.04.2020</p>	<p>(54) COMPOUND COMPRISING A FUNCTIONAL AGENT, AND RELATED MANUFACTURING METHOD</p> <p>(73) Miyoshi Europe</p> <p>(72) GOUGEON, Sébastien DAUPHIN, Quentin SELLAL, Laetitia NICOLAS, Stephane BOSMET, Pauline</p> <p>(31) 1904459 (32) 26.04.2019 (33) France</p> <hr/> <p>(51) A61Q 19/08 A61K 8/35 A61Q 17/04 A61Q 19/00 A61K 9/00 A61K 31/12 A61K 31/216 A61K 47/44</p> <p>(11) EP3532019 (21) EP17807959.6 (47) 06.12.2023 (87) US2017059212 03.05.2018 (22) 31.10.2017</p> <p>(54) SKIN ENHANCING COMPOSITIONS AND METHODS</p> <p>(73) Sytheon Limited</p> <p>(72) CHAUDHURI, Ratan K.</p> <p>(31) 201662415493 P (32) 31.10.2016 (33) United States of America</p> <hr/> <p>(51) A62B 9/04 (11) EP3813958 (21) EP19734491.4 (47) 06.12.2023 (87) GB2019051777 02.01.2020 (22) 24.06.2019</p> <p>(54) CONNECTION APPARATUS FOR BREATHING APPARATUS</p> <p>(73) Draeger Safety UK Limited</p> <p>(72) MCKAY, Timothy TOWNSEND, Paul Nicholas ALLAN, Jason Edward HANNARD, Evan BRIMER, Lee Kevin</p> <p>(31) 201810481 (32) 26.06.2018 (33) United Kingdom</p> <hr/> <p>(51) A62B 18/10 A62B 18/02 A62B 23/02</p> <p>(11) EP3512608 (21) EP17777443.7 (47) 06.12.2023 (87) US2017051066 22.03.2018 (22) 12.09.2017</p> <p>(54) EXHALATION VALVE AND RESPIRATOR INCLUDING SAME</p> <p>(73) 3M Innovative Properties Company</p> <p>(72) EITZMAN, Philip D. XUE, Thomas J.</p> <p>(31) 201662395429 P (32) 16.09.2016 (33) United States of America</p> <hr/>	<p>(51) A62C 2/00 A62C 2/04 A62C 2/06 A62C 3/04 A62C 3/06 A62C 3/07 A62C 3/08 A62C 3/00 F16B 37/14 B64D 45/02</p> <p>(11) EP3446757 (21) EP18185783.0 (47) 06.12.2023 (22) 26.07.2018</p> <p>(54) IGNITION-QUENCHING SYSTEMS</p> <p>(73) The Boeing Company</p> <p>(72) ROPER, Christopher S. LOWELL, John Rubrecht KWON, Eddie DAMAZO, Jason Scott CLOUGH, Eric C. ECKEL, Zak C. SMITH, Sloan Patrick SCHUBERT, Randall McKNIGHT, Geoffrey P. MIKULSKY, Jacob J. YANG, Sophia Shu KOLODZIEJSKA, Joanna CAMERON, Michael Scott RAWDON, Blaine Knight HANSEN, Darrin M.</p> <p>(31) 201715684738 (32) 23.08.2017 (33) United States of America</p> <hr/> <p>(51) A62C 3/00 A62C 35/02 A62C 35/13 A62C 37/50</p> <p>(11) EP3854458 (21) EP21150985.6 (47) 06.12.2023 (22) 11.01.2021</p> <p>(54) CARTRIDGE STATUS INDICATOR</p> <p>(73) Carrier Corporation</p> <p>(72) LINES, Michael</p> <p>(31) 202062963603 P (32) 21.01.2020 (33) United States of America</p> <hr/> <p>(51) A62C 3/07 A62C 3/16 B61D 49/00 B60R 16/03 B61D 17/12</p> <p>(11) EP3325106 (21) EP16759716.0 (47) 06.12.2023 (87) EP2016069950 30.03.2017 (22) 24.08.2016</p> <p>(54) FIRE PROTECTION FOR A SWITCH IN A VEHICLE, IN PARTICULAR A RAIL VEHICLE</p> <p>(73) Siemens Mobility GmbH</p> <p>(72) BIERKE, Andreas DICK, Florian Sebastian KITZEL, Hans-Peter</p> <p>(31) 102015218176 (32) 22.09.2015</p> <hr/>
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(33) Germany	(21) EP21717822.7	H02J 50/00
(51) A62C 27/00	(47) 06.12.2023	H02J 50/12
A62C 31/05	(87) EP2021058986	H04W 4/80
A62C 3/02	18.11.2021	A63B 24/00
A62C 31/24	(22) 07.04.2021	(11) EP3983096
(11) EP3638380	(54) FIRE-FIGHTING NOZZLE, FIRE-	(21) EP20826564.5
(21) EP18816700.1	FIGHTING SYSTEM AND METHOD	(47) 06.12.2023
(47) 06.12.2023	FOR OPERATING A FIRE-FIGHTING	(87) US2020038051
(87) AU2018050589	SYSTEM	24.12.2020
20.12.2018	(73) FOGTEC Brandschutz GmbH	(22) 17.06.2020
(22) 13.06.2018	(72) KOPP, Rüdiger	(54) SPORTS BALL WITH ELECTRONICS
(54) FLUID DISPERSION SYSTEM FOR	HILTEMANN, Ulrich	HOUSED IN SHOCK-ABSORBING
FIRE SUPPRESSION	(31) 102020112805	CARRIER
(73) Erciftci, Irfan	(32) 12.05.2020	(73) DDSports, Inc.
(72) Erciftci, Irfan	(33) Germany	(72) IANNI, Bruce C.
(31) 2017902237	(51) A63B 24/00	ROSS, Davyeon, D.
(32) 13.06.2017	A63B 23/16	MAZIARZ, Michael
(33) Australia	A63B 71/06	KAHLER, Clint, A.
(51) A62C 33/02	A61B 5/11	(31) 201962862232 P
B65H 54/00	A63F 9/00	(32) 17.06.2019
B65H 75/36	(11) EP3960256	(33) United States of America
B65H 57/00	(21) EP19926503.4	(51) A63B 67/02
B65H 54/78	(47) 06.12.2023	A63F 13/812
(11) EP3468675	(87) KR2019008128	A63F 13/245
(21) EP17732603.0	29.10.2020	(11) EP3609586
(47) 06.12.2023	(22) 03.07.2019	(21) EP18784849.4
(87) NL2017050388	(54) TO-BE-DETECTED UNIT FOR	(47) 06.12.2023
21.12.2017	REHABILITATION TRAINING AND	(87) CA2018050437
(22) 12.06.2017	REHABILITATION TRAINING SYSTEM	18.10.2018
(54) RETRACTING DEVICE WITH HOSE	(73) Morethings Co., Ltd.	(22) 10.04.2018
GUIDE FOR RETRACTING A HOSE,	(72) HAN, Jeong Min	(54) GOLF SYSTEM
VEHICLE PROVIDED THEREWITH AND	KWAK, Jae Kyung	(73) Ank Partners Inc.
METHOD THEREFOR	OH, Ji Won	(72) Korpach, Arthur Neil
(73) Hytrans Beheer B.V.	PARK, Hwan Il	(31) 201762483618 P
(72) HUT, Robert Dirk	AN, Kwang Dek	(32) 10.04.2017
(31) 2016951	(31) 20190046730	(33) United States of America
(32) 13.06.2016	(32) 22.04.2019	(51) A63F 13/2145
(33) Netherlands	(33) Korea (Republic)	A63F 13/22
(51) A62C 35/62	(51) A63B 29/02	A63F 13/24
A62C 35/68	(11) EP3854462	A63F 13/26
A62C 37/50	(21) EP21153090.2	A63F 13/92
G01M 3/04	(47) 06.12.2023	A63F 13/98
A62C 3/00	(22) 22.01.2021	A63F 13/235
G01N 17/00	(54) ICE SCREW	A63F 13/23
G01N 17/04	(73) GRIVEL S.R.L.	(11) EP3345661
(11) EP3743167	(72) GOBBI, Oliviero	(21) EP17164980.9
(21) EP19704487.8	(31) 202000001423	(47) 06.12.2023
(47) 06.12.2023	(32) 24.01.2020	(22) 05.04.2017
(87) US2019014564	(33) Italy	(54) GAME SYSTEM, GAME DEVICE, AND
01.08.2019	(51) A63B 35/12	GAME CONTROLLER ALLOWING
(22) 22.01.2019	B63C 11/02	IMPROVEMENT IN USABILITY
(54) SYSTEM AND METHOD FOR	(11) EP3837026	(73) Nintendo Co., Ltd.
MONITORING DIFFERENTIAL	(21) EP19762871.2	(72) OIZUMI, Toshiki
PRESSURE ACROSS A DRY PIPE	(47) 06.12.2023	YASUDA, Shumpei
VALVE IN A FIRE SUPPRESSION	(87) SI2019050014	(31) 2017001260
SYSTEM	20.02.2020	(32) 06.01.2017
(73) Tyco Fire Products LP	(22) 05.08.2019	(33) Japan
(72) GOYETTE, Chad A.	(54) AN UNDERWATER SCOOTER FOR	(51) A63F 13/26
MAGNONE, Zachary L.	DIVERS	A63F 13/24
(31) 201862620636 P	(73) Oceanus, Podvodna Fotografija, Andrej	G06F 3/033
201862620631 P	Voje S.P.	(11) EP3888766
(32) 23.01.2018	(72) VOJE, Andrej	(21) EP21164658.3
23.01.2018	KUNC, Robert	(47) 06.12.2023
(33) United States of America	(31) 201800177	(22) 24.03.2021
United States of America	(32) 13.08.2018	(54) INPUT DEVICE
(51) A62C 35/68	(33) Slovenia	(73) Sony Interactive Entertainment Inc.
A62C 37/14	(51) A63B 43/00	(72) KOBAYASHI, Ikuo
(11) EP4149639	A63B 41/02	IGARASHI, Takeshi

MORITA, Masaho	C07C 7/08	F25B 9/00
SUZUKI, Kazuyuki	C07C 15/073	F25B 25/00
ITO, Akinori	C07C 15/08	F25B 49/02
(31) 2020065101	(11) EP3806971	G01N 30/20
(32) 31.03.2020	(21) EP19837891.1	G01N 30/54
(33) Japan	(47) 06.12.2023	C09K 5/04
(51) A63G 21/22	(87) US2019042530	(11) EP3525902
B61B 12/02	23.01.2020	(21) EP17860662.0
F16B 45/02	(22) 19.07.2019	(47) 06.12.2023
A62B 35/00	(54) PROCESS FOR THE SEPARATION OF	(87) US2017056696
B61B 7/00	ETHYLBENZENE FROM OTHER C8	19.04.2018
(11) EP3995192	AROMATIC COMPOUNDS	(22) 14.10.2017
(21) EP21203051.4	(73) SCG Chemicals Co., Ltd.	(54) OPEN LOOP COOLING SYSTEM
(47) 06.12.2023	Sulzer Management AG	(73) Supercritical Fluid Technologies, Inc.
(22) 17.10.2021	(72) KAMMAFOO, Alisa	(72) JAMES, Kenneth, Joseph
(54) IMPROVED CONNECTION DEVICE	THIRASAK, Attapong	WAIBEL, Brian, Jeffrey
WITH HANDLE	DING, Zhongyi	KREWSON, Kenneth, Richard
(73) Zedel	(31) 201862701059 P	CHIKWEM, Chinedu, David
(72) MAURICE, Alain	(32) 20.07.2018	BRISACH, Daniel, Alan
VUILLERMOZ, Benoît	(33) United States of America	FERRARA, Kim
QUILLARD, Christophe	(51) B01D 15/18	EBERSOLD, Curtis, B.
(31) 2011498	B01D 15/20	(31) 201715504313
(32) 09.11.2020	G01N 30/60	201715397452
(33) France	(11) EP3585495	201662408346 P
(51) A63G 31/02	(21) EP18708344.9	(32) 15.02.2017
A63G 31/16	(47) 06.12.2023	03.01.2017
G09B 9/02	(87) EP2018053845	14.10.2016
G09B 9/04	30.08.2018	(33) United States of America
G09B 9/12	(22) 15.02.2018	United States of America
G09B 9/14	(54) A METHOD IN CONTINUOUS	United States of America
(11) EP3917631	CHROMATOGRAPHY	(51) B01D 24/16
(21) EP20748078.1	(73) Cytiva Sweden AB	B01D 24/36
(47) 06.12.2023	(72) SICHTING, Martin	B01D 24/44
(87) AU2020000010	BERG, Mikael, Johan Helmer Eugen	B01D 24/46
06.08.2020	BLOM, Hans	(11) EP3804830
(22) 31.01.2020	(31) 201702856	(21) EP20200084.0
(54) A MOTION SIMULATION APPARATUS	(32) 22.02.2017	(47) 06.12.2023
(73) Assured IT Pty Ltd	(33) United Kingdom	(22) 05.10.2020
(72) SMITH, Alan	(51) B01D 15/18	(54) REVERSIBLE WASHING, FLOATING
KINCHINGTON, Justin	B01D 15/36	BED TYPE REVERSE SEWAGE
(31) 2019900285	B01J 41/20	TREATMENT SYSTEM AND
(32) 31.01.2019	B01J 41/05	TREATMENT METHOD THEREOF
(33) Australia	(11) EP3762119	(73) Hu, Ming-Chun
(51) A63H 3/33	(21) EP19715161.6	Hu, Chao-Shen
A63H 5/00	(47) 06.12.2023	(72) Hu, Ming-Chun
A63H 11/00	(87) FR2019050506	(31) 108136287
H04R 1/00	12.09.2019	(32) 07.10.2019
H04R 1/02	(22) 07.03.2019	(33) Taiwan, Chinese Taipei
A63H 3/28	(54) CHROMATOGRAPHIC SEPARATION	(51) B01D 29/64
G06F 3/16	OF AMMONIUM SULPHATE AND OF 2-	D06F 39/10
G10K 15/04	HYDROXY-2-METHYLPROPIONIC ACID	(11) EP4074398
H04R 3/12	(73) Trinseo Europe GmbH	(21) EP22162081.8
(11) EP3932507	(72) LESAFFRE, Thibault	(47) 06.12.2023
(21) EP21761957.6	EDON, Marjory	(22) 15.03.2022
(47) 06.12.2023	REDELSPERGER, Laurine	(54) FILTER SYSTEM, WATER CONVEYING
(87) JP2021015280	DUPLESSIX, Aymeric	DOMESTIC APPLIANCE AND METHOD
21.10.2021	(31) 1852067	FOR FILTERING A FLUID
(22) 13.04.2021	(32) 09.03.2018	(73) BSH Hausgeräte GmbH
(54) SOUND-GENERATING DEVICE FOR	(33) France	(72) Bischof, Andreas
PET TOY, AND PET TOY	(51) B01D 15/40	Eglmeier, Hans
(73) Tomy Company, Ltd.	G01N 30/30	(31) 102021203746
(72) YAMAZAKI, Junko	G01N 30/22	(32) 15.04.2021
NAGASHIMA, Gen	G01N 30/60	(33) Germany
(31) 2020074103	B01J 20/281	(51) B01D 29/68
(32) 17.04.2020	B01D 15/14	B01D 33/50
(33) Japan	B01D 15/16	(11) EP3981488
(51) B01D 3/34	G01N 30/02	(21) EP21201093.8
B01D 3/40	F25B 7/00	(47) 06.12.2023

(22) 06.10.2021	(87) FR2015052548	B01D 61/14
(54) DEVICE FOR CLEANING FILTER CLOTH	31.03.2016	B01D 63/10
(73) Mecana Umwelttechnik GmbH	(22) 24.09.2015	B01D 69/14
(72) GRABBE, Ulrich	(54) FILTRATION DEVICE FOR AIR PURIFICATION APPLIANCE	B01D 71/02
TRAN, Anh Kiet	(73) SEB S.A.	B01D 71/26
(31) 202020105728 U	Ethera	(11) EP3528933
(32) 06.10.2020	(72) ESCALLETES, Bertrand	(21) EP17800974.2
(33) Germany	CALISKAN, Alper	(47) 06.12.2023
(51) B01D 35/18	MORIN, Patrick	(87) US2017056951
B01D 36/00	CHEVALLIER, Emmanuel	26.04.2018
B01D 29/03	CARON, Thomas	(22) 17.10.2017
B01D 29/07	COLOMB, Sylvain	(54) HYDROCARBON WASTE STREAM PURIFICATION PROCESSES USING MICROPOROUS MATERIALS HAVING FILTRATION AND ADSORPTION PROPERTIES
B01D 29/96	(31) 1459039	(73) PPG Industries Ohio, Inc.
F02M 37/24	(32) 24.09.2014	(72) GUO, Qunhui
(11) EP3784364	(33) France	PETERS, James, C.
(21) EP19721147.7	(51) B01D 53/14	(31) 201615299880
(47) 06.12.2023	B01D 53/18	(32) 21.10.2016
(87) IB2019053276	(11) EP2722095	(33) United States of America
31.10.2019	(21) EP13189663.1	(51) B01F 29/80
(22) 19.04.2019	(47) 06.12.2023	B01F 35/45
(54) CARTRIDGE GROUP FOR FUEL FILTRATION	(22) 22.10.2013	(11) EP3946703
(73) Ufi Filters s.p.a.	(54) SEPARATION OF COMPONENTS FROM A GAS MIXTURE	(21) EP20717573.8
(72) GIRONDI, Giorgio	(73) BP Technology Ventures Limited	(47) 06.12.2023
(31) 201800004830	(72) MORI, Yasushi	(87) EP2020058738
(32) 24.04.2018	(31) 201218949	08.10.2020
(33) Italy	(32) 22.10.2012	(22) 27.03.2020
(51) B01D 46/00	(33) United Kingdom	(54) MIXER HAVING A CLOSING COVER
B01D 46/02	(51) B01D 53/94	(73) Maschinenfabrik Gustav Eirich GmbH & Co KG
B01D 46/04	F01N 3/035	(72) SEILER, Andreas
(11) EP3873641	F01N 3/20	(31) 102019108869
(21) EP19787182.5	(11) EP3532190	(32) 04.04.2019
(47) 06.12.2023	(21) EP17812043.2	(33) Germany
(87) EP2019077323	(47) 06.12.2023	(51) B01F 31/10
07.05.2020	(87) IB2017056650	B01F 31/20
(22) 09.10.2019	03.05.2018	F16D 1/10
(54) FILTER DEVICE AND METHOD OF DETECTING BREAKAGE	(22) 26.10.2017	F16D 1/116
(73) Hengst SE	(54) CATALYTIC WALL-FLOW FILTER WITH PARTIAL SURFACE COATING	(11) EP3856401
(72) PIETSCHNER, Sieghard	(73) Johnson Matthey Public Limited Company	(21) EP19794521.5
EDLERHERR, Roland	(72) CHANDLER, Guy	(47) 06.12.2023
DORSCHER, Moritz	FLANAGAN, Keith	(87) EP2019079004
(31) 102018127303	PHILLIPS, Paul	30.04.2020
(32) 31.10.2018	MARVELL, David	(22) 24.10.2019
(33) Germany	(31) 201662414301 P	(54) SHAKING AND/OR MIXING DEVICE
(51) B01D 46/24	(32) 28.10.2016	(73) Hans Heidolph GmbH
B01D 46/52	(33) United States of America	(72) BAYER, Maximilian
(11) EP3976225	(51) B01D 63/10	WERNER, Frank
(21) EP20732426.0	(11) EP3427815	(31) 202018004940 U
(47) 06.12.2023	(21) EP18187060.1	(32) 24.10.2018
(87) US2020034526	(47) 06.12.2023	(33) Germany
03.12.2020	(22) 17.05.2012	(51) B01J 8/00
(22) 26.05.2020	(54) DEVICE WITH LAYERED TUBULAR MEMBRANES FOR CHROMATOGRAPHY	B01J 23/84
(54) CURVED CORE FOR VARIABLE PLEAT FILTER	(73) Merck Millipore Ltd.	B01J 23/00
(73) Donaldson Company, Inc.	(72) KANANI, Dharmeshkumar, M.	B01J 38/62
(72) STANLEY, Nicholas J.	SIDHU, Navneet	(11) EP3806990
(31) 201962853935 P	KACHUIK, Bradley, A.	(21) EP19753188.2
(32) 29.05.2019	HONEYMAN, Charles, H.	(47) 06.12.2023
(33) United States of America	(31) 201161486959 P	(87) IB2019054647
(51) B01D 53/04	(32) 17.05.2011	26.12.2019
B01J 20/00	(33) United States of America	(22) 04.06.2019
B01D 53/72	(51) B01D 63/14	(54) REMOVING AND CLEANING DEHYDROGENATION CATALYSTS
B01D 53/82	C02F 101/32	(73) Nova Chemicals (International) S.A.
(11) EP3197586	C02F 1/44	(72) GAO, Xiaoliang
(21) EP15778992.6		
(47) 06.12.2023		

SIMANZHENKOV, Vasily	Italy	(54) MODIFIED Y-ZEOLITE/ZSM-5 CATALYST FOR INCREASED PROPYLENE PRODUCTION
GOODARZANIA, Shahin	(51) B01J 20/26	(73) Albemarle Europe Sprl.
BARNES, Marie	A61K 31/00	(72) LUDVIG, Maria Margaret
SULLIVAN, David	B01D 15/38	RAUTIAINEN, Erja Paivi Helena
(31) 3008612	B01J 20/285	POUWELS, Albert Carel
(32) 18.06.2018	C08F 220/00	(31) 201261740948 P
(33) Canada	C08F 292/00	(32) 21.12.2012
(51) B01J 8/24	C08F 293/00	(33) United States of America
B01J 8/18	B01J 20/30	(51) B01L 3/00
(11) EP3233263	A61K 47/36	(11) EP3641937
(21) EP15823435.1	A61K 31/726	(21) EP18737382.4
(47) 06.12.2023	C08F 251/00	(47) 06.12.2023
(87) US2015065471	(11) EP3294447	(87) GB2018051743
23.06.2016	(21) EP16793088.2	27.12.2018
(22) 14.12.2015	(47) 06.12.2023	(22) 21.06.2018
(54) AN APPARATUS USED IN A FLUIDIZED REACTION PROCESS	(87) SE2016050413	(54) DROPLET DISPENSING SYSTEMS
(73) Dow Global Technologies LLC	17.11.2016	(73) Sphere Fluidics Limited
(72) PRETZ, Matthew T.	(22) 09.05.2016	(72) JOSEPHIDES, Dimitris
SHAW, Don F.	(54) MOLECULARLY IMPRINTED POLYMERS	CRAIG, Frank, F.
(31) 201462092947 P	(73) Phase Holographic Imaging PHI AB	REHAK, Marian
(32) 17.12.2014	Bundesrepublik Deutschland, vertreten durch den Bundesminister für Wirtschaft und Energie, dieser vertreten durch den Präsidenten der	HOLMES, David
(33) United States of America	(72) SELLERGREN, Börje	(31) 201710002
(51) B01J 8/42	SHINDE, Sudhirkumar	(32) 22.06.2017
C01B 3/00	GJÖRLOFF WINGREN, Anette	(33) United Kingdom
C01B 3/22	RURACK, Knut	(51) B01L 3/00
(11) EP3487613	Wan, Wei	C12M 3/06
(21) EP17745146.5	(31) 1530062	C12M 1/42
(47) 06.12.2023	(32) 09.05.2015	G01N 15/10
(87) EP2017067816	(33) Sweden	G01N 15/14
25.01.2018	(51) B01J 29/06	G01N 15/00
(22) 14.07.2017	B01J 37/14	(11) EP3870364
(54) METHOD FOR THE DEHYDROGENATION OF ORGANIC MOLECULES	C10G 2/00	(21) EP19789663.2
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	(11) EP3458191	(47) 06.12.2023
(72) HORNUNG, Andreas	(21) EP17800107.9	(87) EP2019077936
SCHMETTERER, Clemens	(47) 06.12.2023	30.04.2020
DOMMEL, Daniela	(87) US2017033143	(22) 15.10.2019
(31) 102016213455	23.11.2017	(54) PARTICLE AGGREGATION METHOD AND SYSTEM IN A CHANNEL
(32) 22.07.2016	(22) 17.05.2017	(73) Technische Universität München
(33) Germany	(54) THREE-DIMENSIONAL POROUS NISE2 FOAM-BASED HYBRID CATALYSTS FOR ULTRA-EFFICIENT HYDROGEN EVOLUTION REACTION IN WATER SPLITTING	(72) HAYDEN, Oliver
(51) B01J 13/14	(73) University of Houston System	BARNKOB, Rune
A61J 3/07	(72) REN, Zhifeng	(31) 18202362
B01J 13/04	ZHOU, Haiqing	(32) 24.10.2018
B01J 13/22	YU, Fang	(33) European Patent Office (EPO)
B01J 2/06	CHEN, Shuo	(51) B02C 2/04
B01J 2/18	(31) 201662337730 P	B02C 2/06
(11) EP3493899	(32) 17.05.2016	(11) EP3860762
(21) EP17761137.3	(33) United States of America	(21) EP18782042.8
(47) 06.12.2023	(51) B01J 29/80	(47) 06.12.2023
(87) IB2017054782	B01J 29/08	(87) EP2018076660
08.02.2018	B01J 29/40	09.04.2020
(22) 04.08.2017	B01J 35/02	(22) 01.10.2018
(54) DOSAGE FORMS MATURATION DEVICE, MACHINE FOR PRODUCING DOSAGE FORMS WITH THE DEVICE	C10G 11/05	(54) GYRATORY CRUSHER MAIN SHAFT SLEEVE
(73) Aptsol Srls	C07C 4/06	(73) Sandvik SRP AB
(72) FOGLIO BONDA, Olga	C07C 11/06	(72) GUNNARSSON, Johan
(31) 201600083121	(11) EP2919907	(51) B04B 9/08
201600083078	(21) EP13811955.7	(11) EP2799148
201600083055	(47) 06.12.2023	(21) EP14305647.1
(32) 05.08.2016	(87) EP2013077509	(47) 06.12.2023
05.08.2016	26.06.2014	(22) 30.04.2014
05.08.2016	(22) 19.12.2013	(54) Laboratory centrifuge including means for locking the translation of a rotor on a drive motor shaft
(33) Italy		(73) AFI Centrifuge
Italy		(72) Le Guyader, Philippe

Letourneur, Jean-Claude	16.01.2020	PERSSON, Daniel
Rolland, Norbert	(22) 25.06.2019	(31) 2050227
(31) 1354025	(54) MIST-GENERATING DEVICE	(32) 28.02.2020
(32) 02.05.2013	(73) Panasonic Intellectual Property	(33) Sweden
(33) France	Management Co., Ltd.	(51) B05C 5/00
(51) B05B 1/08	(72) UEDA, Mitsuhiko	B05C 5/02
B05B 12/04	KIRIYAMA, Tatsuya	B05D 5/00
G05D 7/06	TACHIBANA, Hiroaki	(11) EP3341134
A01M 7/00	SHIBUYA, Shogo	(21) EP16839835.2
(11) EP4080315	(31) 2018232709	(47) 06.12.2023
(21) EP21170092.7	2018131091	(87) US2016047343
(47) 06.12.2023	2018131081	02.03.2017
(22) 23.04.2021	(32) 12.12.2018	(22) 17.08.2016
(54) FIELD SPRAYER AND METHOD FOR	10.07.2018	(54) METHOD FOR FORMING
OPERATING A FIELD SPRAYER	10.07.2018	ARTICLES WITH NON-UNIFORM
(73) IWN GmbH & Co. KG	(33) Japan	DISCONTINUOUS PATTERNED
Schulte, Reinhold	Japan	COATINGS
(72) Schulte, Reinhold	Japan	(73) 3M Innovative Properties Company
Freitag, Jan	(51) B05B 11/00	(72) RATTRAY, Tyler J.
(51) B05B 1/14	B05B 11/02	PEKUROVSKY, Mikhail L.
B05B 11/00	B05B 11/10	O'HARE, Jonathan J.
B05B 15/40	(11) EP3840892	BENSON, Peter T.
(11) EP3870372	(21) EP19770196.4	STENSVAD, Karl K.
(21) EP19828895.3	(47) 06.12.2023	JERRY, Glen A.
(47) 06.12.2023	(87) IB2019057004	(31) 201562210050 P
(87) NL2019050702	27.02.2020	(32) 26.08.2015
30.04.2020	(22) 20.08.2019	(33) United States of America
(22) 24.10.2019	(54) A DISPENSING SYSTEM OF	(51) B06B 1/02
(54) SPRAY DEVICE AND SPRAY NOZZLE	COMESTIBLE CREAM	B06B 1/06
UNIT	(73) Merulla, Gaetano	A61B 8/00
(73) Medspray B.V.	(72) Merulla, Gaetano	A61B 8/08
(72) VAN RIJN, Cornelis Johannes Maria	(31) 201800008152	A61B 8/12
NIJDAM, Wietze	(32) 22.08.2018	(11) EP3519109
DE KRUIJF, Wilhelmus Petrus Johannes	(33) Italy	(21) EP17780075.2
VAN EGMOND, Henri Joseph	(51) B05B 13/00	(47) 06.12.2023
(31) 2021872	(11) EP4140596	(87) EP2017075092
(32) 24.10.2018	(21) EP22202070.3	12.04.2018
(33) Netherlands	(47) 06.12.2023	(22) 03.10.2017
(51) B05B 1/34	(22) 22.12.2020	(54) INTRA-CARDIAC
B05B 1/18	(54) APPARATUS AND METHOD FOR	ECHOCARDIOGRAPHY INTERPOSER
B05B 1/16	THE APPLICATION OF SURFACE	(73) Koninklijke Philips N.V.
B05B 1/26	TREATMENTS ON ARTICLES	(72) SUDOL, Wojtek
(11) EP3812047	(73) TAPEMATIC S.p.A.	OSSMANN, William, John
(21) EP20203924.4	(72) PEREGO, Luciano	(31) 201662434489 P
(47) 06.12.2023	(31) 202000007588	201662403278 P
(22) 26.10.2020	(32) 09.04.2020	(32) 15.12.2016
(54) WATER OUTLET DEVICE FOR	(33) Italy	03.10.2016
DIFFERENT WATER SPRAYS FROM	(51) B05B 13/02	(33) United States of America
THE SAME NOZZLE	B05B 14/30	United States of America
(73) Xiamen Solex High-Tech Industries Co.,	D21H 23/50	(51) B06B 1/02
Ltd.	D06B 1/02	H04R 1/02
(72) LIN, Fengde	D06B 5/08	G10K 9/125
CAO, Bin	B05B 1/04	G10K 11/24
CHEN, Donghai	B05B 1/08	H04R 17/00
(31) 201911025608	B05B 12/04	(11) EP3595819
(32) 25.10.2019	B05B 12/12	(21) EP18711526.6
(33) China	(11) EP4110530	(47) 06.12.2023
(51) B05B 5/057	(21) EP21702671.5	(87) EP2018056224
B05B 17/06	(47) 06.12.2023	20.09.2018
B05B 5/025	(87) EP2021052318	(22) 13.03.2018
B05B 7/08	02.09.2021	(54) PART THAT CAN BE WORN ON THE
B05B 7/06	(22) 01.02.2021	BODY, AND USE OF SAID PART
B05B 12/14	(54) SPRAY APPLICATOR AND SPRAY UNIT	(73) TDK Electronics AG
A61L 9/14	(73) Baldwin Jimek AB	(72) RAUCH, Wolfgang
(11) EP3821914	(72) CLEMENTS, Wesley	(31) 102017105529
(21) EP19834543.1	HANSSON, Birger	(32) 15.03.2017
(47) 06.12.2023	MANSSON, Frank	(33) Germany
(87) JP2019025246	MANSSON, Patrik	(51) B07B 1/00

B07B 1/46	E02D 29/02	(87) JP2019028297
B07B 13/16	E02D 17/18	06.08.2020
(11) EP3747555	(11) EP3548670	(22) 18.07.2019
(21) EP20177645.7	(21) EP17857686.4	(54) METHOD FOR MANUFACTURING A
(47) 06.12.2023	(47) 06.12.2023	TUBULAR ROTARY COMPONENT
(22) 01.06.2020	(87) AU2017000207	(73) NIPPON STEEL CORPORATION
(54) MOBILE AGGREGATE PROCESSING	12.04.2018	(72) SUGAMA, Atsushi
PLANT AND METHOD OF SERVICING	(22) 04.10.2017	KITORA, Takatsugu
THE MOBILE AGGREGATE	(54) BULWARK STRUCTURE AND METHOD	(31) 2019014591
PROCESSING PLANT	(73) Curtis, Mark Robert Edmund	(32) 30.01.2019
(73) Portafill International Limited	(72) Curtis, Mark Robert Edmund	(33) Japan
(72) RAFFERTY, Malachy James	(31) 2016238840	(51) B21D 39/04
(31) 19178915	(32) 04.10.2016	F16B 17/00
(32) 07.06.2019	(33) Australia	B23P 11/00
(33) European Patent Office (EPO)	(51) B21C 23/20	F16L 13/14
(51) B07B 1/15	B65D 35/06	F04C 23/00
B07B 1/46	(11) EP3837063	F01C 21/10
(11) EP3965958	(21) EP19752178.4	(11) EP3311933
(21) EP19723407.3	(47) 06.12.2023	(21) EP17197126.0
(47) 06.12.2023	(87) EP2019071219	(47) 06.12.2023
(87) EP2019062039	20.02.2020	(22) 18.10.2017
19.11.2020	(22) 07.08.2019	(54) CAULKING TOOL, MANUFACTURING
(22) 10.05.2019	(54) CAN PACKAGING, AND APPARATUS	METHOD OF CAULKING STRUCTURE,
(54) DISC, SPACER AND	AND METHOD FOR THE PRODUCTION	AND MANUFACTURING METHOD OF
TRANSPORTATION ASSEMBLY	OF ITS BLANK	COMPRESSOR
(73) Sandvik SRP AB	(73) Linhardt GmbH & Co. KG	(73) MITSUBISHI HEAVY INDUSTRIES
(72) ESBELANI, Hodin	(72) EBNER, Stephan	THERMAL SYSTEMS, LTD.
(51) B07C 5/36	GROSS, Gustav-Konstantin	(72) TAKAHASHI, Kazuki
(11) EP3932569	(31) 102018120091	KIMATA, Yoshiyuki
(21) EP20183984.2	(32) 17.08.2018	TAKASU, Yogo
(47) 06.12.2023	(33) Germany	SATO, Hajime
(22) 03.07.2020	(51) B21D 5/00	HAMANO, Masashi
(54) AUTONOMOUS GUIDED VEHICLE	G01B 11/02	TATEISHI, Taichi
WITH MULTIPLE LOAD CARRIERS	(11) EP4076779	YAMASHITA, Takuma
(73) Körber Supply Chain Logistics GmbH	(21) EP20845374.6	KANAI, Akihiro
(72) ENENKEL, Peter	(47) 06.12.2023	(31) 2016205869
(51) B08B 1/04	(87) AT2020060471	(32) 20.10.2016
B08B 5/02	24.06.2021	(33) Japan
B60S 3/04	(22) 16.12.2020	(51) B21J 15/32
(11) EP3750640	(54) BENDING MACHINE COMPRISING AN	(11) EP3812062
(21) EP20179839.4	INSPECTION DEVICE	(21) EP20201573.1
(47) 06.12.2023	(73) TRUMPF Maschinen Austria GmbH &	(47) 06.12.2023
(22) 12.06.2020	Co. KG.	(22) 13.10.2020
(54) DEVICE AND METHOD FOR	(72) KOHLBERGER, Christian	(54) TOOL FOR JOINING COMPONENTS
CLEANING HUB AND MOUNTING	LUSTIG, Stefan	(73) Eckold GmbH & Co. KG
FACE OF VEHICLE WHEELS FROM	(31) 511332019	(72) Polossek, Bernd
RESIDUES OF POWDER PAINT	(32) 19.12.2019	(31) 102019128229
(73) Olpidürr S.P.A.	(33) Austria	(32) 18.10.2019
(72) PEDRUZZI, Patric	(51) B21D 5/02	(33) Germany
PIZZAMIGLIO, Marco Pierluigi	(11) EP3965975	(51) B22D 11/22
(31) 201900009051	(21) EP20730721.6	C23C 2/02
(32) 14.06.2019	(47) 06.12.2023	C21D 9/46
(33) Italy	(87) IB2020054323	C22C 38/00
(51) B08B 5/04	12.11.2020	C22C 38/14
(11) EP3915693	(22) 07.05.2020	B22D 11/124
(21) EP21175815.6	(54) METAL SHEET BENDING MACHINE	C21D 1/19
(47) 06.12.2023	(73) SALVAGNINI ITALIA S.p.A.	C21D 1/22
(22) 25.05.2021	(72) FARINA, Giulio	C21D 8/04
(54) COLLECTION SYSTEM AND	MENEGHELLO, Roberto	C21D 9/48
PRODUCTION PROCESS OF SAID	(31) 201900006656	C22C 38/02
COLLECTION SYSTEM	(32) 08.05.2019	C22C 38/04
(73) F.M. S.r.l.	(33) Italy	C22C 38/12
(72) FRANCHINI, Gian Carlo	(51) B21D 22/28	C21D 6/00
(31) 202000012211	B21D 19/08	C23C 2/06
(32) 25.05.2020	B21D 51/10	C22C 38/08
(33) Italy	(11) EP3919199	C22C 38/18
(51) B09B 1/00	(21) EP19914009.6	C22C 38/16
	(47) 06.12.2023	C22C 38/60

C21D 7/13	G06F 113/10	(51) B22F 9/30
(11) EP3875616	(11) EP3798895	C22C 14/00
(21) EP19899406.3	(21) EP20196495.4	H05H 1/30
(47) 06.12.2023	(47) 06.12.2023	H05H 1/42
(87) JP2019041818	(22) 16.09.2020	B22F 1/00
25.06.2020	(54) OPTIMIZED SUPPORT DESIGN FOR	B22F 1/065
(22) 25.10.2019	SINTERING PARTS WITH COMPLEX	(11) EP3389862
(54) STEEL SHEET, MEMBER, AND	FEATURES	(21) EP16876747.3
METHODS FOR PRODUCING THEM	(73) General Electric Company	(47) 06.12.2023
(73) JFE Steel Corporation	(72) Sun, Changjie	(87) US2016067100
(72) YOSHIOKA, Shimpei	Barua, Ananda	22.06.2017
ONO, Yoshihiko	Raghavan, Sathyanarayanan	(22) 16.12.2016
HONDA, Yuma	(31) 201916587991	(54) METHOD OF PRODUCING
NAKAMURA, Nobuyuki	(32) 30.09.2019	SPHEROIDAL DEHYDROGENATED
(31) 2018238964	(33) United States of America	TITANIUM ALLOY PARTICLES
(32) 21.12.2018	(51) B22F 3/105	(73) 6K Inc.
(33) Japan	B28B 1/00	(72) HADIDI, Kamal
(51) B22D 17/20	B22F 12/90	WROBEL, Gregory
B29C 45/53	B33Y 10/00	REDJDAL, Makhlof
B29C 45/83	B33Y 30/00	(31) 201562268186 P
(11) EP4090481	B22F 10/28	(32) 16.12.2015
(21) EP21703768.8	B22F 10/37	(33) United States of America
(47) 06.12.2023	B22F 10/38	(51) B22F 10/28
(87) IB2021050242	B22F 12/52	B22F 10/366
22.07.2021	B29C 64/153	B29D 30/06
(22) 14.01.2021	(11) EP3159081	B29C 33/38
(54) HEAD AND LUBRICATED PISTON	(21) EP15190791.2	B29C 33/42
(73) Copromec Die Casting S.r.l. A Socio	(47) 06.12.2023	B29D 30/66
Unico	(22) 21.10.2015	B60C 11/03
(72) SCHIVALOCCHI, Carlo	(54) POWDER APPLICATION	B22F 5/00
(31) 202000000553	ARRANGEMENT COMPRISING TWO	B33Y 10/00
(32) 14.01.2020	CAMERAS	B33Y 80/00
(33) Italy	(73) Nikon SLM Solutions AG	B29C 64/153
(51) B22F 1/052	(72) Haupt, Benno	(11) EP3233337
B22F 9/24	Neef, Arne	(21) EP15817207.2
H01M 8/1018	Schwarze, Dieter	(47) 06.12.2023
H01M 4/92	Krol, Toni Adam	(87) EP2015080043
B22F 1/18	(51) B22F 5/00	23.06.2016
B22F 1/054	C22C 1/05	(22) 16.12.2015
H01M 8/10	C22C 1/10	(54) LASER SINTERING METHOD FOR
(11) EP3027308	C22C 9/02	MANUFACTURING A TREAD MOLDING
(21) EP14832120.1	C22C 9/06	ELEMENT
(47) 06.12.2023	F16C 17/02	(73) Compagnie Générale des
(87) SG2014000338	F16C 33/10	Etablissements Michelin
05.02.2015	F16C 33/14	Compagnie Générale des
(22) 18.07.2014	F16C 33/12	Etablissements Michelin
(54) METHOD FOR FORMING NOBLE	B22F 3/02	(72) BLANCHET, Etienne
METAL NANOPARTICLES ON A	B22F 5/10	KHAOYABUT, Supradit
SUPPORT	B22F 9/08	(31) 1462681
(73) Nanyang Technological University	C22C 1/04	(32) 18.12.2014
(72) ZHOU, Weijiang	(11) EP3424624	(33) France
LI, Miao	(21) EP17760121.8	(51) B22F 10/28
CHAN, Siew Hwa	(47) 06.12.2023	B33Y 10/00
(31) 201361861108 P	(87) JP2017008257	B33Y 30/00
(32) 01.08.2013	08.09.2017	B33Y 50/02
(33) United States of America	(22) 02.03.2017	B29C 64/153
(51) B22F 1/10	(54) SINTERED SLIDING BODY	B22F 10/366
B22F 3/10	EXHIBITING EXCELLENT CORROSION	B22F 3/12
B22F 10/14	RESISTANCE, HEAT RESISTANCE,	B29C 64/393
B22F 10/47	AND WEAR RESISTANCE, AND	(11) EP3826790
B22F 10/80	PRODUCTION METHOD THEREFOR	(21) EP19749157.4
B33Y 10/00	(73) Diamet Corporation	(47) 06.12.2023
B33Y 30/00	(72) ISHII Yoshinari	(87) US2019042973
B33Y 50/00	MARUYAMA Tsuneo	30.01.2020
G06F 30/17	TAKEZOE Shinichi	(22) 23.07.2019
G06F 30/20	(31) 2016042854	(54) SYSTEMS AND METHODS FOR
B22F 10/28	(32) 04.03.2016	LATERAL MATERIAL TRANSFER IN
G06F 30/23	(33) Japan	ADDITIVE MANUFACTURING SYSTEM

(73) General Electric Company	(51) B23B 31/26	(73) Sandvik Intellectual Property AB
(72) GRAHAM, Michael Evans	B23B 31/30	(72) KAKAI, Isak
CARTER, William Thomas	(11) EP4108368	LARSSON, Olof
DEATON, JR., John Broddus	(21) EP21181283.9	(51) B23D 7/06
MADELONE, JR., John Joseph	(47) 06.12.2023	B23D 13/00
ADCOCK, Thomas Charles	(22) 23.06.2021	B23B 27/16
HOEBEL, Matthias	(54) CLAMPING DEVICE FOR TOOL	B23B 29/04
ROYCHOWDHURY, Subhrajit	HOLDER	B23B 27/10
(31) 201816046693	(73) AB Sandvik Coromant	(11) EP3694668
(32) 26.07.2018	(72) MÄTLIK, Gunnar	(21) EP18785899.8
(33) United States of America	(51) B23C 5/08	(47) 06.12.2023
(51) B22F 10/85	B23C 5/22	(87) EP2018077077
(11) EP3785089	B23D 61/06	18.04.2019
(21) EP19719501.9	(11) EP3717162	(22) 05.10.2018
(47) 06.12.2023	(21) EP18808520.3	(54) HOLDER FOR A SLOTTING TOOL
(87) EP2019060392	(47) 06.12.2023	(73) Hartmetall-Werkzeugfabrik Paul Horn
31.10.2019	(87) IL2018051173	GmbH
(22) 23.04.2019	06.06.2019	(72) KANZ, Andreas
(54) METHOD AND DEVICE FOR	(22) 04.11.2018	LUIK, Matthias
GENERATING CONTROL DATA FOR	(54) SLITTING CUTTER	(31) 102017123786
AN ADDITIVE MANUFACTURING	(73) Iscar Ltd.	(32) 12.10.2017
DEVICE	(72) ATHAD, Shimon	(33) Germany
(73) EOS GmbH Electro Optical Systems	(31) 201762592875 P	(51) B23K 1/06
(72) MATTES, Thomas	(32) 30.11.2017	C30B 29/06
AGHAJANI-TALESH, Anoush	(33) United States of America	C30B 33/06
HOLFELDER, Peter	(51) B23C 5/10	B23K 1/19
(31) 102018110294	(11) EP4072762	(11) EP4137618
(32) 27.04.2018	(21) EP20824692.6	(21) EP22180299.4
(33) Germany	(47) 06.12.2023	(47) 06.12.2023
(51) B22F 12/00	(87) IL2020051169	(22) 22.06.2022
B22F 12/30	17.06.2021	(54) METHOD OF BONDING SILICON
B22F 12/50	(22) 11.11.2020	PARTS USING SILICON POWDER AND
B29C 64/153	(54) CUTTING INSERT HAVING TWO	HIGH-FREQUENCY HEATING DEVICE
B29C 64/232	UPPER CUTTING EDGES AND A	(73) Lintech Corporation
B33Y 30/00	LOWER CENTRAL PROTUBERANCE	(72) YOU, HO JUNG
B22F 10/28	WITH FOUR ABUTMENT WALLS	SHIN, DONG NAM
(11) EP3204178	DEFINING AN IMAGINARY	OH, SEI KWANG
(21) EP15777688.1	QUADRILATERAL, AND ROTARY	SHIN, YEONG BEOM
(47) 06.12.2023	CUTTING TOOL	KANG, TAE-WOO
(87) EP2015073159	(73) Iscar Ltd.	(31) 20210108822
14.04.2016	(72) MEN, Yuri	(32) 18.08.2021
(22) 07.10.2015	(31) 201916708826	(33) Korea (Republic)
(54) A MODULE FOR ADDITIVE	(32) 10.12.2019	(51) B23K 7/10
MANUFACTURING APPARATUS	(33) United States of America	B23K 7/00
(73) Renishaw PLC	(51) B23C 5/10	B23K 37/02
(72) UFTON, Jake Samuel	B23C 5/20	(11) EP4088848
(31) 201417687	(11) EP3907030	(21) EP22172318.2
(32) 07.10.2014	(21) EP20858318.7	(47) 06.12.2023
(33) United Kingdom	(47) 06.12.2023	(22) 09.05.2022
(51) B23B 27/08	(87) JP2020032394	(54) TRANSPORTABLE SYSTEM FOR
C09D 167/04	04.03.2021	OXYFUEL CUTTING LARGE METAL
C09D 167/00	(22) 27.08.2020	MATERIALS
(11) EP1937434	(54) CUTTING INSERT	(73) A.L.B.A. S.r.l.
(21) EP06846107.8	(73) Tungaloy Corporation	(72) D'OTTAVI, Riccardo
(47) 06.12.2023	(72) YOSHIDA, Satoru	(31) 202100012323
(87) US2006060043	(31) 2019155770	(32) 13.05.2021
26.04.2007	(32) 28.08.2019	(33) Italy
(22) 18.10.2006	(33) Japan	(51) B23K 9/095
(54) COATING COMPOSITIONS FOR	(51) B23C 5/28	B23K 9/10
CONTAINERS AND METHODS OF	B23C 5/00	(11) EP3341152
COATING	B23P 15/34	(21) EP16754529.2
(73) SWIMC LLC	(11) EP3150319	(47) 06.12.2023
(72) EVANS, Richard, H.	(21) EP15187897.2	(87) EP2016069994
O'BRIEN, Robert, M.	(47) 06.12.2023	09.03.2017
SPYNDA, Rachael, A.	(22) 01.10.2015	(22) 24.08.2016
(31) 727734 P	(54) A TOOL BODY, A MILLING TOOL AND	(54) A SENSOR MODULE FOR
(32) 18.10.2005	A METHOD FOR MANUFACTURING A	A FABRICATION TOOL AND
(33) United States of America	TOOL BODY	MANUFACTURING METHOD

(73) Linde GmbH	(33) Germany	B23K 103/00
(72) HILTON, Derrick Ernest RAND, Christopher	(51) B23K 25/00	(11) EP3898062
(31) 201515302	(11) EP3645205	(21) EP19848985.8
(32) 28.08.2015	(21) EP18737027.5	(47) 06.12.2023
(33) United Kingdom	(47) 06.12.2023	(87) FR2019053283
(51) B23K 9/10	(87) IB2018054059	25.06.2020
B23K 9/095	03.01.2019	(22) 23.12.2019
G01N 21/00	(22) 06.06.2018	(54) METHOD FOR LASER TREATMENT OF
B23K 31/12	(54) STOPPING AN ELECTROSLAG	SURFACES
(11) EP3388181	WELDING PROCESS	(73) EFI Lighting
(21) EP18162581.5	(73) ESAB AB	(72) NOULETTE, Jacques
(47) 06.12.2023	(72) RAUDSEPP, Hannes Hugo	BROCHIER, Cédric
(22) 19.03.2018	ANDRÉN, Ulf Nicklas	PICOT-CLEMENTE, Jérémy
(54) SYSTEM AND METHOD FOR	(31) 201715635767	MORANGE, Julien
POSITIVE METAL IDENTIFICATION	(32) 28.06.2017	(31) 1873723
AND INTELLIGENT CONSUMABLE	(33) United States of America	(32) 21.12.2018
IDENTIFICATION	(51) B23K 26/03	(33) France
(73) Lincoln Global, Inc.	(11) EP3797917	(51) B23K 26/06
(72) Kottman, Michael	(21) EP20180254.3	B23K 26/073
Narayanan, Badri	(47) 06.12.2023	B23K 26/067
Procario, John	(22) 16.06.2020	B23K 26/066
(31) 201715462439	(54) LASER WELDING STATE EVALUATION	(11) EP3990211
(32) 17.03.2017	APPARATUS, METHOD, SYSTEM AND	(21) EP21718790.5
(33) United States of America	PROGRAM	(47) 06.12.2023
(51) B23K 9/29	(73) Kabushiki Kaisha Yaskawa Denki	(87) EP2021059422
B23K 9/028	(72) FUKUSHIMA, Seiichiro	14.10.2021
B23K 9/167	KOBAYASHI, Yuya	(22) 12.04.2021
B23K 101/06	MOTOYOSHI, Takashi	(54) OPTICAL DEVICE, METHOD AND USE
B23K 9/16	(31) 2019121885	(73) SurFunction GmbH
(11) EP3556505	(32) 28.06.2019	DLIP UG
(21) EP17881151.9	(33) Japan	(72) BOGDAN, Voisiat
(47) 06.12.2023	(51) B23K 26/03	LASAGNI, Andrés, Fabián
(87) JP2017044948	A61B 18/20	(31) 102020204656
21.06.2018	B23K 26/14	(32) 11.04.2020
(22) 14.12.2017	B23K 26/21	(33) Germany
(54) WELDING TORCH AND ALL-POSITION	B23K 26/362	(51) B23K 26/144
WELDING DEVICE	B23K 26/382	B23K 26/146
(73) Kawasaki Jukogyo Kabushiki Kaisha	B23K 9/095	B23K 26/70
(72) AKAMATSU, Masahiko	B23K 15/00	B23K 37/00
YONEMOTO, Shingo	B23K 15/02	B23K 26/342
KOZUKI, Takanori	B23K 15/08	(11) EP4031319
HIBINO, Shinya	B22F 3/105	(21) EP20772008.7
IKEZAWA, Yukio	(11) EP2619633	(47) 06.12.2023
NIIMI, Kenichiro	(21) EP11826290.6	(87) EP2020075065
ARAO, Akitsugu	(47) 06.12.2023	25.03.2021
(31) 2016242470	(87) CA2011050599	(22) 08.09.2020
(32) 14.12.2016	29.03.2012	(54) STOCK FEEDING DEVICE
(33) Japan	(22) 26.09.2011	(73) Fraunhofer-Gesellschaft zur Förderung
(51) B23K 20/04	(54) METHOD OF COHERENT IMAGING	der angewandten Forschung e.V.
B21B 1/38	AND FEEDBACK CONTROL FOR	(72) KELBASSA, Jana
B32B 15/01	MODIFICATION OF MATERIALS	GASSER, Andres
B23K 101/16	(73) IPG Photonics (Canada) Inc.	EBERT, Thomas
B23K 101/18	(72) WEBSTER, Paul J. L.	KOSTELNIK, Bastian
(11) EP3541561	FRASER, James M.	(31) 102019124856
(21) EP17791079.1	YANG, Victor X. D.	(32) 16.09.2019
(47) 06.12.2023	(31) 386496 P	(33) Germany
(87) EP2017077484	201161435076 P	(51) B23K 35/02
24.05.2018	(32) 25.09.2010	C22F 1/08
(22) 26.10.2017	21.01.2011	B23K 9/12
(54) METHOD FOR PRODUCING A	(33) United States of America	C21D 9/00
COMPOSITE MATERIAL THROUGH	United States of America	(11) EP3860794
PLATING, AND COMPOSITE MATERIAL	(51) B23K 26/046	(21) EP19784010.1
(73) Wickeder Westfalenstahl GmbH	B23K 26/0622	(47) 06.12.2023
(72) BALKENHOL, Michael	B23K 26/06	(87) EP2019076620
ERLEMEYER, Jens	B23K 26/082	09.04.2020
(31) 102016122198	B23K 26/08	(22) 01.10.2019
(32) 18.11.2016	B23K 26/38	(54) METHOD FOR HEAT TREATMENT
	B23K 101/32	OF A CONTACT ELEMENT SUITABLE

FOR WELDING USING A CURRENT-CARRYING WIRE ELECTRODE	(33) Italy	(33) Germany
(73) Messer SE & Co. KGaA	(51) B23P 19/04	(51) B23Q 17/24
(72) BÖCKLER, Thomas	B60J 10/00	B23Q 17/09
HILDEBRANDT, Bernd	G01B 11/24	B23Q 17/00
SELDERS, Georg	(11) EP3740343	(11) EP3964328
ROCKSER, Mario	(21) EP19712500.8	(21) EP20194899.9
KAMPPFMEYER, Dirk	(47) 06.12.2023	(47) 06.12.2023
(31) 102018007760	(87) DE2019100046	(22) 07.09.2020
(32) 02.10.2018	25.07.2019	(54) TESTING OF A TOOL OF A MACHINE TOOL
(33) Germany	(22) 17.01.2019	(73) SICK AG
(51) B23K 37/053	(54) DEVICE FOR DETECTING THE POSITION OF A SEAL	(72) Weber, Thomas
(11) EP3789159	(73) ATN Hölzel GmbH	Fritz, Kim
(21) EP20192880.1	Bayerische Motoren Werke Aktiengesellschaft	Krumm, Gerald
(47) 06.12.2023	(72) RUDOLF, Philipp	Schröder, Robert
(22) 26.08.2020	LANGGÄRTNER, Lukas	(51) B24B 3/02
(54) PIPE WELDING DEVICE	LAUDAN, Alexander	B23C 5/20
(73) Bergader Privatkäserei GmbH	(31) 102018110303	B27G 13/10
(72) Wolfertstetter, Heinrich	102018101248	(11) EP3736083
Baumgart, Michael	(32) 27.04.2018	(21) EP20173529.7
(31) 102019122886	19.01.2018	(47) 06.12.2023
(32) 27.08.2019	(33) Germany	(22) 07.05.2020
(33) Germany	Germany	(54) METHOD FOR SHARPENING A BLADE WHICH CAN BE INSERTED INTO A CUTTER HEAD AND CUTTER HEAD WITH SHARPENED BLADE
(51) B23P 15/10	(51) B23Q 1/48	(73) Leitz GmbH & Co. KG
F02F 3/00	B23Q 11/08	(72) Schlosser, Robert
F02F 3/22	(11) EP3808500	Aicher, Alexander
(11) EP3234330	(21) EP20197637.0	Maier, Erich
(21) EP15821243.1	(47) 06.12.2023	(31) 102019111986
(47) 06.12.2023	(22) 23.09.2020	(32) 08.05.2019
(87) US2015066918	(54) CHIPS SHIELDING DEVICE FOR A WORKING ASSEMBLY AND WORKING MACHINE COMPRISING THE DEVICE	(33) Germany
23.06.2016	(73) SCM Group S.p.A.	(51) B24B 19/02
(22) 18.12.2015	(72) BIANCHI, Fabio	B23F 15/08
(54) PISTON WITH COOLING GALLERY HAVING ENHANCED OIL INLET AND METHOD OF CONSTRUCTION THEREOF	(31) 201900018800	B24B 1/00
(73) Tenneco Inc.	(32) 15.10.2019	(11) EP4028215
(72) WEINENGER, Michael	(33) Italy	(21) EP20768529.8
(31) 201462094258 P	(51) B23Q 11/00	(47) 06.12.2023
(32) 19.12.2014	(11) EP3703903	(87) EP2020074362
(33) United States of America	(21) EP18785912.9	18.03.2021
(51) B23P 19/00	(47) 06.12.2023	(22) 01.09.2020
B23P 19/04	(87) EP2018077393	(54) METHOD FOR PRODUCING A ROTOR OF A SCREW COMPRESSOR OR A WORKPIECE WITH A HELICAL PROFILE
B23P 21/00	09.05.2019	(73) Kapp Niles GmbH & Co. KG
G01N 3/04	(22) 09.10.2018	(72) KAPP, Martin A.
B23P 19/06	(54) SUCTION-EXTRACTION ATTACHMENT	(31) 102019124394
G01N 33/44	(73) Robert Bosch GmbH	(32) 11.09.2019
G01N 35/00	(72) SONNTAG, Stefan	(33) Germany
G01N 35/04	(31) 102017219449	(51) B24B 21/20
(11) EP3781925	(32) 30.10.2017	B24B 3/54
(21) EP19723872.8	(33) Germany	B24B 21/00
(47) 06.12.2023	(51) B23Q 17/00	(11) EP3142830
(87) IB2019053070	G05B 19/4065	(21) EP15732303.1
24.10.2019	B23Q 3/00	(47) 06.12.2023
(22) 15.04.2019	(11) EP3789833	(87) FR2015051266
(54) ASSEMBLING MACHINE AND ASSEMBLY METHOD FOR COUPLING TO TWO SAMPLE-HOLDERS THE ENDS OF AN ELASTOMER SPECIMEN TO BE SUBJECTED TO DYNAMIC MECHANICAL-THERMAL ANALYSIS	(21) EP20185885.9	19.11.2015
(73) Bridgestone Europe NV/SA	(47) 06.12.2023	(22) 13.05.2015
(72) STRAFFI, Paolo	(22) 15.07.2020	(54) SHARPENING DEVICE HAVING ABRASIVE BELTS ARRANGED CROSSWISE
COSSU, Giancarlo	(54) METHOD FOR MONITORING A TOOL CLAMPING DEVICE	(73) BOBET MATERIEL
CAPALDI, Cristian	(73) Ott-Jakob Spanntechnik GmbH	(72) BODARD, Jean-Pierre
AGORETTI, Pasquale	(72) Aschauer, Florian	(31) 1454317
(31) 201800004705	Merz, Florian	(32) 15.05.2014
(32) 19.04.2018	Bechteler, Wolfgang	
	Greif, Josef	
	(31) 102019123838	
	(32) 05.09.2019	

(33) France	(33) Japan	(33) Korea (Republic)
(51) B24B 41/047	(51) B25F 5/00	(51) B25J 9/16
(11) EP4094890	F16D 43/202	(11) EP3715064
(21) EP22165338.9	(11) EP3535095	(21) EP20165510.7
(47) 06.12.2023	(21) EP17866990.9	(47) 06.12.2023
(22) 30.03.2022	(47) 06.12.2023	(22) 25.03.2020
(54) DEVICE FOR PROCESSING FLAT WORKPIECES	(87) US2017058716	(54) ROBOT
(73) Weber, Georg	11.05.2018	(73) Seiko Epson Corporation
(72) Weber, Georg	(22) 27.10.2017	(72) Teranaka, Ryosuke
(31) 102021111672	(54) CLUTCH MECHANISM FOR ROTARY POWER TOOL	(31) 2019060002
(32) 05.05.2021	(73) Milwaukee Electric Tool Corporation	(32) 27.03.2019
(33) Germany	(72) CARLSON, Mitchell	(33) Japan
(51) B24D 3/00	(31) 201662417850 P	(51) B25J 9/16
B24D 3/04	(32) 04.11.2016	G05B 19/418
B24D 3/14	(33) United States of America	(11) EP3374134
C09K 3/14	(51) B25F 5/00	(21) EP16793753.1
(11) EP3131706	H01M 10/02	(47) 06.12.2023
(21) EP15780669.6	H01M 10/48	(87) EP2016001841
(47) 06.12.2023	H02K 11/00	18.05.2017
(87) US2015025825	H01M 10/42	(22) 04.11.2016
22.10.2015	H01M 50/213	(54) CALIBRATING A SYSTEM WITH A CONVEYING MEANS AND AT LEAST ONE ROBOT
(22) 14.04.2015	H01M 50/227	(73) KUKA Deutschland GmbH
(54) ABRASIVE ARTICLE INCLUDING SHAPED ABRASIVE PARTICLES	H01M 50/262	(72) PURRUCKER, Thomas
(73) Saint-Gobain Ceramics and Plastics, Inc.	H01M 50/284	MILLER, Robert
(72) ARCONA, Christopher	H01M 50/296	MITTMANN, Ralf
LOUAPRE, David	H01M 50/519	SAGNOTTI, Daniele
MARLIN, Samuel S.	(11) EP3084857	GERSTMEIER, Manuela
YENER, Doruk Omer	(21) EP13899914.9	EICHNER, Benno
CZEREPINSKI, Jennifer H.	(47) 06.12.2023	CLAIR, Stephan
BREDER, Kristin	(87) SE2013051538	LÜCKERT, Felix
FREMY, Flavien	25.06.2015	HAGER, Markus
(31) 201461979457 P	(22) 17.12.2013	LINDNER, Maximilian
(32) 14.04.2014	(54) BATTERY PACK WITH CELL FIXING APPARATUS	(31) 102015014485
(33) United States of America	(73) Husqvarna AB	(32) 10.11.2015
(51) B25B 13/06	(72) ZELLER, Tobias	(33) Germany
B29C 45/00	RIEF, Joachim	(51) B26B 19/38
B29K 309/08	FELSER, Erik	B26B 19/06
B25G 1/12	KELLER, Stefan	(11) EP3854546
(11) EP4052847	(51) B25J 9/00	(21) EP21153290.8
(21) EP22169149.6	B25J 13/08	(47) 06.12.2023
(47) 06.12.2023	(11) EP4088880	(22) 25.01.2021
(22) 16.12.2016	(21) EP21382966.6	(54) ELECTRIC BEARD TRIMMER
(54) ELECTRICALLY ISOLATED FASTENER DRIVING DEVICE	(47) 06.12.2023	(73) Braun GmbH
(73) Apex Brands, Inc.	(22) 26.10.2021	(72) KÖPPL, Alois
(72) HEITKAMP, Timothy Edward	(54) SENSORIZED EXOSKELETON SYSTEM	EICHHORN, Reinhold
(31) 201562269730 P	(73) Gesnaer Consulting SLNE	SCHMITT, Jana
(32) 18.12.2015	(72) Perez Gil de la Serna, Juan Manuel	FÜLLGRABE, Martin
(33) United States of America	Moreno Lorente, Luis Enrique	(31) 20153389
(51) B25F 5/00	Sabin Copaci, Dorin	(32) 23.01.2020
A47L 9/28	Crespo Bartolomé, Sara	(33) European Patent Office (EPO)
B27G 3/00	(51) B25J 9/08	(51) B27N 3/00
(11) EP3831538	B25J 9/16	B27N 3/06
(21) EP19841577.0	B25J 9/12	B27N 3/08
(47) 06.12.2023	(11) EP3785864	C08G 18/76
(87) JP2019015941	(21) EP19810685.8	C08G 18/42
30.01.2020	(47) 06.12.2023	C09J 175/06
(22) 12.04.2019	(87) KR2019006280	C08L 75/06
(54) ELECTRIC WORK MACHINE	05.12.2019	C08L 97/02
(73) Koki Holdings Co., Ltd.	(22) 24.05.2019	C08G 18/30
(72) ITO Tatsuya	(54) MODULAR ROBOT SYSTEM	B32B 21/02
HAYAMA Yoshimasa	(73) Robo Risen Co. Ltd.	(11) EP3268191
HARADA Kenta	(72) YIM, Sang Bin	(21) EP16714240.5
(31) 2018141027	KIM, Hyun Soo	(47) 06.12.2023
(32) 27.07.2018	(31) 20180061983	(87) EP2016054990
	(32) 30.05.2018	15.09.2016
		(22) 09.03.2016

(54) BINDER COMPOSITION AND ITS USE IN PROCESSES FOR THE PRODUCTION OF WOOD FIBRE BOARDS	(54) PELLET COMPRISING AN AXIAL CORE AND A POLYMER SHEATH, AND ITS MANUFACTURE	B29K 105/26
(73) Novamont S.p.A.	(73) SABIC Global Technologies B.V.	B29K 101/12
(72) LOMBI, Roberto	(72) FAHIMI, Zahra	B29K 307/04
TURATI, Daniele	TUFANO, Carmela	B29K 309/08
CASTANO, Lidia	(31) 16204286	(11) EP3950282
(31) CT20158426	(32) 15.12.2016	(21) EP20779338.1
(32) 12.03.2015	(33) European Patent Office (EPO)	(47) 06.12.2023
(33) Italy	(51) B29B 15/08	(87) JP2020011603
(51) B28B 3/02	B29K 105/08	01.10.2020
B28B 5/02	D03D 15/00	(22) 17.03.2020
(11) EP3936294	D03D 15/267	(54) METHOD FOR PRODUCING PRESS-MOLDED BODY
(21) EP21184354.5	(11) EP3912780	(73) Teijin Limited
(47) 06.12.2023	(21) EP20834854.0	(72) YOKOYAMA, Keizo
(22) 07.07.2021	(47) 06.12.2023	(31) 2019062693
(54) EQUIPMENT FOR THE MANUFACTURE OF SLABS OF CERAMIC MATERIAL	(87) JP2020011827	2019062691
(73) Siti - B&T Group S.p.A.	07.01.2021	(32) 28.03.2019
(72) TAROZZI, Fabio	(22) 17.03.2020	28.03.2019
(31) 202000016744	(54) GLASS ROVING CLOTH AND GLASS-FIBER-REINFORCED RESIN SHEET	(33) Japan
(32) 09.07.2020	(73) Nitto Boseki Co., Ltd.	Japan
(33) Italy	(72) NUKUI, Yosuke	(51) B29C 43/02
(51) B28B 7/00	SAKATA, Junya	B29C 33/52
B28B 23/00	MONMA, Hideaki	B29C 33/76
B28B 23/02	(31) 2019123341	B29C 43/36
E04C 2/04	(32) 02.07.2019	B29C 70/46
(11) EP3863820	(33) Japan	(11) EP3936320
(21) EP19786766.6	(51) B29C 43/00	(21) EP20770137.6
(47) 06.12.2023	B29C 43/34	(47) 06.12.2023
(87) EP2019077427	B29C 70/08	(87) JP2020007384
16.04.2020	B29C 43/14	17.09.2020
(22) 09.10.2019	B29C 45/14	(22) 25.02.2020
(54) METHOD FOR THE PRODUCTION OF A CONCRETE DOUBLE-WALL ELEMENT	B29C 45/56	(54) METHOD FOR PRODUCING FIBER REINFORCED PLASTIC PRODUCT
(73) Martin Schwarzenbeck & Co. Bauunternehmen und Betonwerk GmbH & Co. KG	B29C 70/48	(73) Mitsubishi Chemical Corporation
(72) SCHWARZENBECK, Martin	B29C 69/00	(72) KAJI Satoshi
SCHWARZENBECK, Otto	B29K 105/08	TAKANO Tsuneo
BINSTEINER, Josef	B29K 105/12	HONMA Takashi
(31) 202018105793 U	B29K 105/26	(31) 2019042164
102018124980	B29K 101/12	(32) 08.03.2019
(32) 10.10.2018	B29K 307/04	(33) Japan
10.10.2018	B29K 309/08	(51) B29C 45/16
(33) Germany	(11) EP3950281	B29C 44/06
Germany	(21) EP20776878.9	B29C 44/08
(51) B29B 9/14	(47) 06.12.2023	B29C 45/17
B29B 9/16	(87) JP2020011604	(11) EP3352964
B29B 9/06	01.10.2020	(21) EP16788217.4
B29B 9/12	(22) 17.03.2020	(47) 06.12.2023
B29B 15/12	(54) METHOD FOR MANUFACTURING PRESS-MOLDED BODY	(87) IB2016055708
B29L 31/30	(73) Teijin Limited	30.03.2017
B29C 48/00	(72) YOKOYAMA, Keizo	(22) 23.09.2016
B29C 48/05	(31) 2019062691	(54) METHOD OF INJECTION MOLDING USING RIBS AND PRODUCT
B29C 48/06	2019062693	(73) SABIC Global Technologies B.V.
B29C 48/08	(32) 28.03.2019	(72) NEERINCX, Peter
B29C 48/09	28.03.2019	HEERKENS, Ruud
B29C 45/00	(33) Japan	(31) 201562232510 P
(11) EP3554786	Japan	(32) 25.09.2015
(21) EP17818527.8	(51) B29C 43/00	(33) United States of America
(47) 06.12.2023	B29C 43/34	(51) B29C 45/16
(87) EP2017082915	B29C 70/08	B29C 67/24
21.06.2018	B29C 43/14	B29C 45/12
(22) 14.12.2017	B29C 45/14	B29C 45/64
	B29C 45/56	B29K 75/00
	B29C 70/48	B29L 9/00
	B29C 69/00	(11) EP3718732
	B29K 105/08	(21) EP20167277.1
	B29K 105/12	(47) 06.12.2023
		(22) 31.03.2020

(54) METHOD AND DEVICE FOR MANUFACTURING MULTICOMPONENT PLASTIC MOULDED ARTICLES	(32) 24.09.2019 (33) European Patent Office (EPO)	SCHWEIGER, Dominik (31) 102016120098
(73) GK Concept GmbH	(51) B29C 55/26 C08L 23/06	(32) 21.10.2016 (33) Germany
(72) Pirl, Sebastian Kaufmann, Roger Richter, Jens	(11) EP3962710 (21) EP20724039.1 (47) 06.12.2023	(51) B29C 64/106 B29C 64/40 B29C 64/209 B29C 64/245
(31) 102020108596 102019124891 102019108646	(87) EP2020062070 05.11.2020	B33Y 10/00 B33Y 30/00
(32) 27.03.2020 16.09.2019 02.04.2019	(22) 30.04.2020 (54) PIPE FOR TRANSPORT OF CHLORINATED WATER	(11) EP3541603 (21) EP17778282.8 (47) 06.12.2023
(33) Germany Germany Germany	(73) SABIC Global Technologies B.V. (72) SOLIMAN, Maria TARAIYA, Ajay,Kumar DEGENHART, Peter BOERAKKER, Mark, Johannes	(47) 06.12.2023 (87) EP2017075138 24.05.2018 (22) 04.10.2017 (54) 3-D PRINTING METHOD HAVING INCREASED STRENGTH OF THE PRODUCED OBJECT
(51) B29C 45/77 B29C 45/78 H01L 21/67 B29C 45/14	(31) 19172226 (32) 02.05.2019 (33) European Patent Office (EPO)	(73) Robert Bosch GmbH (72) FISCHER, Florian LUNG, Norman JAHNLE, Hendrik
(11) EP4046185 (21) EP20793188.2 (47) 06.12.2023 (87) NL2020050638 22.04.2021	(51) B29C 57/00 (11) EP3600827 (21) EP18712240.3 (47) 06.12.2023 (87) EP2018057705 04.10.2018	(31) 102016222558 (32) 16.11.2016 (33) Germany
(22) 16.10.2020 (54) COMPONENT PROCESSING APPARATUS, SUCH AS A PRESSURE SINTERING APPARATUS OR A COMPONENT ENCAPSULATION APPARATUS	(22) 27.03.2018 (54) PROCESS FOR MODIFYING AND JOINING ORIENTED PIPES	(51) B29C 64/112 B29C 64/35 B29C 64/40 B33Y 70/00 B33Y 10/00 B29C 64/386
(73) Boschman Technologies B.V. (72) DE BEIJER, Johannes Cornelis BOSCHMAN, Franciscus Gerardus Johannes	(73) SABIC Global Technologies B.V. (72) TARAIYA, Ajay Kumar KLEPPINGER, Ralf	(11) EP3658353 (21) EP18762158.6 (47) 06.12.2023 (87) IL2018050839 31.01.2019
(31) 2024038 (32) 17.10.2019 (33) Netherlands	(31) 17163917 (32) 30.03.2017 (33) European Patent Office (EPO)	(22) 27.07.2018 (54) ADDITIVE MANUFACTURING PROCESSES EMPLOYING FORMULATIONS THAT PROVIDE A LIQUID OR LIQUID-LIKE MATERIAL
(51) B29C 53/64 B29C 53/82	(51) B29C 63/28 B29C 63/34	(73) Stratasys Ltd. (72) DIKOVSKY, Daniel BELOCAN, Boris FEFFER, Amit BEGUN, Gal BRESSLER, Yoav
(11) EP3466642 (21) EP17195223.7 (47) 06.12.2023 (22) 06.10.2017 (54) METHOD FOR COILING A STRIP OF MATERIAL	(11) EP4045288 (21) EP20800999.3 (47) 06.12.2023 (87) IB2020059491 22.04.2021	(31) 201762538018 P (32) 28.07.2017 (33) United States of America
(73) Nitto Advanced Film Gronau GmbH (72) Weitkamp, Jürgen Schönbeck, Marcus Rosery, Andreas	(51) B29C 63/28 B29C 63/34 (11) EP4045288 (21) EP20800999.3 (47) 06.12.2023 (87) IB2020059491 22.04.2021	(51) B29C 64/118 B29C 71/00 B29C 51/10 B29C 45/18 B29C 64/264 B33Y 30/00 B33Y 10/00 B33Y 80/00 A61C 7/08
(51) B29C 55/00 B29C 55/26 B29K 23/00	(31) 201900019328 (32) 18.10.2019 (33) Italy	(11) EP3840932 (21) EP18930769.7 (47) 06.12.2023 (87) SG2018050428 27.02.2020 (22) 24.08.2018
(11) EP4034366 (21) EP20772334.7 (47) 06.12.2023 (87) EP2020076520 01.04.2021	(51) B29C 64/106 B29C 64/20 B33Y 70/00 B33Y 10/00 B33Y 30/00	
(22) 23.09.2020 (54) BIAXIALLY ORIENTED PIPE	(11) EP3529046 (21) EP17832805.0 (47) 06.12.2023 (87) IB2017056303 26.04.2018	
(73) SABIC Global Technologies B.V. (72) TARAIYA, Ajay,Kumar SOLIMAN, Maria DEGENHART, Peter BOERAKKER, Mark, Johannes STEENBAKKERS-MENTING, Henrica, Norberta, Alberta, Maria	(22) 12.10.2017 (54) METHOD AND DEVICE FOR PRODUCING A THREE-DIMENSIONAL OBJECT	
(31) 19199219	(73) Ensinger GmbH (72) MÖLLER, Michael	

(54) METHOD AND APPARATUS FOR 3D PRINTING AN ORTHODONTIC ALIGNER	Kay, Stephen Parker, Eric Zamorano, Daniel	(33) United States of America
(73) Structo Pte. Ltd.	(72) Voit, Walter	(51) B29C 65/48
(72) VAN ESBROECK, Hubertus Theodorus Petrus SHARMA, Devansh LAM, Siu Hon CHIN, Kah Fai SUWONO, Boyle	Lund, Benjamin, R. Lund, Caleb Kay, Stephen Parker, Eric Zamorano, Daniel	B29C 65/50 B64C 1/06 B29L 24/00 B29L 31/30 B29L 31/00
(51) B29C 64/118	(31) 201962796545 P	(11) EP2444238
B33Y 80/00	(32) 24.01.2019	(21) EP11184885.9
B33Y 30/00	(33) United States of America	(47) 06.12.2023
B29D 35/00	(51) B29C 64/129	(22) 12.10.2011
A43B 9/00	B29C 64/264	(54) Method for joining sandwich truss core panels and composite structures produced therefrom
(11) EP3685988	B33Y 30/00	(73) The Boeing Company
(21) EP20162714.8	B33Y 10/00	(72) McCarville, Douglas A
(47) 06.12.2023	(11) EP3962713	Guzman, Juan C.
(22) 21.09.2016	(21) EP20723385.9	Hand, Michael Leslie
(54) THREE-DIMENSIONAL PRINTING ALONG A CURVED SURFACE	(47) 06.12.2023	(31) 907329
(73) NIKE Innovate C.V.	(87) EP2020062111	(32) 19.10.2010
(72) WAATTI, Todd A. STERMAN, Yoav	12.11.2020	(33) United States of America
(31) 201514935977	(22) 30.04.2020	(51) B29C 67/00
(32) 09.11.2015	(54) 3D PRINTER FOR PHOTOPOLYMERIZING A PHOTOSENSITIVE PLASTIC RESIN USING A LIGHTING PATTERN	B29C 31/04
(33) United States of America	(73) Audi AG	B29B 11/16
(51) B29C 64/124	(72) KLUG, Markus	B33Y 10/00
B29C 64/147	MOLL, Tobias	B33Y 30/00
B29C 64/393	SCHEUCHENPFLUG, Johannes	B33Y 40/00
B33Y 10/00	(31) 102019206367	B29C 64/10
B33Y 30/00	(32) 03.05.2019	B29C 64/40
B33Y 50/02	(33) Germany	B29C 71/00
B29C 64/264	(51) B29C 64/135	B22F 10/20
(11) EP3917758	B29C 64/264	B22F 10/40
(21) EP20708780.0	B29D 11/02	B22F 10/64
(47) 06.12.2023	B33Y 10/00	(11) EP4000878
(87) US2020015173	(11) EP3868545	(21) EP21205755.8
06.08.2020	(21) EP21168614.2	(47) 06.12.2023
(22) 27.01.2020	(47) 06.12.2023	(22) 02.10.2017
(54) METHOD AND APPARATUS FOR PROCESS MONITORING IN ADDITIVE MANUFACTURING	(22) 14.03.2018	(54) METHOD OF REDUCING DISTORTION IN AN ADDITIVELY MANUFACTURED PART
(73) General Electric Company	(54) 3D PRINTING OF AN INTRAOCULAR LENS HAVING SMOOTH, CURVED SURFACES	(73) Markforged, Inc.
(72) DUBELMAN, Meredith Elissa THOMPSON, Mary Kathryn BARNHILL, Christopher	(73) Alcon Inc.	(72) MARK, Gregory Thomas
(31) 201916261201	(72) Cox, Brian Craig	(31) 201762519138 P
(32) 29.01.2019	Ortiz, Fernando Enrique	201762505081 P
(33) United States of America	Rodeheaver, Austin Xavier	201762489410 P
(51) B29C 64/124	(31) 201762474658 P	201762442395 P
B29C 64/236	(32) 22.03.2017	201662430902 P
B29C 64/282	(33) United States of America	201662429711 P
B33Y 10/00	(51) B29C 65/00	(32) 13.06.2017
B33Y 30/00	B29C 65/48	11.05.2017
B29C 64/386	(11) EP3863836	24.04.2017
B33Y 50/00	(21) EP19871319.0	31.03.2017
(11) EP3914437	(47) 06.12.2023	04.01.2017
(21) EP20744505.7	(87) US2019055081	06.12.2016
(47) 06.12.2023	16.04.2020	02.12.2016
(87) US2020015107	(22) 08.10.2019	(33) United States of America
30.07.2020	(54) CONTROLLED TRANSLATION METHOD OF AFFIXING A TERMINATION TO A MULTI- STRANDED TENSILE MEMBER	United States of America
(22) 24.01.2020	(73) Campbell, Richard V.	United States of America
(54) SYSTEM FOR ADDITIVE MANUFACTURING	(72) GLADWIN, David, M.	United States of America
(73) Voit, Walter	CAMPBELL, Richard, V.	United States of America
Lund, Benjamin, R.	(31) 201816154379	United States of America
Lund, Caleb	(32) 08.10.2018	United States of America
		(51) B29C 73/10
		B29C 73/30
		B29C 70/54
		B29C 65/00
		B29C 65/18

(11) EP3501806	(11) EP4003718	(22) 25.09.2018
(21) EP18201042.1	(21) EP20750701.3	(54) LIQUID PERMEABLE BODY
(47) 06.12.2023	(47) 06.12.2023	(73) Kuraray Co., Ltd.
(22) 17.10.2018	(87) FR2020051215	(72) KATSUYA, Satoshi
(54) METHODS AND SYSTEMS FOR	28.01.2021	WASHITAKE, Yosuke
BONDING COMPOSITE STRUCTURES	(22) 08.07.2020	ENDO, Ryokei
(73) The Boeing Company	(54) INSERT FOR TYRE MOULD LINING	(31) 2017190888
(72) BLANCHARD, Steven Donald	ELEMENT	(32) 29.09.2017
OAKES, Gary D.	(73) COMPAGNIE GENERALE DES	(33) Japan
LEWIS, Arne K.	ETABLISSEMENTS MICHELIN	<hr/>
(31) 201715847294	(72) BARDIN, Damien	(51) B30B 9/12
(32) 19.12.2017	MICHNO, Jaroslaw	B65G 33/24
(33) United States of America	MAJEWSKA, Anna	B30B 9/26
<hr/>	KONOBROCKI, Dariusz	B65G 33/14
(51) B29C 73/34	(31) 1908375	D21C 7/06
B29C 73/10	(32) 24.07.2019	D21C 9/18
F28D 20/00	(33) France	(11) EP3843984
(11) EP3988286	<hr/>	(21) EP19854555.0
(21) EP21203688.3	(51) B29D 30/24	(47) 06.12.2023
(47) 06.12.2023	B29D 30/26	(87) SE2019050561
(22) 20.10.2021	(11) EP4072844	05.03.2020
(54) METHOD OF MAKING AND A METHOD	(21) EP20848966.6	(22) 14.06.2019
OF USING A THERMAL TRANSFER	(47) 06.12.2023	(54) A SCREW FEEDER AND A PIPE TO BE
BLANKET SYSTEM	(87) IB2020061723	USED IN A SCREW FEEDER
(73) The Boeing Company	17.06.2021	(73) VALMET AB
(72) DiCHIARA JR., Robert A.	(22) 10.12.2020	(72) LAMBERT, Francois
(31) 202117444578	(54) FORMING DRUM FOR PRODUCING	(31) 1851033
202063094332 P	TYRES FOR VEHICLE WHEELS	(32) 31.08.2018
(32) 06.08.2021	AND METHOD FOR CHANGING	(33) Sweden
20.10.2020	THE GEOMETRY OF A FORMING	<hr/>
(33) United States of America	DRUM FOR PRODUCING TYRES FOR	(51) B30B 9/20
United States of America	VEHICLE WHEELS	B30B 9/04
<hr/>	(73) Pirelli Tyre S.p.A.	B30B 9/06
(51) B29D 11/00	(72) CONTI, Davide	B30B 9/08
B33Y 80/00	DE COL, Christian	C11B 1/08
B33Y 10/00	PORTINARI, Gianni Enrico	C11B 1/06
B29C 64/40	(31) 201900023625	C11B 1/04
(11) EP3473418	(32) 11.12.2019	(11) EP3795343
(21) EP17306425.4	(33) Italy	(21) EP19464015.7
(47) 06.12.2023	<hr/>	(47) 06.12.2023
(22) 19.10.2017	(51) B29D 30/32	(22) 11.10.2019
(54) METHOD FOR MANUFACTURING AN	(11) EP3984732	(54) ROTARY DEVICE FOR OIL
OPHTHALMIC LENS	(21) EP21200722.3	EXTRACTION FROM OILSEED
(73) Essilor International	(47) 06.12.2023	(73) Universitatea Stefan cel Mare Suceava -
(72) MOINE, Jérôme	(22) 04.10.2021	Romania
FEUILLADE, Mathieu	(54) GREEN TIRE FORMING APPARATUS	(72) MIRONEASA, Silvia
BULTEZ, Xavier	(73) Sumitomo Rubber Industries, Ltd.	MIRONEASA, Costel
<hr/>	(72) YANO, Shunsuke	(31) 201900572
(51) B29D 23/00	NAKATOGAWA, Takeshi	(32) 18.09.2019
B29C 63/26	KITANI, Shinichi	(33) Romania
C09D 167/06	ISHIHARA, Noboru	<hr/>
F16L 58/10	ONIMATSU, Hiroyuki	(51) B31B 70/00
(11) EP3592542	(31) 2020173407	B31B 150/00
(21) EP18709597.1	(32) 14.10.2020	(11) EP3429839
(47) 06.12.2023	(33) Japan	(21) EP17765626.1
(87) EP2018055922	<hr/>	(47) 06.12.2023
13.09.2018	(51) B29K 105/04	(87) CA2017050352
(22) 09.03.2018	D04H 1/4209	21.09.2017
(54) LINER REINFORCED BY NON-WOVEN	D04H 1/4334	(22) 20.03.2017
FIBRES FOR IMPACT RESISTANT GRP	D04H 1/545	(54) SYSTEM AND METHOD FOR
PIPES	D04H 1/732	MANUFACTURING A FLEXIBLE
(73) Amiblu Technology AS	B01D 39/16	INTERMEDIATE BULK CONTAINER
(72) HAAVALDSEN, Jane Hilary Thatcher	D04H 1/542	(73) TCI Manufacturing Inc.
SYVERSEN, Kjell, Tony	D04H 1/559	(72) BERTRAND, Paul
(31) 17167302	B01D 39/20	BERTRAND, Louis
17000381	C08J 5/04	(31) 201662310210 P
(32) 20.04.2017	(11) EP3689946	(32) 18.03.2016
09.03.2017	(21) EP18861294.9	(33) United States of America
(33) European Patent Office (EPO)	(47) 06.12.2023	<hr/>
European Patent Office (EPO)	(87) JP2018035440	(51) B32B 3/08
<hr/>	04.04.2019	B32B 3/12
(51) B29D 30/06		B32B 3/28

B32B 7/12	LEMBO, Michael, J.	LAMINATED, AND METHOD FOR
B32B 7/14	MASSARA, Valerio	PRODUCING SAME
B32B 9/00	(31) 201762563340 P	(73) POSCO Co., Ltd
B32B 9/04	(32) 26.09.2017	(72) YOO, Hye Jin
B32B 15/04	(33) United States of America	LEE, Kangmin
B32B 15/20	(51) B32B 5/02	BAEK, Jehoon
B32B 27/08	B32B 5/06	KIM, Jung-Su
B32B 27/28	B32B 5/10	BYEON, Chang-Se
B32B 27/38	B32B 5/26	(31) 20170177109
B32B 27/42	(11) EP3576934	(32) 21.12.2017
B29D 24/00	(21) EP17822824.3	(33) Korea (Republic)
F02K 1/82	(47) 06.12.2023	(51) B32B 17/10
G10K 11/172	(87) US2017064053	(11) EP4076950
B32B 37/00	09.08.2018	(21) EP20845588.1
(11) EP4114652	(22) 30.11.2017	(47) 06.12.2023
(21) EP21714334.6	(54) FIBER-BOUND ENGINEERED	(87) FR2020052460
(47) 06.12.2023	MATERIALS FORMED UTILIZING	24.06.2021
(87) FR2021050363	CARRIER SCREENS	(22) 16.12.2020
10.09.2021	(73) Nike Innovate C.V.	(54) LAMINATED GLASS PANEL WITH
(22) 03.03.2021	(72) DUA, Bhupesh	HEATING LAYER ON THE SAME LEVEL
(54) METHOD FOR MANUFACTURING A	GREENE, Pamela, S.	OF THE LAMINATED STRUCTURE
STRUCTURE WITH CELLULAR CORES	KILGORE, Bruce, J.	AS THE MASK SHIELDING THE
FOR A TURBOJET NACELLE	RUSHBROOK, Thomas, J.	ELECTRICAL CURRENT LEADS OF
(73) Safran Nacelles	(31) 201762548239 P	THE HEATING LAYER
(72) DESJOYEUX, Bertrand	201762454474 P	(73) Saint-Gobain Glass France
VERSAEVEL, Marc	(32) 21.08.2017	(72) MAYEUX, Jean-Benoît
PREAU, Mathieu	03.02.2017	ROUBY, Michel
MOREAU, Laurent	(33) United States of America	(31) 1914857
(31) 2002198	United States of America	(32) 19.12.2019
(32) 04.03.2020	(51) B32B 7/04	(33) France
(33) France	B32B 25/04	(51) B32B 17/10
(51) B32B 3/26	B32B 25/08	B32B 3/30
B32B 7/03	B32B 25/12	(11) EP4103403
B32B 7/08	B32B 25/14	(21) EP21705636.5
B32B 21/14	B32B 25/16	(47) 06.12.2023
E04C 2/12	B32B 25/18	(87) NL2021050090
B27M 3/00	B32B 27/32	19.08.2021
B32B 21/13	(11) EP4076942	(22) 11.02.2021
(11) EP3051036	(21) EP20842717.9	(54) MULTI-LAYERED WINDOWPANE AND
(21) EP16460002.5	(47) 06.12.2023	METHOD FOR PRODUCING SUCH
(47) 06.12.2023	(87) FR2020052355	WINDOWPANE
(22) 14.01.2016	24.06.2021	(73) AUTOGLAS D&K B.V.
(54) METHOD OF MANUFACTURING A	(22) 09.12.2020	(72) DRIEHUIS, Bartholomeus, Leonardus,
MULTI-LAYER WOODEN WALL	(54) ELASTOMER LAMINATE	Marinus, Borcherd
(73) Duraj, Antoni	(73) COMPAGNIE GENERALE DES	(31) 1043567
(72) Duraj, Antoni	ETABLISSEMENTS MICHELIN	(32) 13.02.2020
(31) 41103215	(72) ARAUJO DA SILVA, José-Carlos	(33) Netherlands
(32) 22.01.2015	LEMERLE, Frédéric	(51) B32B 17/10
(33) Poland	(31) 1914617	C03C 17/36
(51) B32B 5/02	(32) 17.12.2019	E06B 3/67
B32B 3/12	(33) France	(11) EP3867060
B32B 3/14	(51) B32B 15/18	(21) EP19808633.2
B32B 3/04	B32B 27/16	(47) 06.12.2023
B32B 17/02	B32B 15/08	(87) FR2019052463
B32B 7/02	B32B 37/10	23.04.2020
B32B 27/32	B32B 15/088	(22) 17.10.2019
(11) EP3687788	B32B 27/34	(54) GLAZING COMPRISING A
(21) EP18860922.6	(11) EP3730288	FUNCTIONAL COATING AND AN
(47) 06.12.2023	(21) EP18892225.6	ABSORBING COATING HAVING A
(87) US2018052850	(47) 06.12.2023	COLORIMETRIC ADJUSTMENT
04.04.2019	(87) KR2018012290	(73) Saint-Gobain Glass France
(22) 26.09.2018	27.06.2019	(72) ONGARELLO, Tommaso
(54) INSULATION-RETAINING SHEET	(22) 17.10.2018	DIGUET, Antoine
HAVING INTEGRAL VAPOR-	(54) COMPOSITE MATERIAL IN WHICH	CHERY, Vincent
RETARDING MEMBRANE	STEEL SHEET AND PLASTIC LAYER	MONMEYRAN, Corentin
(73) CertainTeed LLC	HAVING FUNCTIONAL GROUP	(31) 1859655
(72) HARTZELL, Bruce, A.	INTRODUCED THEREIN ARE	(32) 18.10.2018
BOZEK, John, J.		(33) France

(51) B32B 17/10 G02B 5/02 G02B 27/01 G03B 21/62	B32B 27/18 B32B 27/30 B32B 27/34 B32B 27/36	LUO, Le LIANG, Ziqing LIU, Nengwen ZHONG, Lingsheng
(11) EP3802120 (21) EP19740629.1 (47) 06.12.2023 (87) FR2019051263 05.12.2019 (22) 29.05.2019 (54) TRANSPARENT ELEMENT WITH DIFFUSE REFLECTION (73) Saint-Gobain Glass France (72) OZANAM, Cécile GAYOUT, Patrick RUFINO, Benoît (31) 1854691 (32) 31.05.2018 (33) France	(11) EP3500429 (21) EP17884896.6 (47) 06.12.2023 (87) US2017068160 28.06.2018 (22) 22.12.2017 (54) COATED, METALLIZED FILMS (73) Jindal Innovation Center SRL (72) SUNDARARAMAN, Anand HINMAN, Daniel L. (31) 201662438361 P (32) 22.12.2016 (33) United States of America	(51) B32B 27/12 D21H 27/32 B32B 7/12 D21H 19/80 B32B 5/02 D21H 19/84 D21H 11/18 B32B 27/10 D21H 11/20 (11) EP3135488 (21) EP15782224.8 (47) 06.12.2023 (87) JP2015061981 29.10.2015 (22) 20.04.2015 (54) COMPOSITE AND METHOD FOR PRODUCING THE SAME (73) Oji Holdings Corporation (72) FUSHIMI, Hayato MIKAMI, Eiichi TANAKA, Hiroki HAN, Jintong (31) 2014088043 (32) 22.04.2014 (33) Japan
(51) B32B 17/10 H01B 7/04 H01B 7/08 (11) EP4100251 (21) EP21708568.7 (47) 06.12.2023 (87) EP2021052879 12.08.2021 (22) 05.02.2021 (54) FLEXIBLE FLAT CABLE (73) Saint-Gobain Glass France (72) HERMANGE, François SPANJERS, Robin (31) 20156204 (32) 07.02.2020 (33) European Patent Office (EPO)	(51) B32B 27/08 B32B 27/32 C08J 5/18 (11) EP4076952 (21) EP20820173.1 (47) 06.12.2023 (87) EP2020085419 24.06.2021 (22) 10.12.2020 (54) MULTILAYER FILMS FOR PACKAGING RUBBER BALES (73) SABIC Global Technologies B.V. (72) OUDDANE, Mohamed HOMOUD-AL, Riyadh KAKKUZHI, Abdulnizar (31) 19216695 (32) 16.12.2019 (33) European Patent Office (EPO)	(22) 20.04.2015 (54) COMPOSITE AND METHOD FOR PRODUCING THE SAME (73) Oji Holdings Corporation (72) FUSHIMI, Hayato MIKAMI, Eiichi TANAKA, Hiroki HAN, Jintong (31) 2014088043 (32) 22.04.2014 (33) Japan (51) B32B 27/32 C08L 23/12 (11) EP3722095 (21) EP19188554.0 (47) 06.12.2023 (22) 26.07.2019 (54) A POLYPROPYLENE COMPOSITION FOR RETORT PACKAGING APPLICATION (73) Thai Polyethylene Co., Ltd. (72) TREETHAMMAKUL, Supakitt (31) 10201903296W (32) 12.04.2019 (33) Singapore
(51) B32B 18/00 C04B 35/80 C04B 35/645 C04B 35/18 C04B 35/10 C04B 35/565 (11) EP3616906 (21) EP19193919.8 (47) 06.12.2023 (22) 27.08.2019 (54) PART MADE FROM COMPOSITE MATERIAL WITH SMOOTH OUTER SURFACE AND METHOD FOR MANUFACTURING SAME (73) Safran Nacelles Safran Ceramics (72) DESJOYEUX, Bertrand SILVA DE VASCONCELLOS, Davi PLANCKEEL, Aline (31) 1857755 (32) 29.08.2018 (33) France	(51) B32B 27/12 B32B 27/38 D06M 13/513 D06M 11/74 D06M 101/06 B32B 5/24 B32B 5/26 B32B 9/02 B32B 9/04 B32B 3/12 B32B 38/08 B29C 65/00 (11) EP3395567 (21) EP15911009.7 (47) 06.12.2023 (87) CN2015098063 29.06.2017 (22) 21.12.2015 (54) STRUCTURAL AND DECORATIVE COMPOSITE MATERIAL, PREPARATION METHOD THEREFOR, AND ARTICLE CONTAINING SAME (73) ACC (Beijing) Science and Technology Co., Ltd. Zhuzhou Lince Group Co., Ltd. AVIC Composite Corporation Ltd. (72) YI, Xiaosu TAN, Yan TONG, Jianfeng LIAO, Qinghua CHEN, Xu SHI, Feng ZHANG, Hu	(51) B32B 27/36 C08J 7/04 C09D 7/61 C09D 175/04 C09D 175/08 C08G 18/00 C08G 18/08 C08G 18/10 C08G 18/62 C08K 9/10 (11) EP3778235 (21) EP19784455.8 (47) 06.12.2023 (87) JP2019010173 17.10.2019 (22) 13.03.2019 (54) LAYERED POLYESTER FILM AND PRODUCTION METHOD THEREFOR (73) Toray Industries, Inc. (72) IWAYA, Tadahiko OGATA, Masami HARADA, Kana ABE, Yu (31) 2018077354 (32) 13.04.2018
(51) B32B 27/08 B32B 27/32 B41M 5/52 B41M 5/50 B32B 7/06 B32B 7/12 B32B 25/04 B32B 25/08 B32B 25/16 B32B 27/10 B32B 27/16	(73) ACC (Beijing) Science and Technology Co., Ltd. Zhuzhou Lince Group Co., Ltd. AVIC Composite Corporation Ltd. (72) YI, Xiaosu TAN, Yan TONG, Jianfeng LIAO, Qinghua CHEN, Xu SHI, Feng ZHANG, Hu	

<p>(33) Japan</p> <hr/> <p>(51) B33Y 80/00 B22F 5/10 B22F 10/47 F04F 5/00 F04F 5/46 H04L 67/1095 H04L 67/1097 F16L 43/00 B64D 37/00</p> <p>(11) EP3788291 (21) EP19724749.7 (47) 06.12.2023 (87) EP2019060974 07.11.2019</p> <p>(22) 29.04.2019 (54) FLUID CONDUIT AND METHOD OF MAKING SAME</p> <p>(73) Eaton Intelligent Power Limited (72) SARKAR, Subrata BORAWAKE, Abhijit CRAWFORD, Frank BROWN, Sean STAHL, Lucas</p> <p>(31) 201815966336 (32) 30.04.2018 (33) United States of America</p> <hr/> <p>(51) B41F 16/00 B41F 19/00 B41F 23/00</p> <p>(11) EP4028261 (21) EP20771457.7 (47) 06.12.2023 (87) EP2020074055 18.03.2021</p> <p>(22) 28.08.2020 (54) METHOD AND DEVICE FOR PRINT FINISHING</p> <p>(73) Kama GmbH (72) BARTH, Georg PANITZKE, André</p> <p>(31) 102019124105 (32) 09.09.2019 (33) Germany</p> <hr/> <p>(51) B41F 19/00 B41F 23/04 B41J 3/407 B41F 23/08 B41J 2/04 B41M 3/00 B41J 11/00</p> <p>(11) EP3392039 (21) EP18177223.7 (47) 06.12.2023 (22) 29.04.2016 (54) MODULAR PRINTING PRESS ARRANGEMENT FOR SEQUENTIAL PROCESSING OF SHEET-LIKE SUBSTRATES</p> <p>(73) Koenig & Bauer AG (72) Jentzsch, Arndt Ziegenbalg, Christian Patzelt, Bernd Nickell, Hartmut Riese, Martin Singer, Stefan Koch, Heinz Michael Reinsch, Carsten</p>	<p>(31) 102015217229 102015216874 102015215003 102015213431 102015208041</p> <p>(32) 09.09.2015 03.09.2015 06.08.2015 17.07.2015 30.04.2015</p> <p>(33) Germany Germany Germany Germany Germany</p> <hr/> <p>(51) B41J 2/045 (11) EP3717252 (21) EP19706157.5 (47) 06.12.2023 (87) US2019016749 13.08.2020</p> <p>(22) 06.02.2019 (54) RESET MONITOR (73) Hewlett-Packard Development Company, L.P. (72) LINN, Scott A. GARDNER, James M.</p> <hr/> <p>(51) B41J 2/14 B41J 2/16</p> <p>(11) EP2974867 (21) EP14765660.7 (47) 06.12.2023 (87) JP2014055302 18.09.2014</p> <p>(22) 03.03.2014 (54) INKJET HEAD, METHOD FOR MANUFACTURING SAME, AND INKJET PRINTER</p> <p>(73) Konica Minolta, Inc. (72) MATSUDA, Shinya (31) 2013053097 (32) 15.03.2013 (33) Japan</p> <hr/> <p>(51) B41J 2/175 B41J 2/18 B41J 2/19</p> <p>(11) EP3774355 (21) EP18929839.1 (47) 06.12.2023 (87) US2018046525 20.02.2020</p> <p>(22) 13.08.2018 (54) PRINTING FLUID CIRCULATION (73) HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. (72) BUTINYA TEIXIDO, David CRESPI SERRANO, Albert COMA VIVES, Marta</p> <hr/> <p>(51) B41J 2/325 (11) EP3858624 (21) EP21151496.3 (47) 06.12.2023 (22) 14.01.2021 (54) INK CASSETTE AND PRINTER (73) CANON KABUSHIKI KAISHA (72) HASHIMOTO, Masaya (31) 2020015531 (32) 31.01.2020</p>	<p>(33) Japan</p> <hr/> <p>(51) B41J 3/407 (11) EP3912824 (21) EP21166824.9 (47) 06.12.2023 (22) 02.04.2021 (54) PRINTING APPARATUS FOR PRINTING DIRECTLY ONTO CONTAINERS</p> <p>(73) Norwalt Design, Inc. (72) SEITEL, Michael (31) 202016839181 (32) 03.04.2020 (33) United States of America</p> <hr/> <p>(51) B41J 3/407 G01N 35/10 G01N 35/00 B41J 2/32 B41J 11/46 B41J 11/00 B01L 3/00</p> <p>(11) EP4032714 (21) EP22162667.4 (47) 06.12.2023 (22) 21.10.2015 (54) METHOD AND APPARATUS FOR SAMPLE TRANSFER COMPRISING A PRINTING MODULE</p> <p>(73) Gen-Probe Incorporated (72) SILBERT, Rolf ROSATI, Robert BUSE, David TAMMER, Olev MERTEN, Matthias</p> <p>(31) 201462066468 P (32) 21.10.2014 (33) United States of America</p> <hr/> <p>(51) B41J 3/407 G05B 19/18 B25J 11/00 B25J 9/16 G05B 19/4099</p> <p>(11) EP3991976 (21) EP21204702.1 (47) 06.12.2023 (22) 26.10.2021 (54) THREE-DIMENSIONAL OBJECT PRINTING APPARATUS AND THREE-DIMENSIONAL OBJECT PRINTING METHOD</p> <p>(73) Seiko Epson Corporation (72) MOCHIZUKI, Kenju SUGAI, Keigo (31) 2020179514 (32) 27.10.2020 (33) Japan</p> <hr/> <p>(51) B41J 11/00 (11) EP3822086 (21) EP20208993.4 (47) 06.12.2023 (22) 07.10.2016 (54) INKJET PRINTER (73) Aleph S.r.l. (72) MANES, Roberto (31) UB20154240 (32) 08.10.2015 (33) Italy</p> <hr/> <p>(51) B41J 11/00</p>
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B41J 3/54	22.05.2020	B60C 11/00
B41F 16/00	(22) 30.10.2019	B60C 11/03
B41F 19/00	(54) TAB PRESS AND METHOD OF	B60C 11/12
B41F 23/04	MARKING INDICIA ON TAB STOCK	(11) EP4008565
B42D 25/47	(73) Crown Packaging Technology, Inc.	(21) EP21205520.6
B41M 3/06	(72) RAMSEY, Chris	(47) 06.12.2023
B41M 7/00	(31) 201818387	(22) 29.10.2021
B41M 3/00	(32) 12.11.2018	(54) PNEUMATIC TIRE
B44C 1/17	(33) United Kingdom	(73) Sumitomo Rubber Industries, Ltd.
B42D 25/351	(51) B44B 5/00	(72) HATA, Kanako
(11) EP4144535	B44B 5/02	(31) 2020201927
(21) EP22190963.3	(11) EP3967512	(32) 04.12.2020
(47) 06.12.2023	(21) EP20196045.7	(33) Japan
(22) 18.08.2022	(47) 06.12.2023	(51) B60C 11/00
(54) PRINTED MATERIAL, PRINTING	(22) 14.09.2020	B60C 11/03
APPARATUS, PRINTING SYSTEM, AND	(54) DEVICE FOR EMBOSSING FILMS	(11) EP4015244
PRINTING METHOD	(73) Gerhard Rauch Ges.m.b.H.	(21) EP21203439.1
(73) Ricoh Company, Ltd.	(72) BURESCH, Anton	(47) 06.12.2023
(72) TAKAHASHI, Hiroki	(51) B44C 1/24	(22) 19.10.2021
TSUCHIYA, Masayuki	B44C 5/04	(54) TIRE
(31) 2021145538	E04F 15/02	(73) SUMITOMO RUBBER INDUSTRIES
(32) 07.09.2021	(11) EP4159470	LIMITED
(33) Japan	(21) EP22208390.9	(72) YAMAOKA, Hiroshi
(51) B41M 1/18	(47) 06.12.2023	INADA, Yutaro
B41M 1/22	(22) 08.06.2018	(31) 2020209584
B41M 3/00	(54) METHOD FOR REFINING A BUILDING	(32) 17.12.2020
B41M 3/14	PANEL	(33) Japan
(11) EP3512708	(73) Flooring Technologies Ltd.	(51) B60C 11/03
(21) EP17777455.1	(72) Braun, Roger	B60C 11/12
(47) 06.12.2023	Oldorff, Frank	(11) EP4061647
(87) US2017051529	Kalwa, Norbert	(21) EP20792369.9
22.03.2018	Klupsch, Rüdiger	(47) 06.12.2023
(22) 14.09.2017	(51) B60B 35/04	(87) EP2020078743
(54) APPARATUSES AND METHODS FOR	B60B 35/08	27.05.2021
OPTICALLY VARIABLE PRINTING	B60B 35/00	(22) 13.10.2020
(73) Illinois Tool Works, Inc.	B60B 35/02	(54) PNEUMATIC TYRE
(72) RENZ, Robert Phillip	(11) EP3468814	(73) Continental Reifen Deutschland GmbH
MCALPINE, Morven	(21) EP17731719.5	(72) HÄRTWIG, Andreas
(31) 201715639493	(47) 06.12.2023	SCHWENKE, Andreas
201662395894 P	(87) US2017036757	KRISTEN, Florian
(32) 30.06.2017	14.12.2017	MEIER, Nico
16.09.2016	(22) 09.06.2017	WÜST, Alexander
(33) United States of America	(54) WHEEL END ASSEMBLY AND	NEUBER, Cord-Christian
United States of America	SPINDLE CONFIGURED THEREFOR	(31) 102019217819
(51) B41M 5/00	(73) Gagnon Family Trust	(32) 19.11.2019
C09D 11/322	(72) GAGNON, Philippe	(33) Germany
C09D 11/40	(31) 201662355585 P	(51) B60C 11/03
B44C 5/04	201662347858 P	B60C 11/13
B41M 5/52	(32) 28.06.2016	(11) EP3988336
(11) EP4101651	09.06.2016	(21) EP21194645.4
(21) EP22180898.3	(33) United States of America	(47) 06.12.2023
(47) 06.12.2023	United States of America	(22) 02.09.2021
(22) 22.10.2015	(51) B60C 1/00	(54) TIRE
(54) MANUFACTURING METHODS OF	B60C 9/28	(73) Sumitomo Rubber Industries, Ltd.
DECORATIVE LAMINATES BY INKJET	B60C 11/00	(72) NAGASAWA, Koki
(73) AGFA NV	B60C 11/03	(31) 2020176231
Unilin, BV	(11) EP3960493	(32) 20.10.2020
(72) VAN DEN BERGEN, Patrick	(21) EP21189795.4	(33) Japan
VAN HUNSEL, Johan	(47) 06.12.2023	(51) B60C 11/12
(31) 14191197	(22) 05.08.2021	B60C 11/04
(32) 31.10.2014	(54) HEAVY DUTY TIRE	B60C 11/03
(33) European Patent Office (EPO)	(73) Sumitomo Rubber Industries, Ltd.	(11) EP4079544
(51) B43K 5/00	(72) HABA, Toshifumi	(21) EP22167150.6
B65D 17/28	(31) 2020143713	(47) 06.12.2023
(11) EP3870454	(32) 27.08.2020	(22) 07.04.2022
(21) EP19798353.9	(33) Japan	(54) TYRE
(47) 06.12.2023	(51) B60C 1/00	(73) Sumitomo Rubber Industries, Ltd.
(87) GB2019053077		(72) KITATANI, Tsukasa

YOSHIMURA, Kozo	(11) EP3747676	(47) 06.12.2023
IKEDA, Ryota	(21) EP19748317.5	(22) 25.02.2019
(31) 2021079950	(47) 06.12.2023	(54) EQUIPMENT FOR SERVICES
2021072103	(87) CN2019071577	INTERCONNECTIONS OF TRACTOR-
(32) 10.05.2021	08.08.2019	TRAILER COMBINATIONS
21.04.2021	(22) 14.01.2019	(73) Fluid Power Design Limited
(33) Japan	(54) IDENTIFIER CONFIGURATION	(72) Turley, Edward Paul
Japan	METHOD, APPARATUS, AND	(51) B60H 1/00
(51) B60C 11/24	TERMINAL	B60H 1/14
(11) EP4019288	(73) AUTEL INTELLIGENT TECHNOLOGY	B60H 1/22
(21) EP21213043.9	CORP., LTD.	(11) EP4107017
(47) 06.12.2023	(72) QIU, Canxiang	(21) EP21766635.3
(22) 08.12.2021	(31) 201810099458	(47) 06.12.2023
(54) TIRE WEAR STATE ESTIMATION	(32) 31.01.2018	(87) EP2021073471
APPARATUS	(33) China	21.04.2022
(73) Sumitomo Rubber Industries, Ltd.	(51) B60C 23/04	(22) 25.08.2021
(72) MAEDA, Yusuke	(11) EP3925804	(54) THERMAL MANAGEMENT SYSTEM
(31) 2020215107	(21) EP21179595.0	AND AN ELECTRIC VEHICLE
(32) 24.12.2020	(47) 06.12.2023	INCLUDING THE THERMAL
(33) Japan	(22) 15.06.2021	MANAGEMENT SYSTEM
(51) B60C 13/00	(54) LEFT AND RIGHT WHEEL	(73) Ymer Technology AB
B60C 15/06	DETERMINATION METHOD, CHIP AND	(72) GRAUBMANN, Josef
B60C 11/04	SYSTEM FOR MONITORING WHEEL	(31) 20202113
B60C 11/12	PRESSURE	(32) 15.10.2020
B60C 11/03	(73) Autochips Wuhan Co., Ltd.	(33) European Patent Office (EPO)
(11) EP4079545	(72) Zhang, Tao	(51) B60H 1/00
(21) EP22161260.9	(31) 202010549091	F25B 25/02
(47) 06.12.2023	(32) 16.06.2020	F25B 40/02
(22) 10.03.2022	(33) China	F25B 39/04
(54) TIRE	(51) B60C 23/06	B60H 1/32
(73) SUMITOMO RUBBER INDUSTRIES,	B60W 40/10	F25B 49/02
LTD.	B60W 40/11	(11) EP3925806
(72) NAKAYAMA, Hiroyuki	B60W 40/112	(21) EP21180432.3
(31) 2021072330	(11) EP4058306	(47) 06.12.2023
(32) 22.04.2021	(21) EP20800562.9	(22) 18.06.2021
(33) Japan	(47) 06.12.2023	(54) INTEGRATED COOLING SYSTEM AND
(51) B60C 15/024	(87) EP2020079881	METHOD FOR TRANSPORTATION
(11) EP3825154	20.05.2021	REFRIGERATION UNIT
(21) EP20202478.2	(22) 23.10.2020	(73) Carrier Corporation
(47) 06.12.2023	(54) METHOD AND SYSTEM FOR	(72) SENF, Jr., Raymond L.
(22) 19.10.2020	ESTIMATING A VEHICLE BODY	(31) 202062705274 P
(54) PNEUMATIC VEHICLE TYRE WITH A	MOTION DURING THE RUNNING OF A	(32) 19.06.2020
BEADED LIP	VEHICLE ALONG A ROAD SEGMENT	(33) United States of America
(73) Continental Reifen Deutschland GmbH	(73) Pirelli Tyre S.P.A.	(51) B60H 1/34
(72) Henze, Eugen	(72) SALLUSTI, Massimiliano	F24F 13/14
Özüdüru, Ahmet	MONTORIO, Gabriele	(11) EP3647092
Metge, Axel	ROCCA, Marco	(21) EP18203414.0
Arensmeier, Jörg	(31) 201900021267	(47) 06.12.2023
(31) 102019218120	(32) 15.11.2019	(22) 30.10.2018
(32) 25.11.2019	(33) Italy	(54) AIR VENT COMPRISING AN
(33) Germany	(51) B60C 23/20	ADJUSTMENT MECHANISM
(51) B60C 23/00	(11) EP3957501	(73) Volvo Car Corporation
(11) EP3858644	(21) EP21191628.3	(72) Kulicki, Piotr
(21) EP20200733.2	(47) 06.12.2023	(51) B60J 5/06
(47) 06.12.2023	(22) 17.08.2021	B60J 7/10
(22) 08.10.2020	(54) TIRE HIGH TEMPERATURE	B60P 7/08
(54) TOWING VEHICLE	FORECASTING SYSTEM AND	(11) EP3812186
(73) CLAAS Tractor S.A.S.	METHOD	(21) EP20193159.9
(72) Ehler, Christian	(73) The Goodyear Tire & Rubber Company	(47) 06.12.2023
Wieckhorst, Jan Carsten	(72) BIRDSALL, Adam William	(22) 27.08.2020
Birkmann, Christian	CLARK, Wesley Conyers	(54) SIDE TARPULIN TENSIONER
Schütte, Robin	(31) 202016996088	(73) Franz Miederhoff oHG
Müller, Ralf	(32) 18.08.2020	(72) PAPENHEIM, Josef
(31) 102020102330	(33) United States of America	(31) 102019128627
(32) 30.01.2020	(51) B60D 1/64	(32) 23.10.2019
(33) Germany	B62D 63/08	(33) Germany
(51) B60C 23/04	(11) EP3800075	(51) B60K 1/04
	(21) EP19159148.6	

B62D 21/00	2018125478	(54) DRIVE SYSTEM AND METHOD FOR
B62D 25/20	2018125477	OPERATING A DRIVE SYSTEM
(11) EP4043256	2018125476	(73) Sew-Eurodrive GmbH & Co. KG
(21) EP19948209.2	2018125475	(72) BUDZEN, Harald
(47) 06.12.2023	2018125474	SCHUHMACHER, Henrik
(87) JP2019039843	2018125473	(31) 102019003756
15.04.2021	(32) 19.06.2019	(32) 29.05.2019
(22) 09.10.2019	29.06.2018	(33) Germany
(54) AUTOMOBILE	29.06.2018	(51) B60L 13/04
(73) NISSAN MOTOR Co., Ltd.	29.06.2018	B61B 13/08
(72) SATOU, Yutaka	29.06.2018	B61B 13/10
YAMAMOTO, Yoichi	29.06.2018	B65G 51/04
YONEKAWA, Hiroki	29.06.2018	C01B 3/02
YAMASHITA, Takuya	29.06.2018	B61C 15/04
AKIZUKI, Shinya	29.06.2018	(11) EP3814166
OKAMOTO, Yuuji	29.06.2018	(21) EP19825634.9
HANDA, Yuusuke	29.06.2018	(47) 06.12.2023
(51) B60K 6/36	29.06.2018	(87) US2019039807
B60K 6/40	29.06.2018	02.01.2020
B60K 6/442	29.06.2018	(22) 28.06.2019
F16D 23/06	29.06.2018	(54) A METHOD OF USING AIR AND
(11) EP4051523	29.06.2018	HYDROGEN IN LOW PRESSURE TUBE
(21) EP20799977.2	29.06.2018	TRANSPORTATION
(47) 06.12.2023	(33) Japan	(73) Hyperloop Transportation Technologies,
(87) DE2020100863	Japan	Inc.
06.05.2021	Japan	(72) NEOPHYTOU, Alexandre
(22) 06.10.2020	Japan	SARIN, Michael
(54) SELECTOR DEVICE FOR A HYBRID	Japan	ZISA, Alexandre
DRIVE SYSTEM OF A MOTOR	Japan	(31) 201916411086
VEHICLE, DRIVE SYSTEM, AND	Japan	201816022699
MOTOR VEHICLE	Japan	(32) 13.05.2019
(73) Schaeffler Technologies AG & Co. KG	Japan	29.06.2018
(72) HOPPE, Marcus	Japan	(33) United States of America
PIEPER, Torsten	Japan	United States of America
(31) 102019129173	Japan	(51) B60L 53/24
(32) 29.10.2019	Japan	B60L 50/51
(33) Germany	Japan	B60L 50/60
(51) B60K 11/04	Japan	(11) EP3238979
F01P 3/18	Japan	(21) EP17167717.2
F01P 11/10	Japan	(47) 06.12.2023
E02F 9/08	(51) B60K 37/06	(22) 24.04.2017
E02F 9/16	G02B 6/06	(54) INTEGRATED CHARGER FOR
E02F 9/22	(11) EP4122739	VEHICLES AND METHOD OF MAKING
(11) EP3815949	(21) EP21187099.3	SAME
(21) EP19824877.5	(47) 06.12.2023	(73) General Electric Company
(47) 06.12.2023	(22) 22.07.2021	(72) HUH, Kum-Kang
(87) JP2019024950	(54) A USER INTERFACE FOR A VEHICLE,	PAN, Di
02.01.2020	A VEHICLE, AND A METHOD FOR	(31) 201615137679
(22) 24.06.2019	OPERATING A USER INTERFACE FOR	(32) 25.04.2016
(54) WORK MACHINE	A VEHICLE	(33) United States of America
(73) KUBOTA CORPORATION	(73) Bayerische Motoren Werke	(51) B60L 53/31
(72) YAMAMOTO, Tatsuro	Aktiengesellschaft	B60L 53/34
ENOMOTO, Yoshiyuki	(72) Iliffe-Moon, Etienne	(11) EP3697641
KOMUKAI, Akira	(51) B60L 7/10	(21) EP18785510.1
YOSHIDA, Daisuke	H02M 5/44	(47) 06.12.2023
YAMAMOTO, Masahiro	H02P 3/22	(87) EP2018025261
HASHIMA, Toyoharu	H02M 1/00	25.04.2019
(31) 2019113796	H02P 27/06	(22) 08.10.2018
2018125488	H02M 7/797	(54) SYSTEM AND METHOD FOR
2018125487	B60L 50/40	TRANSMITTING ENERGY TO A
2018125486	B60L 7/22	MOBILE PART CONFIGURED AS A
2018125485	(11) EP3976417	VEHICLE, COMPRISING AN ENERGY
2018125484	(21) EP20731387.5	STORE AND A SECONDARY WINDING
2018125483	(47) 06.12.2023	(73) Sew-Eurodrive GmbH & Co. KG
2018125482	(87) EP2020025242	(72) SIMON, Olaf
2018125481	03.12.2020	BÖCKLE, Jürgen
2018125480	(22) 25.05.2020	SCHILLING, Rainer
2018125479		MAHLEIN, Jochen

(31) 102017009676	(47) 06.12.2023	(33) United States of America
(32) 18.10.2017	(22) 12.04.2019	(51) B60N 2/433
(33) Germany	(54) HYBRID ENERGY STORAGE MODULE	(11) EP3604030
(51) B60L 53/65	VOLTAGE REGULATION	(21) EP19182960.5
(11) EP3515750	(73) Hamilton Sundstrand Corporation	(47) 06.12.2023
(21) EP17783592.3	(72) WILHIDE, Matthew L.	(22) 27.06.2019
(47) 06.12.2023	HEGLUND, William S.	(54) LINEAR INERTIAL LOCK
(87) JP2017033780	(31) 201815956915	(73) Goodrich Corporation
29.03.2018	(32) 19.04.2018	(72) DAVIS, Kenneth J.
(22) 19.09.2017	(33) United States of America	DUCKERT, Robert E.
(54) POWER FEEDING MANAGEMENT	(51) B60N 2/02	(31) 201816020268
APPARATUS, TRANSACTION	B60N 2/06	(32) 27.06.2018
MANAGEMENT SYSTEM, CHARGING	B60N 2/12	(33) United States of America
EQUIPMENT AND PROGRAM	B60N 2/20	(51) B60N 2/64
(73) Honda Motor Co., Ltd.	B60N 2/30	(11) EP3927577
(72) HANEDA Satoshi	(11) EP4065412	(21) EP20700992.9
(31) 2016183543	(21) EP21710167.4	(47) 06.12.2023
(32) 20.09.2016	(47) 06.12.2023	(87) EP2020050756
(33) Japan	(87) US2021018092	27.08.2020
(51) B60L 58/18	19.08.2021	(22) 14.01.2020
B60L 58/22	(22) 15.02.2021	(54) METHOD FOR PROVIDING A SEATING
G01R 19/165	(54) SEAT ASSEMBLY WITH POWER	SURFACE OF A MOTOR VEHICLE
G01R 31/396	EASY ENTRY HAVING CONCENTRIC	SEAT WITH A RECESS
H01M 10/44	MOTION	(73) PSA Automobiles SA
H01M 10/48	(73) Magna Seating Inc.	(72) KUHLEY, Christian
H02J 7/00	(72) KAPUSKY, Michael	MAIER, Jürgen
(11) EP3560748	RUNDE, David, M.	(31) 102019202295
(21) EP17883666.4	ZIMMERMAN, Ronald, A., II	(32) 20.02.2019
(47) 06.12.2023	(31) 202062976555 P	(33) Germany
(87) KR2017011605	(32) 14.02.2020	(51) B60N 2/862
28.06.2018	(33) United States of America	B60N 2/865
(22) 19.10.2017	(51) B60N 2/02	(11) EP3590760
(54) VOLTAGE DETECTION INTEGRATED	B60N 2/06	(21) EP19020413.1
CIRCUIT AND BATTERY	B60N 2/30	(47) 06.12.2023
MANAGEMENT SYSTEM INCLUDING	B60N 2/20	(22) 02.07.2019
SAME	B60N 2/90	(54) HEADREST
(73) Samsung SDI Co., Ltd.	(11) EP3694744	(73) GRAMMER AG
(72) CHO, Wonkyoung	(21) EP18786710.6	(72) Nuss, Ralph
KIM, Yongchun	(47) 06.12.2023	Delling, Gerhard
(31) 20160176862	(87) EP2018077475	Himmelhuber, Erwin
(32) 22.12.2016	18.04.2019	Bösl, Manuel
(33) Korea (Republic)	(22) 09.10.2018	Keller, Hubert
(51) B60L 58/20	(54) VEHICULE SEAT WITH EASY-ENTRY	(31) 102018005316
H02P 25/22	MECHANISM	(32) 05.07.2018
(11) EP3755572	(73) Volkswagen Aktiengesellschaft	(33) Germany
(21) EP19706561.8	(72) SZLAG, Robert	(51) B60N 3/04
(47) 06.12.2023	(31) 102017218125	B60N 3/06
(87) EP2019054059	(32) 11.10.2017	(11) EP3774445
29.08.2019	(33) Germany	(21) EP19713532.0
(22) 19.02.2019	(51) B60N 2/06	(47) 06.12.2023
(54) DRIVE TRAIN WITH TWO DIFFERENT	B60N 2/015	(87) FR2019050520
VOLTAGE BATTERIES, ELECTRIC	B60N 2/02	03.10.2019
DRIVE SYSTEM WITH LOW VOLTAGE	B60N 2/90	(22) 08.03.2019
BAR SURROUNDED BY HIGH-	(11) EP4054889	(54) ARRANGEMENT OF A FLOOR MAT
VOLTAGE WINDINGS, ELECTRIC	(21) EP21709280.8	COVERED BY A LINING FOR A
MOTOR WITH SEPARATE HIGH	(47) 06.12.2023	FOOTREST, AND CORRESPONDING
VOLTAGE PULSE INVERTER AND	(87) US2021017004	VEHICLE
METHOD FOR OPERATING AN	12.08.2021	(73) PSA Automobiles SA
ELECTRIC MOTOR	(22) 08.02.2021	(72) DUFRESNE, André
(73) Huber Automotive AG	(54) TRANSMISSION SYSTEM FOR POWER	TAVERNIER, Luc
(72) FEDYNA, Achim	LONG RAIL ASSEMBLY	DONNADIEU, Frédéric
(31) 102018103709	(73) Magna Seating Inc.	CUNHA DA SILVA, Daniel
(32) 20.02.2018	(72) ZHAO, Kai	VERGNEGREGRE, Benjamin
(33) Germany	MARINI, Detjon	VALTIER, Alain
(51) B60L 58/22	FOLK, Avery	GALLERNE, Jean Christophe
B60L 58/20	KURZEJA, Kristof, M.	VILLA, Laurent
(11) EP3556602	(31) 202062971309 P	(31) 1852835
(21) EP19168937.1	(32) 07.02.2020	(32) 30.03.2018

(33) France	(87) EP2021050718	Clarios Advanced Solutions GmbH
(51) B60P 3/055	29.07.2021	(72) SHIRAZI, Sepehr
B60P 7/12	(22) 14.01.2021	HOH, Markus
F17C 13/00	(54) METHOD FOR DETERMINING A	(31) 102019129902
F17C 13/08	REGION IN WHICH A SENSOR	(32) 06.11.2019
(11) EP3950425	CANNOT BE INSTALLED	(33) Germany
(21) EP20189977.0	(73) KNORR-BREMSE Systeme für	(51) B60R 19/04
(47) 06.12.2023	Nutzfahrzeuge GmbH	B62D 21/15
(22) 07.08.2020	(72) SCHMIEDT, Stefan	F16B 5/08
(54) HOLDING STRUCTURE FOR	BINDER, Klaus	F16B 11/00
CYLINDER TRAILERS	(31) 102020101209	B62D 25/00
(73) PICCINI PAOLO S.p.A.	(32) 20.01.2020	B62D 25/04
(72) CORBUCCI, Bruno	(33) Germany	B62D 25/20
TAGLIAFERRI, Erik	(51) B60R 11/04	B62D 27/00
CARRARA, Paolo	B60S 1/00	B60R 19/18
(51) B60Q 1/04	(11) EP3969330	(11) EP3932750
B60R 21/34	(21) EP20714228.2	(21) EP20762046.9
(11) EP3501893	(47) 06.12.2023	(47) 06.12.2023
(21) EP17208550.8	(87) EP2020059082	(87) JP2020006313
(47) 06.12.2023	26.11.2020	03.09.2020
(22) 19.12.2017	(22) 31.03.2020	(22) 18.02.2020
(54) A DEVICE FOR SUSPENSION OF A	(54) ARRANGEMENT FOR MOUNTING	(54) STRUCTURAL MEMBER FOR VEHICLE
LAMP IN A VEHICLE	AN OPTICAL SYSTEM ON A BODY	(73) JFE Steel Corporation
(73) Ningbo Geely Automobile Research &	ELEMENT OF A VEHICLE	(72) SAKAIDANI Tomohiro
Development Co. Ltd.	(73) A. Raymond et Cie	SATO Kentaro
(72) HELLBERG, Jan	(72) SANCHEZ, Anthony	FUTATSUKA Takayuki
(51) B60Q 1/26	(31) 1905178	(31) 2020005697
B60Q 1/30	(32) 17.05.2019	2019033075
B60Q 1/44	(33) France	(32) 17.01.2020
(11) EP3213962	(51) B60R 16/023	26.02.2019
(21) EP15855556.5	B60D 1/62	(33) Japan
(47) 06.12.2023	B60R 16/03	Japan
(87) JP2015079496	B60Q 1/30	(51) B60R 19/48
06.05.2016	H05B 47/18	B60R 16/023
(22) 20.10.2015	(11) EP3988397	(11) EP3592901
(54) TRACTOR	(21) EP20382922.1	(21) EP18719649.8
(73) Yanmar Power Technology Co., Ltd.	(47) 06.12.2023	(47) 06.12.2023
(72) KUDO, Junko	(22) 23.10.2020	(87) IB2018051547
(31) 2014219720	(54) ELECTRONIC CONTROL UNIT	13.09.2018
(32) 28.10.2014	(73) Enganches Y Remolques Aragon S.L.	(22) 09.03.2018
(33) Japan	(72) Benito Monreal, Fernando	(54) COLLISION DETECTION SYSTEM FOR
(51) B60Q 3/85	González Juanes, Ramiro	A CRASH GUARD
H05B 45/20	(51) B60R 16/023	(73) Boplan bvba
B60Q 3/80	H01R 4/00	(72) RAMON, Xavier
B60Q 3/82	(11) EP3693227	(31) 201705148
(11) EP4048556	(21) EP19155834.5	(32) 09.03.2017
(21) EP20792378.0	(47) 06.12.2023	(33) Belgium
(47) 06.12.2023	(22) 06.02.2019	(51) B60R 21/015
(87) EP2020078791	(54) DEVICE FOR EARTHING AND	(11) EP3652026
29.04.2021	METHOD	(21) EP18739855.7
(22) 13.10.2020	(73) J.S.T. Mfg. Co., Ltd.	(47) 06.12.2023
(54) METHOD AND DEVICE FOR	(72) BOWEN, Mike	(87) EP2018069065
CONTROLLING THE INTERIOR	(51) B60R 16/033	17.01.2019
LIGHTING OF A VEHICLE	F02N 11/00	(22) 13.07.2018
(73) VOLKSWAGEN	H02J 7/00	(54) SYSTEM AND METHOD FOR
AKTIENGESELLSCHAFT	B60L 58/16	RADAR-BASED DETERMINATION
(72) KNIPP, Richard	G01R 31/392	OF A NUMBER OF PASSENGERS
HEINRICHS, André	(11) EP4054899	INSIDE A VEHICLE PASSENGER
BRETZ, Janine	(21) EP20764056.6	COMPARTMENT
SIEGMUND, Margret	(47) 06.12.2023	(73) IEE International Electronics &
(31) 102019216415	(87) EP2020073692	Engineering S.A.
(32) 24.10.2019	14.05.2021	(72) DIAS DA CRUZ, Steve
(33) Germany	(22) 25.08.2020	BEISE, Hans-Peter
(51) B60R 11/04	(54) METHOD AND SYSTEM FOR	KARAHASANOVIC, Una
(11) EP4093640	PREDICTING ENGINE-START	(31) 100451
(21) EP21700729.3	PERFORMANCE OF AN ELECTRICAL	100338
(47) 06.12.2023	ENERGY STORAGE SYSTEM	(32) 21.09.2017
	(73) Clarios Germany GmbH & Co. KG	13.07.2017

(33) Luxembourg Luxembourg	(33) Germany	28.02.2019
(51) B60R 21/20	(51) B60S 1/34	(22) 20.08.2018
(11) EP4079582	B60S 1/52	(54) DEVICE AND METHOD FOR TRANSMITTING A PHYSICAL PARAMETER USING ANALOGUE SIGNALS FOR A VEHICLE CONTROLLER
(21) EP22166270.3	B60S 1/04	(73) KNORR-BREMSE Systeme für Schienenfahrzeuge GmbH
(47) 06.12.2023	(11) EP3902708	(72) HAMIDI, Mario
(22) 01.04.2022	(21) EP19809842.8	STANKO, Michael
(54) SIDE AIRBAG ASSEMBLIES AND METHODS OF ASSEMBLY	(47) 06.12.2023	(31) 102017214554
(73) Autoliv ASP, Inc.	(87) EP2019082977	(32) 21.08.2017
(72) MORITA, Naoki	02.07.2020	(33) Germany
(31) 202117231827	(22) 28.11.2019	(51) B60T 7/04
(32) 15.04.2021	(54) WIPER BLADE REPLACEMENT KIT	B60T 13/74
(33) United States of America	(73) Valeo Systèmes d'Essuyage	(11) EP4048563
(51) B60R 21/205	(72) HOUSSAT, Stéphane	(21) EP20797464.3
(11) EP4023503	GAUCHER, Vincent	(47) 06.12.2023
(21) EP21202200.8	MOULEYRE, Guillaume	(87) EP2020080041
(47) 06.12.2023	JOMARD, Olivier	29.04.2021
(22) 12.10.2021	CARRION, Julien	(22) 26.10.2020
(54) VEHICLE CRASH PAD WITH AIRBAG DOOR	(31) 1874190	(54) METHOD TO USE A BRAKE SYSTEM WITH AN INTEGRATED PARKING BRAKE AND BRAKE SYSTEM
(73) Hyundai Mobis Co., Ltd.	(32) 26.12.2018	(73) Continental Automotive Technologies GmbH
(72) LEE, Min Kyeong	(33) France	(72) STANOJKOVSKI, Aleksandar
(31) 20200131348	(51) B60S 1/52	BIEGLER, Serge
20200131347	B60S 1/60	WINTZER, Michael
20200131346	B60S 1/48	(31) 102019216429
(32) 12.10.2020	B60S 1/56	(32) 24.10.2019
12.10.2020	(11) EP3640099	(33) Germany
12.10.2020	(21) EP18817577.2	(51) B60T 7/12
(33) Korea (Republic)	(47) 06.12.2023	B60T 8/32
Korea (Republic)	(87) JP2018019254	B60W 30/06
Korea (Republic)	20.12.2018	B60W 30/14
(51) B60R 21/2338	(22) 18.05.2018	(11) EP3727962
B60R 21/239	(54) VEHICLE CLEANER SYSTEM AND VEHICLE PROVIDED WITH VEHICLE CLEANER SYSTEM	(21) EP17935809.8
(11) EP3917809	(73) Koito Manufacturing Co., Ltd.	(47) 06.12.2023
(21) EP20705137.6	(72) SAKAI Masaru	(87) IB2017058491
(47) 06.12.2023	KONDO Masayuki	27.06.2019
(87) EP2020052086	KAWAMURA Kazuki	(22) 28.12.2017
06.08.2020	KUBOTA Akinobu	(54) METHOD AND SYSTEM FOR HUMAN-LIKE VEHICLE CONTROL PREDICTION IN AUTONOMOUS DRIVING VEHICLES
(22) 29.01.2020	(31) 2017115877	(73) PlusAI, Inc.
(54) AIRBAG MODULE FOR A VEHICLE OCCUPANT RESTRAINT SYSTEM, AND METHOD FOR OPERATING A VEHICLE OCCUPANT RESTRAINT SYSTEM COMPRISING SUCH AN AIRBAG MODULE	2017115875	(72) ZHOU, Mianwei
(73) Dalphi Metal España, S.A.	2017115873	ZHENG, Hao
(72) UGARTE ALBA, Óscar	2017115872	LIU, David Wanqian
(31) 102019102372	(32) 13.06.2017	(31) 201715845423
(32) 30.01.2019	13.06.2017	(32) 18.12.2017
(33) Germany	13.06.2017	(33) United States of America
(51) B60R 21/264	(33) Japan	(51) B60T 7/18
F42B 3/04	Japan	B60T 7/22
(11) EP4072906	Japan	G01M 17/007
(21) EP20792562.9	Japan	G06F 7/00
(47) 06.12.2023	(51) B60S 3/04	G06F 17/10
(87) EP2020078206	(11) EP3793870	G08G 1/16
17.06.2021	(21) EP18725175.6	(11) EP3481684
(22) 08.10.2020	(47) 06.12.2023	(21) EP17824916.5
(54) GAS GENERATOR	(87) EP2018062405	(47) 06.12.2023
(73) ZF Airbag Germany GmbH	21.11.2019	(87) US2017040965
(72) ASENKERSCHBAUMER, Dominik	(22) 14.05.2018	11.01.2018
RUCKDESCHHEL, Rolf	(54) CAR WASH SYSTEM WITH A SPRAYING DEVICE	(22) 06.07.2017
WEBER, Bernd	(73) Alfred Kärcher SE & Co. KG	(54) IMPROVEMENTS TO A SOFT COLLISION PARTNER (AKA SOFT
LAST, Detlef	(72) OPPENLÄNDER, Simon	
(31) 102019134263	SPECKMAIER, André	
(32) 13.12.2019	(51) B60T 7/04	
	B60T 13/66	
	(11) EP3672846	
	(21) EP18762783.1	
	(47) 06.12.2023	
	(87) EP2018072452	

CAR) USED IN SYSTEM FOR TESTING CRASH AVOIDANCE TECHNOLOGIES	(21) EP20186942.7 (47) 06.12.2023	H02J 7/34 H02J 9/06
(73) Dynamic Research, Inc.	(22) 21.07.2020	(11) EP4015322
(72) SILBERLING, Jordan SATROM, Paul KELLY, Joe KEBSCHULL, Brian LENKEIT, John	(54) APPARATUS AND METHOD FOR DETERMINING A ROAD FRICTION	(21) EP20214919.1 (47) 06.12.2023
(31) 201662359929 P (32) 08.07.2016 (33) United States of America	(73) KNORR-BREMSE Systeme für Nutzfahrzeuge GmbH (72) STRAUB, Kornel NEMETH, Huba	(22) 17.12.2020 (54) BACKUP SYSTEM FOR AN ELECTRONIC PARKING BRAKE AND A METHOD FOR PROVIDING A BACKUP POWER
(51) B60T 8/17 B60T 8/32	(51) B60T 8/88 (11) EP3835151	(73) KNORR-BREMSE Systeme für Nutzfahrzeuge GmbH (72) Gyetván, Peter
(11) EP4043303 (21) EP22156313.3 (47) 06.12.2023 (22) 11.02.2022	(21) EP20203743.8 (47) 06.12.2023 (22) 26.10.2020	(73) KNORR-BREMSE Systeme für Nutzfahrzeuge GmbH (72) Gyetván, Peter Kandár, Tibor Koházi, Ádám Michalski, Max
(54) AN AIRCRAFT BRAKE CONTROL SYSTEM	(54) METHOD FOR CONTROLLING A BRAKE SYSTEM OF A VEHICLE	(51) B60W 10/18 B60W 30/18 B60W 40/076
(73) Airbus Operations Limited (72) HAYES, Alexander BIDMEAD, Ashley STORME, Thierry COOMBE, Robert JOHNSON, Mark HEBBORN, Andrew	(73) Continental Automotive Technologies GmbH (72) Diehl, Marius Borneis, Joachim Brzezina, Jan Cornils, Arne	(11) EP3758996 (21) EP19706382.9 (47) 06.12.2023 (87) EP2019052043 29.08.2019 (22) 29.01.2019
(31) 202101916 (32) 11.02.2021 (33) United Kingdom	(31) 102019219328 (32) 11.12.2019 (33) Germany	(54) A CONTROLLER FOR A VEHICLE AND A METHOD
(51) B60T 8/17 B60T 8/32	(51) B60T 13/24 B60T 17/04 B61H 11/00 B60T 17/06	(73) Jaguar Land Rover Limited (72) BAKEWELL, Ryan HANCOCK, Matthew ROQUES, Olivier
(11) EP4056432 (21) EP22160608.0 (47) 06.12.2023 (22) 07.03.2022	(11) EP3663148 (21) EP18840756.3 (47) 06.12.2023 (87) CN2018071795 07.02.2019 (22) 08.01.2018	(31) 201803014 (32) 26.02.2018 (33) United Kingdom
(54) AN AIRCRAFT BRAKE CONTROL SYSTEM	(54) CONNECTION STRUCTURE AND SYSTEM OF INTEGRATED BRAKE DEVICE FOR RAIL VEHICLE	(51) B60W 20/12 B60W 20/16 B60K 6/445 F01N 3/10
(73) Airbus Operations Limited (72) Hayes, Alexander Bidmead, Ashley Hebborn, Andrew	(73) Meishan CRR Brake Science & Technology Co., Ltd. (72) XIAO, Bali LI, Keming LV, Chao SHEN, Yanfei XIE, Lei AN, Hong XIAO, Weiyuan XIAO, Chen LIU, Yi YANG, Jianping SHEN, Jianhong TIAN, Yu WANG, Kaien ZHU, Yu LIU, Baohua LIU, Wenjun NING, Bo XU, Hai OU, Dongfang LI, Moukui	(11) EP3882094 (21) EP21160443.4 (47) 06.12.2023 (22) 03.03.2021 (54) NON-TRANSITORY STORAGE MEDIUM AND VEHICLE CONTROL DEVICE (73) TOYOTA JIDOSHA KABUSHIKI KAISHA (72) KAGEURA, Yoshiyuki SAKAYANAGI, Yoshihiro YOKOYAMA, Daiki
(31) 202103175 (32) 08.03.2021 (33) United Kingdom	(31) 201710654815 (32) 03.08.2017 (33) China	(31) 2020046581 (32) 17.03.2020 (33) Japan
(51) B60T 8/1766 (11) EP3500461 (21) EP17731807.8 (47) 06.12.2023 (87) EP2017000711 22.02.2018 (22) 20.06.2017	(54) METHOD FOR ADJUSTING BRAKE PRESSURES, BRAKE SYSTEM OF A MOTOR VEHICLE FOR CARRYING OUT THE METHOD, AND MOTOR VEHICLE COMPRISING SUCH A BRAKE SYSTEM	(51) B60W 30/14 B60W 60/00 G05D 1/02 G01C 21/34 G01C 21/26
(73) ZF CV Systems Europe BV (72) FLAUM, Nikolai NGUYEN, Van Tien WALLBAUM, Torsten	(31) 102016009997 (32) 17.08.2016 (33) Germany	(11) EP3792125 (21) EP19197329.6 (47) 06.12.2023 (22) 13.09.2019
(31) 102016009997 (32) 17.08.2016 (33) Germany	(51) B60T 13/38 B60R 16/033 B60T 13/66 B60T 17/22 H02J 1/10	(54) SAFE TRAJECTORY TRACKING IN UNCERTAIN ENVIRONMENTS
(51) B60T 8/32 B60T 8/17 B60W 40/068 (11) EP3943350		(73) Zenuity AB (72) BATKOVIC, Ivo ALI, Mohammad ZANON, Mario FALCONE, Paolo

(51) B60W 30/16	201562246535 P	(11) EP3850541
B60W 50/00	(32) 16.05.2016	(21) EP19890378.3
(11) EP3419877	16.05.2016	(47) 06.12.2023
(21) EP17707005.9	30.10.2015	(87) US2019050343
(47) 06.12.2023	26.10.2015	04.06.2020
(87) EP2017054257	(33) United States of America	(22) 10.09.2019
31.08.2017	United States of America	(54) AIRCRAFT WITH PASSENGER REST
(22) 23.02.2017	United States of America	COMPARTMENTS FOR REMOTE
(54) MOTOR VEHICLE DRIVING	United States of America	SPACES
ASSISTANCE DEVICE AND METHOD	(51) B61B 12/02	(73) Rockwell Collins, Inc.
(73) Valeo Schalter und Sensoren GmbH	B61B 12/06	(72) SKELLY, Trevor
(72) GARNAULT, Alexandre	(11) EP3976433	BRAUER, R., Klaus
HEITZMANN, Thomas	(21) EP20728991.9	ESCOBAR, Art, M.
RESENDE, Paulo	(47) 06.12.2023	BEHR, Nicolas
BRADAI, Benazouz	(87) EP2020063812	WEAVER, Randall, S.
QUIVY, Charles-Henri	03.12.2020	MOSS, Ron
(31) 1651477	(22) 18.05.2020	VANINETTI, Travis, J.
(32) 23.02.2016	(54) METHOD FOR DETECTING WEAR OF	BECEL, Frédéric
(33) France	A CABLE ROLLER OF A CABLEWAY	ABOUT, Patrice
(51) B60W 40/06	INSTALLATION	(31) 201816126952
B60W 50/14	(73) Innova Patent GmbH	201862729237 P
B60W 40/09	(72) PFEIFER, Daniel	(32) 10.09.2018
(11) EP4108535	MOHNI, Adrian	10.09.2018
(21) EP22178427.5	(31) 504872019	(33) United States of America
(47) 06.12.2023	(32) 28.05.2019	United States of America
(22) 10.06.2022	(33) Austria	(51) B61D 17/10
(54) PROCESSING DEVICE,	(51) B61C 17/00	B62D 25/20
MOTORCYCLE, AND PROCESSING	B61C 3/00	B62D 29/04
METHOD	B61C 5/02	B62D 31/02
(73) Robert Bosch GmbH	(11) EP3702232	(11) EP3909826
(72) Fukuzawa, Keiichiro	(21) EP20160115.0	(21) EP21170973.8
(31) 2021104394	(47) 06.12.2023	(47) 06.12.2023
(32) 23.06.2021	(22) 28.02.2020	(22) 28.04.2021
(33) Japan	(54) RAILWAY VEHICLE WITH	(54) INTEGRAL FLOOR ASSEMBLY FOR
(51) B60W 40/064	ARRANGEMENT ADAPTED FOR	RAILWAY VEHICLES
B60W 40/10	MAINTENANCE OPERATIONS	(73) Elbe Flugzeugwerke GmbH
B60W 40/12	(73) ALSTOM Holdings	(72) Dunkel, Albrecht
(11) EP4051550	(72) VANDAMME, Thibault	Wittig, Matthias
(21) EP20799660.4	CHIARANDINI, Bruno	Nitsche, Steffen
(47) 06.12.2023	HEIDET, Arnaud	Rosenbaum, Lars
(87) EP2020080120	(31) 1902161	(31) 102020113308
06.05.2021	(32) 01.03.2019	(32) 15.05.2020
(22) 27.10.2020	(33) France	(33) Germany
(54) REAL-TIME PERFORMANCE	(51) B61D 1/00	(51) B61D 35/00
HANDLING VIRTUAL TIRE SENSOR	B61D 17/22	E03F 1/00
(73) VOLKSWAGEN	B61D 27/00	B60R 15/04
AKTIENGESELLSCHAFT	(11) EP3702233	(11) EP3448732
Audi AG	(21) EP20153776.8	(21) EP17726836.4
(72) BHIMANI, Mohak	(47) 06.12.2023	(47) 06.12.2023
NOOKA, Sai, Prasad	(22) 27.01.2020	(87) EP2017060081
GEORGE, Nikhil	(54) MULTI-PART RAILWAY VEHICLE	02.11.2017
(31) 201916665741	WITH A CARRIAGE ASSEMBLY	(22) 27.04.2017
(32) 28.10.2019	COMPRISES A SUPPORT CARRIAGE	(54) SUCTION DEVICE FOR A
(33) United States of America	AND TWO CARRIAGE TRANSITION	WASTEWATER TANK, RETROFIT
(51) B61B 3/02	MODULES	KIT THEREFOR AND METHOD FOR
(11) EP3368390	(73) Siemens Mobility GmbH	EMPTYING A WASTEWATERTANK
(21) EP16801329.0	(72) Henkel, Sven	(73) Hugo Vogelsang Maschinenbau GmbH
(47) 06.12.2023	(31) 102019202584	(72) ZEIN, Bilal
(87) US2016058962	(32) 26.02.2019	HEINRICHS, Martin
04.05.2017	(33) Germany	(31) 202016102246 U
(22) 26.10.2016	(51) B61D 1/08	(32) 27.04.2016
(54) OVERHEAD TRANSPORT AND ROUTE	B61D 31/00	(33) Germany
MANAGEMENT SYSTEM	B64D 11/06	(51) B61L 1/16
(73) EagleRail Container Logistics Inc.	B64D 45/00	(11) EP4051552
(72) MEISSNER, J. Michael	B64D 11/00	(21) EP20793732.7
(31) 201662337272 P	H04N 7/18	(47) 06.12.2023
201662337276 P	G09G 3/20	(87) EP2020080260
201562249086 P	G08B 21/22	06.05.2021

(22) 28.10.2020	(47) 06.12.2023	(54) FREE-MOVING TRANSPORT
(54) PRECISE PLACEMENT OF A SENSOR DEVICE ON A RAIL TRACK	(87) CN2019070451 11.07.2019	CARRIAGE AND CONVEYING SYSTEM FOR CONVEYING AND TREATMENT SYSTEM FOR TREATING WORKPIECES
(73) BUILD CONNECTED B.V.	(22) 04.01.2019	(73) Eisenmann GmbH
(72) VAN DER SCHRIECK, Maarten Pim HEERES, Reinier Willem KRANENBURG, Wichert Jan	(54) LUGGAGE CART (73) Nuctech Company Limited (72) ZHANG, Li CHEN, Zhiqiang HUANG, Qingping BI, Wenjuan JIN, Xin CHANG, Ming HONG, Mingzhi WANG, Yancai	(72) SCHULZE, Herbert (31) 102019117036 (32) 25.06.2019 (33) Germany
(31) 2024146	(31) 201810010255	(51) B62D 6/00
(32) 01.11.2019	(32) 05.01.2018	(11) EP4088990
(33) Netherlands	(33) China	(21) EP22171134.4
(51) B61L 3/00 B60L 15/20	(51) B62B 5/00 G01G 19/414 G06Q 20/20 G06Q 20/32 G07G 1/00 B62B 3/10 B62B 3/14	(47) 06.12.2023 (22) 02.05.2022 (54) STEERING CONTROL DEVICE (73) JTEKT CORPORATION TOYOTA JIDOSHA KABUSHIKI KAISHA
(11) EP3778290	(11) EP4045383	(72) SUZUKI, Hiroto NAMIKAWA, Isao KUDO, Yoshio SUEHIRO, Yuki AKATSUKA, Kosuke
(21) EP19777735.2	(21) EP20812127.7	(31) 2021082376
(47) 06.12.2023	(47) 06.12.2023	(32) 14.05.2021
(87) JP2019003929 03.10.2019	(87) IB2020059685 22.04.2021	(33) Japan
(22) 04.02.2019	(22) 15.10.2020	(51) B62D 6/00 B62D 1/12 B62D 5/06 B62D 5/28 B62D 12/02 B62D 101/00 B62D 113/00 B62D 115/00 B62D 12/00 G05G 9/047
(54) TRAIN CONTROL SYSTEM AND TRAIN CONTROL METHOD	(54) SHOPPING TROLLEY FOR SELF-SERVICE SHOPPING	(11) EP3705380
(73) Hitachi, Ltd.	(73) Mago S.A.	(21) EP19814217.6
(72) TANAKA, Mitsuhiko NAKAMURA, Tomohiko IESHIGE, Naoya	(72) MARCZAK, Piotr (31) 43149319 (32) 16.10.2019 (33) Poland	(47) 06.12.2023 (87) JP2019006263 12.12.2019 (22) 20.02.2019 (54) WORK VEHICLE (73) Komatsu Ltd. (72) TERANISHI, Yuichi (31) 2018108949 (32) 06.06.2018 (33) Japan
(31) 2018060079	(51) B62D 1/12 B62D 5/06 B62D 5/28 B62D 6/00 B62D 101/00 B62D 113/00 B62D 115/00 G05G 1/04 B62D 12/00	(51) B62D 6/00 B62D 1/12 B62D 5/06 B62D 5/28 B62D 12/02 B62D 101/00 B62D 113/00 B62D 115/00 B62D 12/00 G05G 9/047
(32) 27.03.2018	(11) EP3712034	(11) EP3705381
(33) Japan	(21) EP19815798.4	(21) EP19815917.0
(51) B61L 15/00	(47) 06.12.2023	(47) 06.12.2023
(11) EP3472022	(87) JP2019006346 12.12.2019	(87) JP2019006304 12.12.2019
(21) EP17729441.0	(22) 20.02.2019	(22) 20.02.2019
(47) 06.12.2023	(54) WORK VEHICLE	(54) WORK VEHICLE
(87) EP2017063771 21.12.2017	(73) Komatsu Ltd.	(73) Komatsu Ltd.
(22) 07.06.2017	(72) TERANISHI, Yuichi	(72) TERANISHI, Yuichi
(54) DATA TRANSFER DEVICE FOR RAIL VEHICLES	(31) 2018108991	(31) 2018108977
(73) KNORR-BREMSE Systeme für Schienenfahrzeuge GmbH	(32) 06.06.2018	
(72) FOISSNER, Bernd	(33) Japan	
(31) 102016111098	(51) B62D 1/28 B62D 65/18 G05D 1/02	
(32) 17.06.2016	(11) EP3990997	
(33) Germany	(21) EP20723838.7	
(51) B61L 15/00 B61D 37/00 H01Q 13/10 H01Q 1/00 H01Q 1/32	(47) 06.12.2023	
(11) EP3604078	(87) EP2020062123 30.12.2020	
(21) EP17904171.0	(22) 30.04.2020	
(47) 06.12.2023		
(87) JP2017012587 04.10.2018		
(22) 28.03.2017		
(54) ON-BOARD WIRELESS DISPLAY AND ON-BOARD DISPLAY SYSTEM		
(73) Mitsubishi Electric Corporation		
(72) SUDO, Akitoshi NAGAMUNE, Atsuhiko KANEDA, Tomotaka YANAGI, Takashi		
(51) B62B 3/00 B62B 3/02 B62B 5/00 G01V 5/00 G01N 23/04 G01N 23/046		
(11) EP3533683		
(21) EP19711487.9		

(32) 06.06.2018	(22) 04.06.2020	(22) 26.10.2020
(33) Japan	(54) MULTIPURPOSE WORK VEHICLE	(54) CONTROLLED DEFORMATION
(51) B62D 7/22	(73) Kubota Corporation	BICYCLE SADDLE
F16F 15/08	(72) OKABE, Kensuke	(73) SELLE ITALIA S.r.l.
B60R 21/203	NAKAO, Kohta	(72) BIGOLIN, Riccardo
F16F 3/10	ENDO, Yusuke	CITO, Michele
(11) EP3922536	(31) 2019169569	(31) 201900020184
(21) EP20752792.0	(32) 18.09.2019	(32) 31.10.2019
(47) 06.12.2023	(33) Japan	(33) Italy
(87) JP2020003388	(51) B62D 35/00	(51) B62J 45/20
13.08.2020	(11) EP4079611	B62J 1/08
(22) 30.01.2020	(21) EP21169311.4	B62K 25/08
(54) VIBRATION REDUCTION STRUCTURE	(47) 06.12.2023	B62K 25/28
FOR VEHICLE STEERING WHEEL	(22) 20.04.2021	B62M 25/08
(73) Autoliv Development AB	(54) VEHICLE REAR WING STRUCTURE	H04W 4/80
(72) SHIRAISHI, Norihisa	(73) Caruse Design, Inc.	B62M 9/122
ABE, Kazuhiro	(72) Chen, Allan	B62M 9/132
KURA, Takayuki	(51) B62D 35/00	H04W 4/18
(31) 2019021797	B62D 37/02	H04W 84/00
(32) 08.02.2019	(11) EP4051559	(11) EP3691312
(33) Japan	(21) EP20793357.3	(21) EP20154267.7
(51) B62D 21/11	(47) 06.12.2023	(47) 06.12.2023
B62D 21/15	(87) EP2020079388	(22) 29.01.2020
B62D 27/02	06.05.2021	(54) SYSTEM FOR A BICYCLE
B62D 29/00	(22) 19.10.2020	(73) SRAM, LLC.
(11) EP3971065	(54) MODULAR SYSTEM AND	(72) Ho, Alexander Kon-I
(21) EP21200932.8	CONNECTION DEVICE FOR MOTOR	(31) 201916268026
(47) 06.12.2023	VEHICLE AIR-GUIDING ELEMENTS	201962798080 P
(22) 15.05.2018	(73) MAN Truck & Bus SE	(32) 05.02.2019
(54) ELECTRIC VEHICLE	(72) SCHMITZ, Andreas	29.01.2019
(73) VOLVO CAR CORPORATION	(31) 102019007558	(33) United States of America
(72) EKLUND, Johan	(32) 30.10.2019	United States of America
(51) B62D 25/02	(33) Germany	(51) B62J 50/22
B62D 21/15	(51) B62D 59/04	H04M 1/72448
B60K 1/04	F16D 11/14	(11) EP3978343
(11) EP3966086	F16D 23/12	(21) EP21190658.1
(21) EP20725945.8	B60K 7/00	(47) 06.12.2023
(47) 06.12.2023	B60K 17/04	(22) 10.08.2021
(87) IB2020054341	(11) EP3750736	(54) STRADDLED VEHICLE
12.11.2020	(21) EP20186901.3	(73) Yamaha Hatsudoki Kabushiki Kaisha
(22) 07.05.2020	(47) 06.12.2023	(72) SUGIYAMA, Yuichi
(54) SIDE SILL PART FOR AN	(22) 08.01.2018	(31) 2020165751
AUTOMOTIVE VEHICLE	(54) HYDRAULIC DRIVE SYSTEM	(32) 30.09.2020
(73) ArcelorMittal	(73) New Heights LLC	(33) Japan
(72) GIBEAU, Elie	(72) BEILER, Aaron Jay	(51) B62J 99/00
BARDIN, Kevin	(31) 201715402674	G01L 5/16
SOTTY, Alexandre	(32) 10.01.2017	B62J 45/415
SCHNEIDER, Nicolas	(33) United States of America	B62K 11/00
(31) PCT/IB2019/053732	(51) B62H 5/00	(11) EP3800116
(32) 07.05.2019	E05B 67/38	(21) EP20209904.0
(33) World Intellectual Property Office (WIPO)	E05B 71/00	(47) 06.12.2023
(51) B62D 25/20	B62J 11/00	(22) 19.10.2016
B60K 1/04	(11) EP3925868	(54) TIRE FORCE ESTIMATING DEVICE
(11) EP3511231	(21) EP21170512.4	AND TIRE FORCE ESTIMATING
(21) EP18150934.0	(47) 06.12.2023	METHOD
(47) 06.12.2023	(22) 26.04.2021	(73) Kawasaki Motors, Ltd.
(22) 10.01.2018	(54) HOLDER FOR A PORTABLE LOCK	(72) Tokunaga, Hisato
(54) REINFORCEMENT STRUCTURE	(73) ABUS August Bremicker Söhne KG	Ichikawa, Kazuhiro
(73) Volvo Car Corporation	(31) 102020116154	(51) B62K 19/30
(72) Övgård, Fredrik	(32) 18.06.2020	B62M 6/90
(51) B62D 33/02	(33) Germany	(11) EP3587232
B62D 49/00	(51) B62J 1/00	(21) EP19180062.2
B60N 2/01	B62J 1/18	(47) 06.12.2023
B60N 2/38	B62J 1/26	(22) 13.06.2019
(11) EP3795413	(11) EP3816025	(54) FRAME FOR AN ELECTRIC BICYCLE
(21) EP20178249.7	(21) EP20203801.4	(73) ZEG Zweirad-Einkaufs-Genossenschaft
(47) 06.12.2023	(47) 06.12.2023	eG
		(72) Böhm, Peter

(31) 202018103384 U	(33) United States of America	F25J 1/00
(32) 15.06.2018	(51) B63B 19/08	B63H 21/38
(33) Germany	B63B 27/14	F02M 21/02
(51) B62K 25/28	(11) EP3814212	F17C 9/02
B62K 25/04	(21) EP19739729.2	F17C 6/00
B60G 17/005	(47) 06.12.2023	B63J 99/00
B60G 17/017	(87) SE2019050665	(11) EP3305646
(11) EP3870462	30.01.2020	(21) EP16803586.3
(21) EP19766242.2	(22) 04.07.2019	(47) 06.12.2023
(47) 06.12.2023	(54) SHIP COMPRISING A BOW DOOR	(87) KR2016003543
(87) EP2019074077	ARRANGEMENT AND/OR A BOW	08.12.2016
30.04.2020	RAMP ARRANGEMENT	(22) 05.04.2016
(22) 10.09.2019	(73) Macgregor Sweden AB	(54) BOIL-OFF GAS TREATMENT SYSTEM
(54) FIXING DEVICE FOR A SWING ARM	(72) OLOFSSON, Johan	FOR A SHIP
OF A TILTING VEHICLE, AND METHOD	PETERSSON, Thomas	(73) Daewoo Shipbuilding & Marine
FOR OPERATING SUCH A FIXING	(31) 1850916	Engineering Co., Ltd.
DEVICE	(32) 19.07.2018	(72) SHIN, Hyun Jun
(73) Bayerische Motoren Werke	(33) Sweden	CHOI, Dong Kyu
Aktiengesellschaft	(51) B63B 25/16	MOON, Young Sik
(72) SEIDL, Josef	(11) EP3760530	AN, Su Kyung
(31) 102018126239	(21) EP19761627.9	JANG, Hyun Min
(32) 22.10.2018	(47) 06.12.2023	SON, Jae Wook
(33) Germany	(87) JP2019008287	LEE, Joon Chae
(51) B62M 9/10	06.09.2019	(31) 20150135997
(11) EP3741656	(22) 04.03.2019	20150136257
(21) EP20000196.4	(54) SHIP	20150078142
(47) 06.12.2023	(73) Kawasaki Jukogyo Kabushiki Kaisha	(32) 25.09.2015
(22) 16.03.2016	(72) UEDA, Yuichiro	25.09.2015
(54) BICYCLE REAR WHEEL PINION	TANAKA, Maiko	02.06.2015
ASSEMBLY	YOSHIDA, Takumi	(33) Korea (Republic)
(73) SRAM Deutschland GmbH	EGUCHI, Yuzo	Korea (Republic)
(72) Braedt, Henrik	(31) 2018037207	Korea (Republic)
Reinbold, Matthias	(32) 02.03.2018	(51) B63B 27/10
(31) 102015205736	(33) Japan	B63B 17/00
(32) 30.03.2015	(51) B63B 25/16	B66C 13/02
(33) Germany	F25J 1/02	B66C 23/53
(51) B62M 13/00	F25J 1/00	(11) EP3568349
B62M 6/75	B63H 21/38	(21) EP18700020.3
B62M 11/14	F02M 21/02	(47) 06.12.2023
(11) EP4021791	F17C 9/02	(87) EP2018050037
(21) EP20768700.5	F17C 6/00	19.07.2018
(47) 06.12.2023	B63J 99/00	(22) 02.01.2018
(87) IB2020057630	(11) EP3305644	(54) WATERCRAFT HAVING A DECK
04.03.2021	(21) EP16803584.8	CRANE
(22) 13.08.2020	(47) 06.12.2023	(73) thyssenkrupp Marine Systems GmbH
(54) PROPULSION DEVICE FOR TWO-	(87) KR2016003541	thyssenkrupp AG
WHEELED VEHICLE	08.12.2016	(72) TREYDE, Hinnerk
(73) Cucchi Giovanni & C. S.r.l.	(22) 05.04.2016	(31) 102017200392
(72) CUCCHI, Cesare	(54) SHIP	(32) 11.01.2017
(31) 201900015162	(73) Hanwha Ocean Co., Ltd.	(33) Germany
(32) 28.08.2019	(72) SHIN, Hyun Jun	(51) B63B 32/64
(33) Italy	CHOI, Dong Kyu	(11) EP4217266
(51) B63B 1/24	MOON, Young Sik	(21) EP22730778.2
B63H 16/20	AN, Su Kyung	(47) 06.12.2023
B63B 34/40	JANG, Hyun Min	(87) EP2022063928
(11) EP3592639	SON, Jae Wook	15.12.2022
(21) EP17899830.8	LEE, Joon Chae	(22) 23.05.2022
(47) 06.12.2023	(31) 20150135999	(54) WATER BOARD FIN PROVIDED WITH
(87) IB2017055917	20150136257	A HINGE WHICH IS SELF-LOCKING
13.09.2018	20150078142	IN A STABILIZING POSITION AND A
(22) 27.09.2017	(32) 25.09.2015	FOLDED POSITION
(54) HUMAN POWERED HYDROFOIL	25.09.2015	(73) EQUIP CLUB SA
VEHICLE AND USE METHOD	02.06.2015	(72) SCHMÄH, Daniel
(73) Bright Spark Innovations GP Limited	(33) Korea (Republic)	(31) 2106205
(72) HOWARD-WILLIS, Guy	Korea (Republic)	(32) 11.06.2021
CRUZ ALONZO, Rolando	Korea (Republic)	(33) France
(31) 201762467668 P	(51) B63B 25/16	(51) B63H 9/069
(32) 06.03.2017	F25J 1/02	B63H 8/21

B63H 8/16	(54) ROTOR ASSEMBLY AND AIRCRAFT	(22) 25.02.2021
B63H 8/12	WITH ROTOR ASSEMBLY	(54) AN ELECTRICALLY POWERED
B63H 8/18	(73) Textron Innovations Inc.	ROTARY-WING AIRCRAFT
(11) EP4219288	(72) THOMPSON, George Matthew	(73) Airbus Urban Mobility GmbH
(21) EP23164131.7	SHERRILL, Paul	(72) LANZENDOERFER, Silvio
(47) 06.12.2023	KNOLL, Jonathan	PREISSER, Gero
(22) 10.08.2021	(31) 201916679000	GEISS, Michael
(54) FOILWING	(32) 08.11.2019	(51) B64C 27/26
(73) Boards & More GmbH	(33) United States of America	B64C 27/08
(72) PAJANK, Max	(51) B64C 13/10	B64C 3/38
(31) 202021101663 U	B64C 13/04	G05D 1/08
102021106993	B64C 13/50	B64C 29/00
102020121553	B64C 27/57	B64C 39/02
(32) 29.03.2021	B64C 27/56	B64U 10/10
22.03.2021	(11) EP3569497	B64U 10/13
17.08.2020	(21) EP18183756.8	B64U 101/60
(33) Germany	(47) 06.12.2023	(11) EP3795470
Germany	(22) 16.07.2018	(21) EP19802833.4
Germany	(54) SYSTEM AND METHOD FOR TACTILE	(47) 06.12.2023
(51) B63H 11/08	CUEING THROUGH ROTORCRAFT	(87) JP2019018972
B63H 11/11	PILOT CONTROLS USING VARIABLE	21.11.2019
B63H 20/00	FRICTION AND FORCE GRADIENT	(22) 13.05.2019
B63H 20/24	(73) Textron Innovations Inc.	(54) FLIGHT VEHICLE AND METHOD OF
(11) EP3901028	(72) ALFRED, Jillian Samantha	CONTROLLING FLIGHT VEHICLE
(21) EP20174614.6	WORSHAM II, Robert Earl	(73) Kawasaki Jukogyo Kabushiki Kaisha
(47) 06.12.2023	JOHNSON Jr., Thomas Earl	(72) KATAYAMA, Noriaki
(22) 14.05.2020	LINTON, Bradley Don	KUMATOMO, Yuichi
(54) BUILT-IN PROPULSION SYSTEM	COVINGTON, Charles Eric	(31) 2018093169
(73) Solas Science & Engineering Co., Ltd.	(31) 201815983752	(32) 14.05.2018
(72) LIN, YEUN-JUNN	(32) 18.05.2018	(33) Japan
(31) 109113473	(33) United States of America	(51) B64C 27/28
(32) 22.04.2020	(51) B64C 13/12	B64C 29/02
(33) Taiwan, Chinese Taipei	G05G 5/03	B64C 39/02
(51) B63H 21/21	(11) EP3442861	(11) EP3904204
B63H 25/02	(21) EP17715970.4	(21) EP19907452.7
G05G 1/04	(47) 06.12.2023	(47) 06.12.2023
(11) EP4039580	(87) GB2017050861	(87) JP2019000001
(21) EP21155277.3	19.10.2017	09.07.2020
(47) 06.12.2023	(22) 28.03.2017	(22) 01.01.2019
(22) 04.02.2021	(54) CONTROL SYSTEMS AND METHODS	(54) MANNED AIRCRAFT
(54) A PROPULSION CONTROL	(73) BAE Systems PLC	(73) Aeronext Inc.
ARRANGEMENT FOR A MARINE	(72) DEE, Justin, Mark	(72) SUZUKI Yoichi
VESSEL	BEAN, Jason, Howard	(51) B64C 27/54
(73) Volvo Penta Corporation	(31) 201606074	B64C 27/41
(72) WINGREN, Jon	(32) 11.04.2016	B64C 27/35
(51) B63H 23/30	(33) United Kingdom	(11) EP4001107
B63H 5/125	(51) B64C 25/20	(21) EP20207437.3
B63H 21/20	B64C 25/26	(47) 06.12.2023
(11) EP4035991	(11) EP3744632	(22) 13.11.2020
(21) EP21153776.6	(21) EP20187236.3	(54) LIGHT-WEIGHT ELASTIC TEETER
(47) 06.12.2023	(47) 06.12.2023	BEARING FOR A ROTOR AND
(22) 27.01.2021	(22) 27.07.2017	AIRCRAFT HAVING SUCH BEARING
(54) MARINE DRIVE UNIT AND MARINE	(54) ELECTRICALLY POWERED	(73) Volocopter GmbH
VESSEL	DOWNLOCK ACTUATION SYSTEM	(72) Howes, Jonathan Sebastian
(73) Volvo Penta Corporation	(73) Goodrich Corporation	Schäferlein, Ulrich
(72) ARVIDSSON, Lennart	(72) DITZLER, Adam J.	(51) B64C 29/00
(51) B64C 11/32	(31) 201615224096	B64C 27/28
B64C 11/30	(32) 29.07.2016	B64C 27/52
B64C 11/00	(33) United States of America	B63H 5/125
B64C 27/20	(51) B64C 27/08	B64C 11/00
B64C 27/32	H02J 7/00	B64D 35/02
B64C 27/52	H02J 1/08	B64D 27/24
B64C 29/00	B60L 50/60	(11) EP3954608
(11) EP3819208	B64C 29/00	(21) EP21188148.7
(21) EP20200522.9	B64D 27/24	(47) 06.12.2023
(47) 06.12.2023	(11) EP4049930	(22) 28.07.2021
(22) 07.10.2020	(21) EP21400005.1	(54) SELF-ORIENTING PODS
	(47) 06.12.2023	(73) Hamilton Sundstrand Corporation

(72) SPIERLING, Todd	F41A 27/18	(47) 06.12.2023
(31) 202063057702 P	F41A 27/10	(22) 21.05.2020
(32) 28.07.2020	F41A 23/20	(54) AIRCRAFT WITH CREW QUARTERS
(33) United States of America	F41A 27/28	(73) Bombardier Inc.
(51) B64C 29/00	(11) EP3838754	(72) GALIN, Alexandre
B64C 39/02	(21) EP21156291.3	FERNELEY, John
B64D 13/00	(47) 06.12.2023	AHN, Thomas
B64D 33/08	(22) 20.07.2015	BANERJEE, Siddhartho Konstantin
B64D 47/00	(54) CONFIGURABLE WEAPON STATION	(31) 201962949674 P
B64U 10/13	HAVING UNDER ARMOR RELOAD	201962850632 P
B64U 30/10	(73) Moog Inc.	(32) 18.12.2019
B64U 30/20	(72) Lung, Kevin	21.05.2019
B64U 50/13	Mueller, Frank	(33) United States of America
B64U 50/19	Rhodes, David	United States of America
B64D 13/06	(31) 201514802748	(51) B64D 11/00
(11) EP3950496	201414337422	B64D 11/06
(21) EP21190123.6	(32) 17.07.2015	(11) EP3747769
(47) 06.12.2023	22.07.2014	(21) EP20178339.6
(22) 06.08.2021	(33) United States of America	(47) 06.12.2023
(54) VERTICAL TAKEOFF AND LANDING	United States of America	(22) 04.06.2020
UNMANNED AERIAL VEHICLE WITH A	(51) B64D 7/02	(54) CONSOLIDATED ELECTRONICS
COOLING SYSTEM	F41A 23/06	PACKAGES FOR STAGGERED
(73) Shanghai Autoflight Co., Ltd.	F41A 23/24	AIRCRAFT SEATS
(72) TIAN, Yu	F41A 9/34	(73) B/E Aerospace, Inc.
(31) 202022452410 U	F41A 9/79	(72) DOWTY, Mark B.
202021631693 U	F41A 27/18	(31) 202016891919
(32) 29.10.2020	F41A 27/10	201962857655 P
07.08.2020	F41A 23/20	(32) 03.06.2020
(33) China	F41A 27/28	05.06.2019
China	(11) EP3838755	(33) United States of America
(51) B64C 29/02	(21) EP21156558.5	United States of America
(11) EP3768592	(47) 06.12.2023	(51) B64D 17/30
(21) EP19709082.2	(22) 20.07.2015	B64D 17/40
(47) 06.12.2023	(54) CONFIGURABLE WEAPON STATION	(11) EP3495270
(87) FI2019050134	HAVING UNDER ARMOR RELOAD	(21) EP18211738.2
26.09.2019	(73) Moog Inc.	(47) 06.12.2023
(22) 20.02.2019	(72) Lung, Kevin	(22) 01.10.2012
(54) A STRUCTURE CONSTRUCTION	Mueller, Frank	(54) PARACHUTE HARNESS CONTAINER
FOR AN AIRCRAFT AND AIRCRAFT	Rhodes, David	WITH BIO-CONTOURED LOAD
COMPRISING THE STRUCTURE	(31) 201514802748	DISTRIBUTING VEST
CONSTRUCTION	201414337422	(73) Airborne Systems North America of NJ
(73) Lentola Logistics Oy	(32) 17.07.2015	Inc.
(72) HOHENTHAL, Markus	22.07.2014	(72) Copenhaver, Randolph Lee
(31) 20185256	(33) United States of America	(31) 201161541555 P
(32) 20.03.2018	United States of America	(32) 30.09.2011
(33) Finland	(51) B64D 11/00	(33) United States of America
(51) B64D 1/02	(11) EP3797072	(51) B64D 27/24
B64D 1/00	(21) EP19729628.8	B64D 31/12
F41H 11/00	(47) 06.12.2023	B64C 11/00
F41H 11/02	(87) EP2019063218	B64D 35/08
F41F 7/00	26.12.2019	H02P 5/50
(11) EP3837170	(22) 22.05.2019	H02P 5/747
(21) EP18930287.0	(54) WATER CART AND CONNECTION	(11) EP4072944
(47) 06.12.2023	STATION THEREFOR FOR GALLEY	(21) EP20842719.5
(87) SE2018050823	(73) Siemens Mobility GmbH	(47) 06.12.2023
20.02.2020	(72) FROESE, Jürgen	(87) FR2020052361
(22) 14.08.2018	KEMMERLING, Frank	17.06.2021
(54) PAYLOAD LAUNCHING	KOHNEN, Heinrich	(22) 09.12.2020
ARRANGEMENT AND A METHOD FOR	NEUMANN, Birgit	(54) SYSTEM AND METHOD FOR
LAUNCHING A PAYLOAD	SILBERMANN, Petra	BALANCING AT LEAST ONE
(73) SAAB AB	(31) 102018210022	PARAMETER TO BE BALANCED OF AN
(72) BYSTRÖM, Gunnar	(32) 20.06.2018	ELECTRIC MOTOR OF A PROPULSION
GUSTAFSSON, Fredrik	(33) Germany	SYSTEM
(51) B64D 7/02	(51) B64D 11/00	(73) Safran Helicopter Engines
F41A 23/06	B64D 11/04	(72) LEMAY, David
F41A 23/24	B64D 11/06	MARIN, Jean-Philippe Jacques
F41A 9/34	(11) EP4039596	(31) 1913963
F41A 9/79	(21) EP22160333.5	(32) 09.12.2019

(33) France	B64C 3/18	(11) EP3736219
(51) B64D 35/08	(11) EP3904219	(21) EP20177476.7
B64C 27/12	(21) EP21170753.4	(47) 06.12.2023
B64D 27/02	(47) 06.12.2023	(22) 05.10.2018
B64U 50/19	(22) 27.04.2021	(54) APPARATUS FOR FOLDING OUT, CORRESPONDING METHOD AND SYSTEM
B64U 50/11	(54) AUTOMATED CLAMP	(73) GRONINGER & CO. GMBH
B64D 27/24	(73) Airbus Operations Limited	(72) Franke, Bernd
F16H 1/22	(72) Jackson, Anthony	Veile, Josef
(11) EP4095043	Redman, Michael	(31) 102017123387
(21) EP22174631.6	Cantle, David	102017123298
(47) 06.12.2023	Foster, Matthew	(32) 09.10.2017
(22) 20.05.2022	(31) 202006394	06.10.2017
(54) MODULAR POWER PLANT FOR A ROTORCRAFT AND ASSOCIATED ROTORCRAFT	(32) 30.04.2020	(33) Germany
(73) Airbus Helicopters	(33) United Kingdom	Germany
(72) FAGES, Douchane	(51) B64U 101/00	(51) B65D 3/00
(31) 2105605	B64C 39/02	B65D 41/04
(32) 28.05.2021	G05D 1/00	B65D 43/06
(33) France	(11) EP3659329	B65D 43/08
(51) B64D 47/02	(21) EP18871349.9	(11) EP4008643
B64B 1/00	(47) 06.12.2023	(21) EP21817785.5
B64B 1/50	(87) KR2018009022	(47) 06.12.2023
B64C 39/02	02.05.2019	(87) JP2021021201
B64D 27/24	(22) 08.08.2018	09.12.2021
B64F 3/02	(54) ELECTRONIC DEVICE AND CONTROL METHOD THEREOF	(22) 03.06.2021
H04W 88/08	(73) Samsung Electronics Co., Ltd.	(54) LID BODY
(11) EP3825235	(72) LEE, Yong-woo	(73) KY7 Inc.
(21) EP19843911.9	(31) 20170139271	(72) TAKANO, Akira
(47) 06.12.2023	(32) 25.10.2017	(31) 2021093197
(87) JP2019029852	(33) Korea (Republic)	2021074669
06.02.2020	(51) B65B 11/10	2021040879
(22) 30.07.2019	B65B 51/02	2020159188
(54) SYSTEM, CONTROL DEVICE, AND LIGHT AIRCRAFT	(11) EP4007722	2020139288
(73) Hapsmobile Inc.	(21) EP20743984.5	2020097339
(72) TAJIKA Akihiko	(47) 06.12.2023	PCT/JP2020/048100
KIMURA Kiyoshi	(87) EP2020069969	(32) 02.06.2021
MOTOHISA Takashi	04.02.2021	27.04.2021
YAMAMOTO Atsushi	(22) 15.07.2020	14.03.2021
(31) 2018145736	(54) DEVICE AND METHOD FOR FORMING BUNDLES OF INDIVIDUAL PACKAGES	23.09.2020
(32) 02.08.2018	(73) KHS GmbH	20.08.2020
(33) Japan	(72) COX, Bernd	04.06.2020
(51) B64F 1/22	JÖRISSEN, Michael	23.12.2020
B64F 5/40	(31) 102019120789	(33) Japan
B66F 3/08	(32) 01.08.2019	Japan
B66F 3/36	(33) Germany	Japan
B66F 3/38	(51) B65B 21/24	Japan
B66F 3/46	B65B 21/12	Japan
B66F 13/00	B65B 35/16	Japan
(11) EP3816053	B65B 35/36	World Intellectual Property Office (WIPO)
(21) EP20203450.0	B65B 43/46	(51) B65D 5/22
(47) 06.12.2023	B65B 43/54	B65D 6/04
(22) 22.10.2020	B65B 45/00	B65D 5/42
(54) JACK PAD DEVICE AND METHOD FOR JACKING AN AIRCRAFT	B65B 7/20	B65D 5/24
(73) Gulfstream Aerospace Corporation	B65B 21/18	(11) EP3936449
(72) BAGO, Timothy	B65B 5/06	(21) EP20913774.4
PERDUE, James	B65B 41/04	(47) 06.12.2023
LEONARD, Patrick	(11) EP4054938	(87) RU2020000676
JONES, Jason	(21) EP19801836.8	22.07.2021
(31) 201916667768	(47) 06.12.2023	(22) 10.12.2020
(32) 29.10.2019	(87) EP2019080680	(54) CARDBOARD PACKAGING AND METHOD OF ASSEMBLING SAME
(33) United States of America	14.05.2021	(73) Limited Liability Company "Dzidipro"
(51) B64F 5/10	(22) 08.11.2019	(72) SAVELEV, Dmitrii Viktorovich
B21J 15/14	(54) CARTON LOADING DEVICE COMPRISING A GRIPPER ASSEMBLY	(31) 2020101623
B23B 47/28	(73) Yaskawa Nordic AB	(32) 16.01.2020
B21J 15/42	(72) TRYGG, Lars	(33) Russian Federation
	(51) B65B 69/00	(51) B65D 5/72

B65D 5/54	(54) TRANSPORT CONTAINER AND ASSEMBLY THEREOF	(21) EP21201942.6
(11) EP3844074	(73) Conteyor International NV	(47) 06.12.2023
(21) EP18931569.0	(72) HENRYK, Wojtyla	(22) 11.10.2021
(47) 06.12.2023	(31) 202005078	(54) SUPPORT FOR A WORK OF ART
(87) US2018048699	(32) 10.02.2020	(73) Turtle B.V.
05.03.2020	(33) Belgium	(72) KRACHT, Kerstin Annette
(22) 30.08.2018	(51) B65D 30/02	BOELSMA, Mirna
(54) RECLOSABLE CARTON AND BLANK THEREFOR	B65D 30/16	BOELSMA, Menno
(73) Kimberly-Clark Worldwide, Inc.	B65D 81/24	VERHOEFF, Geert Cornelis Pieter
(72) HOKANSON, Brandon, Mark	B65D 81/34	(31) 2026755
KALLENBACH, Sydney, Leigh	B65D 75/00	(32) 23.10.2020
BURNHAM, Timothy, Scott	B65D 75/20	(33) Netherlands
(51) B65D 6/16	(11) EP3640153	(51) B65D 83/04
B65D 6/18	(21) EP18818554.0	B65D 51/24
B65D 6/22	(47) 06.12.2023	(11) EP3752436
(11) EP3257772	(87) JP2018022649	(21) EP19705698.9
(21) EP16737091.5	20.12.2018	(47) 06.12.2023
(47) 06.12.2023	(22) 13.06.2018	(87) AT2019050002
(87) CN2016071066	(54) PACKAGING CONTAINER AND METHOD FOR MANUFACTURING SAME	22.08.2019
21.07.2016	(73) Toppa Printing Co., Ltd.	(22) 10.01.2019
(22) 15.01.2016	(72) KIKUKAWA Junji	(54) PILL DISPENSER
(54) FOLDING BOX	HOTTA Koichi	(73) PEZ AG
(73) Shanghai Hongyan Returnable Transit Packagings Co., Ltd.	WATANABE Megumi	(72) MOHÁCSI, Norbert
(72) SU, Yongping	(31) 2017116293	KREISEL, Hilmar
(31) 201510023594	(32) 13.06.2017	(31) 501372018
(32) 16.01.2015	(33) Japan	(32) 14.02.2018
(33) China	(51) B65D 41/36	(33) Austria
(51) B65D 8/00	B65D 41/36	(51) B65D 85/10
(11) EP3870515	B65D 55/16	B65B 19/22
(21) EP19877425.9	B65D 5/74	B65B 61/02
(47) 06.12.2023	(11) EP4108590	(11) EP4107079
(87) SE2019051064	(21) EP22179258.3	(21) EP21710369.6
30.04.2020	(47) 06.12.2023	(47) 06.12.2023
(22) 28.10.2019	(22) 15.06.2022	(87) US2021017976
(54) A COMPOSITE CONTAINER WITH SEPARABLE TOP, A BLANK AND METHODS FOR SEPARATING A RIM FROM A TUBULAR BODY	(54) BAYONET CLOSURE	26.08.2021
(73) GPI Systems AB	(73) BERICAP Holding GmbH	(22) 12.02.2021
(72) SUNNING, Eva	(31) 102021116173	(54) SYSTEM AND METHOD FOR PRINTING ON A PACKAGE
(31) 1851334	(32) 22.06.2021	(73) Santa Fe Natural Tobacco Company, Inc.
(32) 26.10.2018	(33) Germany	(72) BASS, Steven
(33) Sweden	(51) B65D 43/16	(31) 202016793454
(51) B65D 21/02	(11) EP3599186	(32) 18.02.2020
(11) EP3976483	(21) EP18184884.7	(33) United States of America
(21) EP20726249.4	(47) 06.12.2023	(51) B65D 85/804
(47) 06.12.2023	(22) 23.07.2018	(11) EP4148000
(87) US2020025458	(54) CONTAINER WITH CAP AND LOCATOR AID	(21) EP21382829.6
03.12.2020	(73) Airnov, Inc.	(47) 06.12.2023
(22) 27.03.2020	(72) BOIS, Dominique	(22) 14.09.2021
(54) UNIVERSAL HANDLE ATTACHMENT TOOL FOR MANIPULATING DIFFERENT CONTAINERS	(51) B65D 71/58	(54) A CAPSULE FOR CONTAINING BEVERAGE INGREDIENTS WITH A SEALING MEMBER
(73) Raytheon Company	(11) EP3826937	(73) Albmarserg Inversiones, SL
(72) GRELLA, Joseph E.	(21) EP19842144.8	(72) VILARDELL PARÉS, Albert
(31) 201916425823	(47) 06.12.2023	(51) B65D 88/12
(32) 29.05.2019	(87) US2019043178	B29C 70/22
(33) United States of America	30.01.2020	B29B 11/16
(51) B65D 25/00	(22) 24.07.2019	B29C 70/84
B65D 37/00	(54) CARRIER FOR CONTAINERS	B29C 70/02
(11) EP4103484	(73) Graphic Packaging International, LLC	B29C 70/14
(21) EP21703299.4	(72) SMALLEY, Brian	B29C 70/12
(47) 06.12.2023	(31) 201862703031 P	B29C 43/34
(87) EP2021053152	(32) 25.07.2018	B29C 43/18
19.08.2021	(33) United States of America	B29C 70/08
(22) 10.02.2021	(51) B65D 81/05	(11) EP3556686
	B65D 81/07	(21) EP17881040.4
	B65D 85/30	(47) 06.12.2023
	(11) EP3988472	(87) JP2017037866
		21.06.2018

(22) 19.10.2017	(22) 07.07.2017	(32) 22.08.2019
(54) COMPOSITE MATERIAL FORMING METHOD, AND COMPOSITE MATERIAL	(54) A CASSETTE FOR THE COLLECTION AND STORAGE OF WASTE	(33) Switzerland
(73) Mitsubishi Heavy Industries, Ltd.	(73) Angelcare USA, LLC	(51) B65G 15/22
(72) KAMO, Sota	(72) CHENVAINU, Alexander	B65G 47/244
YOSHINO, Katsuya	PARKER, Dylan	B65G 47/31
ISHIDA, Jun	(31) 201662359734 P	(11) EP3287396
(31) 2016242509	(32) 08.07.2016	(21) EP16185726.3
(32) 14.12.2016	(33) United States of America	(47) 06.12.2023
(33) Japan	(51) B65G 1/00	(22) 25.08.2016
(51) B65D 90/08	E04G 1/24	(54) CONVEYOR SYSTEM WITH SEGMENTS
C03B 5/42	H01L 21/677	(73) Körber Supply Chain Logistics GmbH
C03B 18/16	B65G 1/04	(72) VITALINI, Dr. Michele
(11) EP3663234	E04G 1/15	(51) B65G 21/12
(21) EP18840611.0	E04G 5/14	B65G 41/00
(47) 06.12.2023	(11) EP3587307	(11) EP3670396
(87) JP2018028485	(21) EP18756553.6	(21) EP19215465.6
07.02.2019	(47) 06.12.2023	(47) 06.12.2023
(22) 30.07.2018	(87) JP2018002456	(22) 12.12.2019
(54) CONTAINER FOR HOLDING LIQUID AND METHODS THEREWITH	30.08.2018	(54) CONTINUOUS CONVEYOR FOR CONVEYING OBJECTS AND OBJECT CONVEYOR HALL WITH A CONTINUOUS CONVEYOR
(73) AGC Inc.	(22) 26.01.2018	(73) Deutsche Post AG
(72) NAKANO Masanori	(54) STOCKER, AND METHOD FOR FORMING WORKING SCAFFOLDING	TRANSNORM SYSTEM GmbH
TSUDA Masahiro	(73) Murata Machinery, Ltd.	(72) Hartmann, Bernd
(31) 2017150857	(72) KUSAMA, Yu	Ventz, Kai-Ulrich
(32) 03.08.2017	(31) 2017032048	Schällig, René
(33) Japan	(32) 23.02.2017	Mönster, Jana
(51) B65D 90/10	(33) Japan	(31) 102018133052
B65D 90/58	(51) B65G 1/04	(32) 20.12.2018
(11) EP3735385	(11) EP3650374	(33) Germany
(21) EP19749360.4	(21) EP19203903.0	(51) B65G 47/08
(47) 06.12.2023	(47) 06.12.2023	B65B 5/06
(87) EP2019071303	(22) 17.10.2019	B65B 5/10
13.08.2020	(54) STORAGE SYSTEM FOR STORING CONTAINERS	B65B 35/54
(22) 08.08.2019	(73) Gebhardt Fördertechnik GmbH	B65G 47/57
(54) DOME LID ASSEMBLY, TANK, TANK VEHICLE, METHOD OF PREVENTING THE OPENING OF A DOME LID	(72) Gebhardt, Marco	(11) EP3870512
(73) IBAU Hamburg Ingenieurgesellschaft	Eder, Jörg	(21) EP19794963.9
Industriebau mbH	(31) 102018218906	(47) 06.12.2023
(72) HARLOFF, Oliver	(32) 06.11.2018	(87) EP2019078938
(31) 19155517	(33) Germany	30.04.2020
(32) 05.02.2019	(51) B65G 1/137	(22) 23.10.2019
(33) European Patent Office (EPO)	G06Q 10/08	(54) METHOD AND DEVICE FOR FILLING A CONTAINER WITH PRODUCTS
(51) B65F 1/06	(11) EP3634888	(73) Focke & Co. (GmbH & Co. KG)
B65F 1/10	(21) EP18812644.5	(72) SCHMIDT, Dennis
B65F 1/14	(47) 06.12.2023	PRAHM, Andreas
(11) EP2892830	(87) IB2018053863	NEUFELD, Andreas
(21) EP13759880.1	13.12.2018	SACHS, Frank
(47) 06.12.2023	(22) 30.05.2018	(31) 102018008476
(87) NL2013050632	(54) MOBILE LIGHTED PICK OR PUT CART AND METHOD OF USE	(32) 26.10.2018
06.03.2014	(73) Dematic Corp.	(33) Germany
(22) 02.09.2013	(72) HOFFMAN, Stephen	(51) B65G 47/46
(54) WASTE DISPOSAL DEVICE, PARTICULARLY FOR DIAPERS	(31) 201762516429 P	B65G 21/20
(73) CTP Innovations B.V.	(32) 07.06.2017	B65G 47/68
(72) GARLAND, Thomas Allan	(33) United States of America	B65G 47/94
(31) 2009408	(51) B65G 9/00	(11) EP3733571
(32) 03.09.2012	B65G 17/48	(21) EP19794029.9
(33) Netherlands	(11) EP3782936	(47) 06.12.2023
(51) B65F 1/06	(21) EP20190750.8	(87) JP2019010355
B65F 1/16	(47) 06.12.2023	31.10.2019
(11) EP3481747	(22) 12.08.2020	(22) 13.03.2019
(21) EP17739838.5	(54) TRANSPORT BAG FOR OVERHEAD CONVEYOR SYSTEM	(54) CONVEYING AND SORTING APPARATUS
(47) 06.12.2023	(73) FERAG AG	(73) Daifuku Co., Ltd.
(87) US2017041039	(72) Fenile, Roberto	(72) FUJIO, Yoshihiko
11.01.2018	Ruge, Martin	(31) 2018086870
	(31) 10522019	

(32) 27.04.2018	CORRESPONDING PAPER SHEET	(73) KONE Corporation
(33) Japan	PROCESSING DEVICE	(72) Saarela, Sami
(51) B65G 54/02	(73) Japan Cash Machine Co., Ltd.	(51) B66B 1/46
B60L 13/00	(72) IZAWA Shinya	(11) EP3438034
B60L 13/03	ISHIHARA Yuki	(21) EP18186621.1
B65G 47/91	(31) 2018004871	(47) 06.12.2023
B60L 5/00	(32) 16.01.2018	(22) 31.07.2018
(11) EP3941861	(33) Japan	(54) USER DEVICE INCLUDING
(21) EP20710025.6	(51) B65H 31/30	SECONDARY-TOUCH ELEVATOR
(47) 06.12.2023	B65H 1/30	SERVICE REQUEST INTERFACE
(87) IB2020052276	B65B 65/00	(73) Otis Elevator Company
24.09.2020	B65B 43/46	Fuzz Productions
(22) 13.03.2020	B65B 43/12	(72) SIMICK, Paul A
(54) CONVEYING APPARATUS	B65G 57/32	BALDI, Emily
(73) CFT S.p.A.	B65G 1/04	SIEKA, Paul
(72) CATELLI, Roberto	(11) EP3816079	ANDERSON, Matt
EMANUELE, Troni	(21) EP20202002.0	SUKOVICH, Chris
(31) 201900003895	(47) 06.12.2023	WEIXLMANN, Staci
(32) 18.03.2019	(22) 15.10.2020	BROTHERS, Sheryl
(33) Italy	(54) BAG SUPPLY SYSTEM	DANIELS, Harrison
(51) B65G 57/10	(73) Toyo Jidoki Co., Ltd.	DUBOIS, Kelly Martin
(11) EP3858769	(72) MORINO, Manabu	(31) 201715665124
(21) EP21153587.7	FUKUNAGA, Kazuo	(32) 31.07.2017
(47) 06.12.2023	KAJIHARA, Shota	(33) United States of America
(22) 26.01.2021	UTSUNOMIYA, Takayuki	(51) B66B 5/00
(54) UNIT AND METHOD FOR MOVING	(31) 2019198564	B66B 5/02
AND ACCUMULATING SACHETS	(32) 31.10.2019	(11) EP3643667
(73) Universal Pack S.R.L.	(33) Japan	(21) EP19199041.5
(72) Donati, Pietro	(51) B65H 75/44	(47) 06.12.2023
(31) 202000001762	(11) EP3820802	(22) 23.09.2019
(32) 30.01.2020	(21) EP19834511.8	(54) WATER DETECTION IN ELEVATOR PIT
(33) Italy	(47) 06.12.2023	USING PIT SENSORS
(51) B65G 59/06	(87) US2019041703	(73) Otis Elevator Company
(11) EP3812321	16.01.2020	(72) GUPTA, Ankit Anand
(21) EP20075012.3	(22) 12.07.2019	OGGIANU, Stella M.
(47) 06.12.2023	(54) HOSE REEL	SELVARAJ, Dinesh
(22) 19.10.2020	(73) Reelcraft Industries, Inc.	(31) 201811035568
(54) APPARATUS FOR THE DESTACKING	(72) BRAUN, Joshua, Thomas	(32) 21.09.2018
OF A SLICED BREAD INTO SEPARATE	(31) 201962831590 P	(33) India
SLICES	201862697877 P	(51) B66B 5/18
(73) Dero Groep Joure BV	(32) 09.04.2019	B66B 17/34
(72) Rusticus, Robert Christiaan	13.07.2018	(11) EP3628628
(31) 1043435	(33) United States of America	(21) EP19189321.3
(32) 21.10.2019	United States of America	(47) 06.12.2023
(33) Netherlands	(51) B66B 1/24	(22) 31.07.2019
(51) B65H 23/038	B66B 1/46	(54) ELECTROHYDRAULIC DAMPER FOR
(11) EP4029817	(11) EP3878787	ELEVATOR SYSTEM
(21) EP21151274.4	(21) EP20215787.1	(73) Otis Elevator Company
(47) 06.12.2023	(47) 06.12.2023	(72) WITCZAK, Tadesuz Pawel Witczak
(22) 13.01.2021	(22) 18.12.2020	JEDRYCZKA, Cezary
(54) ROTARY FRAME STRUCTURE FOR	(54) MANAGING ELEVATOR CALL	SZELAG, Woljciech
WEB POSITION CONTROL DEVICES	ASSIGNMENTS IN RESPONSE TO	MYSZKOWSKI, Adam Marian
(73) BST GmbH	ELEVATOR DOOR REVERSALS	(31) 201816050307
(72) Prims, Ulrich	(73) Otis Elevator Company	(32) 31.07.2018
Lorenz, Robin	(72) Archibald, Daniel P.	(33) United States of America
Schumacher, Jürgen	Ravikiran Singaraju	(51) B66B 7/06
(51) B65H 29/51	(31) 202011010995	(11) EP3426586
B65H 5/28	(32) 14.03.2020	(21) EP17711541.7
(11) EP3741719	(33) India	(47) 06.12.2023
(21) EP18901765.0	(51) B66B 1/30	(87) US2017021085
(47) 06.12.2023	(11) EP3447016	14.09.2017
(87) JP2018037512	(21) EP17187617.0	(22) 07.03.2017
25.07.2019	(47) 06.12.2023	(54) REINFORCED FABRIC ELEVATOR
(22) 09.10.2018	(22) 24.08.2017	BELT WITH IMPROVED INTERNAL
(54) PAPER SHEET ACCUMULATION	(54) POWER SYSTEM FOR VERTICAL	WEAR RESISTANCE
DEVICE COMPRISING A PAPER	TRANSPORTATION, METHOD AND	(73) Otis Elevator Company
SHEET ACCUMULATION DRUM, AND	VERTICAL TRANSPORTATION	(72) EASTMAN, Scott Alan
	ARRANGEMENTS	MOSHER, Daniel A.

ZHAO, Wenping	(47) 06.12.2023	(73) Battswap, Inc.
WESSON, John P.	(22) 20.08.2019	(72) KORAB, Antonin
GUILANI, Brad	(54) FRAMELESS ELEVATOR	JANKU, Radek
(31) 201662305667 P	COUNTERWEIGHT	(31) 19155828
(32) 09.03.2016	(73) Otis Elevator Company	(32) 06.02.2019
(33) United States of America	(72) SHEPHERD, Kevin	(33) European Patent Office (EPO)
(51) B66B 9/04	VAN LIEU, Pieter	(51) B66F 9/06
B66B 11/04	(31) 201816105350	B66F 9/075
(11) EP4174011	(32) 20.08.2018	(11) EP3812340
(21) EP21205631.1	(33) United States of America	(21) EP20202020.2
(47) 06.12.2023	(51) B66B 23/10	(47) 06.12.2023
(22) 29.10.2021	(11) EP3873842	(22) 15.10.2020
(54) ELEVATOR TRANSPORT DEVICE FOR	(21) EP19787314.4	(54) INDUSTRIAL TRUCK EQUIPPED
PERSONS AND/OR OBJECTS AND A	(47) 06.12.2023	FOR DRIVERLESS AUTONOMOUS
METHOD FOR CONVEYING PERSONS	(87) EP2019078829	OPERATION
AND/OR OBJECTS	07.05.2020	(73) Robert Bosch GmbH
(73) Waterairlift GmbH	(22) 23.10.2019	(72) Roethling, Frank
(72) Baisch, Wolfram G.	(54) METHOD FOR MOUNTING A	Brodth, Markus
(51) B66B 11/00	CONVEYOR CHAIN FOR A PALLET	Schild, Johannes
(11) EP3176120	BELT OF A WALKWAY	(31) 102019216181
(21) EP16193541.6	(73) INVENTIO AG	(32) 21.10.2019
(47) 06.12.2023	(72) PRAXMARER, Dominik	(33) Germany
(22) 12.10.2016	KLEEWEIFN, Gerhard	(51) B66F 9/065
(54) TRACTION SHEAVE ELEVATOR IN	STREIBIG, Kurt	B66F 9/22
BACKPACK DESIGN	(31) 18203448	A01D 87/12
(73) INVENTIO AG	(32) 30.10.2018	A01B 63/108
(72) THOMAS, Heiko	(33) European Patent Office (EPO)	A01D 87/00
BURKHARD, Falk	(51) B66C 13/16	(11) EP4029824
WEIGEL, Michael	B66C 15/00	(21) EP21202563.9
THON, Steffen	B66C 17/00	(47) 06.12.2023
(31) 102015117346	G01G 19/14	(22) 14.10.2021
(32) 12.10.2015	G01L 1/00	(54) METHOD FOR PLACING A BALE
(33) Germany	G01L 3/00	OF HARVESTED MATERIAL ON A
(51) B66B 11/02	H02P 23/14	SURFACE
(11) EP3943432	(11) EP3426592	(73) CLAAS Tractor SAS
(21) EP20305845.8	(21) EP17763723.8	(72) Reinhardt, Alexander
(47) 06.12.2023	(47) 06.12.2023	Schulte-Uebbing, Markus
(22) 23.07.2020	(87) US2017018033	(31) 102021100984
(54) ELEVATOR CAR WITH FOLDABLE	14.09.2017	(32) 19.01.2021
WORKING PLATFORM	(22) 16.02.2017	(33) Germany
(73) Otis Elevator Company	(54) METHOD OF DETECTING A	(51) B66F 9/075
(72) Marechal, Romain	MAGNITUDE OF A LOAD APPLIED TO	H01M 10/42
Angoulevant, Joachim	A HOISTING MOTOR IN A MATERIAL	H01M 50/20
Montigny, Guillaume	HANDLING SYSTEM, METHOD OF	(11) EP3800693
Beauchaud, Frédéric	DETERMINING A MAGNITUDE OF	(21) EP19306278.3
Cazé, Arnaud	A LOAD APPLIED TO A MATERIAL	(47) 06.12.2023
Convard, Emmanuel	HANDLING SYSTEM WHEN THE LOAD	(22) 03.10.2019
Quiles Manzanos, Juan	IS LIFTED USING A PLURALITY OF	(54) DEVICE FOR RECEIVING A FORKLIFT
Jimenez-Gonzalez, Agustin	HOISTING MOTORS AND MOTOR	TRUCK BATTERY
Fauconnet, Aurélien	DRIVE	(73) Toyota Material Handling France
Rigot, Michael	(73) Magnetek Inc.	(72) CALLEJON, André
(51) B66B 13/14	(72) VERHEYEN, Kurtis	HOAREAU, David
B66B 5/00	KURECK, Aaron	(51) B66F 9/22
(11) EP3750840	(31) 201615066061	E02F 9/22
(21) EP20165503.2	(32) 10.03.2016	B66F 9/24
(47) 06.12.2023	(33) United States of America	(11) EP3473585
(22) 25.03.2020	(51) B66F 7/06	(21) EP16905490.5
(54) DOOR STATUS DETECTION VIA	H01M 50/256	(47) 06.12.2023
SENSOR FUSION	H01M 50/20	(87) JP2016067998
(73) Otis Elevator Company	B60S 5/06	21.12.2017
(72) PAHLKE, Derk Oscar	B60L 53/80	(22) 16.06.2016
(31) 201916410021	(11) EP3921881	(54) INDUSTRIAL VEHICLE
(32) 13.05.2019	(21) EP20701661.9	(73) Mitsubishi Logisnext Co., Ltd.
(33) United States of America	(47) 06.12.2023	(72) KIMURA, Harukazu
(51) B66B 17/12	(87) EP2020052372	(51) B67B 3/20
(11) EP3613697	13.08.2020	B67B 7/18
(21) EP19192709.4	(22) 30.01.2020	B67B 3/26
	(54) BATTERY BLOCK MOVING ASSEMBLY	

G01N 35/04	(21) EP19786529.8	(22) 26.07.2019
(11) EP3473586	(47) 06.12.2023	(54) CARBON NANOTUBES, METHOD OF MANUFACTURING SAME, AND POSITIVE ELECTRODE FOR PRIMARY BATTERY COMPRISING SAME
(21) EP18201897.8	(87) EP2019077154	
(47) 06.12.2023	23.04.2020	
(22) 05.08.2013	(22) 08.10.2019	
(54) CAPPING AND DECAPPING GRIPPER	(54) METHOD FOR THE PREPARATION OF SYNTHESIS GAS	(73) LG CHEM, LTD.
(73) Azenta US, Inc.	(73) Topsoe A/S	(72) KANG, Kyung Yeon
(72) Christensen, Stig	(72) MORTENSEN, Peter Mølgaard	KANG, Hyun Joon
Hovendahl, Lars	(31) PA201800726	LEE, Ki Soo
Gabs Kaagaard Nielsen, Michael	(32) 15.10.2018	JEONG, Soon Ki
(31) PA201200492	(33) Denmark	(31) 20180088010
(32) 07.08.2012	(51) C01B 21/076	(32) 27.07.2018
(33) Denmark	(11) EP3950584	(33) Korea (Republic)
(51) B67D 7/32	(21) EP20777351.6	(51) C01G 53/00
B67D 7/08	(47) 06.12.2023	H01M 4/525
B67D 7/14	(87) JP2020013527	H01M 4/04
B60K 15/03	01.10.2020	H01M 4/131
B60K 15/073	(22) 26.03.2020	H01M 4/36
G07F 13/02	(54) ZIRCONIUM NITRIDE POWDER COATED WITH ALUMINA AND METHOD FOR PRODUCING SAME	(11) EP4048637
B60S 5/02	(73) Mitsubishi Materials Electronic Chemicals Co., Ltd.	(21) EP20789179.7
B67D 7/34	(72) KAGEYAMA, Kensuke	(47) 06.12.2023
G08G 1/017	AIBA, Naoyuki	(87) EP2020079059
G06Q 20/40	(31) 2019062413	29.04.2021
(11) EP3505488	(32) 28.03.2019	(22) 15.10.2020
(21) EP17844048.3	(33) Japan	(54) ELECTRODE ACTIVE MATERIAL AND PROCESS FOR MANUFACTURING SAID ELECTRODE ACTIVE MATERIAL
(47) 06.12.2023	(51) C01B 32/05	(73) BASF SE
(87) UA2017000013	B82Y 20/00	(72) KIM, Young, Jin
01.03.2018	H01G 11/36	SIOSS, James, A
(22) 17.02.2017	H05B 3/14	HAAG, Jacob
(54) METHOD AND SYSTEM FOR ADAPTIVE MULTIFACTOR COMBINED IDENTIFICATION	H05B 3/24	VASSILARAS, Plousia
(73) Vasyliiev, Viktor Ivanovich	(11) EP3365279	LAMPERT, Jordan
Vasyliiev, levgen Viktorovich	(21) EP16858327.6	LONG, Brandon, Ray
(72) Vasyliiev, Viktor Ivanovich	(47) 06.12.2023	(31) 19204614
Vasyliiev, levgen Viktorovich	(87) US2016058190	(32) 22.10.2019
(31) 201608997 U	27.04.2017	(33) European Patent Office (EPO)
201608996 U	(22) 21.10.2016	(51) C02F 1/32
(32) 23.08.2016	(54) DIRECTED INFRARED RADIATOR ARTICLE	B01J 19/12
23.08.2016	(73) Nanocomp Technologies, Inc.	C02F 103/04
(33) Ukraine	(72) ANTOINETTE, Peter L.	(11) EP3585733
Ukraine	GAILUS, David	(21) EP18704993.7
(51) C01B 3/38	ZEIRA, Eitan	(47) 06.12.2023
C01B 3/48	(31) 201562245341 P	(87) EP2018054061
C01B 3/50	(32) 23.10.2015	30.08.2018
C01B 3/56	(33) United States of America	(22) 20.02.2018
(11) EP4126759	(51) C01B 32/158	(54) FLOW-THROUGH FLUID PURIFICATION DEVICE
(21) EP21711596.3	B01J 37/02	(73) Merck Patent GmbH
(47) 06.12.2023	B01J 37/08	(72) ROITEL, Pascal
(87) EP2021056859	B01J 23/648	OCTAVE, Jonathan
07.10.2021	B01J 23/652	(31) 17290026
(22) 17.03.2021	H01M 4/13	(32) 23.02.2017
(54) PROCESS AND PLANT FOR THE PRODUCTION OF SYNTHESIS GAS AND GENERATION OF PROCESS CONDENSATE	H01M 4/96	(33) European Patent Office (EPO)
(73) Topsoe A/S	C01B 32/162	(51) C02F 1/32
(72) CHRISTENSEN, Steffen Spangsberg	H01M 4/08	C02F 1/461
BANSAL, Nitesh	H01M 4/583	(11) EP2767513
(31) 202011014544	H01M 4/62	(21) EP12840325.0
20176035	B01J 21/18	(47) 06.12.2023
(32) 01.04.2020	B01J 23/887	(87) ES2012070707
22.05.2020	B01J 35/10	18.04.2013
(33) India	(11) EP3831773	(22) 15.10.2012
European Patent Office (EPO)	(21) EP19840341.2	(54) METHOD FOR PURIFYING WATER WITHOUT THE USE OF SALTS, AND WATER-PURIFICATION REACTOR
(51) C01B 3/38	(47) 06.12.2023	(73) I.D. Electroquimica, S.L.
C25B 1/00	(87) KR2019009300	(72) SANCHEZ CANO, Gaspar
(11) EP3867194	30.01.2020	PEREZ MALLOL, Jose, Ramon

CODINA RIPOLL, Guillermo	WESTPHALEN, Jasper	(73) Eurokera S.N.C.
(31) 201131648 P	PREUSSNER, Thomas	(72) VIANDIER, Romain
(32) 14.10.2011	WALTHER, Wiebke	LUAIS, Erwann
(33) Spain	(31) 102019134818	VILATO, Pablo
(51) C02F 1/40	102019103947	(31) 1873560
C02F 3/32	(32) 17.12.2019	(32) 20.12.2018
C02F 101/32	16.02.2019	(33) France
(11) EP3925933	(33) Germany	(51) C03C 17/34
(21) EP20180064.6	Germany	C23C 16/56
(47) 06.12.2023	(51) C03B 37/014	(11) EP3863981
(22) 15.06.2020	(11) EP3601175	(21) EP19787396.1
(54) PLANT AND METHOD FOR	(21) EP17714215.5	(47) 06.12.2023
TREATMENT OF WASTE WATER	(47) 06.12.2023	(87) GB2019052845
(73) Bauer Resources GmbH	(87) EP2017057385	16.04.2020
(72) Appiah, Daniel	04.10.2018	(22) 08.10.2019
Headley, Tom	(22) 29.03.2017	(54) PROCESS FOR PREPARING A
Polverini, Dario	(54) METHOD AND APPARATUS FOR	COATED GLASS SUBSTRATE
Prigent, Stephane	DRYING AND CONSOLIDATING A	(73) Pilkington Group Limited
Breuer, Roman	PREFORM FOR OPTICAL FIBRES	(72) RAISBECK, Deborah
(51) C03B 23/045	(73) Prysman S.p.A.	SKINNER, Paul Andrew
C03B 23/09	(72) GRIECO, Stefano	LEITL, Hans-Eckhard
(11) EP3590896	CARONNA, Valeria	GLYNN, Mark John
(21) EP19171165.4	SCHIAFFO, Antonio	RIMMER, David
(47) 06.12.2023	(51) C03B 37/04	SANDERSON, Kevin David
(22) 25.04.2019	(11) EP3526170	(31) 201816381
(54) GLASS CONTAINER WITH AN	(21) EP17794005.3	(32) 08.10.2018
IMPROVED BOTTOM GEOMETRY	(47) 06.12.2023	(33) United Kingdom
(73) SCHOTT Pharma AG & Co. KGaA	(87) FR2017052810	(51) C03C 27/06
(72) Langsdorf, Andreas	19.04.2018	E06B 3/663
Thomas, Peter	(22) 12.10.2017	E06B 3/66
Maurer, Florian	(54) METHOD FOR PRODUCING MINERAL	E06B 3/67
Kummer, Hanspeter	FIBRES	B32B 17/06
Mutlu, Fatih	(73) SAINT-GOBAIN ISOVER	B32B 17/10
(31) 18173310	(72) BROGNIEZ, Sébastien	(11) EP3438064
(32) 18.05.2018	GUERY, Guillaume	(21) EP17774275.6
(33) European Patent Office (EPO)	(31) 1659948	(47) 06.12.2023
(51) C03B 23/18	(32) 14.10.2016	(87) JP2017010144
B08B 5/02	(33) France	05.10.2017
B08B 15/04	(51) C03C 3/097	(22) 14.03.2017
C03B 23/09	C03C 3/11	(54) GLASS PANEL UNIT
C03B 33/06	C03C 10/00	(73) Panasonic Intellectual Property
C03B 23/043	(11) EP4059902	Management Co., Ltd.
C03B 23/057	(21) EP22162006.5	(72) ABE, Hiroyuki
(11) EP3502066	(47) 06.12.2023	URIU, Eiichi
(21) EP17841338.1	(22) 15.03.2022	HASEGAWA, Kazuya
(47) 06.12.2023	(54) GLASS CERAMIC HAVING	NONAKA, Masataka
(87) JP2017026714	SPECIFIC THERMAL EXPANSION	ISHIBASHI, Tasuku
22.02.2018	CHARACTERISTICS	(31) 2016072501
(22) 24.07.2017	(73) SCHOTT AG	(32) 31.03.2016
(54) GLASS TUBE PRODUCTION METHOD	(72) MITRA, Ina	(33) Japan
(73) Nippon Electric Glass Co., Ltd.	CLAUßEN, Olaf	(51) C04B 11/05
(72) SATO, Masahiko	KUNISCH, Clemens	C01B 17/50
(31) 2016159658	CARRÉ, Antoine	C01B 17/74
(32) 16.08.2016	(31) 102021134308	C01B 25/232
(33) Japan	102021106419	C01F 11/08
(51) C03B 29/02	(32) 22.12.2021	C01F 11/46
C03C 23/00	16.03.2021	C04B 7/04
(11) EP3924307	(33) Germany	C04B 11/00
(21) EP20705914.8	Germany	(11) EP4087816
(47) 06.12.2023	(51) C03C 17/30	(21) EP21700821.8
(87) EP2020053725	C09D 183/04	(47) 06.12.2023
20.08.2020	(11) EP3898542	(87) EP2021050032
(22) 13.02.2020	(21) EP19813030.4	15.07.2021
(54) METHOD FOR INCREASING THE	(47) 06.12.2023	(22) 05.01.2021
STRENGTH OF A GLASS SUBSTRATE	(87) EP2019083921	(54) INTEGRATED METHOD FOR
(73) Fraunhofer-Gesellschaft zur Förderung	25.06.2020	PRODUCING A BUILDING MATERIAL
der angewandten Forschung e.V.	(22) 06.12.2019	FROM PHOSPHOGYPSUM
(72) JUNGHÄHNEL, Manuela	(54) GLASS-CERAMIC ITEM	(73) thyssenkrupp Polysius GmbH

thyssenkrupp AG	17275043	C07C 33/03
(72) HOPPE, Andreas	(32) 03.04.2017	C07C 47/19
FABIAN, Carsten	03.04.2017	C07C 29/141
GRUND, Guido	(33) United Kingdom	C07C 31/20
SCHEFER, Dirk	European Patent Office (EPO)	C07C 29/143
(31) 102020100254	(51) C07C 17/25	(11) EP3759064
(32) 08.01.2020	C07C 21/18	(21) EP19710242.9
(33) Germany	C07C 17/354	(47) 06.12.2023
(51) C05F 3/00	C07C 19/08	(87) US2019019415
C05F 17/00	(11) EP3309139	29.08.2019
C05F 7/00	(21) EP17201171.0	(22) 25.02.2019
C02F 1/22	(47) 06.12.2023	(54) PRODUCING BDO VIA
C02F 1/24	(22) 15.05.2009	HYDROFORMYLATION OF ALLYL
C02F 1/44	(54) PROCESS FOR THE PREPARATION	ALCOHOL MADE FROM GLYCERIN
C02F 11/14	OF 2,3,3,3-TRIFLUOROPROPENE	(73) Lyondell Chemical Technology, L.P.
(11) EP3630705	(73) Mexichem Fluor S.A. de C.V.	(72) YANG, Xueyong
(21) EP18711676.9	(72) Sharratt,, Andrew Paul	WHITE, Daniel, F.
(47) 06.12.2023	McGuinness,, Claire	MANDIMUTSIRA, Beaven, S.
(87) IB2018000096	Smith,, John William	(31) 201862635364 P
29.11.2018	Taylor,, Andrew Mark	201862635339 P
(22) 31.01.2018	(31) 0808836	(32) 26.02.2018
(54) A METHOD FOR CONVERSION OF	(32) 15.05.2008	26.02.2018
POULTRY MANURE	(33) United Kingdom	(33) United States of America
(73) Mkrтчyan, Ovik Leonardovich	(51) C07C 17/38	United States of America
Mhitarjans, Mhitar	C07C 17/383	(51) C07C 41/56
(72) Mkrтчyan, Ovik Leonardovich	C07C 19/08	C07C 41/50
Mhitarjans, Mhitar	C07C 21/18	C07C 43/30
(31) 1700194	(11) EP3578536	B01J 23/881
(32) 22.05.2017	(21) EP18748736.8	C07C 45/38
(33) Uzbekistan	(47) 06.12.2023	C07C 47/04
(51) C05G 3/90	(87) JP2018003213	(11) EP3697751
C05B 15/00	09.08.2018	(21) EP18792915.3
C05G 3/00	(22) 31.01.2018	(47) 06.12.2023
C05C 11/00	(54) METHOD FOR PRODUCING	(87) EP2018078788
C05C 9/00	FLUOROHALOGENATED	25.04.2019
C05G 5/20	HYDROCARBON	(22) 19.10.2018
(11) EP3337774	(73) Daikin Industries, Ltd.	(54) METHOD FOR PRODUCING
(21) EP16837740.6	(72) TAKAHASHI, Kazuhiro	POLYOXYMETHYLENE DIMETHYL
(47) 06.12.2023	TAKAKUWA, Tatsuya	ETHER
(87) US2016047310	(31) 2017015587	(73) Fraunhofer-Gesellschaft zur Förderung
23.02.2017	(32) 31.01.2017	der angewandten Forschung e.V.
(22) 17.08.2016	(33) Japan	(72) M. SC. OUDA, Mohamed
(54) HIGH TEMPERATURE AMINE-	(51) C07C 29/147	WHITE, Robin
STABILIZED DCD AND/OR ALKYL	C07C 31/20	SCHAADT, Achim
THIOPHOSPHORIC TRIAMIDE	B01J 31/02	(31) 102017218782
SOLVENT SYSTEMS AND USE IN	B01J 31/18	(32) 20.10.2017
AGRICULTURAL APPLICATIONS	B01J 31/20	(33) Germany
(73) SPECIALTY OPERATIONS FRANCE	(11) EP3661901	(51) C07C 209/68
(72) ORTIZ-SUAREZ, Marivi	(21) EP18756061.0	C07C 211/27
SAWYER, James	(47) 06.12.2023	C08G 59/50
HARRIS, Christopher	(87) US2018044476	C07B 61/00
(31) 201562205837 P	07.02.2019	(11) EP3805197
(32) 17.08.2015	(22) 31.07.2018	(21) EP19811565.1
(33) United States of America	(54) SYNTHESIS OF GLYCOLS VIA	(47) 06.12.2023
(51) C06B 21/00	TRANSFER HYDROGENATION OF	(87) JP2019021020
C06B 45/10	ALPHA-FUNCTIONAL ESTERS WITH	05.12.2019
(11) EP3606891	ALCOHOLS	(22) 28.05.2019
(21) EP18713001.8	(73) Eastman Chemical Company	(54) METHOD FOR PRODUCING
(47) 06.12.2023	(72) CHAKRABORTY, Sumit	COMPOUND, COMPOUND, EPOXY
(87) GB2018050809	HEMBRE, Robert, Thomas	CURING AGENT, AND METHOD FOR
11.10.2018	(31) 201816043320	PRODUCING AMINE COMPOSITION
(22) 28.03.2018	201762540354 P	(73) MITSUBISHI GAS CHEMICAL
(54) RESONANT ACOUSTIC MIXING (RAM)	(32) 24.07.2018	COMPANY, INC.
OF AN EXPLOSIVE COMPOSITION	02.08.2017	(72) TAKANO Yoichi
(73) BAE Systems PLC	(33) United States of America	UERA Kazuyoshi
(72) BURN, Andy, Oden	United States of America	(31) 2019032384
STEVENS, Rebecca, Elizabeth	(51) C07C 29/60	2019032381
(31) 201705320	C07C 45/50	2018104381

(32) 26.02.2019	C07C 51/41	(73) Tenacia Biotechnology (Hong Kong) Co., Limited
26.02.2019	C07B 53/00	(72) KHAN, M, Amin
31.05.2018	(11) EP4103543	(31) 201762523413 P
(33) Japan	(21) EP21705448.5	201662369465 P
Japan	(47) 06.12.2023	(32) 22.06.2017
Japan	(87) EP2021053159	01.08.2016
(51) C07C 215/18	19.08.2021	(33) United States of America
C07C 215/08	(22) 10.02.2021	United States of America
C07C 215/16	(54) PROCESS FOR THE SYNTHESIS OF S-	(51) C07D 207/27
C07C 215/32	BEFLUBUTAMID USING ASYMMETRIC	(11) EP3778568
C07C 215/28	HYDROGENATION	(21) EP18906460.3
C07C 217/32	(73) Cheminova A/S	(47) 06.12.2023
C07C 217/30	(72) SØNDERGAARD, Kåre	(87) CN2018121624
C07C 217/34	(31) 202062972779 P	22.08.2019
C07D 205/04	(32) 11.02.2020	(22) 17.12.2018
C07D 217/04	(33) United States of America	(54) METHOD OF PREPARING
C07D 311/88	(51) C07C 273/12	HIGH CHIRAL PURITY LACTAM
A61K 31/133	(11) EP3814320	INTERMEDIATE AND BRIVARACETAM
A61K 31/135	(21) EP19753195.7	(73) Yangzhou Aoruite Pharmaceutical Co., Ltd.
A61K 31/136	(47) 06.12.2023	Yangzhou Lianao Biomedical Co., Ltd.
A61P 3/00	(87) IB2019055506	(72) YU, Zhenpeng
A61P 11/00	02.01.2020	XIAO, Fei
A61P 29/00	(22) 28.06.2019	WANG, Guoping
A61P 31/00	(54) CONVERSION PROCESS OF	QI, Shuxian
(11) EP3522877	ANHYDROUS OFF-GAS STREAM	GAO, He
(21) EP17859107.9	COMING FROM MELAMINE	(31) 201811465520
(47) 06.12.2023	SYNTHESIS PLANTS INTO UREA	201810148128
(87) US2017055109	(73) Proman AG	(32) 03.12.2018
12.04.2018	(72) CAVUOTI, Giacomo	13.02.2018
(22) 04.10.2017	DE AMICIS, Alberto	(33) China
(54) SMALL MOLECULE AMPK	DI RUOCCO, Giuseppe	China
ACTIVATORS	(31) 201800006795	(51) C07D 209/48
(73) University of Pittsburgh - Of the	(32) 29.06.2018	A61K 31/404
Commonwealth System of Higher	(33) Italy	A61P 9/00
Education	(51) C07C 315/02	(11) EP3819292
The United States of America as	C07C 317/44	(21) EP19830370.3
Represented by the Department of	C07C 317/14	(47) 06.12.2023
Veterans Affairs	C07C 315/04	(87) CN2019072178
(72) CHEN, Beibei	C07C 317/24	09.01.2020
MALLAMPALLI, Rama K.	(11) EP3612516	(22) 17.01.2019
LIU, Yuan	(21) EP18777736.2	(54) PHTHALIDE DERIVATIVE,
(31) 201662404592 P	(47) 06.12.2023	PREPARATION METHOD THEREFOR
(32) 05.10.2016	(87) IB2018052076	AND USE THEREOF
(33) United States of America	04.10.2018	(73) Lanzhou Institute Of Chemical Physics
(51) C07C 221/00	(22) 27.03.2018	Chinese Academy of Sciences
C07C 225/14	(54) SYNTHESIS OF MESOTRIONE	(72) LIU, Junxi
C07D 231/12	(73) Gharda Chemicals Limited	ZHANG, Yaming
(11) EP3530645	(72) GHARDA, Keki Hormusji	(31) 201810730744
(21) EP17862001.9	MATHUR, Suchet Saran	(32) 05.07.2018
(47) 06.12.2023	JAIN, Nandkumar Janardan	(33) China
(87) JP2017037350	SATHE, Shekhar Vishwanath	(51) C07D 243/08
26.04.2018	DAMANIA, Pragnesh Dalpatram	C07D 243/38
(22) 16.10.2017	(31) 201721010839	C07D 401/06
(54) METHOD FOR PRODUCING	(32) 27.03.2017	C07D 401/14
NITROGEN-CONTAINING COMPOUND	(33) India	C07D 403/04
(73) AGC INC.	(51) C07D 205/08	C07D 403/06
(72) YAMAZAKI, Yusuke	C07D 205/12	C07D 403/10
SAWAGUCHI, Masanori	A61K 31/397	C07D 417/06
ISHIBASHI, Yuichiro	A61P 25/00	A61K 31/5513
(31) 2017061391	(11) EP3490974	C07D 471/04
2016205020	(21) EP17751911.3	A61P 35/00
(32) 27.03.2017	(47) 06.12.2023	(11) EP3755689
19.10.2016	(87) US2017044813	(21) EP19757550.9
(33) Japan	08.02.2018	(47) 06.12.2023
Japan	(22) 01.08.2017	(87) US2019018772
(51) C07C 231/02	(54) SPIRO-LACTAM NMDA RECEPTOR	29.08.2019
C07C 231/16	MODULATORS AND USES THEREOF	
C07C 51/487		

(22) 20.02.2019	(51) C07D 405/14	(31) 201862639271 P
(54) INHIBITORS OF EGFR AND METHODS OF USE THEREOF	C07F 9/6584	(32) 06.03.2018
(73) Dana-Farber Cancer Institute, Inc.	C07D 401/04	(33) United States of America
(72) GRAY, Nathanael S.	C07D 403/04	(51) C07D 417/12
DE CLERCQ, Dries	C07D 403/10	C07D 417/14
JANG, Jaebong	C07D 403/14	A61P 1/16
JANNE, Pasi	C07D 405/10	A61P 9/00
TO, Ciric	C07D 409/14	A61P 11/00
ECK, Michael	C07D 471/04	A61P 27/02
PARK, Eunyoung	C07D 471/16	A61K 31/427
HEPPNER, David	C07D 487/06	A61K 31/428
(31) 201862744085 P	C07D 491/06	(11) EP4073069
201862632817 P	C07D 491/16	(21) EP20820184.8
(32) 10.10.2018	C07D 491/22	(47) 06.12.2023
20.02.2018	C07D 495/06	(87) EP2020085458
(33) United States of America	C07D 495/16	17.06.2021
United States of America	C07D 209/80	(22) 10.12.2020
(51) C07D 251/24	C07F 7/08	(54) AROMATIC AMIDO DERIVATIVES AS LPA RECEPTOR 2 INHIBITORS
C08J 5/00	C09K 11/06	(73) Chiesi Farmaceutici S.p.A.
C08K 5/3492	(11) EP3573973	(72) AMARI, Gabriele
(11) EP3990439	(21) EP18700516.0	ARMANI, Elisabetta
(21) EP20737554.4	(47) 06.12.2023	PAGANO, Mafalda
(47) 06.12.2023	(87) EP2018051407	RAVEGLIA, Luca
(87) IB2020055861	02.08.2018	BEATO, Claudia
30.12.2020	(22) 22.01.2018	(31) 19215727
(22) 22.06.2020	(54) CARBAZOLE DERIVATIVES	(32) 12.12.2019
(54) FUNCTIONALIZED TRIAZINE COMPOUNDS, COMPOSITIONS COMPRISING SUCH COMPOUNDS AND CURED FLUOROPOLYMER ARTICLES	(73) Merck Patent GmbH	(33) European Patent Office (EPO)
(73) 3M Innovative Properties Company	(72) PARHAM, Amir	(51) C07D 471/00
(72) MITCHELL, Michael H.	LUDEMANN, Aurélie	C07D 471/04
FUKUSHI, Tatsuo	JOOSTEN, Dominik	A61P 35/00
GUERRA, Miguel A.	GROSSMANN, Tobias	(11) EP3887368
QIU, Zai-Ming	KROEBER, Jonas	(21) EP20903517.9
ROOP, Justin T.	(31) 17152962	(47) 06.12.2023
(31) 201962868041 P	(32) 25.01.2017	(87) TR2020051245
(32) 28.06.2019	(33) European Patent Office (EPO)	24.06.2021
(33) United States of America	(51) C07D 409/12	(22) 07.12.2020
(51) C07D 317/38	C07D 471/04	(54) 3/4-((2E,6E)-3,7,11-TRIMETHYLDODECA-2,6,10-TRIENYLTHIO)BENZAMIDE DERIVATIVE COMPOUNDS
C07C 29/10	A61P 25/16	(73) Ankara Üniversitesi Rektörlüğü
C07C 31/20	A61P 25/28	(72) BÜYÜKBİNGÖL, Mehmet Erdem
B01D 53/70	A61P 25/18	DEMIRCI TÜRE, Asli
B01D 53/02	A61K 31/381	ÖZPOLAT, Bülent
C07C 29/12	A61K 31/4436	(31) 201920922
B01D 53/86	A61K 31/519	(32) 20.12.2019
(11) EP3720848	(11) EP3762383	(33) Türkiye
(21) EP18811297.3	(21) EP19716018.7	(51) C07D 471/04
(47) 06.12.2023	(47) 06.12.2023	A61K 31/437
(87) EP2018083755	(87) US2019020896	A61P 35/00
13.06.2019	12.09.2019	(11) EP4045503
(22) 06.12.2018	(22) 06.03.2019	(21) EP20792415.0
(54) PROCESS FOR PREPARING ETHYLENE CARBONATE AND ETHYLENE GLYCOL USING AN ALKYL IODIDE GUARD BED SYSTEM	(54) POSITIVE ALLOSTERIC MODULATORS OF DOPAMINE 1 RECEPTOR AND METHOD OF USE THEREOF	(47) 06.12.2023
(73) Shell Internationale Research Maatschappij B.V.	(73) The United States of America, as represented by the Secretary, Department of Health and Human Services	(87) EP2020079166
(72) BASTINGS, Roel, Guillaume, Hubertus, Leonardus	University of Kansas	22.04.2021
BLACK, Jesse, Raymond	The University of North Carolina at Chapel Hill	(22) 16.10.2020
BOJOVIC, Vesna	(72) SIBLEY, David R.	(54) ESTROGEN-RELATED RECEPTOR ALPHA (ERR-ALPHA) MODULATORS
EVANS, Wayne, Errol	LUDERMAN, Kathryn D.	(73) Lead Pharma Holding B.V.
(31) 17206145	CONROY, Jennie L.	(72) LEMMERS, Jaap Gerardus Henricus DERETHEY, Eugen
(32) 08.12.2017	FREE, R. Benjamin	KLOMP, Johannes Petrus Gerardus
(33) European Patent Office (EPO)	JAIN, Prashi	CALS, Joseph Maria Gerardus
	SOUTHALL, Noel T.	OUBRIE, Arthur
	FERRER, Marc	(31) 19204189
	AUBÉ, Jeffrey	(32) 18.10.2019
	FRANKOWSKI, Kevin	(33) European Patent Office (EPO)

(51) C07D 471/04 A61K 31/444 A61K 31/5025 A61P 25/22 A61P 25/24	C07D 213/73 C07D 213/79 A01N 43/90	(73) Tenacia Biotechnology (Hong Kong) Co., Limited
(11) EP3867252	(11) EP3931194	(72) KHAN, M., Amin
(21) EP19873627.4	(21) EP20709149.7	(31) 201762443915 P 201662369529 P
(47) 06.12.2023	(47) 06.12.2023	(32) 09.01.2017 01.08.2016
(87) AU2019051137 23.04.2020	(87) EP2020055336 03.09.2020	(33) United States of America United States of America
(22) 18.10.2019	(22) 28.02.2020	<hr/>
(54) 6-INDAN-2-YLOXY-3-(MORPHOLINE-4-CARBONYL)-1,8-NAPHTHYRIDIN-4-ONE DERIVATIVES AND SIMILAR COMPOUNDS AS MODULATORS OF THE ALPHA 7 NICOTINIC ACETYLCHOLINE RECEPTOR FOR THE TREATMENT OF ANXIETY	(54) PESTICIDALLY ACTIVE HETEROCYCLIC DERIVATIVES WITH SULFUR CONTAINING SUBSTITUENTS	(51) C07D 487/04
(73) Bionomics Limited	(73) Syngenta Crop Protection AG	(11) EP4048673
(72) MITCHELL, Lorna TOOP, Hamish HUFF, Belinda RIPPER, Justin SINGH, Rajinder MORICE, Christophe CONTRERAS, Jean-Marie BAZZINI, Patrick SCHAEFFER, Laurent MICHAUT, Mathieu	(72) SIKERVAR, Vikas SEN, Indira EMERY, Daniel MUEHLEBACH, Michel RENDLER, Sebastian STOLLER, André BUCHHOLZ, Anke	(21) EP20789969.1 (47) 06.12.2023 (87) EP2020078610 29.04.2021 (22) 12.10.2020 (54) PROCESS FOR THE PRODUCTION OF CYCLIC GUANIDINE DERIVATES
(31) 2018903949	(31) 201911007906 19181176	(73) BASF SE
(32) 18.10.2018	(32) 28.02.2019 19.06.2019	(72) ERNST, Martin HUBER, Tatjana LANGLOTZ, Bjoern
(33) Australia	(33) India European Patent Office (EPO)	(31) 19204505 (32) 22.10.2019 (33) European Patent Office (EPO)
<hr/>	<hr/>	<hr/>
(51) C07D 471/04 A61K 31/517 A61K 31/519 A61K 31/5377 A61K 31/538 A61K 31/553 A61P 25/00 A61P 25/28 A61P 43/00 C07D 519/00 C12N 15/09 C07D 487/04	(51) C07D 471/04 C07D 487/04 A61K 31/437 A61K 31/519 A61K 31/4985 A61P 25/00	(51) C07D 487/04 C07D 471/14 A61P 3/00 A61P 5/00 A61P 9/00 A61P 17/00 A61P 19/00 A61P 19/08 A61P 25/00 A61P 25/16 A61P 25/28 A61P 27/00 A61P 27/02 A61P 31/00 A61P 35/00 A61P 37/00 A61P 37/02 A61P 37/04 A61P 37/06 A61P 37/08 A61P 39/00
(11) EP3693368	(11) EP3529250	(11) EP4028017
(21) EP18864868.7	(21) EP17791007.2	(21) EP20788868.6
(47) 06.12.2023	(47) 06.12.2023	(47) 06.12.2023
(87) JP2018037282 11.04.2019	(87) EP2017076481 26.04.2018	(87) IB2020000730 18.03.2021
(22) 04.10.2018	(22) 17.10.2017	(22) 11.09.2020
(54) HETEROCYCLIC COMPOUND	(54) IMIDAZOPYRAZINONES, PYRAZOLOPYRIMIDINONES AND PYRAZOLOPYRIDINONES AS PDE1 INHIBITORS	(54) 1,4-DIHYDROBENZO[D]PYRAZOLO[3,4-F][1,3]DIAZEPINE DERIVATIVES AND RELATED COMPOUNDS AS LRRK2, NUAQ1 AND/OR TYK2 KINASE MODULATORS FOR THE TREATMENT OF E.G. AUTOIMMUNE DISEASES
(73) Takeda Pharmaceutical Company Limited	(73) H. Lundbeck A/S	(73) Origenis GmbH
(72) NAKAMURA, Shinji MIKAMI, Satoshi HASUI, Tomoaki YAMASHITA, Tohru MORIMOTO, Shinji TOKUHARA, Hidekazu OYABU, Norio YAMADA, Masami OCHIDA, Atsuko TAKAMI, Kazuaki LIU, Xin	(72) KEHLER, Jan RASMUSSEN, Lars, Kyhn LANGGÅRD, Morten JESSING, Mikkel VITAL, Paulo, Jorge, Vieira JUHL, Karsten	(72) KOESTLER, Roland THORMANN, Michael TASSEL, Jean YEHIA, Nasser TREMEL, Andreas ALMSTETTER, Michael
(31) 2017195904	(31) PA201700191 PA201600643	(31) 201962899908 P
(32) 06.10.2017	(32) 14.03.2017 18.10.2016	(32) 13.09.2019
(33) Japan	(33) Denmark Denmark	
<hr/>	<hr/>	
(51) C07D 471/04	(51) C07D 471/10 C07D 487/10 A61K 31/407 A61K 31/438 A61P 25/00	
	(11) EP3490990	
	(21) EP17751918.8	
	(47) 06.12.2023	
	(87) US2017044871 08.02.2018	
	(22) 01.08.2017	
	(54) SPIRO-LACTAM NMDA MODULATORS AND METHODS OF USING SAME	

(33) United States of America	(87) CN2017117610	(33) United Kingdom
(51) C07D 487/10	12.07.2018	(51) C07D 513/14
C07D 498/10	(22) 21.12.2017	A61K 38/10
A61K 31/5386	(54) 2-[[5-[(4-HYDROXY-3-CHLORO-2-METHYL)-PHENYL]-THIENO[2,3-D]PYRIMIDIN-4-YL]OXY]-3-(2-METHOXYBENZENE)PROPANOIC ACID DERIVATIVES AS MCL-1 AND BCL-2 INHIBITORS FOR TREATING CANCER	A61K 38/12
A61K 31/499	(73) Henan Genuine Biotech Co., Ltd.	A61K 45/00
A61P 25/00	(72) CHANG, Junbiao	A61K 45/06
(11) EP3490993	DU, Jinfa	C07K 7/08
(21) EP17751913.9	(31) 201710006807	C07K 7/50
(47) 06.12.2023	(32) 05.01.2017	C07K 7/56
(87) US2017044841	(33) China	G01N 33/574
08.02.2018	(51) C07D 495/04	A61P 31/00
(22) 01.08.2017	A61P 11/00	A61P 31/12
(54) SPIRO-LACTAM NMDA RECEPTOR MODULATORS AND USES THEREOF	A61P 1/16	A61P 31/14
(73) Tenacia Biotechnology (Hong Kong) Co., Limited	A61P 9/00	A61P 31/16
(72) KHAN, M., Amin	A61P 27/02	A61P 31/20
(31) 201662369456 P	A61K 31/519	A61P 31/18
(32) 01.08.2016	(11) EP4073073	A61P 31/22
(33) United States of America	(21) EP20820181.4	A61P 35/00
(51) C07D 487/14	(47) 06.12.2023	A61P 37/00
A61K 31/517	(87) EP2020085452	A61P 37/04
A61P 35/00	17.06.2021	A61K 31/4045
(11) EP3684772	(22) 10.12.2020	A61K 38/00
(21) EP18808139.2	(54) THIENOPYRIMIDINE DERIVATIVES AS LPA RECEPTOR 2 INHIBITORS	(11) EP4061818
(47) 06.12.2023	(73) Chiesi Farmaceutici S.p.A.	(21) EP20824826.0
(87) US2018052047	(72) AMARI, Gabriele	(47) 06.12.2023
28.03.2019	ARMANI, Elisabetta	(87) US2020061288
(22) 20.09.2018	PAGANO, Mafalda	27.05.2021
(54) CYCLIC IMINOPYRIMIDINE DERIVATIVES AS KINASE INHIBITORS	RAVEGLIA, Luca	(22) 19.11.2020
(73) ABM Therapeutics Corporation	(31) 19215741	(54) MACROCYCLIC PEPTIDES AS PD-L1 INHIBITORS AND IMMUNOMODULATORS FOR THE TREATMENT OF CANCER AND INFECTIOUS DISEASES
(72) CHEN, Chen	(32) 12.12.2019	(73) Bristol-Myers Squibb Company
(31) 201762561142 P	(33) European Patent Office (EPO)	(72) WANG, Tao
(32) 20.09.2017	(51) C07D 513/02	SCOLA, Paul Michael
(33) United States of America	(11) EP3936508	ZHANG, Zhongxing
(51) C07D 487/14	(21) EP21189950.5	(31) 202062957361 P
C07D 401/04	(47) 06.12.2023	202062957355 P
C07D 491/04	(22) 03.12.2009	201962937517 P
C07D 495/04	(54) A COMPOSITION COMPRISING STEM CELL CULTURES	(32) 06.01.2020
C07D 495/14	(73) The Scripps Research Institute	06.01.2020
C07D 209/82	(72) XU, Yue	19.11.2019
H10K 99/00	DING, Sheng	(33) United States of America
(11) EP2907815	(31) 200808 P	United States of America
(21) EP15154505.0	(32) 03.12.2008	United States of America
(47) 06.12.2023	(33) United States of America	(51) C07F 5/04
(22) 10.02.2015	(51) C07D 513/08	C07F 5/02
(54) Condensed cyclic compound and organic light-emitting device including the same	A61K 31/429	A01N 55/08
(73) Samsung Electronics Co., Ltd	A61P 31/00	(11) EP3604316
Samsung SDI Co., Ltd.	A61P 3/10	(21) EP19186092.3
(72) Kim, Sangmo	(11) EP3596089	(47) 06.12.2023
Kwon, Ohyun	(21) EP18714051.2	(22) 30.04.2015
Choi, Byoungki	(47) 06.12.2023	(54) SYNTHESIS OF BORONATE SALTS
Hwang, Kyuyoung	(87) GB2018050685	(73) Melinta Therapeutics, Inc.
(31) 20150011855	20.09.2018	(72) HECKER, Scott
20140016282	(22) 16.03.2018	BOYER, Serge
(32) 26.01.2015	(54) ANTIBACTERIAL COMPOUNDS	(31) 201461988690 P
12.02.2014	(73) The University Of Nottingham	(32) 05.05.2014
(33) Korea (Republic)	(72) CHAN, Weng Choon	(33) United States of America
Korea (Republic)	GENAPATHY, Sivanewary	(51) C07F 9/09
(51) C07D 495/04	YANG, Lei	A61K 31/506
A61K 31/519	(31) 201704166	A61K 31/422
A61P 35/00	(32) 16.03.2017	(11) EP3481837
(11) EP3567043		(21) EP17740237.7
(21) EP17889767.4		(47) 06.12.2023
(47) 06.12.2023		(87) US2017040809
		11.01.2018

- (22) 06.07.2017
(54) PHOSPHORUS PRODRUGS OF SGC STIMULATORS
(73) Cycleron Therapeutics, Inc.
(72) SHEPPECK, James Edward
RENHOWE, Paul Allan
MERMERIAN, Ara
BARDEN, Timothy Claude
RENNIE, Glen Robert
IYENGAR, Rajesh R.
NAKAI, Takashi
(31) 201662359419 P
(32) 07.07.2016
(33) United States of America
-
- (51) C07F 9/6558
A61K 31/675
A61P 25/00
A61P 25/28
C07F 9/6561
(11) EP3783005
(21) EP19789516.2
(47) 06.12.2023
(87) CN2019083462
24.10.2019
(22) 19.04.2019
(54) DIMETHYLPHOSPHINE OXIDE COMPOUND
(73) Guizhou Inochini Technology Co., Ltd
(72) WU, Lingyun
WEI, Xiawei
ZHANG, Peng
CHEN, Zhaoguo
WANG, Cailin
ZHAO, Lele
LI, Jian
CHEN, Shuhui
(31) 201810360120
(32) 20.04.2018
(33) China
-
- (51) C07F 15/00
C09K 11/06
H10K 85/30
(11) EP3689889
(21) EP20154964.9
(47) 06.12.2023
(22) 31.01.2020
(54) ORGANIC ELECTROLUMINESCENT MATERIALS AND DEVICES
(73) Universal Display Corporation
(72) TSAI, Jui-Yi
DYATKIN, Alexey Borisovich
JI, Zhiqiang
YEAGER, Walter
BOUDREAULT, Pierre-Luc T.
(31) 202016750415
201962799975 P
(32) 23.01.2020
01.02.2019
(33) United States of America
United States of America
-
- (51) C07H 15/20
C07H 17/02
C12Q 1/34
G01N 33/574
G01N 33/68
A61K 49/00
(11) EP3555112
(21) EP17821597.6
- (47) 06.12.2023
(87) EP2017083518
28.06.2018
(22) 19.12.2017
(54) FLUOROGENIC GLYCOSIDASE SUBSTRATE AND ASSOCIATED DETECTION METHOD
(73) Ecole Normale Supérieure De Lyon
Université Claude Bernard Lyon 1
Centre National de la Recherche Scientifique
(72) HASSERODT, Jens
GONDRAND, Corentin
PROST, Maxime
YVERT, Gaël
TRIQUENEAUX, Gérard
(31) 1662787
(32) 19.12.2016
(33) France
-
- (51) C07K 1/26
G01N 27/447
(11) EP3265470
(21) EP16759408.4
(47) 06.12.2023
(87) US2016020441
09.09.2016
(22) 02.03.2016
(54) ELECTROPHORESIS AND ELECTROBLOTTING SYSTEMS AND METHODS
(73) Bio-Rad Laboratories, Inc.
(72) RAN, Boaz
(31) 201562127650 P
(32) 03.03.2015
(33) United States of America
-
- (51) C07K 7/56
C07D 513/22
A61P 31/04
A61P 31/12
A61P 35/00
A61K 38/00
(11) EP4126902
(21) EP21719826.6
(47) 06.12.2023
(87) US2021024847
07.10.2021
(22) 30.03.2021
(54) IMMUNOMODULATORS
(73) Bristol-Myers Squibb Company
(72) WANG, Tao
(31) 202063001628 P
(32) 30.03.2020
(33) United States of America
-
- (51) C07K 14/00
C07K 19/00
A61K 38/16
C07K 14/54
C07K 14/47
(11) EP3789397
(21) EP20185401.5
(47) 06.12.2023
(22) 20.05.2015
(54) NOVEL SPECIFIC-BINDING POLYPEPTIDES AND USES THEREOF
(73) Pieris Pharmaceuticals GmbH
(72) HINNER, Marlon
WIEDENMANN, Alexander
ALLERSDORFER, Andrea
- (31) 14169488
(32) 22.05.2014
(33) European Patent Office (EPO)
-
- (51) C07K 14/315
A61K 35/74
A61K 38/16
A61P 3/10
C07K 7/06
C12N 15/31
C12N 15/85
A61K 38/00
C07K 14/705
(11) EP3426677
(21) EP17762367.5
(47) 06.12.2023
(87) CA2017050238
14.09.2017
(22) 24.02.2017
(54) USE OF PNEUMOLYSIN PEPTIDES AS ANTAGONISTS AGAINST TOLL-LIKE RECEPTOR 4 AND METHODS OF TREATING TOLL-LIKE RECEPTOR 4 RELATED DISEASES
(73) Kemyth Biotech Co., Ltd.
(72) CHONG, Pele Choi-Sing
SIU, Leung-Kei
CHANG, Feng-Yee
LENG, Chih-Hsiang
(31) 201662305164 P
(32) 08.03.2016
(33) United States of America
-
- (51) C07K 14/725
(11) EP3572423
(21) EP19180239.6
(47) 06.12.2023
(22) 14.07.2014
(54) ANTI-HUMAN PAPILLOMAVIRUS 16 E6 T CELL RECEPTORS
(73) The United States of America, as represented by the Secretary, Department of Health and Human Services
(72) HINRICHS, Christian S.
ROSENBERG, Steven A.
(31) 201361846167 P
(32) 15.07.2013
(33) United States of America
-
- (51) C07K 16/00
A61K 39/00
A61K 39/395
A61K 38/00
C12P 21/08
(11) EP3864039
(21) EP19870180.7
(47) 06.12.2023
(87) US2019055145
16.04.2020
(22) 08.10.2019
(54) NEUROENDOCRINE CANCER TARGETED THERAPY
(73) The UAB Research Foundation
(72) LIU, Xiaoguang
ZHOU, Lufang
OU, Jianfa
SI, Yingnan
JASKULA-SZTUL, Renata
CHEN, Herbert
WHITT, Jason Derek

ZHANG, Jianyi	(22) 17.01.2017	A61P 35/00
(31) 201862742567 P	(54) ENDO-S2 MUTANTS AS	(11) EP3256162
(32) 08.10.2018	GLYCOSYNTASES, METHOD	(21) EP16711533.6
(33) United States of America	OF MAKING AND USE FOR	(47) 06.12.2023
(51) C07K 16/00	GLYCOENGINEERING OF	(87) EP2016025008
A61K 39/395	GLYCOPROTEINS	18.08.2016
A61K 31/4545	(73) University of Maryland, College Park	(22) 10.02.2016
A61K 31/517	(72) WANG, Lai-xi	(54) CANCER THERAPY WITH A
A61K 45/06	YANG, Qiang	PARVOVIRUS COMBINED WITH
A61K 31/437	LI, Tiezheng	BEVACIZUMAB
A61K 31/5377	TONG, Xin	(73) Deutsches Krebsforschungszentrum
A61K 33/24	(31) 201662279087 P	Ruprecht-Karls-Universität
C07K 16/28	(32) 15.01.2016	(72) GELETNEKY, Karsten
A61P 35/00	(33) United States of America	ROMMELAERE, Jean
(11) EP3808767	(51) C07K 16/08	WICK, Wolfgang
(21) EP20197551.3	A61K 39/00	WICK, Antje
(47) 06.12.2023	C07K 16/46	DAHM, Michael
(22) 21.11.2013	C07K 16/28	(31) 15154629
(54) BISPECIFIC EGFR/C-MET ANTIBODIES	A61P 1/16	(32) 11.02.2015
(73) Janssen Biotech, Inc.	A61P 31/20	(33) European Patent Office (EPO)
(72) CHIU, Mark	A61P 35/00	(51) C07K 16/24
MOORES, Sheri	(11) EP3271387	A61P 3/10
NEIJESSEN, Joost	(21) EP16711223.4	A61P 9/00
PARREN, Paul	(47) 06.12.2023	A61K 39/00
SCHUURMAN, Janine	(87) EP2016055717	(11) EP3211004
(31) 201361892797 P	22.09.2016	(21) EP15852326.6
201361864717 P	(22) 16.03.2016	(47) 06.12.2023
201361809541 P	(54) TRISPECIFIC BINDING MOLECULES	(87) CN2015092766
201361782550 P	FOR TREATING HBV INFECTION AND	28.04.2016
201261728912 P	ASSOCIATED CONDITIONS	(22) 23.10.2015
(32) 18.10.2013	(73) Helmholtz Zentrum München -	(54) USE OF MACROPHAGE
12.08.2013	Deutsches Forschungszentrum für	INFLAMMATORY PROTEIN-1
08.04.2013	Gesundheit und Umwelt (GmbH)	(MIP-1) INHIBITOR FOR IMPROVING
14.03.2013	Deutsches Krebsforschungszentrum	TISSUE ISCHEMIA AND DIABETES
21.11.2012	Technische Universität München	VASCULOPATHY BY PROMOTING
(33) United States of America	(72) PROTZER, Ulrike	ANGIOGENESIS
United States of America	BOHNE, Felix	(73) National Yang-Ming University
United States of America	QUITT, Oliver	Taipei Veterans General Hospital
United States of America	MOMBURG, Frank	(72) CHEN, Jaw-Wen
United States of America	MOLDENHAUER, Gerhard	CHANG, Ting-Ting
(51) C07K 16/00	(31) 15159274	(31) 201462068475 P
C07K 16/28	(32) 16.03.2015	(32) 24.10.2014
C07K 16/40	(33) European Patent Office (EPO)	(33) United States of America
A61K 39/00	(51) C07K 16/10	(51) C07K 16/28
C07K 16/22	A61K 39/145	A61K 39/395
(11) EP3286214	C07K 14/005	A61K 35/17
(21) EP16784106.3	(11) EP3774884	A61K 39/00
(47) 06.12.2023	(21) EP19719672.8	A61K 38/00
(87) US2016029250	(47) 06.12.2023	A61K 48/00
27.10.2016	(87) US2019024323	C07K 14/705
(22) 25.04.2016	03.10.2019	C07K 14/725
(54) MODULATORS OF ROR1-ROR2	(22) 27.03.2019	A61P 35/00
BINDING	(54) METHODS OF GENERATING	(11) EP3313883
(73) The Regents of the University of	BROADLY PROTECTIVE VACCINE	(21) EP16736667.3
California	COMPOSITIONS COMPRISING	(47) 06.12.2023
(72) KIPPS, Thomas, J.	HEMAGGLUTININ	(87) US2016039015
YU, Jian	(73) Sanofi Pasteur Inc.	29.12.2016
(31) 201562152424 P	(72) STRUGNELL, Tod	(22) 23.06.2016
(32) 24.04.2015	OLOO, Eliud	(54) NOVEL PD-1 IMMUNE MODULATING
(33) United States of America	OOMEN, Raymond	AGENTS
(51) C07K 16/00	VOGEL, Thorsten	(73) Memorial Sloan Kettering Cancer Center
C12P 21/00	KLEANTHOU, Harold	Eureka Therapeutics, Inc.
A61K 47/50	(31) 201862649004 P	(72) BRENTJENS, Renier J.
(11) EP3402815	(32) 28.03.2018	JACKSON, Hollie Jaine
(21) EP17739143.0	(33) United States of America	LIU, Cheng
(47) 06.12.2023	(51) C07K 16/22	(31) 201562266398 P
(87) US2017013734	A61K 39/395	201562183297 P
20.07.2017	A61K 35/768	(32) 11.12.2015

23.06.2015	LOCHTMAN, Serge	14.05.2020
(33) United States of America	PEREZ HERRERA, Mariana	(22) 29.10.2019
United States of America	SMOOT, James	(54) A PROCESS FOR THE PREPARATION
(51) C07K 16/28	(31) 201762609323 P	OF ETHYLENE HOMO- OR
C07K 16/40	(32) 21.12.2017	COPOLYMERS IN A TUBULAR
A61K 39/395	(33) United States of America	REACTOR
(11) EP3594240	(51) C08B 37/00	(73) SABIC Global Technologies B.V.
(21) EP19190228.7	(11) EP3837288	(72) TACX, Jacobus Christinus Josephus
(47) 06.12.2023	(21) EP19753071.0	Franciscus
(22) 20.05.2014	(47) 06.12.2023	CASTANEDA ZUNIGA, Diego Mauricio
(54) ANTI-TRANSFERRIN RECEPTOR	(87) EP2019071621	NEUTEBOOM, Peter
ANTIBODIES AND METHODS OF USE	20.02.2020	(31) 18205155
(73) F. Hoffmann-La Roche AG	(22) 12.08.2019	(32) 08.11.2018
(72) Zhang, Yin	(54) ACTIVATED PECTIN-CONTAINING	(33) European Patent Office (EPO)
Zuchero, Joy Yu	BIOMASS COMPOSITIONS,	(51) C08F 2/44
Atwal, Jasvinder	PRODUCTS, AND METHODS OF	C08F 120/34
Couch, Jessica	PRODUCING	C08K 5/1545
Dennis, Mark	(73) CP Kelco ApS	C09K 8/68
Ernst, James	(72) HANSEN, Jack Harbo	D21H 21/10
Watts, Ryan	HENRIKSEN, Wencke Dybvik	C08F 20/34
Lazar, Gregory A.	PEDERSEN, Heidi Liva	(11) EP4159769
(31) 201361825477 P	PEDERSEN, Tommy Ewi	(21) EP22198523.7
(32) 20.05.2013	STAUNSTRUP, Jan Aae	(47) 06.12.2023
(33) United States of America	(31) 201862718001 P	(22) 28.09.2022
(51) C07K 16/46	(32) 13.08.2018	(54) 2-DIMETHYLAMINOETHYL
(11) EP3418306	(33) United States of America	ACRYLATE POLYMERS AND THEIR
(21) EP18167907.7	(51) C08C 4/00	PREPARATION METHOD
(47) 06.12.2023	C08J 3/20	(73) SNF Group
(22) 11.10.2012	C08L 9/06	(72) FAVERO, Cédrick
(54) IMPROVED ASSEMBLY OF BISPECIFIC	B29B 7/18	KIEFFER, Johann
ANTIBODIES	B29B 7/74	LEGRAS, Benoît
(73) F. Hoffmann-La Roche AG	B29B 7/82	BOISSE, Nicolas
(72) GIESE, Glen	(11) EP3715379	LING, Jing
PERSSON, Josefine	(21) EP19165082.9	(31) 202111152476
WILLIAMS, Ambrose	(47) 06.12.2023	2111192
LIM, Amy	(22) 26.03.2019	(32) 29.09.2021
SCHEER, Justin	(54) METHOD FOR PRODUCING A	21.10.2021
(31) 201261676837 P	RUBBER BASE COMPOUND	(33) China
201161560704 P	(73) Continental Reifen Deutschland GmbH	France
201161546503 P	(72) Weinreich, Hajo	(51) C08F 8/00
201161545863 P	Pereira, Armando	C08F 20/04
(32) 27.07.2012	(51) C08F 2/01	A61F 13/53
16.11.2011	C08F 4/48	C08F 2/20
12.10.2011	B01J 19/00	A61L 15/60
11.10.2011	B01J 19/24	A61L 15/24
(33) United States of America	(11) EP3689915	(11) EP3696199
United States of America	(21) EP18860472.2	(21) EP18866231.6
United States of America	(47) 06.12.2023	(47) 06.12.2023
United States of America	(87) JP2018035625	(87) JP2018038102
(51) C08B 30/20	04.04.2019	18.04.2019
C08L 3/00	(22) 26.09.2018	(22) 12.10.2018
C08L 3/12	(54) METHOD FOR MANUFACTURING	(54) WATER-ABSORBENT RESIN AND
A23L 29/212	POLYMER, AND FLOW-TYPE	ABSORBENT ARTICLE
(11) EP3728335	REACTION SYSTEM FOR	(73) Sumitomo Seika Chemicals Co., Ltd.
(21) EP18837040.7	MANUFACTURING POLYMER	(72) HAMA, Maoki
(47) 06.12.2023	(73) FUJIFILM Corporation	KUMAZAWA, Kenta
(87) US2018066903	(72) WADA, Kenji	(31) 2017198261
27.06.2019	MATSUMOTO, Hideki	(32) 12.10.2017
(22) 20.12.2018	HARADA, Kei	(33) Japan
(54) LOW-COLOR STARCH MATERIALS	(31) 2017188932	(51) C08F 8/20
AND METHODS FOR MAKING AND	(32) 28.09.2017	C08G 81/02
USING SAME	(33) Japan	B01J 19/00
(73) Tate & Lyle Solutions USA LLC	(51) C08F 2/02	C08F 112/08
(72) LIU, Weichang	C08F 10/02	C08F 212/08
YOU, Zheng	(11) EP3877425	(11) EP3988581
PATTON, Penelope A.	(21) EP19794560.3	(21) EP20825673.5
COBBY, Michael A.	(47) 06.12.2023	(47) 06.12.2023
WINDEBANK, Tim	(87) EP2019079455	(87) JP2020022041

24.12.2020	(87) JP2018031528	C08L 53/02
(22) 04.06.2020	07.03.2019	(11) EP3750931
(54) INTERMEDIATE FOR BLOCK	(22) 27.08.2018	(21) EP19775609.1
COPOLYMER, BLOCK COPOLYMER,	(54) WATER-SOLUBLE FILM FOR	(47) 06.12.2023
AND METHODS FOR PRODUCING	PACKAGING	(87) KR2019003754
SAME	(73) Sekisui Chemical Co., Ltd.	03.10.2019
(73) DIC Corporation	(72) IEDA, Yasuyuki	(22) 29.03.2019
(72) UEMURA, Yukie	(31) 2017166235	(54) METHOD FOR PRODUCING BLOCK
KOU, Youki	2017166231	COPOLYMER COMPOSITION
TANAKA, Hisakazu	(32) 30.08.2017	(73) LG CHEM, LTD.
(31) 2019114712	30.08.2017	(72) SA, Seok Pil
(32) 20.06.2019	(33) Japan	SHIN, Eun Ji
(33) Japan	Japan	HONG, Yoon Ki
(51) C08F 210/16	(51) C08F 290/06	LEE, Hyun Mo
C08F 2/38	B29C 64/124	LEE, Ki Soo
C08F 4/6592	B29C 64/129	LEE, Bun Yeoul
C08F 4/659	C08F 2/50	(31) 20180117840
C08F 4/646	C08F 220/00	20180037549
(11) EP3712182	C08F 220/28	(32) 02.10.2018
(21) EP18893091.1	B33Y 10/00	30.03.2018
(47) 06.12.2023	B33Y 70/00	(33) Korea (Republic)
(87) KR2018016503	B33Y 80/00	Korea (Republic)
27.06.2019	C08F 222/10	(51) C08G 12/40
(22) 21.12.2018	(11) EP3904414	C08G 59/22
(54) ETHYLENE/1-BUTENE	(21) EP19904936.2	C08G 59/14
COPOLYMER HAVING EXCELLENT	(47) 06.12.2023	C08G 59/40
PROCESSABILITY	(87) JP2019001720	C08G 59/50
(73) LG CHEM, LTD.	02.07.2020	C08L 61/32
(72) KIM, Joongsoo	(22) 21.01.2019	C08L 63/00
KWON, Hyuck Ju	(54) COMPOSITION FOR OPTICAL THREE-	C23F 11/16
CHOI, Yi Young	DIMENSIONAL SHAPING, THREE-	C23F 11/173
LEE, Ki Soo	DIMENSIONALLY SHAPED ARTICLE,	C09D 5/08
PARK, Jongsang	AND METHOD FOR PRODUCING	(11) EP4114874
HONG, Daesik	SAME	(21) EP21715036.6
LEE, Ye Jin	(73) Okamoto Chemical Industry Co., Ltd.	(47) 06.12.2023
KWAK, Jinyoung	(72) OKAMOTO, Hiroaki	(87) US2021020986
(31) 20180166741	NAKATSUKA, Masaro	10.09.2021
20170177534	(31) 2018241327	(22) 05.03.2021
(32) 20.12.2018	(32) 25.12.2018	(54) SCHIFF BASE OLIGOMERS
21.12.2017	(33) Japan	(73) The Boeing Company
(33) Korea (Republic)	(51) C08F 297/08	(72) ZWEIG, Andrew Michael
Korea (Republic)	C08F 4/64	SCHUETTE, Wayne M.
(51) C08F 210/16	C08F 210/02	(31) 202117191024
C08F 4/659	C08L 53/00	202062985579 P
C08F 4/64	(11) EP3747921	(32) 03.03.2021
C08F 4/6592	(21) EP19776273.5	05.03.2020
(11) EP4055070	(47) 06.12.2023	(33) United States of America
(21) EP20819927.3	(87) KR2019003749	United States of America
(47) 06.12.2023	03.10.2019	(51) C08G 18/02
(87) US2020058855	(22) 29.03.2019	C08G 18/80
14.05.2021	(54) BLOCK COPOLYMER COMPOSITION	C09D 175/04
(22) 04.11.2020	(73) LG CHEM, LTD.	C08G 18/28
(54) BIMODAL CATALYST SYSTEMS	(72) SHIN, Eun Ji	C08G 18/62
(73) Dow Global Technologies LLC	LEE, Ki Soo	C08G 18/72
(72) YOUNG, Andrew J.	SA, Seok Pil	C08G 18/73
KUHLMAN, Roger L.	HONG, Yoon Ki	C08G 18/77
PADILLA-ACEVEDO, Angela I.	LEE, Bun Yeoul	C08G 18/79
SZUL, John F.	(31) 20180117841	(11) EP4122966
(31) 201962930450 P	20180037549	(21) EP22190735.5
(32) 04.11.2019	(32) 02.10.2018	(47) 06.12.2023
(33) United States of America	30.03.2018	(22) 13.10.2017
(51) C08F 216/06	(33) Korea (Republic)	(54) POLYISOCYANATE COMPOSITION,
C09D 129/04	Korea (Republic)	BLOCKED POLYISOCYANATE
B29C 59/04	(51) C08F 297/08	COMPOSITION, HYDROPHILIC
C08J 5/18	C08F 4/64	POLYISOCYANATE COMPOSITION,
(11) EP3677405	C08F 210/02	COATING MATERIAL COMPOSITION,
(21) EP18852569.5	C08L 53/00	AND COATING FILM
(47) 06.12.2023	C08F 4/50	(73) Asahi Kasei Kabushiki Kaisha

(72) AZUMA, Koichiro MIWA, Yuichi FUJIMOTO, Katsuhiko HARADA, Yoshiji	(33) Japan Japan Japan Japan Japan Japan	(31) 19184322 (32) 04.07.2019 (33) European Patent Office (EPO)
(31) 2016203111 2016203097 2016203095 2016203090 2016203089 2016203088 2016203083 2016203082	(33) Japan Japan Japan Japan Japan Japan Japan Japan Japan Japan Japan Japan	(51) C08G 18/38 C08G 12/40 C08G 18/54 C08L 75/02 C08L 61/32 C08G 12/12 C08G 18/73 C08G 18/75 C08G 18/24 C23F 11/16 C23F 11/173 C09D 5/08 (11) EP4114882 (21) EP21714742.0 (47) 06.12.2023 (87) US2021020985 10.09.2021 (22) 05.03.2021 (54) SCHIFF BASE OLIGOMERS (73) The Boeing Company (72) ZWEIG, Andrew Michael SCHUETTE, Wayne M. (31) 202117191030 202062985579 P (32) 03.03.2021 05.03.2020 (33) United States of America United States of America
(32) 14.10.2016 14.10.2016 14.10.2016 14.10.2016 14.10.2016 14.10.2016 14.10.2016	(51) C08G 18/10 B32B 37/14 C08G 18/42 C08G 18/48 C08K 3/013 (11) EP3704172 (21) EP18804736.9 (47) 06.12.2023 (87) US2018056503 09.05.2019 (22) 18.10.2018 (54) METHODS AND COMPOSITIONS FOR FORMING ELASTOMERIC POLYURETHANE ARTICLES AND ASSOCIATED ELASTOMERIC POLYURETHANE ARTICLES FORMED THEREOF (73) BASF SE (72) WANG, Liying TERNYAYEVA, Irina TURCO, Gregory BYRNE, Zachary Thomas (31) 201762579805 P (32) 31.10.2017 (33) United States of America	(51) C08G 18/40 C08G 18/61 C08G 18/62 C08G 18/79 C09D 175/02 C09D 175/04 C08G 18/38 C08G 77/388 C08G 77/00 C09D 183/08 C09J 183/08 C08L 83/08 (11) EP3867292 (21) EP19786585.0 (47) 06.12.2023 (87) EP2019078118 23.04.2020 (22) 16.10.2019 (54) ASPARTIC ACID ESTER-FUNCTIONAL POLYSILOXANES, THEIR PREPARATION AND USE THEREOF (73) Momentive Performance Materials GmbH (72) CHERNYSHOV, Dmitry EVERSHEIM, Hubertus (31) 18201573 (32) 19.10.2018 (33) European Patent Office (EPO)
(33) Japan Japan Japan Japan Japan Japan Japan	(51) C08G 18/02 C08G 18/80 C09D 175/04 C08G 18/28 C08G 18/62 C08G 18/72 C08G 18/73 C08G 18/77 C08G 18/79 (11) EP4137523 (21) EP22191730.5 (47) 06.12.2023 (22) 13.10.2017 (54) POLYISOCYANATE COMPOSITION, BLOCKED POLYISOCYANATE COMPOSITION, HYDROPHILIC POLYISOCYANATE COMPOSITION, COATING MATERIAL COMPOSITION, AND COATING FILM (73) Asahi Kasei Kabushiki Kaisha (72) AZUMA, Koichiro MIWA, Yuichi FUJIMOTO, Katsuhiko HARADA, Yoshiji	(51) C08G 18/22 C08G 18/62 C08G 18/79 C09D 175/04 (11) EP4045555 (21) EP20785992.7 (47) 06.12.2023 (87) EP2020078188 22.04.2021 (22) 07.10.2020 (54) COATING MATERIAL SYSTEM BASED ON A BISMUTH-CONTAINING CATALYST COMPRISING AT LEAST ONE AROMATIC SUBSTITUENT (73) BASF Coatings GmbH (72) HOFFMANN, Peter SCHNIER, Benedikt BECKHAUS, Christian (31) 19202928 (32) 14.10.2019 (33) European Patent Office (EPO)
(31) 2016203111 2016203097 2016203095 2016203090 2016203089 2016203088 2016203083 2016203082	(51) C08G 18/28 C09D 11/40 (11) EP3994191 (21) EP20734199.1 (47) 06.12.2023 (87) EP2020067633 07.01.2021 (22) 24.06.2020 (54) ENCAPSULATED AMINE BLOCKED ISOCYANATES (73) AGFA NV (72) LOCCUFIER, Johan DECOSTER, Luc BERTELS, Ellen	(51) C08G 18/42 C07D 229/00 C07D 251/34 C08G 18/79 C08G 18/80 (11) EP4163314 (21) EP22199149.0 (47) 06.12.2023 (22) 30.09.2022
(32) 14.10.2016 14.10.2016 14.10.2016 14.10.2016 14.10.2016 14.10.2016 14.10.2016	(51) C08G 18/28 C09D 11/40 (11) EP3994191 (21) EP20734199.1 (47) 06.12.2023 (87) EP2020067633 07.01.2021 (22) 24.06.2020 (54) ENCAPSULATED AMINE BLOCKED ISOCYANATES (73) AGFA NV (72) LOCCUFIER, Johan DECOSTER, Luc BERTELS, Ellen	(51) C08G 18/42 C07D 229/00 C07D 251/34 C08G 18/79 C08G 18/80 (11) EP4163314 (21) EP22199149.0 (47) 06.12.2023 (22) 30.09.2022

(54) PROCESS FOR THE PREPARATION OF SOLID POLYURETHANE HARDENERS	(11) EP3328910	United States of America
(73) Evonik Operations GmbH	(21) EP16728809.1	United States of America
(72) Spyrou, Emmanouil	(47) 06.12.2023	
Henschke, Andrea	(87) US2016035013	(51) C08G 18/76
Gollan, Elke	09.02.2017	C08G 18/79
Fresmann, Nicole	(22) 31.05.2016	C08J 9/28
Schüller, Jessika	(54) AMINO BENZOATE-TERMINATED MATERIALS FOR LAMINATED ADHESIVES	(11) EP3331934
(31) 21200910	(73) Dow Global Technologies LLC	(21) EP16729276.2
(32) 05.10.2021	(72) BAE, Woo-Sung	(47) 06.12.2023
(33) European Patent Office (EPO)	VIRGILI, Justin M.	(87) EP2016063869
(51) C08G 18/48	SONNENSCHNEIN, Mark F.	09.02.2017
C08G 18/65	BARRUS, Jonathan	(22) 16.06.2016
C08G 18/66	GUO, Yinzhang	(54) ISOCYANATE BASED ORGANIC XEROGELS WITH REDUCED DENSITY
C08G 18/76	XIE, Rui	(73) Huntsman International LLC
C08G 18/20	(31) 201562199600 P	(72) JONCHERAY, Thomas, Julien
C08G 18/34	(32) 31.07.2015	VAN DEN BROECK, Jan
(11) EP3870623	(33) United States of America	GEUMEZ, Gilles Jean
(21) EP19787296.3	(51) C08G 18/64	(31) PCT/EP2015/179990
(47) 06.12.2023	C08G 18/66	(32) 06.08.2015
(87) EP2019078708	C08G 18/20	(33) World Intellectual Property Office (WIPO)
30.04.2020	C08G 18/32	(51) C08G 59/50
(22) 22.10.2019	C08G 18/40	(11) EP3569632
(54) ISOCYANATE POLYAMIDE BLOCK COPOLYMER	C08G 18/48	(21) EP19174723.7
(73) BASF SE	C08G 18/63	(47) 06.12.2023
(72) PRISSOK, Frank	C08K 3/30	(22) 15.05.2019
PUCH, Florian	(11) EP3830164	(54) FAST CURING EPOXY SYSTEMS
POESEL, Elmar	(21) EP18928453.2	(73) Evonik Operations GmbH
(31) 18202049	(47) 06.12.2023	(72) Spyrou, Emmanouil
(32) 23.10.2018	(87) CN2018098375	Diesveld, Andrea
(33) European Patent Office (EPO)	06.02.2020	Kreischer, Susanne
(51) C08G 18/48	(22) 02.08.2018	Loesch, Holger
C08G 18/67	(54) METHODS FOR REDUCING ALDEHYDE EMISSIONS IN POLYURETHANE FOAMS	(31) 18172951
C08G 18/75	(73) Dow Global Technologies LLC	(32) 17.05.2018
C09D 175/16	(72) TANG, Zhengming	(33) European Patent Office (EPO)
(11) EP3320008	ZOU, Jian	(51) C08G 59/64
(21) EP16733588.4	FENG, Shaoguang	C08K 7/02
(47) 06.12.2023	SASAKI, Yuji	C08K 7/14
(87) EP2016065391	CHEN, Hongliang	(11) EP3559077
12.01.2017	LI, Haiying	(21) EP17757955.4
(22) 30.06.2016	ZHANG, Degang	(47) 06.12.2023
(54) NOVEL URETHANE BASED MATERIALS, DERIVATIVES, METHODS OF THEIR PREPARATION AND USES	ZHANG, Ping	(87) US2017045741
(73) Universiteit Gent	(51) C08G 18/67	28.06.2018
Allnex Belgium S.A.	C08G 18/10	(22) 07.08.2017
(72) DUBRUEL, Peter	C08G 18/32	(54) N-HYDROXYL ETHYL PIPERIDINE (NHEP): A NOVEL CURING AGENT FOR EPOXY SYSTEMS
VAN VLIERBERGHE, Sandra	C08G 18/65	(73) Evonik Operations GmbH
Houben, Annemie	C08G 18/76	(72) PATEL, Pritesh G.
VAN DEN BERGEN, Hugues	A61L 31/04	LAI, Gauri Sankar
ROOSE, Patrice	(11) EP3670561	LA COMARE, Douglas M.
BONTINCK, Dirk	(21) EP20151066.6	(31) 201662437440 P
(31) 16161224	(47) 06.12.2023	(32) 21.12.2016
15175956	(22) 12.01.2010	(33) United States of America
(32) 18.03.2016	(54) POLYISOBUTYLENE-BASED POLYURETHANES	(51) C08G 59/68
08.07.2015	(73) UNIVERSITY OF MASSACHUSETTS	C08G 59/72
(33) European Patent Office (EPO)	LOWELL	(11) EP3774985
European Patent Office (EPO)	(72) FAUST, Rudolf	(21) EP19711124.8
(51) C08G 18/50	OJHA, Umpraprasana	(47) 06.12.2023
B32B 7/12	(31) 279629 P	(87) EP2019057053
B32B 27/40	211310 P	10.10.2019
C08G 18/32	204856 P	(22) 21.03.2019
C08G 18/40	(32) 23.10.2009	(54) ACCELERATOR COMPOSITION FOR THE CURE OF EPOXY RESINS WITH AROMATIC AMINES
C09J 175/00	26.03.2009	(73) Huntsman Advanced Materials Licensing (Switzerland) GmbH
C09J 175/02	12.01.2009	(72) STORZ, Christof
B65D 75/00	(33) United States of America	(31) 18165724

(32) 04.04.2018	14.05.2021	(22) 31.08.2020
(33) European Patent Office (EPO)	(22) 05.11.2020	(54) POLYAMIDEIMIDE RESIN, RESIN COMPOSITION, AND SEMICONDUCTOR DEVICE
(51) C08G 65/00	(54) BLEND OF POLYARYLEETHER KETONE COPOLYMER	(73) Resonac Corporation
C08G 65/331	(73) Solvay Specialty Polymers USA, LLC.	(72) HASHIMOTO Gaku
C10M 107/38	(72) RICH, Jason	TAKEMORI Daichi
(11) EP3810675	EL-HIBRI, Mohammad, Jamal	SATOH Eiichi
(21) EP19730807.5	(31) 201962932739 P	SATO Mizuki
(47) 06.12.2023	(32) 08.11.2019	(31) 2019163154
(87) EP2019066155	(33) United States of America	(32) 06.09.2019
26.12.2019	(51) C08G 69/24	(33) Japan
(22) 19.06.2019	C08G 69/20	(51) C08G 73/18
(54) (PER)FLUOROPOLYETHER POLYMERS	(11) EP4059989	(11) EP3004213
(73) Solvay Specialty Polymers Italy S.p.A.	(21) EP20888177.1	(21) EP14806930.5
(72) MONZANI, Cristiano	(47) 06.12.2023	(47) 06.12.2023
GALIMBERTI, Marco	(87) JP2020039787	(87) US2014040590
TORTELLI, Vito	20.05.2021	11.12.2014
(31) 18178895	(22) 22.10.2020	(22) 03.06.2014
(32) 20.06.2018	(54) METHOD FOR PRODUCING POLYAMIDE, AND POLYAMIDE	(54) METHOD OF MAKING POLYBENZIMIDAZOLE
(33) European Patent Office (EPO)	(73) Kureha Corporation	(73) PBI Performance Products, Inc.
(51) C08G 65/00	(72) MASAKI, Takashi	(72) BENICEWICZ, Brian, C.
C08G 65/40	SUZUKI, Yoshinori	GULLEDGE, Alexander, Lanier
C08G 75/00	(31) 2019204118	STECKLE, Jr., Warren, P.
C08G 75/23	(32) 11.11.2019	COPELAND, Gregory, S.
C08L 81/06	(33) Japan	DAWKINS, Bobby, G.
(11) EP3587470	(51) C08G 69/44	(31) 201414293211
(21) EP18198174.7	C08L 77/12	201361830869 P
(47) 06.12.2023	C08L 91/00	(32) 02.06.2014
(22) 02.10.2018	A61K 8/92	04.06.2013
(54) SEMICRYSTALLINE POLYPHENYLSULFONE AND ASSOCIATED METHOD OF MAKING AND METHOD OF ADDITIVE MANUFACTURING	A61K 8/88	(33) United States of America
(73) SHPP Global Technologies B.V.	A61K 47/14	United States of America
(72) MILOSKOVSKA, Elena	A61K 47/34	(51) C08G 77/04
JOFORE, Bruke	A61K 47/42	C09K 5/10
GALLUCCI, Robert Russell	A61Q 19/00	F24S 80/20
(31) 201862690453 P	C08G 69/26	(11) EP4087894
(32) 27.06.2018	C08G 63/06	(21) EP21702755.6
(33) United States of America	A61K 9/06	(47) 06.12.2023
(51) C08G 65/336	A61K 47/44	(87) US2021012026
C09D 5/16	(11) EP4045566	15.07.2021
C09D 171/00	(21) EP20799786.7	(22) 04.01.2021
C09K 3/18	(47) 06.12.2023	(54) BRANCHED POLYSILOXANES AND METHODS FOR THEIR PREPARATION AND USE AS HEAT TRANSFER FLUIDS
(11) EP3950777	(87) FR2020051849	(73) Dow Silicones Corporation
(21) EP20782206.5	22.04.2021	Dow Global Technologies LLC
(47) 06.12.2023	(22) 15.10.2020	(72) CHENG, Yang
(87) JP2020013783	(54) BIOSOURCED GELLING POLYAMIDES	ZHOU, Xiaoyuan
08.10.2020	(73) Polymerexpert SA	JOFFRE, Eric
(22) 26.03.2020	(72) DOLATKHANI, Marc	FERRITTO, Mike
(54) FLUOROPOLYETHER GROUP-INCLUDING COMPOUND	LUTZ, Eric	LIU, Nanguo
(73) DAIKIN INDUSTRIES, LTD.	HECHT, Marie Odile	LANG, Christoph
(72) YAMASHITA, Tsuneo	SISCAN, Olga	CUTHBERT, John
MITSUHASHI, Hisashi	SALVADO, Victor	(31) 202062958889 P
MAEHIRA, Takeshi	PAGNOUX, Anne	(32) 09.01.2020
MOTONARI, Yoshimi	(31) 1911530	(33) United States of America
(31) 2019066338	(32) 16.10.2019	(51) C08G 77/12
(32) 29.03.2019	(33) France	C08G 77/20
(33) Japan	(51) C08G 73/14	C08L 83/04
(51) C08G 65/40	H01L 23/29	C09D 183/04
C08L 71/00	H01L 23/31	C09J 7/40
C08L 81/06	C08L 79/08	C08G 77/06
(11) EP4055082	C08G 73/10	C08G 77/08
(21) EP20803524.6	C09D 179/08	C08G 77/00
(47) 06.12.2023	H01L 23/495	(11) EP4069765
(87) EP2020081214	(11) EP4026867	(21) EP20828916.5
	(21) EP20861575.7	(47) 06.12.2023
	(47) 06.12.2023	
	(87) JP2020032883	
	11.03.2021	

(87) US2020062833 10.06.2021	(72) HAMPSON, Carl KHAN, Ferdous	(32) 28.02.2017 (33) Japan
(22) 02.12.2020	(31) 201519188	(51) C08J 11/12
(54) COMPOSITION FOR PREPARING A RELEASE COATING	(32) 30.10.2015 (33) United Kingdom	(11) EP4045580 (21) EP20792358.2
(73) Dow Silicones Corporation	(51) C08J 5/22	(47) 06.12.2023
(72) CHEVALIER, Pierre NIU, Zhenbin NG, Sze-Sze GROFILS, Sébastien DEHLIN, Lori DUJARDIN, Deana KNOTT, Alex RICH, David BEKEMEIER, Thomas MITCHELL, Timothy P. AHN, Dongchan	(37) C08J 3/07 H01M 50/403 H01M 50/417 H01M 50/489 C08J 3/09 C08L 101/02 H01M 8/18	(47) EP2020078707 22.04.2021 (22) 13.10.2020 (54) METHOD OF PRODUCING STYRENE MONOMERS BY DEPOLYMERIZATION OF A STYRENE-COPOLYMER- CONTAINING POLYMER MASS
(31) 201962942679 P	(11) EP3689949	(73) INEOS Styrolution Group GmbH
(32) 02.12.2019	(21) EP19806690.4	(72) NIESSNER, Norbert
(33) United States of America	(47) 06.12.2023 (87) KR2019004990	(72) WILHELMUS, Bianca COCHRAN, Thomas W.
(51) C08G 77/26 C07F 7/21 C08L 83/04 C08G 73/06	(28) 28.11.2019 (22) 25.04.2019	(31) 19203427 (32) 15.10.2019 (33) European Patent Office (EPO)
(11) EP4153658	(54) RESIN COMPOSITION FOR MANUFACTURING SEPARATOR, PREPARATION METHOD THEREFOR, AND BATTERY COMPRISING SAME	(51) C08K 3/26 C08K 3/36 C08K 5/19 C08K 5/50
(21) EP20745138.6	(73) LG CHEM, LTD.	(11) EP4079800
(47) 06.12.2023	(72) KIM, Sungyeon	(21) EP22167550.7
(87) EP2020070520	NOH, Tae Geun	(47) 06.12.2023
27.01.2022	(31) 20180059724	(22) 11.04.2022
(22) 21.07.2020	(32) 25.05.2018	(54) ELECTROPHOTOGRAPHIC MEMBER AND ELECTROPHOTOGRAPHIC IMAGE FORMING APPARATUS
(54) CROSS-LINKABLE ORGANOSILOXANE-MODIFIED REACTION RESINS	(33) Korea (Republic)	(73) CANON KABUSHIKI KAISHA
(73) Wacker Chemie AG	(51) C08J 5/24 B29C 39/10 C08G 59/50	(72) TAKENAGA, Masahiro BABA, Yusuke
(72) OSTENDORF, Detlev	(11) EP3819331	(31) 2022039155 2021067255
(51) C08J 3/09 C08J 3/14 C08J 9/28	(21) EP19831456.9	(32) 14.03.2022 12.04.2021
(11) EP3230347	(47) 06.12.2023	(33) Japan Japan
(21) EP16820206.7	(87) JP2019023849	(51) C08K 5/00 C08J 3/20 C08L 23/06 B65D 65/38 B65D 65/46 B65D 77/00
(47) 06.12.2023	09.01.2020	(11) EP3861062
(87) EP2016080993	(22) 17.06.2019	(21) EP19869774.0
22.06.2017	(54) EPOXY RESIN COMPOSITION FOR FIBER-REINFORCED COMPOSITE MATERIAL, FIBER-REINFORCED COMPOSITE MATERIAL, AND PRODUCTION METHOD THEREFOR	(47) 06.12.2023 (87) DK2019050294
(22) 14.12.2016	(73) Toray Industries, Inc.	09.04.2020
(54) POLYMER COMPOSITION FOR SELECTIVE SINTERING PROCESS	(72) HONDO, Kazunori TOMIOKA, Nobuyuki	(22) 02.10.2019
(73) Evonik Operations GmbH	(31) 2019002431	(54) PROCESS FOR PRODUCING A CARBON DIOXIDE NEUTRAL AND BIODEGRADABLE POLYMER AND PACKAGING PRODUCTS PRODUCED THEREOF
(72) DIEKMANN, Wolfgang GREBE, Maik BAUMANN, Franz-Erich CHRISTOPH, Wolfgang MONSHEIMER, Sylvia KÜTING, Beatrice	2018128729	(73) ECO Packaging APS (72) BØDTCHER-HANSEN, Mads
(31) 102015016131	(32) 10.01.2019	(31) PA201800669
(32) 14.12.2015	06.07.2018	(32) 03.10.2018
(33) Germany	(33) Japan Japan	(33) Denmark
(51) C08J 5/04 C08L 3/00 C08L 33/00	(51) C08J 9/04 C08J 9/06 C08J 9/10	(51) C08K 5/1515 C08K 5/42 C08K 7/06 C08K 7/14
(11) EP3368593	(11) EP3590996	(11) EP4077520
(21) EP16785539.4	(21) EP18761022.5	(21) EP20807781.8
(47) 06.12.2023	(47) 06.12.2023	
(87) EP2016075825	(87) JP2018007331	
04.05.2017	07.09.2018	
(22) 26.10.2016	(22) 27.02.2018	
(54) IMPROVED BINDER COMPOSITIONS AND USES THEREOF	(54) CROSSLINKED POLYVINYLIDENE FLUORIDE RESIN FOAM SHEET AND METHOD FOR PRODUCING SAME	
(73) Knauf Insulation SPRL	(73) Sekisui Chemical Co., Ltd.	
	(72) MUKOHATA, Daisuke SHIMONISHI, Koji	
	(31) 2017036984	

(47) 06.12.2023	LEE, Choong Hoon	(54) FORMULATION OF ELASTOMER
(87) EP2020082915	CHOI, Sung Ho	COPOLYMER AND BLOCK
24.06.2021	WOO, Ji Yoon	COPOLYMER
(22) 20.11.2020	KIM, Hyo Ju	(73) DOW GLOBAL TECHNOLOGIES LLC
(54) POLYCARBONATE COMPOSITIONS	(31) 20140011164	(72) TALREJA, Manish
CONTAINING FILLERS AND	20140011161	COGEN, Jeffrey M.
TRIACYLGLYCEROL CONTAINING	20130130503	YU, Haiyang
EPOXY GROUPS	(32) 29.01.2014	MUNRO, Jeffrey C.
(73) Covestro Intellectual Property GmbH &	29.01.2014	MADENJIAN, Lisa S.
Co. KG	30.10.2013	GILL, Susan R.
(72) HEUER, Helmut, Werner	(33) Korea (Republic)	<hr/>
WEHRMANN, Rolf	Korea (Republic)	(51) C08L 23/10
BOUMANS, Anke	Korea (Republic)	C08K 5/00
(31) 19216962	<hr/>	C08K 5/14
(32) 17.12.2019	(51) C08L 23/06	C08L 23/12
(33) European Patent Office (EPO)	D01F 6/46	C08L 23/16
<hr/>	B33Y 70/00	(11) EP3868824
(51) C08K 5/3465	B33Y 10/00	(21) EP21168883.3
C08L 83/14	B29C 64/118	(47) 06.12.2023
C09D 183/14	C08L 53/00	(22) 17.12.2015
(11) EP3640289	D01D 5/00	(54) HETEROPHASIC PROPYLENE
(21) EP19195524.4	D01D 5/08	COPOLYMER
(47) 06.12.2023	B33Y 80/00	(73) SABIC Global Technologies B.V.
(22) 05.09.2019	(11) EP4041822	(72) REMERIE, Klaas
(54) PHOTOSENSITIVE RESIN	(21) EP20797007.0	STEENBAKKERS-MENTING, Henrica
COMPOSITION, PHOTOSENSITIVE	(47) 06.12.2023	Norberta Alberta Maria
DRY FILM, AND PATTERN FORMING	(87) US2020054499	VAN DER VEN, Maud
PROCESS	15.04.2021	(31) 14199422
(73) Shin-Etsu Chemical Co., Ltd.	(22) 07.10.2020	(32) 19.12.2014
(72) MARUYAMA, Hitoshi	(54) ADDITIVE MANUFACTURING USING	(33) European Patent Office (EPO)
(31) 2018193949	RECYCLED POLYOLEFINS WITH	<hr/>
(32) 15.10.2018	OLEFIN BLOCK COPOLYMERS AND	(51) C08L 23/12
(33) Japan	ARTICLES MADE THEREFROM	(11) EP3784734
<hr/>	(73) Dow Global Technologies LLC	(21) EP19728143.9
(51) C08L 9/02	(72) GORIN, Craig F.	(47) 06.12.2023
(11) EP4063448	LI, Jun	(87) JP2019018653
(21) EP22164381.0	THAKRE, Piyush	31.10.2019
(47) 06.12.2023	ZENG, Yongchao	(22) 25.04.2019
(22) 25.03.2022	(31) 201962913762 P	(54) POLYPROPYLENE COMPOSITION
(54) THERMOPLASTIC VULCANIZATES	(32) 11.10.2019	AND MOLDED ARTICLE
MADE OF THERMOPLASTIC	(33) United States of America	(73) Basell Poliolefine Italia S.r.l.
POLYURETHANE AND	<hr/>	(72) YOKOYAMA, Yutaka
CARBOXYLATED NITRILE BUTADIENE	(51) C08L 23/08	KAMIMURA, Akihiro
(73) Parker-Hannifin Corporation	C08K 5/521	KAJIOKA, Hiroshi
(72) JINDAL, Aditya	(11) EP3589692	(31) 2018087302
MALLAMACI, Michael P	(21) EP18710587.9	(32) 27.04.2018
WILSON, Taylor Lynn	(47) 06.12.2023	(33) Japan
WHITE, Damian Jacob	(87) US2018018903	<hr/>
(31) 202163287759 P	07.09.2018	(51) C08L 23/12
202163165926 P	(22) 21.02.2018	(11) EP3765566
(32) 09.12.2021	(54) ETHYLENE-ALPHA-OLEFIN	(21) EP19717621.7
25.03.2021	COPOLYMER-TRIALLYL PHOSPHATE	(47) 06.12.2023
(33) United States of America	COMPOSITION	(87) JP2019012287
United States of America	(73) Dow Global Technologies LLC	19.09.2019
<hr/>	(72) CHAUDHARY, Bharat I.	(22) 15.03.2019
(51) C08L 23/00	(31) 201762464409 P	(54) POLYPROPYLENE COMPOSITION
C08F 255/02	(32) 28.02.2017	AND MOLDED ARTICLE
C08F 210/16	(33) United States of America	(73) Basell Poliolefine Italia S.r.l.
H01L 23/29	<hr/>	(72) TSUKAHARA, Takeshi
H01L 33/52	(51) C08L 23/08	TSURUMI, Nobuyuki
C09J 123/08	C08L 23/14	KANNO, Shitoshi
C09J 123/16	C08J 3/24	YAMAMOTO, Kunio
(11) EP3053954	C08J 9/06	NAKAJIMA, Takeshi
(21) EP14856963.5	C08L 23/12	(31) 2018050025
(47) 06.12.2023	H01B 3/44	(32) 16.03.2018
(87) KR2014010307	(11) EP3519496	(33) Japan
07.05.2015	(21) EP16917099.0	<hr/>
(22) 30.10.2014	(47) 06.12.2023	(51) C08L 23/12
(54) MODIFIED OLEFIN RESIN	(87) CN2016100466	(11) EP4055102
(73) LG Chem, Ltd.	05.04.2018	(21) EP20707107.7
(72) GONG, Jin Sam	(22) 28.09.2016	(47) 06.12.2023
		(87) EP2020055425

14.05.2021	United States of America	(54) ACTINICALLY CURABLE ADHESIVE COMPOSITION WITH IMPROVED PROPERTIES
(22) 02.03.2020	(51) C08L 51/04	(73) Sun Chemical Corporation
(54) UPGRADED RECYCLED POLYOLEFIN	C08L 71/02	(72) ZHU, Xiaobo
(73) Borealis AG	C08L 55/02	ARCURIO, Ralph
(72) KAHLEN, Susanne	C08L 53/02	MATHEW, Mathew
BRAUN, Hermann	C08L 25/06	PARRIS, Juanita
LIU, Yi	(11) EP3412726	(31) 201762576824 P
ALBRECHT, Andreas	(21) EP17868566.5	(32) 25.10.2017
HUBNER, Gerhard	(47) 06.12.2023	(33) United States of America
(31) 19207479	(87) KR2017011883	(51) C08L 83/04
(32) 06.11.2019	17.05.2018	(11) EP3559117
(33) European Patent Office (EPO)	(22) 26.10.2017	(21) EP17812228.9
(51) C08L 23/22	(54) NON-HALOGEN FLAME-RETARDANT RESIN COMPOSITION	(47) 06.12.2023
C08L 23/28	(73) LG Chem, Ltd.	(87) US2017063589
(11) EP3519500	(72) YOO, Je Sun	28.06.2018
(21) EP17854294.0	NAM, Ki Young	(22) 29.11.2017
(47) 06.12.2023	HWANG, Yong Yeon	(54) CURABLE SILICONE COMPOSITION
(87) CA2017051149	SIM, Jae Young	(73) Dow Silicones Corporation
05.04.2018	BAE, Seon Hyeong	(72) YEAKLE, Craig
(22) 28.09.2017	BAE, Jae Yeon	KADLEC, Donald
(54) MULTI-MODAL POLYISOOLEFIN COMPOSITIONS AND PROCESSES THEREFOR	KIM, In Seok	MCDONALD, Joel P.
(73) Arlanxeo Singapore Pte. Ltd.	(31) 20170107355	(31) 201662436493 P
(72) GUO, Sharon	20160149369	(32) 20.12.2016
DAVIDSON, Gregory J. E.	(32) 24.08.2017	(33) United States of America
BINDER, Brianna	10.11.2016	(51) C08L 101/00
(31) 16191508	(33) Korea (Republic)	B29C 45/14
(32) 29.09.2016	Korea (Republic)	B29C 65/70
(33) European Patent Office (EPO)	(51) C08L 67/02	B32B 15/08
(51) C08L 25/16	C08L 67/04	B32B 27/18
C08L 33/02	(11) EP4032953	C08K 3/08
C08L 33/06	(21) EP22159669.5	C08K 3/40
(11) EP3805312	(47) 06.12.2023	C08L 67/00
(21) EP19201904.0	(22) 29.07.2016	C08L 77/00
(47) 06.12.2023	(54) THERMOFORMED ARTICLE	(11) EP3674368
(22) 08.10.2019	(73) Novamont S.p.A.	(21) EP18865018.8
(54) IMPACT MODIFIED COPOLYMERS OF (METH)ACRYLATE ESTERS AND/OR FREE RADICALLY POLYMERIZABLE MONOMERS CONTAINING NUCLEOPHILIC GROUPS	(72) Rallis, Angelos	(47) 06.12.2023
(73) Trinseo Europe GmbH	Nicolini, Matteo	(87) JP2018036641
(72) Balan, Abidin	(31) UB20152688	11.04.2019
(51) C08L 33/04	(32) 31.07.2015	(22) 01.10.2018
C08L 33/08	(33) Italy	(54) METAL RESIN COMPOSITE BODY, RESIN COMPOSITION AND METHOD FOR PRODUCING METAL RESIN COMPOSITE BODY
C09K 3/10	(51) C08L 71/02	(73) Mitsubishi Engineering-Plastics Corporation
C08K 13/02	C08K 3/34	(72) HIWATASHI, Yuki
C09D 5/02	C09D 7/61	YAMANAKA, Yasushi
C09D 201/00	C09D 171/02	UONO, Hiroyuki
C09D 133/04	(11) EP3739004	(31) 2017193246
C08L 101/00	(21) EP19738904.2	(32) 03.10.2017
C08L 21/02	(47) 06.12.2023	(33) Japan
(11) EP3797137	(87) JP2019000803	(51) C09B 23/01
(21) EP19826418.6	18.07.2019	A61K 31/337
(47) 06.12.2023	(22) 11.01.2019	A01N 43/02
(87) US2019027248	(54) CURABLE COMPOSITION AND COATING FILM WATERPROOFING AGENT	A61K 31/35
02.01.2020	(73) Sekisui Fuller Company, Ltd.	A61P 35/00
(22) 12.04.2019	(72) IKEUCHI Takuto	A61P 35/04
(54) ALL TEMPERATURE WATER BORNE SEALANT	(31) 2018003115	C07D 209/10
(73) Red Devil, Inc.	(32) 12.01.2018	C07D 405/14
(72) RASHID, Ali N.	(33) Japan	C07D 493/18
(31) 201916254969	(51) C08L 75/16	A61K 31/22
201862689680 P	C09J 4/00	A61K 31/282
(32) 23.01.2019	C08F 290/06	A61K 31/366
25.06.2018	(11) EP3700975	A61K 31/40
(33) United States of America	(21) EP18869703.1	A61K 31/704
	(47) 06.12.2023	A61K 31/7068
	(87) US2018057472	
	02.05.2019	
	(22) 25.10.2018	

A61K 31/505	(51) C09D 5/44	SATO, Noriaki
A61K 31/555	A61L 27/34	KOYAMA, Ichiro
A61K 33/243	A61L 31/10	(31) 2017034089
A61K 31/404	A61L 33/06	(32) 24.02.2017
A61K 31/4045	(11) EP3039087	(33) Japan
A61K 31/47	(21) EP14772238.3	(51) C09D 11/32
(11) EP3528805	(47) 06.12.2023	C04B 41/00
(21) EP17861447.5	(87) US2014052542	C04B 41/49
(47) 06.12.2023	05.03.2015	C04B 41/52
(87) US2017057765	(22) 25.08.2014	C04B 41/64
26.04.2018	(54) CONDUCTIVE POLYMERIC COATINGS,	C04B 41/71
(22) 21.10.2017	MEDICAL DEVICES, COATING	C09D 11/037
(54) SIMVASTATIN AND	SOLUTIONS AND METHODS	B28B 11/00
CHEMOTHERAPEUTIC CONJUGATES	(73) Heraeus Medical Components LLC	B28B 11/04
COMPRISING A HEPTAMETHINE	(72) HENDRICKS, Jeffrey L.	B41M 1/12
CARBOCYANINE DYE FOR	RICHARDSON-BURNS, Sarah M.	B41M 1/26
RESENSITISING HUMAN TUMORS	MALLIRES, Kyle	B41M 5/00
TO HORMONAL ANTAGONISTS AND	SPANNINGA, Sarah A.	(11) EP3630433
CHEMOTHERAPY	LOCKWOOD, Nathan A.	(21) EP18715681.5
(73) Cedars-Sinai Medical Center	HERGENROTHER, Robert W.	(47) 06.12.2023
(72) CHUNG, Leland W. K.	JELLE, Bruce M.	(87) EP2018058551
MRDENOVIC, Stefan	(31) 201361869749 P	06.12.2018
ZHANG, Yi	(32) 25.08.2013	(22) 04.04.2018
CHU, Gina Chia-Yi	(33) United States of America	(54) METHOD FOR PRODUCING A
WANG, Ruoxiang	(51) C09D 5/44	PRINTED CONCRETE ELEMENT
CHANG, Frank N.	C08F 8/32	(73) METTEN Stein + Design GmbH & Co.
TUSZYNSKI, George Paul	C08G 59/40	KG
(31) 201662410960 P	C09D 201/02	NANO-X GmbH
(32) 21.10.2016	C08K 5/25	(72) METTEN, Michael
(33) United States of America	(11) EP4045605	VOLMER, Guido
(51) C09D 4/06	(21) EP20804072.5	SEPEUR, Stefan
C09D 4/00	(47) 06.12.2023	MUTH, Alexandra
C09D 175/04	(87) US2020055930	(31) 102017005280
C09D 175/16	22.04.2021	(32) 02.06.2017
(11) EP4041830	(22) 16.10.2020	(33) Germany
(21) EP20781539.0	(54) CROSSLINKING COMPOSITIONS AND	(51) C09D 11/322
(47) 06.12.2023	COATINGS FORMED THEREFROM	C09D 11/326
(87) EP2020077499	(73) PPG Industries Ohio, Inc.	C09D 11/102
15.04.2021	(72) MACDONALD, Melissa Joan	C09D 11/36
(22) 01.10.2020	ZHENG, Qi	(11) EP4036180
(54) THERMALLY CURABLE TWO-	IBRAHIM, Abdulrahman Dawoud	(21) EP22154053.7
COMPONENT COATING COMPOUNDS	LEE, Se Ryeon	(47) 06.12.2023
(73) BASF SE	MIZUHARA, Tsukasa	(22) 28.01.2022
(72) ROSCHMANN, Konrad	GRENIER, Christophe René Gaston	(54) METAL PIGMENT COMPOSITION AND
PAULUS, Wolfgang	ESWARAKRISHNAN, Venkatachalam	COLORING METHOD
LUCAS, Frederic	(31) 201916655662	(73) Seiko Epson Corporation
NEUMANN, Susanne	(32) 17.10.2019	(72) KIDA, Hiroaki
WOERNER, Alexander, Constantin Felix	(33) United States of America	ASAI, Shintaro
(31) 19201855	(51) C09D 11/101	HIRUMA, Kei
(32) 08.10.2019	C09D 11/107	USHIYAMA, Tomoyuki
(33) European Patent Office (EPO)	C09D 11/30	NAKATANI, Mitsunobu
(51) C09D 5/00	C08F 2/48	TSUKADA, Kenta
(11) EP3864094	C08F 2/44	(31) 2021013533
(21) EP19786328.5	B41M 5/00	(32) 29.01.2021
(47) 06.12.2023	B41J 2/01	(33) Japan
(87) EP2019077444	C08F 265/06	(51) C09D 167/00
16.04.2020	C09D 4/06	(11) EP4085112
(22) 10.10.2019	B41M 7/00	(21) EP20841742.8
(54) TWO-PACK EPOXY PAINTS	(11) EP3587513	(47) 06.12.2023
WITH IMPROVED CORROSION	(21) EP18757797.8	(87) EP2020088016
PROTECTION	(47) 06.12.2023	08.07.2021
(73) Allnex Austria GmbH	(87) JP2018006317	(22) 30.12.2020
(72) HOBISCH, Gerald	30.08.2018	(54) CLEARCOAT COMPOSITIONS
FEOLA, Roland	(22) 21.02.2018	COMPRISING BRANCHED
BERNSTEINER, Iris	(54) PHOTO-CURABLE INK COMPOSITION	POLYESTERS IN ADDITIVE AMOUNTS
(31) 18200183	AND METHOD FOR FORMING IMAGE	AS FLOW ENHANCERS AND
(32) 12.10.2018	(73) FUJIFILM Corporation	LEVELLING AGENTS
(33) European Patent Office (EPO)	(72) SUZUKI, Shota	(73) BASF Coatings GmbH

(72) COLYER, Emerson, Keith RIHAN, Ali, A.	C09J 123/14 C08L 23/08 C08L 53/00	(47) 06.12.2023 (87) US2018016954 16.08.2018
(31) 19220076		(22) 06.02.2018
(32) 30.12.2019	(11) EP3635067	(54) DIGITAL PRINTED DUCT TAPE
(33) European Patent Office (EPO)	(21) EP18732202.9	(73) Shurtape Technologies, LLC
(51) C09D 167/08	(47) 06.12.2023	(72) FESTA, Daniel, Eric
C09F 9/00	(87) US2018033885 29.11.2018	KATHAL, Windy
(11) EP4073183	(22) 22.05.2018	KULKARNI, Ameet, Santosh
(21) EP20817359.1	(54) HOT MELT ADHESIVE COMPOSITION	WORLEY, David, Adam
(47) 06.12.2023	(73) H. B. Fuller Company	(31) 201715426726
(87) EP2020084848 17.06.2021	(72) EICHLER-JOHNSON, Beth KAUFFMAN, Thomas F.	(32) 07.02.2017
(22) 07.12.2020	WELTON, James E.	(33) United States of America
(54) TWO-COMPONENT SOLVENT-BASED COATING COMPOSITION	MICHEL, Andrew R.	(51) C09K 3/10 F16L 15/04
(73) Akzo Nobel Coatings International B.V.	(31) 201762509548 P	(11) EP3689997
(72) VAN GORKUM, Remy	(32) 22.05.2017	(21) EP20157593.3
BOSCH, Niels Aalfons Gerhard	(33) United States of America	(47) 06.12.2023
MEIJER, Michel Daniel	(51) C09J 123/08	(22) 18.12.2015
VERTEGAAL, Rudolphus Arnoldus Cornelis	C09J 123/14 C08L 23/08 C08L 23/14	(54) SEALANT MATERIAL
(31) 19214856	(11) EP3894504	(73) Henkel AG & Co. KGaA
(32) 10.12.2019	(21) EP19824016.0	(72) Prell, Anna Ledwidge, Eadaoin Deirdre
(33) European Patent Office (EPO)	(47) 06.12.2023	(31) 201500753
(51) C09J 5/06	(87) JP2019048070 18.06.2020	(32) 16.01.2015
C08J 5/12	(22) 09.12.2019	(33) United Kingdom
B32B 25/16	(54) HOT-MELT ADHESIVE	(51) C09K 3/12 C04B 37/02 C04B 37/00 H01M 4/38 H01M 10/39 H01M 50/186 H01M 50/191
B32B 25/20	(73) Henkel AG & Co. KGaA	(11) EP3058605
B32B 1/00	(72) TAKAMORI, Ai	(21) EP14853610.5
B32B 25/04	(31) 2018233576	(47) 06.12.2023
(11) EP4048752	(32) 13.12.2018	(87) US2014060979 23.04.2015
(21) EP20803759.8	(33) Japan	(22) 16.10.2014
(47) 06.12.2023	(51) C09J 175/06 C09J 175/08 C08G 18/48 C08G 18/76 C08G 18/10 C08G 18/22 C08G 18/28 C08G 18/42 C08G 18/78	(54) SEALS FOR HIGH TEMPERATURE REACTIVE MATERIAL DEVICES
(87) EP2020079703 29.04.2021	(11) EP3737726	(73) Ambri Inc.
(22) 22.10.2020	(21) EP19700181.1	(72) BRADWELL, David J. NAYAR, Hari THOMPSON, Greg CUI, Jianyi DEAK, David S. MCNELEY, Michael J. NELTNER, Brian TAYLOR, Darrell PUJARI, Vimal MODEST, Zachary T.
(54) PROCESS FOR THE MANUFACTURE OF EPDM-SILICONE HYBRID PRODUCTS	(47) 06.12.2023	(31) 201461930298 P 201361891789 P 201361891784 P
(73) Trelleborg Sealing Profiles Sweden AB	(87) EP2019050498 18.07.2019	(32) 22.01.2014 16.10.2013 16.10.2013
(72) BJÖRKQVIST, Markku	(22) 10.01.2019	(33) United States of America United States of America United States of America
(31) 20169542	(54) POLYURETHANE COMPRISING FORMULATIONS WITH ISOCYANATE FUNCTIONALITY	(51) C09K 5/04 F25B 7/00 F25B 9/00
19204473	(73) Huntsman International LLC	(11) EP4077580
(32) 15.04.2020	(72) HOLVOET, Servaas	(21) EP20841762.6
22.10.2019	RITS, Andreas	(47) 06.12.2023
(33) European Patent Office (EPO)	MANGELSCHOTS, Nicole	(87) IB2020062008
European Patent Office (EPO)	BEYENS, Machteld	
(51) C09J 7/38	(31) 18151001	
G06F 1/16	(32) 10.01.2018	
H10K 50/844	(33) European Patent Office (EPO)	
H10K 77/10	(51) C09J 201/00 C09D 4/00 C09D 11/101 C09D 11/322 C09J 7/21 C09J 7/29	
(11) EP3633004	(11) EP3580295	
(21) EP19195826.3	(21) EP18750690.2	
(47) 06.12.2023		
(22) 06.09.2019		
(54) PROTECTION FILM AND ELECTRONIC DEVICE INCLUDING THE SAME		
(73) Samsung Display Co., Ltd		
(72) Oh, Young Eun		
Shin, Jai Ku		
Ryou, Han Sun		
Ahn, So Dam		
Lee, Jang Doo		
(31) 20180112073		
(32) 19.09.2018		
(33) Korea (Republic)		
(51) C09J 123/08		
C09J 123/12		

- 24.06.2021
(22) 16.12.2020
(54) REFRIGERANT
(73) Angelantoni Test Technologies S.R.L., in short ATT S.R.L.
(72) PARRABBI, Patrizio
CAPODAGLIO, Filippo
CATANZANI, Lorenzo
(31) 20200008800
201900024174
(32) 23.04.2020
16.12.2019
(33) Italy
Italy
-
- (51) C09K 9/02
(11) EP4081610
(21) EP19829649.3
(47) 06.12.2023
(87) EP2019087070
01.07.2021
(22) 27.12.2019
(54) CURABLE PHOTOCROMIC
COMPOSITION INCLUDING A
SEGMENTED POLYMER
(73) Transitions Optical, Ltd.
(72) ROBINSON, Stephen G.
TAYLOR, Cathy A.
-
- (51) C09K 11/02
C09K 11/70
C09K 11/88
G02F 1/00
(11) EP4073202
(21) EP21702550.1
(47) 06.12.2023
(87) US2021012252
15.07.2021
(22) 06.01.2021
(54) ROHS COMPLIANT QUANTUM DOT
FILMS
(73) Shoen Chemical Inc.
(72) LEE, Ernest
LUO, ZhongSheng
(31) 202062957419 P
(32) 06.01.2020
(33) United States of America
-
- (51) C10L 3/08
C10L 5/44
(11) EP3739023
(21) EP20165170.0
(47) 06.12.2023
(22) 24.03.2020
(54) METHOD FOR THE MANUFACTURE
OF SOLID FUEL FROM BIOMASS
(73) getproject GmbH & Co. KG
(72) Götzt, Johann
(31) 102019112561
(32) 14.05.2019
(33) Germany
-
- (51) C10M 161/00
(11) EP3839020
(21) EP20204852.6
(47) 06.12.2023
(22) 30.10.2020
(54) METHOD FOR MANUFACTURING OIL
GEL CAPSULES AND METHOD FOR
MANUFACTURING CONTACT PART
FOR VEHICLE, INCLUDING OIL GEL
CAPSULES
- (73) Hyundai Motor Company
Kia Corporation
Sahmyook University Industry-Academic
Cooperation Foundation
(72) AN, Jeong-Uk
LEE, Hong-Wook
LYO, In-Woong
YEO, Kyung-Ku
WANG, Do-Young
AN, Ju-Yeong
PARK, Myoung-Hwan
PARK, Yu-Ri
(31) 20190168352
(32) 16.12.2019
(33) Korea (Republic)
-
- (51) C10M 163/00
C10M 161/00
C10M 169/04
(11) EP3196278
(21) EP15842968.8
(47) 06.12.2023
(87) JP2015076808
24.03.2016
(22) 18.09.2015
(54) LUBRICATING OIL COMPOSITION AND
METHOD FOR MANUFACTURING SAID
LUBRICATING OIL COMPOSITION
(73) Idemitsu Kosan Co., Ltd
(72) TAMURA, Kazushi
(31) 2014191905
(32) 19.09.2014
(33) Japan
-
- (51) C10M 173/02
C10N 30/12
C10N 40/08
(11) EP4127118
(21) EP21716197.5
(47) 06.12.2023
(87) EP2021058734
07.10.2021
(22) 01.04.2021
(54) WATER-GLYCOL HYDRAULIC
FLUID COMPOSITION AND
SUPPLEMENTARY ADDITIVE
THEREFOR
(73) Shell Internationale Research
Maatschappij B.V.
(72) KANEKO, Hiroshi
(31) 2020067578
(32) 03.04.2020
(33) Japan
-
- (51) C11D 3/00
C11D 3/37
C11D 11/00
C08G 18/28
C08G 18/32
C08G 18/34
C08G 18/48
C08G 18/66
C08G 18/72
C08G 18/75
C08G 18/76
(11) EP4077612
(21) EP20841817.8
(47) 06.12.2023
(87) US2020065322
24.06.2021
(22) 16.12.2020
- (54) REDEPOSITION INHIBITING
POLYMERS AND DETERGENT
COMPOSITIONS CONTAINING SAME
(73) Lubrizol Advanced Materials, Inc.
(72) RADERS, Steven M.
ZHU, Yunpeng
HAKIM, Nima
NAGORSKI, Janean
(31) 201962950456 P
(32) 19.12.2019
(33) United States of America
-
- (51) C11D 3/22
C11D 3/37
C11D 17/00
(11) EP3519543
(21) EP17778154.9
(47) 06.12.2023
(87) US2017053152
05.04.2018
(22) 25.09.2017
(54) DETERGENT BARS
(73) Dow Global Technologies LLC
(72) NAD, Saugata
RAO, Ravi
KRASNANSKY, Robert
(31) 201611033456
(32) 30.09.2016
(33) India
-
- (51) C11D 3/48
C11D 11/00
C11D 3/39
C11D 3/04
C11D 7/06
(11) EP3642318
(21) EP18740464.5
(47) 06.12.2023
(87) US2018038976
27.12.2018
(22) 22.06.2018
(54) BLEACHING USING PEROXYFORMIC
ACID AND AN OXYGEN CATALYST
(73) Ecolab USA, Inc.
(72) LANG, Jason
CREW, Benjamin
FAST, Jonathan P.
BECKER, Angela
LUNDBERG, Steven
(31) 201762523360 P
(32) 22.06.2017
(33) United States of America
-
- (51) C11D 17/00
C11D 17/06
(11) EP3472297
(21) EP16905780.9
(47) 06.12.2023
(87) CN2016086557
28.12.2017
(22) 21.06.2016
(54) AESTHETIC PARTICLES
(73) The Procter & Gamble Company
(72) SCHAMP, Koen Mariette Albert
ZHAO, Pu
-
- (51) C12G 1/00
B67C 3/02
B65D 17/00
(11) EP3447115
(21) EP18191084.5
(47) 06.12.2023

(22) 26.03.2012	(32) 29.09.2015	(73) Board of Trustees of Michigan State University
(54) WINE PACKAGED IN ALUMINIUM CONTAINERS	(33) France	(72) HOWE, Gregg A.
(73) Intelligent Packaging Pty Ltd.	(51) C12N 5/077	CAMPOS, Marcelo
(72) Barics, Steven John Anthony	C12M 1/32	YOSHIDA, Yuki
Stokes, Gregory John Charles	(11) EP4045632	(31) 201662379773 P
(31) 2011905410	(21) EP20804609.4	(32) 26.08.2016
(32) 23.12.2011	(47) 06.12.2023	(33) United States of America
(33) Australia	(87) FR2020051878	
(51) C12M 1/00	22.04.2021	(51) C12N 15/82
(11) EP3781664	(22) 19.10.2020	C07K 14/47
(21) EP19718362.7	(54) METHOD FOR OBTAINING CELL SPHEROIDS	(11) EP3684936
(47) 06.12.2023	(73) D.I.V.A Expertise	(21) EP18782634.2
(87) EP2019059938	(72) KEOPHIPHATH, Mayoura	(47) 06.12.2023
24.10.2019	BELLES, Chloé	(87) CZ2018050048
(22) 17.04.2019	GOMES, Aurélie	21.03.2019
(54) CELL SEPARATION CHAMBER AND CELL SEPARATION SYSTEM AND METHOD	NORLUND, Marine	(22) 12.09.2018
(73) Aglaris Ltd	(31) 1911597	(54) METHOD OF PRODUCTION OF BARLEY PLANTS PRODUCING ANTIMICROBIAL PEPTIDES
(72) HORNA TOMÁS, David	(32) 17.10.2019	(73) Usovsko A.S.
COSTA FERRANDO, Miquel	(33) France	Univerzita Palackého v Olomouci
(31) 18168257	(51) C12N 9/00	(72) HOLASKOVA, Edita
(32) 19.04.2018	C12N 9/96	FREBORT, Ivo
(33) European Patent Office (EPO)	G01N 33/53	MILEK, Jiri
(51) C12M 1/34	G01N 33/574	(31) 20170553
G01N 21/64	A61P 37/04	(32) 18.09.2017
G06T 7/00	C07K 16/28	(33) Czech Republic
B01L 3/00	C07K 16/46	(51) C12P 7/06
B01L 7/00	C07K 16/08	G16C 20/10
(11) EP3310935	C07K 16/12	(11) EP4077693
(21) EP16815096.9	C07K 16/00	(21) EP20830175.4
(47) 06.12.2023	A61K 39/395	(47) 06.12.2023
(87) US2016038152	A61P 29/00	(87) EP2020086672
29.12.2016	A61P 37/00	24.06.2021
(22) 17.06.2016	A61P 37/02	(22) 17.12.2020
(54) DEVICE FOR ANALYZING A FLUID SAMPLE AND USE OF TEST CARD WITH SAME	A61P 37/06	(54) METHOD AND SYSTEM FOR PREDICTION OF A PERFORMANCE OF A STRAIN IN A PLANT
(73) FluxErgy, Inc.	A61P 43/00	(73) DSM IP Assets B.V.
(72) REVILLA, Ryan	(11) EP3484514	(72) FOLCH FORTUNY, Abel
HELTSLEY, Roy	(21) EP17803463.3	(31) 19218043
LEE, Steve, Hoe	(47) 06.12.2023	(32) 19.12.2019
IZADI KHARAZI, Farzad	(87) US2017034084	(33) European Patent Office (EPO)
PATEL, Tej	30.11.2017	(51) C12Q 1/00
(31) 201562187471 P	(22) 23.05.2017	G01N 33/543
201562182992 P	(54) COMPOSITIONS AND METHODS RELATED TO ENGINEERED FC CONSTRUCTS	(11) EP3363910
(32) 01.07.2015	(73) Momena Pharmaceuticals, Inc.	(21) EP17156652.4
22.06.2015	(72) BOSQUES, Carlos J.	(47) 06.12.2023
(33) United States of America	LANSING, Jonathan C.	(22) 17.02.2017
United States of America	ORTIZ, Daniel	(54) CONTINUOUS ANALYTE MONITORING ELECTRODE WITH CROSSLINKED ENZYME
(51) C12N 5/074	RUTITZKY, Laura	(73) Roche Diabetes Care GmbH
C12N 5/071	WASHBURN, Nathaniel, J.	(72) FUERST, Angelika
A61K 35/36	(31) 201762443451 P	KAMMERER, Daniel
A61P 17/14	201662340322 P	MISCHLER, Reinhold
A61P 43/00	(32) 06.01.2017	(51) C12Q 1/04
(11) EP3356518	23.05.2016	(11) EP3841214
(21) EP16777637.6	(33) United States of America	(21) EP19759022.7
(47) 06.12.2023	United States of America	(47) 06.12.2023
(87) EP2016073127	(51) C12N 15/82	(87) GB2019052382
06.04.2017	(11) EP3504334	27.02.2020
(22) 28.09.2016	(21) EP17761766.9	(22) 23.08.2019
(54) USE OF MATRIX CELLS FOR PREPARING A MICRO HAIR FOLLICLE	(47) 06.12.2023	(54) CHARCOAL-FREE CULTURE MEDIA FOR LEGIONELLA
(73) L'OREAL	(87) US2017048660	(73) Secretary of State for Health and Social Care
(72) BAKKAR, Khalid	01.03.2018	(72) CHALKER, Victoria Jane
COLLIN-DJANGONE, Christine	(22) 25.08.2017	
(31) 1559186	(54) TRANSCRIPTION FACTORS TO IMPROVE RESISTANCE TO ENVIRONMENTAL STRESS IN PLANTS	

SPILLER, Owen Brad	C12N 1/06	(51) C12Q 1/68
PORTAL, Edward	C12N 1/20	G01N 33/574
(31) 201813884	C12N 15/10	C12Q 1/6886
(32) 24.08.2018	C12Q 1/689	C12Q 1/6883
(33) United Kingdom	(11) EP3280821	G16B 20/00
(51) C12Q 1/26	(21) EP16777164.1	(11) EP3899018
C12Q 1/32	(47) 06.12.2023	(21) EP19898588.9
G01N 27/327	(87) US2016026140	(47) 06.12.2023
C12Q 1/00	13.10.2016	(87) CN2019126565
(11) EP3292398	(22) 06.04.2016	25.06.2020
(21) EP16720530.1	(54) DETECTION OF ONE OR MORE	(22) 19.12.2019
(47) 06.12.2023	PATHOGENS	(54) CELL-FREE DNA END
(87) GB2016051233	(73) Polyskope Labs	CHARACTERISTICS
03.11.2016	(72) ZEGRATI, Cyrus Cody	(73) The Chinese University Of Hong Kong
(22) 28.04.2016	CENTOLA, Michael Benjamin	Grail, Inc.
(54) ELECTROCHEMICAL TEST DEVICE	GRAMLING, JR., Bobby Alfonso	(72) LO, Yuk-Ming Dennis
(73) Inside Biometrics International Limited	SMITH, Paul Simon	CHIU, Rossa Wai Kwun
(72) CARDOSI, Marco	(31) 201562239105 P	CHAN, Kwan Chee
KIRKWOOD, Stephanie	201562144294 P	JIANG, Peiyong
BASKEYFIELD, Damian	(32) 08.10.2015	CHAN, Wing Yan
(31) 201507510	07.04.2015	SUN, Kun
(32) 30.04.2015	(33) United States of America	(31) 201862782316 P
(33) United Kingdom	United States of America	(32) 19.12.2018
(51) C12Q 1/68	(51) C12Q 1/68	(33) United States of America
(11) EP3956464	C12Q 1/6851	(51) C12Q 1/68
(21) EP20723791.8	G16B 25/00	G01N 33/574
(47) 06.12.2023	C12Q 1/686	G01N 33/50
(87) EP2020060517	(11) EP3390665	C12Q 1/6876
22.10.2020	(21) EP16876046.0	C12Q 1/6886
(22) 15.04.2020	(47) 06.12.2023	(11) EP3695005
(54) IN VITRO METHOD FOR THE	(87) KR2016014715	(21) EP18867280.2
DIAGNOSIS OR PROGNOSIS OF	22.06.2017	(47) 06.12.2023
COLORECTAL CANCER OR A PRE-	(22) 15.12.2016	(87) US2018055451
CANCEROUS STAGE THEREOF	(54) SIGNAL EXTRACTION FOR A TARGET	18.04.2019
(73) Servizo Galego De Saúde	NUCLEIC ACID SEQUENCE	(22) 11.10.2018
Fundación Instituto de Investigación	(73) Seegene, Inc.	(54) ANTI-MITOCHONDRIAL INHIBITORS
Sanitaria de Santiago de Compostela	(72) CHUN, Jong Yoon	FOR ONCOGENIC RAS AND MYC
(72) DÍAZ LAGARES, Ángel	LEE, Yong Jo	(73) Lunella Biotech, Inc.
LÓPEZ LÓPEZ, Rafael	LEE, Han Bit	(72) LISANTI, Michael P.
CRUJEIRAS MARTÍNEZ, Ana Belén	(31) 20150178868	SOTGIA, Federica
RODRÍGUEZ CASANOVA, Aitor	(32) 15.12.2015	(31) 201762570970 P
(31) 19382290	(33) Korea (Republic)	(32) 11.10.2017
(32) 15.04.2019	(51) C12Q 1/68	(33) United States of America
(33) European Patent Office (EPO)	G01N 21/64	(51) C12Q 1/6806
(51) C12Q 1/68	C12Q 1/6851	C12Q 1/6816
(11) EP3967770	G16B 40/10	(11) EP3174993
(21) EP21199918.0	(11) EP3739059	(21) EP15828133.7
(47) 06.12.2023	(21) EP19743502.7	(47) 06.12.2023
(22) 15.10.2014	(47) 06.12.2023	(87) US2015042559
(54) METHODS RELATING TO	(87) CN2019072974	04.02.2016
CIRCULATING TUMOR CELL	01.08.2019	(22) 29.07.2015
CLUSTERS AND THE TREATMENT OF	(22) 24.01.2019	(54) PROBE LIBRARY CONSTRUCTION
CANCER	(54) DETECTION INSTRUMENT FOR	(73) President and Fellows of Harvard
(73) THE GENERAL HOSPITAL	DIGITAL PCR AND QUANTITATIVE	College
CORPORATION	DETECTION METHOD FOR DIGITAL	(72) ZHUANG, Xiaowei
(72) ACETO, Nicola	PCR	MOFFITT, Jeffrey R.
HABER, Daniel Arie	(73) Sniper (Suzhou) Life Technology Co.,	BOETTIGER, Alistair
MAHESWARAN, Shyamala	LTD	(31) 201562142653 P
(31) 201361918923 P	(72) SHENG, Guangji	201462050636 P
201361908236 P	(31) 201811392278	201462031062 P
201361893397 P	201810932950	(32) 03.04.2015
(32) 20.12.2013	201810070377	15.09.2014
25.11.2013	(32) 21.11.2018	30.07.2014
21.10.2013	16.08.2018	(33) United States of America
(33) United States of America	24.01.2018	United States of America
United States of America	(33) China	United States of America
United States of America	China	(51) C12Q 1/6806
(51) C12Q 1/68	China	C12Q 1/6855

(11) EP4048812	HAN, Hui	(31) 201662345081 P
(21) EP20807975.6	PARK, Sang, Ryul	(32) 03.06.2016
(47) 06.12.2023	(31) 201361920244 P	(33) United States of America
(87) US2020057189	(32) 23.12.2013	(51) C12Q 1/689
29.04.2021	(33) United States of America	C12Q 1/70
(22) 23.10.2020	(51) C12Q 1/6855	G01N 33/569
(54) METHODS FOR 3' OVERHANG REPAIR	C12Q 1/6834	(11) EP3365459
(73) Guardant Health, Inc.	(11) EP4038198	(21) EP16858264.1
(72) SHUM, Eleen	(21) EP20789689.5	(47) 06.12.2023
(31) 201962926093 P	(47) 06.12.2023	(87) US2016058031
(32) 25.10.2019	(87) IB2020059298	27.04.2017
(33) United States of America	08.04.2021	(22) 21.10.2016
(51) C12Q 1/6825	(22) 02.10.2020	(54) IMPROVED METHODS AND DEVICES
G01N 27/327	(54) METHOD	FOR ACCURATE DIAGNOSIS OF
G01N 33/543	(73) Stemnovate Limited	INFECTIONS
H01G 4/14	(72) SHARMA, Ruchi	(73) Rapid Pathogen Screening, Inc.
H01G 4/18	AKANDE, Femi	(72) SAMBURSKY, Robert P.
H01B 1/04	(31) 201914282	VANDINE, Robert W.
(11) EP3953491	(32) 03.10.2019	BABU, Uma Mahesh
(21) EP20787061.9	(33) United Kingdom	(31) 201615012897
(47) 06.12.2023	(51) C12Q 1/6876	201562245431 P
(87) US2020028004	(11) EP3741873	(32) 02.02.2016
15.10.2020	(21) EP18893435.0	23.10.2015
(22) 13.04.2020	(47) 06.12.2023	(33) United States of America
(54) POLYCYCLIC AROMATIC BRIDGES	(87) CN2018107801	United States of America
FOR MOLECULAR ELECTRONIC	04.07.2019	(51) C21B 5/00
SENSORS	(22) 27.09.2018	C21B 7/24
(73) Roswell Biotechnologies, Inc	(54) IDENTIFICATION OF WHITE LEGROMS	F27B 1/28
(72) MERRIMAN, Barry	RED-PLUCKING MUTAGENIC MUTANT	G01N 33/24
GEISER, Tim	GENOTYPE IN PINK SHELL LAYING	G01N 15/00
MOLA, Paul	HENS AND RED PLUCKING	G01N 15/06
RIDEOUT, Darryl	(73) BEIJING HUADU YUKOU POULTRY	F27D 19/00
(31) 201962833562 P	INDUSTRY CO., LTD.	F27D 21/02
(32) 12.04.2019	(72) WU, Guiqin	(11) EP3926056
(33) United States of America	YANG, Ning	(21) EP20784334.3
(51) C12Q 1/6827	SUN, Hao	(47) 06.12.2023
G16B 20/00	LI, Guangqi	(87) JP2020015327
(11) EP3882360	SUN, Congjiao	08.10.2020
(21) EP20192869.4	LI, Huani	(22) 03.04.2020
(47) 06.12.2023	LIU, Aiqiao	(54) POWDER RATE MEASURING METHOD
(22) 26.08.2020	(31) 201711489025	AND DEVICE
(54) GENOMIC SELECTION METHOD OF	(32) 29.12.2017	(73) JFE Steel Corporation
HUAXI CATTLE	(33) China	(72) TSUBOI, Toshiki
(73) Institute of Animal Sciences of Chinese	(51) C12Q 1/6883	YAMAHIRA, Naoshi
Academy of Agricultural Sciences	(11) EP3795700	(31) 2019073085
(72) LI, Junya	(21) EP19198343.6	(32) 05.04.2019
ZHU, Bo	(47) 06.12.2023	(33) Japan
GAO, Huijiang	(22) 19.09.2019	(51) C21D 1/19
GAO, Xue	(54) METHOD FOR IDENTIFYING	C21D 1/20
ZHANG, Lupei	AN EARLY STAGE OF A	C21D 1/25
XU, Lingyang	CARDIOMYOPATHY	C22C 38/00
CHEN, Yan	(73) IKDT Institut Kardiale Diagnostik und	B21B 1/38
CAI, Wentao	Therapie GmbH	C21D 8/02
(31) 202010192316	(72) Schultheiss, Hans-Peter	C21D 9/00
(32) 18.03.2020	Aleshcheva, Ganna	C21D 9/46
(33) China	(51) C12Q 1/6886	C22C 38/04
(51) C12Q 1/6834	(11) EP3464638	C22C 38/60
(11) EP3778890	(21) EP17807126.2	C21D 6/00
(21) EP20200233.3	(47) 06.12.2023	C22C 38/06
(47) 06.12.2023	(87) SG2017050284	C22C 38/34
(22) 23.12.2014	07.12.2017	C22C 38/42
(54) STRUCTURED SUBSTRATES FOR	(22) 05.06.2017	C22C 38/44
IMPROVING DETECTION OF LIGHT	(54) USE OF BIOMARKERS IN	C22C 38/46
EMISSIONS AND METHODS RELATING	DETERMINING SUSCEPTIBILITY TO	C22C 38/48
TO THE SAME	EGFR INHIBITORS	B32B 15/01
(73) Illumina, Inc.	(73) Singapore Health Services Pte Ltd	B32B 15/18
(72) BOWEN, Shane	(72) IYER, Narayanan Gopalakrishna	C22C 38/50
VENKATESAN, Bala, Murali	TAN, Daniel Shao-Weng	C22C 38/54

C22C 38/58	(72) MATSUI, Naoki	A61N 1/05
(11) EP3584347	OOBA, Hiroshi	(11) EP4095277
(21) EP18755031.4	OKONOJI, Makoto	(21) EP22175301.5
(47) 06.12.2023	TESHIMA, Toshihiko	(47) 06.12.2023
(87) JP2018006023	(31) 2019113720	(22) 25.05.2022
23.08.2018	(32) 19.06.2019	(54) MEDICAL LEADS AND TECHNIQUES
(22) 20.02.2018	(33) Japan	FOR MANUFACTURING THE SAME
(54) STEEL SHEET	(51) C21D 8/12	(73) Medtronic, Inc.
(73) Nippon Steel Corporation	C21D 8/00	(72) Li, Bernard
(72) TAKEDA, Kengo	C21D 6/00	Stone, Richard
OKAMOTO, Riki	C21D 1/76	Shi, Alan
HIKIDA, Kazuo	C21D 9/46	Humphrys, Seth
NAKANO, Katsuya	C22C 38/00	Tan, Wen
SUZUKI, Yuya	C22C 38/18	Stepka, Nicholas
ABUKAWA, Genki	C22C 38/34	(31) 202217663601
(31) 2017029319	C22C 38/04	202163193997 P
(32) 20.02.2017	C22C 38/20	(32) 16.05.2022
(33) Japan	C22C 38/60	27.05.2021
(51) C21D 8/02	C23C 22/20	(33) United States of America
C22C 38/02	C23C 22/74	United States of America
C22C 38/06	C23C 28/04	(51) C22C 19/05
C22C 38/58	C23G 1/08	C22C 30/00
C22C 38/08	H01F 1/18	C22C 37/08
C22C 38/16	H01F 1/147	C22C 37/10
C22C 38/14	(11) EP3922737	C22C 38/40
C22C 38/04	(21) EP20753008.0	(11) EP3669010
C22C 38/00	(47) 06.12.2023	(21) EP18758685.4
(11) EP3696287	(87) JP2020004865	(47) 06.12.2023
(21) EP18865647.4	13.08.2020	(87) GB2018052259
(47) 06.12.2023	(22) 07.02.2020	21.02.2019
(87) KR2018011722	(54) GRAIN ORIENTED ELECTRICAL	(22) 08.08.2018
18.04.2019	STEEL SHEET, FORMING METHOD	(54) OXIDATION RESISTENT ALLOY
(22) 04.10.2018	FOR INSULATION COATING OF GRAIN	(73) Paralloj Limited
(54) MANUFACTURING METHOD FOR	ORIENTED ELECTRICAL STEEL	(72) FLAHAUT, Dominique
A THICK STEEL PLATE HAVING	SHEET, AND PRODUCING METHOD	NORMAN, Kevin
EXCELLENT LOW-TEMPERATURE	FOR GRAIN ORIENTED ELECTRICAL	(31) 201713066
STRAIN AGING IMPACT PROPERTIES	STEEL SHEET	(32) 15.08.2017
(73) POSCO Co., Ltd	(73) NIPPON STEEL CORPORATION	(33) United Kingdom
(72) KIM, Woo-Gyeom	(72) TANAKA, Ichiro	(51) C22C 38/00
UM, Kyung-Keun	KATAOKA, Takashi	C22C 38/02
BANG, Ki-Hyun	TAKEDA, Kazutoshi	C22C 38/04
(31) 20170131605	KUBOTA, Masamitsu	C22C 38/06
(32) 11.10.2017	TADA, Hiroto	C22C 38/08
(33) Korea (Republic)	(31) 2019021284	C22C 38/12
(51) C21D 8/06	(32) 08.02.2019	C22C 38/14
C22C 38/00	(33) Japan	C22C 38/16
C22C 38/02	(51) C22B 9/04	C22C 38/28
C22C 38/04	C22B 5/04	C22C 38/32
C22C 38/08	C22B 34/32	C21D 9/46
C22C 38/12	C22C 19/05	C21D 8/02
C22C 38/14	(11) EP3553191	C21D 1/20
C22C 38/16	(21) EP19168262.4	C21D 1/22
C22C 38/42	(47) 06.12.2023	(11) EP3559296
C22C 38/50	(22) 05.10.2015	(21) EP17825624.4
C22C 38/54	(54) PROCESSES FOR PRODUCING LOW	(47) 06.12.2023
C21D 1/32	NITROGEN METALLIC CHROMIUM	(87) IB2017058115
C21D 1/46	AND CHROMIUM-CONTAINING	05.07.2018
C21D 1/48	ALLOYS	(22) 19.12.2017
C21D 1/56	(73) Companhia Brasileira De Metalurgia E	(54) TEMPERED AND COATED STEEL
C21D 1/607	Mineração	SHEET HAVING EXCELLENT
(11) EP3988678	(72) SERNIK, Kleber A.	FORMABILITY AND A METHOD OF
(21) EP20827854.9	VIEIRA, Alaécio Salvador Martins	MANUFACTURING THE SAME
(47) 06.12.2023	RIOS, Adriano, Porfirio	(73) Arcelormittal
(87) JP2020024248	FRIDMAN, Daniel Pallos	(72) PIPARD, Jean-Marc
24.12.2020	(31) 201414533741	THENOT, Marc Olivier
(22) 19.06.2020	(32) 05.11.2014	(31) PCT/IB2016/057906
(54) WIRE ROD	(33) United States of America	(32) 21.12.2016
(73) NIPPON STEEL CORPORATION	(51) C22C 14/00	(33) World Intellectual Property Office (WIPO)

(51) C22C 38/00	C23C 2/06	C23C 22/08
C22C 38/02	F28F 19/06	C23C 22/33
C22C 38/04	F26B 3/04	(11) EP3704286
C22C 38/06	F26B 17/04	(21) EP18804756.7
C22C 38/12	F26B 21/02	(47) 06.12.2023
C22C 38/14	(11) EP3394310	(87) US2018057533
C21D 6/00	(21) EP16825390.4	09.05.2019
C21D 8/02	(47) 06.12.2023	(22) 25.10.2018
C21D 9/46	(87) EP2016082073	(54) PROCESS AND COMPOSITION FOR
(11) EP4077756	29.06.2017	TREATING METAL SURFACES USING
(21) EP20824686.8	(22) 21.12.2016	TRIVALENT CHROMIUM COMPOUNDS
(47) 06.12.2023	(54) USE OF A HEAT EXCHANGER	(73) BULK CHEMICALS, INC.
(87) IB2020062004	(73) BASF SE	(72) RIVERA, Jose, B.
24.06.2021	(72) STEPHAN, Oskar	HANNA, Cody
(22) 16.12.2020	SCHNEIDER, Karl-Friedrich	(31) 201762578787 P
(54) HIGH TOUGHNESS HOT ROLLED	WEISMANTEL, Matthias	(32) 30.10.2017
AND ANNEALED STEEL SHEET AND	(31) 15202312	(33) United States of America
METHOD OF MANUFACTURING THE	(32) 23.12.2015	
SAME	(33) European Patent Office (EPO)	
(73) ArcelorMittal	(51) C23C 14/35	(51) C23C 24/00
(72) PERLADE, Astrid	C23C 14/16	G01K 1/14
ZHU, Kangying	C23C 14/34	B32B 18/00
JUNG, Coralie	C23C 14/46	C04B 35/03
KEGEL, Frédéric	H01J 37/32	C04B 35/10
(31) PCT/IB2019/061092	C23C 14/54	C04B 35/465
(32) 19.12.2019	H01J 37/34	C04B 35/48
(33) World Intellectual Property Office (WIPO)	C23C 14/02	C04B 35/622
(51) C23C 2/02	(11) EP3960896	(11) EP3526367
C23C 2/06	(21) EP20932662.8	(21) EP17791608.7
C23C 2/12	(47) 06.12.2023	(47) 06.12.2023
C23C 2/26	(87) RU2020000204	(87) EP2017075982
C23C 2/40	28.10.2021	19.04.2018
(11) EP2964801	(22) 20.04.2020	(2) 11.10.2017
(21) EP14760015.9	(54) METHOD OF ION-PLASMA	(54) METHOD FOR PRODUCING A
(47) 06.12.2023	APPLICATION OF CORROSION-	SENSOR, SENSOR, AND USE OF A
(87) AU2014000213	RESISTANT FILM COATINGS ON	SENSOR
12.09.2014	ARTICLES MADE FROM ZIRCONIUM	(73) Yageo Nexensos GmbH
(22) 06.03.2014	ALLOYS	(72) WIENAND, Karlheinz
(54) METAL-COATED STEEL STRIP	(73) Joint-Stock Company "TVEL"	DIETMANN, Stefan
(73) Bluescope Steel Limited	(72) ORLOV, Vladislav Konstantinovich	ZINKEVICH, Matsvei
Nippon Steel Corporation	TITOV, Alexander Olegovich	MOOS, Ralf
Nippon Steel Coated Sheet Corporation	KORNIENKO, Michail Yurjevich	SCHUBERT, Michael
(72) RENSHAW, Wayne Andrew	KRASNOBAEV, Nikolay Nikolaevich	TURWITT, Martin
TU, Cat	MASLOV, Alexander Alexandrovich	(31) 102016119340
WILLIAMS, Joe	NOVIKOV, Vladimir Vladimirovich	(32) 11.10.2016
HODGES, Jason	SAENKO, Denis Sergeevich	(33) Germany
FUJII, Shiro	(51) C23C 16/00	(51) C23C 28/02
KONDO, Shuichi	F15C 5/00	B23P 5/00
SHIMODA, Nobuyuki	G05D 7/00	B23P 6/00
HIRASAWA, Takashi	G05D 16/00	C23C 4/073
(31) 2013900763	G05B 23/02	F01D 5/00
(32) 06.03.2013	C23C 16/455	C23C 4/10
(33) Australia	C23C 16/52	C23C 4/12
(51) C23C 2/20	(11) EP3655143	C23C 28/00
(11) EP3168322	(21) EP18816784.5	F01D 5/28
(21) EP16195854.1	(47) 06.12.2023	(11) EP3162917
(47) 06.12.2023	(87) US2018037834	(21) EP16195817.8
(22) 26.10.2016	20.12.2018	(47) 06.12.2023
(54) COATING WEIGHT CONTROL	(22) 15.06.2018	(22) 26.10.2016
APPARATUS AND COATING WEIGHT	(54) GAS SUPPLY SYSTEM	(54) METHODS OF REPAIRING A THERMAL
CONTROL METHOD	(73) Versum Materials US, LLC	BARRIER COATING OF A GAS
(73) Hitachi, Ltd.	(72) LIM, Tae-Jun	TURBINE COMPONENT AND THE
(72) KURIHARA, Shigetoshi	KIM, Jihoon	RESULTING COMPONENTS
KAYAMA, Masahiro	KANG, Tae, Ug	(73) General Electric Company
(31) 2015220682	(31) 20170075558	(72) NAGARAJ, Bangalore Aswatha
(32) 10.11.2015	(32) 15.06.2017	(31) 201514925288
(33) Japan	(33) Korea (Republic)	(32) 28.10.2015
(51) C23C 2/28	(51) C23C 22/10	(33) United States of America
		(51) C23F 13/20
		B08B 17/02

B63B 13/00	(73) Jiangxi Nerin Equipment Co., Ltd.	26.05.2017
B63B 59/04	(72) DENG, Aimin	(22) 08.09.2016
C23F 13/16	LIU, Wenbin	(54) POLYIMIDE FIBER AND PREPARATION METHOD THEREFOR
(11) EP4013674	WANG, Jialiang	(73) Changchun Institute Of Applied Chemistry Chinese Academy Of Sciences
(21) EP20753920.6	CHEN, Hao	(72) QIU, Xuepeng
(47) 06.12.2023	HUANG, Jianfei	DAI, Xuemin
(87) EP2020072148	(31) 201621194073 U	LI, Guomin
18.02.2021	201610970410	DONG, Zhixin
(22) 06.08.2020	(32) 28.10.2016	LIU, Fangfang
(54) WATERCRAFT AND METHOD FOR PROTECTION FOR LINES THAT CONDUCT SEAWATER	(33) China	Ji, Xiangling
(73) thyssenkrupp Marine Systems GmbH	China	GAO, Lianxun
thyssenkrupp AG	(51) C25D 17/00	(31) 201510790613
(72) MOHR, Dennis	C25D 7/06	(32) 17.11.2015
KANNENBERG, André	C25D 21/12	(33) China
(31) 102019212078	(11) EP3015573	(51) D01G 15/46
(32) 13.08.2019	(21) EP14191387.1	D01G 15/52
(33) Germany	(47) 06.12.2023	D01G 25/00
(51) C23G 1/00	(22) 31.10.2014	(11) EP3951031
C23G 3/00	(54) SYSTEM FOR ELECTROPLATING A BAND	(21) EP21187399.7
(11) EP3907309	(73) Franz Binder GmbH + Co. Elektrische Bauelemente KG	(47) 06.12.2023
(21) EP21171626.1	(72) Eidner, Falko	(22) 23.07.2021
(47) 06.12.2023	Kretschmer, Ralf	(54) CARDING MACHINE
(22) 30.04.2021	(51) C25D 17/06	(73) Technoplants S.R.L.
(54) METHOD OF PICKLING AND/OR PASSIVATING AT LEAST AN INSIDE OF A CONTAINER, AND MANIPULATOR OF OR FOR SUCH A METHOD	C25D 17/08	(72) GUALTIERI, Marco
(73) Videira II S.A.	B05D 3/02	(31) 202000019006
(72) Rocha, Carlos	B05D 7/14	(32) 03.08.2020
Rocha, Rui	B05D 5/08	(33) Italy
Beljaars, Norbert	B05D 7/00	(51) D02G 3/32
Beljaars, Maaïke	(11) EP3828317	(11) EP3744885
Kwik, Matthijs R.	(21) EP20000270.7	(21) EP20175926.3
(31) 2025485	(47) 06.12.2023	(47) 06.12.2023
(32) 01.05.2020	(22) 31.07.2020	(22) 21.05.2020
(33) Netherlands	(54) USE OF A RACK FOR ELECTRODEPOSITION ON PLASTICS	(54) COVERING MACHINE
(51) C25B 1/26	(73) Bongiorno, Salvatore	(73) Molteni, Maurizio
C25B 15/08	(72) Bongiorno, Salvatore	(72) Molteni, Maurizio
C25B 9/19	(31) 102019008181	(31) 201900007320
C02F 1/461	(32) 26.11.2019	(32) 27.05.2019
C02F 1/467	(33) Germany	(33) Italy
(11) EP3673098	(51) D01D 5/02	(51) D02G 3/48
(21) EP18769595.2	(11) EP3695031	B29B 15/12
(47) 06.12.2023	(21) EP18779732.9	B29D 30/38
(87) EP2018072925	(47) 06.12.2023	(11) EP3724388
28.02.2019	(87) EP2018077356	(21) EP18785573.9
(22) 24.08.2018	18.04.2019	(47) 06.12.2023
(54) DEVICE FOR THE RECOVERY OF PRODUCTS OF THE ELECTROLYSIS OF AN ALKALI METAL CHLORIDE SOLUTION	(22) 08.10.2018	(87) EP2018077248
(73) Blue Safety GmbH	(54) SPINNING DEVICE AND METHOD FOR STRINGING UP IN A SPINNING DEVICE	20.06.2019
(72) BAKHIR, Vitold	(73) Lenzing Aktiengesellschaft	(22) 08.10.2018
(31) 102017119566	(72) DÜRNBERGER, Franz Alfred	(54) HYBRID CORD FOR USE AS A STRENGTH MEMBER IN A BELT BANDAGE OF A PNEUMATIC VEHICLE TIRE AND USE
(32) 25.08.2017	LADNER, Karl	(73) Continental Reifen Deutschland GmbH
(33) Germany	LAUBER, Martin	(72) REESE, Wolfgang
(51) C25C 7/02	REISCHL, Daniel	KRAMER, Thomas
C25C 1/16	(31) 17020468	(31) 102017222896
(11) EP3533907	(32) 12.10.2017	(32) 15.12.2017
(21) EP17863343.4	(33) European Patent Office (EPO)	(33) Germany
(47) 06.12.2023	(51) D01F 6/74	(51) D02J 3/12
(87) CN2017089772	D01F 6/78	D06B 3/04
03.05.2018	C08G 73/10	D06B 3/06
(22) 23.06.2017	D01D 5/06	D06B 11/00
(54) ELECTROLYTIC CATHODE ASSEMBLY AND ELECTROLYTIC CELL	(11) EP3378977	D06M 13/00
	(21) EP16865598.3	D06M 13/473
	(47) 06.12.2023	D06M 23/00
	(87) CN2016098433	D06M 23/10

D06M 101/06	(72) BRUYNOGHE, Koen	(72) ZHANG, Xiujuan
D06M 101/12	RAVELINGIEN, Frederic	MUELLER, Gert
D06P 1/44	VERSCHEURE, Diederik	SMITH, Kendel
D06P 1/92	(31) 201905020	(31) 201762569778 P
(11) EP3433416	(32) 14.01.2019	(32) 09.10.2017
(21) EP17771318.7	(33) Belgium	(33) United States of America
(47) 06.12.2023	(51) D03D 47/30	(51) D06B 3/28
(87) US2017024351	(11) EP3964613	D06B 23/04
28.09.2017	(21) EP21192725.6	D06B 3/34
(22) 27.03.2017	(47) 06.12.2023	(11) EP3783139
(54) METHOD FOR PRODUCING A	(22) 24.08.2021	(21) EP19192204.6
WELDED SUBSTRATE	(54) WEFT INSERTION DEVICE OF AIR JET	(47) 06.12.2023
(73) Natural Fiber Welding, Inc.	LOOM	(22) 19.08.2019
(72) HAVERHALS, Luke, Michael	(73) Kabushiki Kaisha Toyota Jidoshokki	(54) MACHINE FOR DYEING FABRIC
AMSTUTZ, Aaron, Kenneth	(72) MORITA, Akito	COMPRISING A CONVEYOR MEANS
CHOI, Jonglak	ARAI, Ryuji	(73) Chang, Chi-Lung
TANG, Xiling	(31) 2020149913	(72) Chang, Chi-Lung
MOLTER, Michael	(32) 07.09.2020	(51) D06B 23/20
NULL, Spencer, Jacob	(33) Japan	(11) EP3812498
(31) 201762446646 P	(51) D04B 15/68	(21) EP20202897.3
201662365752 P	D04B 15/32	(47) 06.12.2023
201662313291 P	D04B 15/70	(22) 20.10.2020
(32) 16.01.2017	(11) EP3719191	(54) GROUP FOR PREPARING A
22.07.2016	(21) EP20167838.0	COMPOUND FOR DYEING
25.03.2016	(47) 06.12.2023	MANUFACTURED ITEMS, SUCH
(33) United States of America	(22) 02.04.2020	AS FOR EXAMPLE CLOTHING
United States of America	(54) FLAT KNITTING MACHINE	ARTICLES, AS WELL AS A PLANT
United States of America	(73) SHIMA SEIKI MFG., LTD.	FOR DYEING AND A METHOD FOR
(51) D03C 1/14	(72) GOTO, Masanori	PREPARING A COMPOUND FOR
D03C 1/16	(31) 2019073176	DYEING MANUFACTURED ITEMS
D03C 9/06	(32) 05.04.2019	(73) Tonello S.r.l.
(11) EP3814564	(33) Japan	(72) FALAGUASTA, Massimo
(21) EP18737853.4	(51) D04H 1/46	TONELLO, Alice
(47) 06.12.2023	D04H 1/58	(31) 201900019427
(87) EP2018067590	D04H 18/02	(32) 21.10.2019
02.01.2020	B32B 5/02	(33) Italy
(22) 29.06.2018	B32B 5/18	(51) D06F 29/00
(54) CONNECTING ROD FOR A DRIVE	B32B 5/06	D06F 39/12
MECHANISM FOR A HARNESS FRAME	B32B 5/24	(11) EP3828327
(73) Picanol	B32B 5/26	(21) EP20000425.7
(72) ASRIH, Karim	(11) EP3911790	(47) 06.12.2023
DESEYNE, Joost	(21) EP20701534.8	(22) 24.11.2020
SAMPERS, Dirk	(47) 06.12.2023	(54) IMPROVED CONNECTION SYSTEM
(51) D03C 9/06	(87) EP2020050378	FOR HOUSEHOLD APPLIANCES AND
(11) EP3748056	23.07.2020	INSTALLATION PROCESS FOR SUCH
(21) EP20177228.2	(22) 09.01.2020	SYSTEM
(47) 06.12.2023	(54) MOTOR VEHICLE FLOOR COVERING,	(73) Mongardi, Paolo Serafino
(22) 28.05.2020	BOOT OR TRUNK COVERING OR	(72) Mongardi, Paolo Serafino
(54) HEALD FRAME CROSSBAR WITH	LOAD COMPARTMENT COVERING	(31) 201900022224
IMPROVED RIGIDITY FOR WEAVING	HAVING A STRUCTURALLY NEEDLE-	(32) 26.11.2019
LOOMS	PUNCHED CARPET SURFACE	(33) Italy
(73) ITEMA S.p.A.	(73) Adler Pelzer Holding GmbH	(51) D06F 33/30
(72) MINELLI, Lorenzo	(72) FALK, Frank	D06F 34/05
ARRIGONI, Massimo	SCHULZE, Volkmar	D06F 58/34
CALZAFERRI, Stefano	(31) 102019100916	D06F 103/00
PANZETTI, Andrea	(32) 15.01.2019	D06F 103/02
(31) 201900008379	(33) Germany	D06F 105/00
(32) 07.06.2019	(51) D04H 1/587	D06F 105/58
(33) Italy	D04H 1/64	D06F 33/50
(51) D03D 47/27	D04H 1/4218	D06F 34/14
(11) EP3911787	(11) EP3694918	(11) EP3705617
(21) EP20702349.0	(21) EP18867266.1	(21) EP20158638.5
(47) 06.12.2023	(47) 06.12.2023	(47) 06.12.2023
(87) IB2020050110	(87) US2018054910	(22) 20.02.2020
23.07.2020	18.04.2019	(54) APPARATUS AND OPERATION
(22) 08.01.2020	(22) 09.10.2018	METHOD THEREOF
(54) RAPIER ROD	(54) AQUEOUS BINDER COMPOSITIONS	(73) LG Electronics Inc.
(73) Vandewiele NV	(73) Owens Corning Intellectual Capital, LLC	(72) KIM, Hyeoun

KIM, Jaehong	ZAMBONIN, Giuliano	(73) Koninklijke Philips N.V.
LEE, Taeho	ZANNON, Giulia	(72) GOH, See, Chen
JEONG, Hangil	(51) D06F 34/18	MA, Kok, Wah
HAN, Jongwoo	D06F 37/24	SIN, Hee, Poh
(31) PCT/KR2019/002717	D06F 37/36	LING, Loo, Ping
(32) 08.03.2019	D06F 105/48	(31) 20181013
(33) World Intellectual Property Office (WIPO)	D06F 105/00	(32) 19.06.2020
(51) D06F 33/46	D06F 103/24	(33) European Patent Office (EPO)
D06F 33/36	D06F 23/04	(51) D06F 81/14
D06F 103/04	(11) EP3824129	(11) EP3507410
D06F 103/18	(21) EP19868710.5	(21) EP17780513.2
D06F 105/48	(47) 06.12.2023	(47) 06.12.2023
(11) EP3816334	(87) KR2019012849	(87) IB2017001042
(21) EP20199499.3	09.04.2020	08.03.2018
(47) 06.12.2023	(22) 01.10.2019	(22) 30.08.2017
(22) 01.10.2020	(54) WASHING MACHINE	(54) DEVICE FOR STRETCHING A COVER
(54) LAUNDRY APPLIANCE WITH	(73) Samsung Electronics Co., Ltd.	OVER AN IRONING BOARD
CONTROLS	(72) KANAGAWA, Tomoyuki	(73) Pollmann, Dirk
(73) BSH Hausgeräte GmbH	MIYAKE, Hiroyuki	Borgolte, Sylvia
(72) Dobrusin, Alexander	KAGAMI, Shin	Andersch-Broosche, Suzanne
Shi, Yi-Chun	(31) 2018187326	(72) POLLMANN, Karl
Kilasonia, Zaza	20190090121	(31) 102016010472
(31) 102019216697	(32) 02.10.2018	(32) 31.08.2016
(32) 30.10.2019	25.07.2019	(33) Germany
(33) Germany	(33) Japan	(51) D06M 13/17
(51) D06F 33/48	Korea (Republic)	D06M 13/203
D06F 103/04	(51) D06F 39/10	D06M 15/03
D06F 103/26	B01D 29/01	(11) EP3748067
D06F 105/48	B01D 29/64	(21) EP20187555.6
D06F 105/52	A47L 15/42	(47) 06.12.2023
(11) EP3891329	D06F 58/22	(22) 13.02.2018
(21) EP18825577.2	(11) EP3854930	(54) ANTI-ODOR COMPOSITIONS,
(47) 06.12.2023	(21) EP20216301.0	STRUCTURES HAVING ANTI-
(87) EP2018083878	(47) 06.12.2023	ODOR CHARACTERISTICS,
11.06.2020	(22) 22.12.2020	METHODS OF MAKING THE ANTI-
(22) 06.12.2018	(54) WATER-TRANSPORTING HOUSEHOLD	ODOR COMPOSITIONS AND THE
(54) ROTATABLE DRUM LAUNDRY	DEVICE COMPRISING A FILTER UNIT	STRUCTURES
MACHINE AND CONTROL METHOD	(73) BSH Hausgeräte GmbH	(73) NIKE Innovate C.V.
THEREOF	(72) Bischof, Andreas	(72) HU, Cheng
(73) ELECTROLUX APPLIANCES	Eglmeier, Hans	(31) 201762458632 P
AKTIEBOLAG	(31) 102020200685	201762458616 P
(72) BOSSI, Marco	(32) 22.01.2020	(32) 14.02.2017
DE VITO, Daniele	(33) Germany	14.02.2017
CALANCA, Andrea	(51) D06F 39/14	(33) United States of America
(51) D06F 34/18	D06F 29/00	United States of America
D06F 25/00	D06F 37/28	(51) D06N 3/00
D06F 33/32	(11) EP3812503	D01F 6/00
D06F 103/08	(21) EP20199826.7	D04H 1/46
D06F 103/18	(47) 06.12.2023	D01D 5/24
D06F 103/24	(22) 02.10.2020	D01D 5/36
D06F 103/32	(54) DRAWER-TYPE LAUNDRY TREATING	D01F 8/04
D06F 103/46	DEVICE AND COMPOSITE WASHING	D04H 1/48
D06F 105/00	MACHINE	D06N 3/14
D06F 105/58	(73) BSH Hausgeräte GmbH	D01F 8/06
(11) EP3420127	(72) Wei, Chunyang	D01F 8/14
(21) EP16707034.1	Wang, Fei2	D04H 1/435
(47) 06.12.2023	(31) 201911014539	(11) EP3187655
(87) EP2016053788	(32) 24.10.2019	(21) EP15835034.8
31.08.2017	(33) China	(47) 06.12.2023
(22) 23.02.2016	(51) D06F 73/00	(87) JP2015073106
(54) METHOD FOR THE DETERMINATION	(11) EP4168618	03.03.2016
OF A LAUNDRY WEIGHT IN A	(21) EP21732051.4	(22) 18.08.2015
LAUNDRY TREATMENT APPLIANCE	(47) 06.12.2023	(54) SHEET MATERIAL AND
(73) Electrolux Appliances Aktiebolag	(87) EP2021065893	MANUFACTURING METHOD THEREOF
(72) ALTINIER, Fabio	23.12.2021	(73) Toray Industries, Inc.
PESAVENTO, Elena	(22) 14.06.2021	(72) NISHIMURA, Hajime
BEGHI, Alessandro	(54) A GARMENT STEAMER WITH	MATSUZAKI, Yukihiro
SUSTO, Gian Antonio	DOCKING ASSEMBLY	NISHIMURA, Makoto

KANEKO, Makoto	(32) 06.02.2020	(73) Carpet Track Limited
(31) 2015038805	07.05.2019	(72) HOLDEN, Christopher
2014173849	(33) United States of America	(31) 201911439
(32) 27.02.2015	United States of America	(32) 09.08.2019
28.08.2014	(51) D21H 27/00	(33) United Kingdom
(33) Japan	D21C 3/00	(51) E01B 23/06
Japan	D21H 17/07	B61K 5/06
(51) D06N 7/00	A47K 10/16	E01B 11/30
A41D 27/02	D21H 27/30	E01B 11/42
A41D 27/06	(11) EP3907328	(11) EP3325717
D06M 17/10	(21) EP20766224.8	(21) EP16738523.6
(11) EP3701081	(47) 06.12.2023	(47) 06.12.2023
(21) EP18796400.2	(87) JP2020005222	(87) GB2016052066
(47) 06.12.2023	10.09.2020	26.01.2017
(87) EP2018079386	(22) 12.02.2020	(22) 08.07.2016
02.05.2019	(54) TOILET PAPER	(54) GAUGE SPACING APPARATUS FOR
(22) 26.10.2018	(73) Daio Paper Corporation	TURNOUT/CROSSOVER SECTIONS
(54) THERMALLY FUSIBLE SHEET BODY	(72) YASUI, Shuta	FOR RAILWAY TRACK AND METHOD
(73) Carl Freudenberg KG	IWASAKI, Minoru	OF SUPPORTING AND MAINTAINING
(72) TRASER, Steffen	(31) 2019040905	RAIL GAUGE SPACING
KREMSEK, Steffen	(32) 06.03.2019	(73) Non Intrusive Crossover System Limited
(31) 102018109359	(33) Japan	(72) ANDERSON, Roy
102017010022	(51) D21H 27/00	REID, Stephen
(32) 19.04.2018	D21H 17/34	MCCALLUM, Donald
27.10.2017	D21H 19/20	MAXWELL, Henry
(33) Germany	D21H 19/56	(31) 201512999
Germany	D21H 19/82	(32) 23.07.2015
(51) D21C 5/02	(11) EP3636832	(33) United Kingdom
B09B 3/00	(21) EP18199295.9	(51) E01C 5/00
D21B 1/32	(47) 06.12.2023	E01C 5/20
D21D 1/40	(22) 09.10.2018	E01C 9/08
D21D 5/02	(54) A METHOD FOR MANUFACTURING	E01C 11/24
(11) EP3366834	A PAPER SUBSTRATE SUITABLE	E01C 13/04
(21) EP18167901.0	FOR A RELEASE LINER WITH HIGH	(11) EP3981917
(47) 06.12.2023	CONTENT OF FUNCTIONAL VINYL	(21) EP21202143.0
(22) 22.09.2015	GROUPS, AND PRODUCTS AND USES	(47) 06.12.2023
(54) METHOD FOR RECYCLING WASTE	THEREOF	(22) 12.10.2021
MATERIAL INCLUDING WASTE PAPER	(73) UPM-Kymmene Corporation	(54) FLOORING ELEMENT AND METHOD
(73) Juno LLC	(72) Kosonen, Harri	OF INSTALLING SAME
(72) HENRIKSSON, David Christer	Rissanen, Mikko	(73) Cap Trac Ltd
WINKLER, Wayne F.	Littunen, Kuisma	(72) THOMAS, Richard
LUCAS, Bradley	Rautalahti, Jaakko	(31) 202016178
TOPPING, Paul	Antila, Janne	(32) 12.10.2020
(31) 201462060150 P	(51) E01B 3/34	(33) United Kingdom
(32) 06.10.2014	E04C 5/08	(51) E01C 19/28
(33) United States of America	E04C 5/10	G01N 29/12
(51) D21H 13/50	E04C 5/12	G01N 29/44
D21H 15/02	(11) EP4053334	G01N 29/46
D21H 21/52	(21) EP22158986.4	G01N 9/24
D21H 27/18	(47) 06.12.2023	G01N 33/42
C04B 28/14	(22) 25.02.2022	(11) EP3768895
(11) EP3966389	(54) RAILROAD TIE	(21) EP18910503.4
(21) EP20727090.1	(73) P-TEC Holding GmbH	(47) 06.12.2023
(47) 06.12.2023	(72) Mamedof, Klaus	(87) US2018023456
(87) US2020030981	Hölzl, Johannes	26.09.2019
12.11.2020	(31) 202021101011 U	(22) 21.03.2018
(22) 01.05.2020	(32) 01.03.2021	(54) ASPHALT DENSITY ESTIMATION
(54) CONDUCTIVE PAPER FOR MAKING	(33) Germany	SYSTEM, AND RELATED METHOD OF
ELECTROACTIVE SURFACE IN	(51) E01B 21/00	REDUCING SIGNAL NOISE
CONSTRUCTION	E01B 3/22	(73) Volvo Construction Equipment AB
(73) United States Gypsum Company	E01B 7/08	(72) ZHAO, Yaang
(72) SINHA RAY, Suman	(11) EP4010530	(51) E01C 23/088
IMMORDINO, JR., Salvatore C.	(21) EP20754822.3	(11) EP3670748
JOSEPH, Mark	(47) 06.12.2023	(21) EP20152400.6
ROSENSTIEL, Terry	(87) GB2020051897	(47) 06.12.2023
WHITE, William	18.02.2021	(22) 21.06.2016
(31) 202016783469	(22) 07.08.2020	(54) SOIL WORKING MACHINE AND
201962844535 P	(54) LIGHT RAILWAY SYSTEM	METHOD FOR WEAR-OPTIMIZED

OPERATION OF A SOIL WORKING MACHINE	(54) DOWNFORCE SWEEPER	(21) EP20180134.7
(73) Wirtgen GmbH	(73) Aero-Tech Pty Ltd	(47) 06.12.2023
(72) BARIMANI, Cyrus	(72) TOZER, Warwick	(22) 16.06.2020
WAGNER, Stefan	TOZER, Stuart	(54) EXCAVATOR BOOM
HÄHN, Günter	(31) 2018904590	(73) Liebherr-France SAS
(31) 102015111249	2018904463	(72) Hannetel, Jules
(32) 10.07.2015	(32) 03.12.2018	Grimaud, Jérémie
(33) Germany	22.11.2018	Elbel, Guillaume
(51) E01C 23/088	(33) Australia	(31) 102019116394
(11) EP3670747	Australia	(32) 17.06.2019
(21) EP19204232.3	(51) E02B 1/00	(33) Germany
(47) 06.12.2023	B03D 1/14	(51) E02F 9/22
(22) 21.10.2019	C02F 1/52	E02F 3/43
(54) SELF-PROPELLED CONSTRUCTION MACHINE AND METHOD FOR PROCESSING A FLOOR LINING	C02F 103/00	F15B 21/08
(73) Wirtgen GmbH	C02F 1/24	(11) EP3604690
(72) Berning, Christian	(11) EP4237156	(21) EP18771596.6
Held, Hanjo	(21) EP21798717.1	(47) 06.12.2023
Müller, René	(47) 06.12.2023	(87) JP2018011159
(31) 102018222875	(87) EP2021079870	27.09.2018
(32) 21.12.2018	05.05.2022	(22) 20.03.2018
(33) Germany	(22) 27.10.2021	(54) CONSTRUCTION MACHINERY
(51) E01C 23/088	(54) MICROFLOTATION SYSTEM FOR TREATING A BODY OF WATER	(73) Hitachi Construction Machinery Co., Ltd.
(11) EP4130386	(73) Damann, Volker	(72) KARASAWA, Hideo
(21) EP22163688.9	Damann, Roland	KODAKA, Katsuaki
(47) 06.12.2023	(72) DAMANN, Roland	(31) 2017054601
(22) 22.03.2022	(31) 20205159	(32) 21.03.2017
(54) SHIFTABLE CABIN	(32) 02.11.2020	(33) Japan
(73) Wirtgen GmbH	(33) European Patent Office (EPO)	(51) E02F 9/22
(72) Drumm, Stephan	(51) E02D 5/38	F15B 11/16
(31) 202117562136	E02D 5/34	F15B 21/08
202163229790 P	E02D 7/22	(11) EP3660330
(32) 27.12.2021	E02D 9/00	(21) EP19776046.5
05.08.2021	E04C 5/06	(47) 06.12.2023
(33) United States of America	(11) EP3771774	(87) JP2019000430
United States of America	(21) EP20187455.9	03.10.2019
(51) E01F 9/673	(47) 06.12.2023	(22) 10.01.2019
E01F 9/669	(22) 23.07.2020	(54) CONSTRUCTION MACHINE
F16M 13/02	(54) DRILL HEAD, REINFORCING CAGE AND DRILLING UNIT FOR MAKING PILES	(73) Hitachi Construction Machinery Tierra Co., Ltd.
(11) EP3497287	(73) Marti Gründungstechnik AG	(72) TAKAHASHI Kiwamu
(21) EP17830133.9	(72) Leuenberger, Daniel	MAEHARA Taihei
(47) 06.12.2023	(31) 9672019	ISHII Takeshi
(87) CA2017050766	(32) 30.07.2019	(31) 2018063053
25.01.2018	(33) Switzerland	(32) 28.03.2018
(22) 22.06.2017	(51) E02D 27/42	(33) Japan
(54) APPARATUS AND METHOD FOR ATTACHING SIGNS TO FOUNDATION MEMBERS SUCH AS ROAD BARRIERS	E02D 5/04	(51) E02F 9/26
(73) AMG Metals Inc.	E02D 13/04	(11) EP3919692
Powell (Richmond Hill) Contracting Limited	E02D 5/28	(21) EP20869986.8
DELAMERE/POWELL HOLDCO INC.	(11) EP3899147	(47) 06.12.2023
(72) POWELL, Ben	(21) EP19838960.3	(87) JP2020035518
PIERSON, John David	(47) 06.12.2023	01.04.2021
DELAMERE, James Harold	(87) IB2019061076	(22) 18.09.2020
VAKILI, Mohammad Bagher	25.06.2020	(54) WORKING MACHINE
(31) 2936367	(22) 19.12.2019	(73) Hitachi Construction Machinery Co., Ltd.
(32) 18.07.2016	(54) METHOD AND KIT FOR MANUFACTURING FOUNDATIONS FOR UPRIGHTS BY USING SHEETS EMBEDDED BY VIBRATION OR BY PERCUSSION	(72) ROH, Joonyoung
(33) Canada	(73) Fonsider S.r.l.	SAKAMOTO, Hiroshi
(51) E01H 1/04	(72) TIZZONI, Giampaolo	TORIYAMA, Youhei
(11) EP3884109	(31) 201800020314	HAYAKAWA, Naoki
(21) EP19887413.3	(32) 20.12.2018	(31) 2019174615
(47) 06.12.2023	(33) Italy	(32) 25.09.2019
(87) AU2019051183	(51) E02F 3/30	(33) Japan
28.05.2020	(11) EP3754117	(51) E02F 9/26
(22) 28.10.2019		E02F 9/20
		E02F 9/24
		G06N 20/00
		G06T 7/00
		(11) EP3875697
		(21) EP19880206.8

(47) 06.12.2023	(47) 06.12.2023	(72) RIDEOUT, Jan
(87) JP2019042896	(22) 18.09.2018	JONES, Nicholas
07.05.2020	(54) SEEPAGE SYSTEM	(31) 201815518
(22) 31.10.2019	(73) Enregis GmbH	(32) 24.09.2018
(54) EXCAVATOR AND EXCAVATOR	(72) AMFT, Andreas Paul	(33) United Kingdom
ASSISTING SYSTEM	(31) 102017122055	<hr/>
(73) Sumitomo Construction Machinery Co.,	(32) 22.09.2017	(51) E04B 5/04
Ltd.	(33) Germany	E04B 5/48
(72) KUROSAWA, Ryota	<hr/>	E04B 1/84
(31) 2018205906	(51) E04B 1/10	(11) EP3636845
(32) 31.10.2018	(11) EP3636842	(21) EP18199248.8
(33) Japan	(21) EP19194077.4	(47) 06.12.2023
<hr/>	(47) 06.12.2023	(22) 09.10.2018
(51) E02F 9/28	(22) 28.08.2019	(54) METHOD OF MANUFACTURING THE
(11) EP3959385	(54) PREFABRICATED HOUSE	SLAB
(21) EP20716342.9	(73) Park, Sungwoo	(73) VBI ONTWIKKELING B.V.
(47) 06.12.2023	Park, Sanghee	(72) van Dinter, Diederik Maria
(87) US2020022032	(72) Park, Sungwoo	Klein-Holte, Ronald
29.10.2020	Park, Sanghee	<hr/>
(22) 11.03.2020	(31) 20180119550	(51) E04B 5/18
(54) ADAPTERS FOR ATTACHING A	(32) 08.10.2018	E04B 5/38
TIP TO A MACHINE IMPLEMENT	(33) Korea (Republic)	(11) EP3704324
AND GROUND ENGAGING TOOL	<hr/>	(21) EP18803750.1
ASSEMBLY	(51) E04B 1/24	(47) 06.12.2023
(73) Caterpillar Inc.	(11) EP3480378	(87) FR2018052675
(72) MCCAFFREY, Brandon H.	(21) EP18201122.1	09.05.2019
BALAN, Mihai M.	(47) 06.12.2023	(22) 26.10.2018
(31) 201916393405	(22) 18.10.2018	(54) CONSTRUCTION METHOD
(32) 24.04.2019	(54) CONNECTION SYSTEM	COMPRISING THE PRODUCTION
(33) United States of America	(73) AUDI AG	OF AT LEAST ONE SLAB MADE OF
<hr/>	(72) Portik, Dezsö	CONCRETE AND NON-PRESTRESSED
(51) E03C 1/048	(31) 102017219514	WOOD, AND A SLAB MADE OF
B05B 17/08	(32) 02.11.2017	CONCRETE AND WOOD
(11) EP3705640	(33) Germany	(73) A2C Materiaux
(21) EP20161132.4	<hr/>	(72) CHARLE, Arnaud
(47) 06.12.2023	(51) E04B 1/24	NIVIERE, Thierry
(22) 05.03.2020	E04B 1/58	(31) 1760253
(54) WASHING TABLE DEVICE WITH A	(11) EP3502368	(32) 30.10.2017
FOUNTAIN JET WATER DISPENSING	(21) EP18214706.6	(33) France
DEVICE	(47) 06.12.2023	<hr/>
(73) Hansgrohe SE	(22) 20.12.2018	(51) E04C 3/28
(72) ARMBRUSTER, Stefan	(54) STRUCTURAL CONNECTOR	E04C 3/29
BILGER, Marcel	(73) Tomba Enterprises Pty Ltd	E04C 3/10
MEIBNER, Axel	(72) MENEY, David	E04C 3/04
(31) 102019203164	(31) 2017905120	(11) EP3356614
(32) 08.03.2019	(32) 21.12.2017	(21) EP16777753.1
(33) Germany	(33) Australia	(47) 06.12.2023
<hr/>	<hr/>	(87) GB2016053012
(51) E03D 9/02	(51) E04B 1/26	06.04.2017
E03D 9/03	F16B 5/00	(22) 28.09.2016
(11) EP4058641	F16B 15/00	(54) FIBRE REINFORCED POLYMER
(21) EP20796744.9	(11) EP3985189	STRUCTURES
(47) 06.12.2023	(21) EP20201716.6	(73) Startlink Systems Ltd
(87) EP2020079477	(47) 06.12.2023	(72) SINGLETON, Mark James
20.05.2021	(22) 14.10.2020	(31) 201517287
(22) 20.10.2020	(54) CONNECTOR FOR TWO	(32) 30.09.2015
(54) RIM BLOCK CAGE	WORKPIECES	(33) United Kingdom
(73) Henkel AG & Co. KGaA	(73) Knapp GmbH	<hr/>
(72) HENNING, Ingomar	(72) KNAPP, Friedrich	(51) E04C 5/07
TIMMANN, Ulf Arno	<hr/>	(11) EP3640407
GERHARDS, Katja	(51) E04B 2/74	(21) EP18200952.2
WARDEN, Bodo	(11) EP3856991	(47) 06.12.2023
ZENGER, Colin	(21) EP19772790.2	(22) 17.10.2018
DAUBE, Marcel	(47) 06.12.2023	(54) IMPREGNATED FABRIC WITH
ORLICH, Bernhard	(87) GB2019052523	ADDITIVES
(31) 102019130710	02.04.2020	(73) Koch GmbH
(32) 14.11.2019	(22) 10.09.2019	(72) Koch, Detlef
(33) Germany	(54) PARTITION COMPRISING BOARDS	<hr/>
<hr/>	MOUNTED ONTO UPRIGHT	(51) E04D 3/36
(51) E03F 1/00	ELONGATE MEMBERS AND METHOD	E04D 3/362
(11) EP3460133	FOR CONSTRUCTING THE SAME	E04D 3/363
(21) EP18195183.1	(73) SAINT-GOBAIN PLACO	E04D 3/30

E04D 3/361	(22) 13.02.2015	(54) ACCOMMODATION FACILITY WITH A PLURALITY OF COMPACT SLEEPING UNITS
(11) EP4069915	(54) SYSTEM FOR A VENTED AND WATER CONTROL SIDING	(73) Boxhotel Vermögensverwaltungs GmbH
(21) EP20796945.2	(72) NORWOOD, Steven	(72) BLUME, Oliver
(47) 06.12.2023	ABU-JABER, Amir	(31) 102015117363
(87) IB2020059883	(31) 201461955702 P	(32) 12.10.2015
10.06.2021	201461940285 P	(33) Germany
(22) 21.10.2020	(32) 19.03.2014	(51) E05B 1/00
(54) A HIGH-PERFORMANCE METAL COVERING FOR ROOFS OF BUILDINGS	14.02.2014	E05B 81/76
(73) Menegoli, Mauro	(33) United States of America	E05B 85/10
(72) MENEGOLI, Mauro	United States of America	(11) EP3322869
(31) 201900023133	(51) E04F 15/02	(21) EP16738699.4
(32) 05.12.2019	F16B 5/00	(47) 06.12.2023
(33) Italy	(11) EP3789562	(87) EP2016065550
(51) E04D 13/03	(21) EP20198916.7	19.01.2017
F21S 11/00	(47) 06.12.2023	(22) 01.07.2016
(11) EP3789558	(22) 14.06.2010	(54) EXTERIOR DOOR HANDLE FOR A VEHICLE
(21) EP20194843.7	(54) FLOOR PANEL	(73) Huf Hülbeck & Fürst GmbH & Co. KG
(47) 06.12.2023	(73) I4F LICENSING NV	(72) BECK, Andreas
(22) 07.09.2020	(72) PERRA, Antonio Giuseppe	BITIRIM, Serdal
(54) LIGHT GUIDING SYSTEM COMPRISING A SHAFT ARRANGEMENT, AND METHOD OF PROVIDING SUCH A SHAFT ARRANGEMENT IN A MOUNTED CONDITION	ZWEED, Sander Gordon	MÜLLER, Dirk
(73) VKR Holding A/S	(31) 2003019	WITTE, Martin
(72) Nielsen, Casper Grønvig	PCT/NL2009/050540	(31) 102015118525
Borup-Jensen, René	(32) 12.06.2009	102015118523
Atzen, Bent	09.09.2009	102015111311
Hansesgaard, Claus	(33) Netherlands	PCT/EP2015/201091
Kristensen, Jens Troels Plesner	World Intellectual Property Office (WIPO)	(32) 29.10.2015
Wiig, Martin Schwartz	(51) E04F 15/04	29.10.2015
(31) PA201970561	(11) EP3653806	13.07.2015
(32) 06.09.2019	(21) EP19202687.0	18.12.2015
(33) Denmark	(47) 06.12.2023	(33) Germany
(51) E04F 13/02	(22) 25.09.2009	Germany
E04B 1/66	(54) FORMLINER AND METHOD OF USE	Germany
D06N 3/14	(73) Prime Forming & Construction Supplies, Inc., Dba Fitzgerald Formliners	World Intellectual Property Office (WIPO)
D06N 3/00	(72) FITZGERALD, Edward Daniel	(51) E05B 9/08
E04F 13/08	SHEEHAN, Brian Eugene	E05B 49/00
E04F 13/00	(31) 406896	E05B 65/00
D06N 7/00	238294	E05B 47/00
(11) EP4031723	(32) 18.03.2009	(11) EP4151819
(21) EP20772065.7	25.09.2008	(21) EP22196021.4
(47) 06.12.2023	(33) United States of America	(47) 06.12.2023
(87) EP2020076050	United States of America	(22) 16.09.2022
25.03.2021	(51) E04H 1/12	(54) ATTACHMENT SYSTEM FOR A LOCKING SYSTEM
(22) 17.09.2020	E04B 1/34	(73) Dormakaba USA Inc.
(54) PROCESS FOR THE APPLICATION OF A DECORATIVE COVERING ON WALLS IN HUMID ENVIRONMENTS AND/OR WHICH ARE SUBJECT TO WATER JETS	E04H 15/04	(72) BACON-BROWN, James David
(73) Londonart Srl	(11) EP4083350	(31) 202117477262
(72) BOTTEGAL, Nicola	(21) EP20907153.9	(32) 16.09.2021
(31) 201900016847	(87) JP2020030077	(33) United States of America
(32) 20.09.2019	01.07.2021	(51) E05B 19/00
(33) Italy	(22) 05.08.2020	E05B 29/00
(51) E04F 13/08	(54) STRUCTURE FOR PREVENTING RAIN LEAKAGE IN TREE HOUSE	E05B 15/08
E04F 13/072	(73) Treeful Inc.	E05B 63/00
E04F 13/00	(72) KIKUGAWA, Satoru	(11) EP3969697
(11) EP3114289	(31) 2019231611	(21) EP20724147.2
(21) EP15749545.8	(32) 23.12.2019	(47) 06.12.2023
(47) 06.12.2023	(33) Japan	(87) EP2020063217
(87) US2015015921	(51) E04H 1/12	26.11.2020
20.08.2015	E04B 1/348	(22) 12.05.2020
	(11) EP3362617	(54) A LOCK CONFIGURED TO BE OPERATED BY A KEY
	(21) EP16788048.3	(73) Banham Patent Locks Holdings Limited
	(47) 06.12.2023	(72) HOLDA, Ji í
	(87) EP2016074413	OJEDA, Alejandro
	20.04.2017	(31) 19175228
	(22) 12.10.2016	(32) 17.05.2019

(33) European Patent Office (EPO)	(22) 06.01.2021	(32) 04.03.2019
(51) E05B 47/02	(54) MOTOR VEHICLE LOCK	(33) Denmark
E05B 47/06	(73) Kiekert Aktiengesellschaft	(51) E05F 15/689
G07C 9/00	(72) BASAVARAJAPPA, Madhu	E05F 15/695
E05B 47/00	(31) 102020100146	E05F 15/73
(11) EP4100597	(32) 07.01.2020	E05F 15/74
(21) EP21704232.4	(33) Germany	(11) EP3744938
(47) 06.12.2023	(51) E05D 3/08	(21) EP19177177.3
(87) EP2021052908	E05D 11/06	(47) 06.12.2023
12.08.2021	E05F 1/06	(22) 29.05.2019
(22) 08.02.2021	(11) EP3805498	(54) A SYSTEM AND METHOD FOR
(54) SMART LOCK	(21) EP20197947.3	MANAGING OPENING AND CLOSING
(73) Glue AB	(47) 06.12.2023	OF A VEHICLE WINDOW
(72) KING, Edward	(22) 24.09.2020	(73) Ningbo Geely Automobile Research &
VILLARREAL, Andoni	(54) FITTING AND SHOWER PARTITION	Development Co. Ltd.
CARSON, Andrew	(73) Schulte Duschcabinenbau GmbH & Co.	(72) NILSSON, Magnus
LIDDELL, Sarah	KG	LINDBERG NILSSON, Erik
(31) 202001724	(72) Albers, Martin	(51) E05F 15/73
(32) 07.02.2020	(31) 202020000400 U	E05D 7/081
(33) United Kingdom	202019004167 U	E05F 1/12
(51) E05B 47/02	(32) 22.01.2020	E05D 11/10
E05B 47/06	10.10.2019	(11) EP4062019
G07C 9/00	(33) Germany	(21) EP20801001.7
E05B 47/00	Germany	(47) 06.12.2023
(11) EP4100598	(51) E05D 3/08	(87) IB2020059594
(21) EP21704234.0	E05F 1/06	27.05.2021
(47) 06.12.2023	(11) EP3372765	(22) 13.10.2020
(87) EP2021052910	(21) EP18159063.9	(54) CLOSURE DEVICE AND SELF-
12.08.2021	(47) 06.12.2023	CLOSING PIVOT HINGE
(22) 08.02.2021	(22) 28.02.2018	(73) Portapivot BV
(54) SMART LOCK	(54) FITTING AND SHOWER PARTITION	(72) DRIES, Koen
(73) Glue AB	(73) Schulte Duschcabinenbau GmbH & Co.	DRIES, Rudi
(72) CARSON, Andrew	KG	(31) 201905821
LIDDELL, Sarah	(72) Albers, Martin	(32) 22.11.2019
KING, Edward	Wellenbrink, Thorsten	(33) Belgium
VILLARREAL, Andoni	(31) 202017006315 U	(51) E06B 3/44
(31) 202001724	202017001276 U	E05D 15/20
(32) 07.02.2020	(32) 08.12.2017	E05D 13/00
(33) United Kingdom	10.03.2017	E06B 3/263
(51) E05B 65/00	(33) Germany	(11) EP3480407
E05B 83/02	Germany	(21) EP18202497.6
E05C 1/14	(51) E05D 15/06	(47) 06.12.2023
E05B 13/00	(11) EP3656956	(22) 25.10.2018
E05B 85/16	(21) EP19211004.7	(54) VERTICAL PUSHING ELEMENT
E05B 85/22	(47) 06.12.2023	(73) Dobler Metallbau GmbH
E05B 15/04	(22) 22.11.2019	(72) Augustin, Christian
(11) EP3511492	(54) CARRIAGE FOR A SLIDING DOOR	Kain, Jürgen
(21) EP17784664.9	LEAF, SLIDING DOOR LEAF AND	Süß, Tanja
(47) 06.12.2023	DOOR LEAF ASSEMBLY COMPRISING	(31) 102017125576
(87) ES2017070555	SUCH A CARRIAGE	(32) 02.11.2017
15.03.2018	(73) Sotralu (Société par Actions Simplifiée)	(33) Germany
(22) 31.07.2017	(72) BREBAN, Cédric Christophe	(51) E06B 9/15
(54) CLOSURE MECHANISM FOR DOORS	(31) 1871857	E06B 9/17
OF GOODS VEHICLES	(32) 26.11.2018	E06B 9/58
(73) Mecanizados Rodriguez Fernandez, S.L.	(33) France	(11) EP3122982
(72) PEREZ LAGO, Miguel	(51) E05F 15/614	(21) EP15711553.6
DIAZ DIAZ, Francisco Javier	E05F 15/619	(47) 06.12.2023
(31) 201631102 U	(11) EP3705673	(87) EP2015056301
(32) 08.09.2016	(21) EP20154815.3	01.10.2015
(33) Spain	(47) 06.12.2023	(22) 24.03.2015
(51) E05B 77/04	(22) 31.01.2020	(54) ROLLER SHUTTER FOR OPENING
E05B 79/08	(54) ELECTRIC DRIVE SYSTEM FOR	AND CLOSING A DOORWAY
E05B 85/24	MOVING A WINDOW-RELATED	(73) Assa Abloy Entrance Systems AB
(11) EP4087994	ELEMENT WITH MECHANICAL LOCK	(72) FREDE, Friedhelm
(21) EP21701627.8	(73) VKR Holding A/S	(31) 1450346
(47) 06.12.2023	(72) CHRISTENSEN, Keld Sloth	(32) 25.03.2014
(87) DE2021100002	MORTENSEN, Martin Armand	(33) Sweden
15.07.2021	(31) PA201970150	

(51) E06B 9/17 E06B 9/174 E06B 9/50 E06B 9/58	(11) EP3695090 (21) EP18865692.0 (47) 06.12.2023 (87) US2018055230 18.04.2019	(31) 202016991889 (32) 12.08.2020 (33) United States of America
(11) EP3936695 (21) EP21182939.5 (47) 06.12.2023 (22) 17.10.2013 (54) LATERAL GUIDES (73) Wilms, Erik (72) Wilms, Erik (31) 201200716 (32) 23.10.2012 (33) Belgium	(22) 10.10.2018 (54) WELLBORE REAMING SYSTEMS AND DEVICES (73) Extreme Technologies, LLC (72) ASCHENBRENNER, Joseph SMITH, Joshua J. MEIER, Gilbert Troy (31) 201762570163 P (32) 10.10.2017 (33) United States of America	(51) E21B 21/06 B07B 1/24 B01D 11/02 (11) EP3752705 (21) EP19753725.1 (47) 06.12.2023 (87) AU2019050133 22.08.2019 (22) 18.02.2019 (54) METHOD AND APPARATUS FOR SEPARATING DRILL CUTTINGS FROM DRILL MUD (73) Solidsvac Pty Ltd (72) KROHN, Mark (31) 2018900547 (32) 18.02.2018 (33) Australia
(51) E06B 9/303 E06B 9/384 (11) EP3798404 (21) EP19203716.6 (47) 06.12.2023 (22) 17.10.2019 (54) WINDOW BLIND AND METHOD FOR ASSEMBLING SLATS THEREOF (73) Union Winner International Co., Ltd. (72) PAI, Ming-Tsung (31) 108212704 U (32) 25.09.2019 (33) Taiwan, Chinese Taipei	(51) E21B 17/01 E21B 17/02 E21B 17/08 E21B 33/038 H01R 13/523 E21B 19/00 E21B 41/00 E21B 36/00 E21B 47/017 (11) EP3642445 (21) EP18820697.3 (47) 06.12.2023 (87) BR2018050203 27.12.2018 (22) 21.06.2018 (54) OFFSHORE PRODUCTION SYSTEMS WITH TOP TENSIONED TENDONS FOR SUPPORTING ELECTRICAL POWER TRANSMISSION (73) Horton Do Brasil Tecnologia Offshore, LTDA. (72) I. L. SOUZA, Marcelo CASTELLO, Xavier M. R. GUIMARÃES, Rodrigo BODANESE, Luiz Germano BODANESE, Rafael (31) 201762523111 P (32) 21.06.2017 (33) United States of America	(51) E21B 33/038 E21B 33/064 E21B 41/00 (11) EP3551838 (21) EP17860913.7 (47) 06.12.2023 (87) US2017056697 19.04.2018 (22) 14.10.2017 (54) APPARATUSES AND METHODS FOR COUPLING ONE OR MORE AUXILIARY LINES TO A SUBSEA WELL CONTROL ASSEMBLY (73) Transocean Sedco Forex Ventures Limited (72) MCCORMICK, Craig KOZICZ, John (31) 201662408574 P (32) 14.10.2016 (33) United States of America
(51) E21B 3/00 E21B 4/00 E21B 7/00 E21B 17/00 (11) EP3784862 (21) EP19791783.4 (47) 06.12.2023 (87) US2019029754 31.10.2019 (22) 29.04.2019 (54) HYBRID BEARING ASSEMBLIES FOR DOWNHOLE MOTORS (73) National Oilwell DHT, L.P. (72) MARCHAND, Nicholas Ryan CLAUSEN, Jeffery Ronald (31) 201862663691 P (32) 27.04.2018 (33) United States of America	(37) 27.12.2018 (22) 21.06.2017 (33) United States of America (51) E21B 19/084 E21B 44/02 E21B 19/00 (11) EP4215717 (21) EP22152299.8 (47) 06.12.2023 (22) 19.01.2022 (54) CONSTRUCTION MACHINE AND METHOD FOR OPERATING A CONSTRUCTION MACHINE (73) BAUER Maschinen GmbH (72) OSTERLAND, Matthias VOIGT, Marco	(51) E21B 33/06 (11) EP3334896 (21) EP16753554.1 (47) 06.12.2023 (87) US2016046249 23.02.2017 (22) 10.08.2016 (54) BLOWOUT PREVENTER PACKING ASSEMBLY (73) National Oilwell Varco, L.P. (72) MIRELES, Lydia Mata GARCIA, Sergio FOLLETT, Nathan (31) 201562205151 P (32) 14.08.2015 (33) United States of America
(51) E21B 7/24 E21B 4/02 E21B 4/14 E21B 28/00 E21B 31/00 (11) EP3710665 (21) EP18878333.6 (47) 06.12.2023 (87) US2018051708 23.05.2019 (22) 19.09.2018 (54) VIBRATION ASSEMBLY AND METHOD (73) Rival Downhole Tools LC (72) VON GYNZ-REKOWSKI, Gunther, Hh MITCHELL, Steven, Samuel LEITKO, Curtis, E. KOENIG, Russell, Wayne HERBEN, William, Christian (31) 201715816281 (32) 17.11.2017 (33) United States of America	(51) E21B 19/10 E21B 19/24 F16B 21/10 (11) EP3954860 (21) EP21188442.4 (47) 06.12.2023 (22) 29.07.2021 (54) SPLIT BOWL WEAR BUSHING (73) Forum US, Inc. (72) GRANGER, Jeremy S. CHILDRESS, Lawrence E.	(51) E21B 33/127 (11) EP3743593 (21) EP19701357.6 (47) 06.12.2023 (87) EP2019051702 01.08.2019 (22) 24.01.2019 (54) DOWNHOLE WIRELINE INTERVENTION TOOL (73) Welltec Oilfield Solutions AG (72) ANDERSEN, Tomas Sune (31) 18153490

(32) 25.01.2018	(21) EP21205518.0	(54) ROTARY VACUUM PUMP WITH A
(33) European Patent Office (EPO)	(47) 06.12.2023	ROTOR END GROOVE
(51) E21B 34/10	(22) 29.10.2021	(73) ZF CV Systems Europe BV
E21B 17/18	(54) CONSTRUCTION MACHINE AND	(72) HEAPS, David
(11) EP4022166	METHOD FOR OPERATING THE	SAXTON, Phillip
(21) EP20757068.0	CONSTRUCTION MACHINE	TODMAN, Peter
(47) 06.12.2023	(73) BAUER Maschinen GmbH	(51) F01D 5/00
(87) US2020043821	(72) SCHMIDMEIR, Tobias	F01D 5/02
04.03.2021	BACHHUBER, Stefan	B33Y 80/00
(22) 28.07.2020	MAYR, Markus	B23P 6/00
(54) STINGER FOR COMMUNICATING	(51) E21D 11/10	(11) EP3885531
FLUID LINE WITH DOWNHOLE TOOL	(11) EP4209656	(21) EP21164934.8
(73) Weatherford Technology Holdings, LLC	(21) EP22152345.9	(47) 06.12.2023
(72) GARAY, Serge	(47) 06.12.2023	(22) 25.03.2021
BAHR, Glenn A.	(22) 20.01.2022	(54) TURBINE BLADE REPAIR METHOD
(31) 201916552878	(54) MODULAR TUNNEL FORMWORK	USING ADDITIVE MANUFACTURING
(32) 27.08.2019	DEVICE	(73) Doosan Enerbility Co., Ltd.
(33) United States of America	(73) Kern Tunneltechnik SA	(72) SHIN, Young Ho
(51) E21B 43/013	(72) KERN, Reiner	(31) 20200037317
E21B 21/08	(31) 22150523	20200037319
E21B 43/01	(32) 07.01.2022	(32) 27.03.2020
F16L 1/12	(33) European Patent Office (EPO)	27.03.2020
F16L 1/15	(51) E21D 11/10	(33) Korea (Republic)
F16L 3/00	(11) EP3810898	Korea (Republic)
F16L 5/00	(21) EP19749791.0	(51) F01D 5/06
B01D 19/00	(47) 06.12.2023	F04D 29/64
E21B 43/12	(87) IB2019055257	(11) EP3957824
(11) EP3695094	26.12.2019	(21) EP21202737.9
(21) EP18865782.9	(22) 21.06.2019	(47) 06.12.2023
(47) 06.12.2023	(54) FORMWORK FOR THE PRODUCTION	(22) 02.05.2018
(87) NO2018050244	OF CONCRETE ARTICLES	(54) TANDEM ROTOR DISK APPARATUS
18.04.2019	(73) Sointek S.r.l.	AND CORRESPONDING GAS TURBINE
(22) 12.10.2018	(72) MANCINI, Michele	ENGINE
(54) RISER SURGE PROTECTION SYSTEM	ROBERTO, Roberto	(73) RTX Corporation
(73) Equinor Energy AS	(31) 201800006588	(72) DITOMASSO, John C.
(72) NORDSVEEN, Magnus	(32) 22.06.2018	FORCIER, Matthew P.
KJELDBY, Tor Kindsbekken	(33) Italy	(31) 201715642677
EIDSMOEN, Håvard	(51) E21F 13/02	(32) 06.07.2017
VALLE, Arne	E21F 13/08	(33) United States of America
(31) 201811556	G05D 1/02	(51) F01D 5/14
201716719	G01S 17/42	F01D 5/16
(32) 13.07.2018	G01S 17/87	F01D 9/04
12.10.2017	G01S 17/89	(11) EP3315722
(33) United Kingdom	B65G 41/00	(21) EP17197885.1
United Kingdom	(11) EP3526446	(47) 06.12.2023
(51) E21B 43/12	(21) EP16782054.7	(22) 23.10.2017
E21B 47/017	(47) 06.12.2023	(54) GAS TURBINE ENGINE AIRFOILS
F04D 29/58	(87) EP2016074732	HAVING MULTIMODAL THICKNESS
F04D 13/10	19.04.2018	DISTRIBUTIONS
(11) EP3844369	(22) 14.10.2016	(73) Honeywell International Inc.
(21) EP19766401.4	(54) SCANNING-BASED STEERING	(72) VOGIATZIS, Constantinos
(47) 06.12.2023	OF A MOBILE HAULAGE SYSTEM	GEBRE-GIORGIS, Yoseph
(87) US2019048547	FOR CONTINUOUSLY CONVEYING	(31) 201615338026
05.03.2020	FRAGMENTED MATERIAL	(32) 28.10.2016
(22) 28.08.2019	(73) Sandvik Intellectual Property AB	(33) United States of America
(54) ARTIFICIAL LIFT	(72) RIEGER, Hubert	(51) F01D 5/18
(73) Upwing Energy, LLC	(51) F01C 21/10	F01D 9/04
(72) CHEN, Kuo-Chiang	F04C 25/02	(11) EP3983650
BIDDICK, David	F04C 29/06	(21) EP20740362.7
MCMULLEN, Patrick	F04C 18/344	(47) 06.12.2023
ARTINIAN, Herman	F04C 29/02	(87) FR2020050928
(31) 201862724458 P	F04C 27/00	17.12.2020
(32) 29.08.2018	(11) EP3523505	(22) 01.06.2020
(33) United States of America	(21) EP16778686.2	(54) TURBOMACHINE TURBINE
(51) E21B 44/02	(47) 06.12.2023	HAVING CMC NOZZLE WITH LOAD
E21B 19/084	(87) EP2016001672	SPREADING
E21B 7/02	19.04.2018	(73) SAFRAN AIRCRAFT ENGINES
(11) EP4174283	(22) 10.10.2016	(72) GAILLARD, Aurélien

DANIS, Antoine, Claude, Michel, Etienne JARROSSAY, Clément LEPRETRE, Gilles, Gérard, Claude TABLEAU, Nicolas, Paul (31) 1906244 (32) 12.06.2019 (33) France	(54) VANE SEGMENT WITH PIN MOUNT AND ANTI-ROTATION STABILIZER ROD (73) RTX Corporation (72) SOBANSKI, Jon E. FARRAR, Bryan H. (31) 202117150184 (32) 15.01.2021 (33) United States of America	(33) Germany (51) F01N 3/022 F01N 3/035 F01N 3/28 F01N 13/16 B01D 46/24 B01J 37/02 (11) EP4043705 (21) EP22155863.8 (47) 06.12.2023 (22) 09.02.2022 (54) METHOD FOR TREATING A PARTICULATE FILTER FOR EXHAUST GASES AND FILTER OBTAINABLE BY SUCH A METHOD (73) Johnson Matthey Public Limited Company (72) BURMESTER, Sabina HOTCHKISS, Thomas MARVELL, David SAPSFORD, Jonathon (31) 202163200075 P (32) 12.02.2021 (33) United States of America
(51) F01D 5/20 B22F 5/00 B22F 5/04 B33Y 10/00 B33Y 80/00 B23K 26/342 (11) EP4028643 (21) EP20799956.6 (47) 06.12.2023 (87) US2020070604 06.05.2021 (22) 01.10.2020 (54) TURBINE BLADE, METHOD OF MANUFACTURING A TURBINE BLADE AND METHOD OF REFURBISHING A TURBINE BLADE (73) Siemens Energy Global GmbH & Co. KG (72) WILLIAMSON, Stephen WANG, Lieke GUNGOR, Mehmet JIANG, Nan (31) 201962926728 P (32) 28.10.2019 (33) United States of America	(51) F01D 25/18 F01D 25/20 F02C 7/28 (11) EP4036379 (21) EP21215136.9 (47) 06.12.2023 (22) 16.12.2021 (54) BEARING HOUSING OF A GAS TURBINE ENGINE (73) PRATT & WHITNEY CANADA CORP. (72) MORENKO, Oleg (31) 202017123278 (32) 16.12.2020 (33) United States of America (51) F01D 25/36 F02C 7/277 F01D 21/00 (11) EP3686402 (21) EP20164205.5 (47) 06.12.2023 (22) 10.02.2017 (54) BOWED ROTOR PREVENTION SYSTEM (73) RTX Corporation (72) CLAUSON, Jesse W. SELSTAD, Tyler J (31) 201615042331 (32) 12.02.2016 (33) United States of America	(51) F01N 3/10 F01N 3/20 F01N 3/025 F02M 31/16 F01N 3/02 (11) EP4019748 (21) EP21215216.9 (47) 06.12.2023 (22) 16.12.2021 (54) HEATING DEVICE FOR AN EXHAUST SYSTEM OF AN INTERNAL COMBUSTION ENGINE (73) Marelli Europe S.p.A. (72) BRIGNONE, Mauro LA SANA, Marco MILANI, Emanuele RIVELLA, Stefano (31) 202000032171 (32) 23.12.2020 (33) Italy
(51) F01D 5/20 F01D 11/12 F01D 5/22 (11) EP4051878 (21) EP20823720.6 (47) 06.12.2023 (87) DE2020000242 06.05.2021 (22) 14.10.2020 (54) ROTOR BLADE ARRANGEMENT FOR A TURBOMACHINE (73) MTU Aero Engines AG (72) MAAR, Karl (31) 102019216646 (32) 29.10.2019 (33) Germany	(51) F01K 25/08 F25B 25/00 F25B 27/00 (11) EP3052773 (21) EP14824039.3 (47) 06.12.2023 (87) FR2014052484 09.04.2015 (22) 01.10.2014 (54) THERMODYNAMIC SYSTEM FOR STORING/PRODUCING ELECTRICAL ENERGY (73) BOREALES ENERGY (72) OUVRY, Patrick (31) 1359614 (32) 03.10.2013 (33) France	(51) F01N 3/20 F01N 3/027 F01N 13/18 (11) EP4074947 (21) EP22162375.4 (47) 06.12.2023 (22) 16.03.2022 (54) HEATING CONDUCTOR FOR AN EXHAUST GAS HEATING SYSTEM (73) Purem GmbH (72) Uysal, Fatih Kurpejovic, Enver Tüber, Klaus Höckel, Sandra (31) 102021109567 (32) 16.04.2021 (33) Germany
(51) F01D 5/28 F01D 5/26 (11) EP3561232 (21) EP19181209.8 (47) 06.12.2023 (22) 06.10.2015 (54) COMPOSITE COMPONENT (73) Rolls-Royce plc (72) Jevons, Matthew James, Darren Kalwak, Gordon (31) 201418581 (32) 20.10.2014 (33) United Kingdom	(51) F01M 13/04 (11) EP3914812 (21) EP20701133.9 (47) 06.12.2023 (87) EP2020000004 30.07.2020 (22) 08.01.2020 (54) CYLINDER HEAD (73) DEUTZ Aktiengesellschaft (72) INDEN, Alfred BERTRAM, Daniel LEYH, Gerald (31) 102019000498 (32) 23.01.2019	(51) F01N 3/20 F01N 11/00 G01N 33/00 (11) EP3682097 (21) EP17928486.4 (47) 06.12.2023 (87) IB2017056259

18.04.2019	F02B 77/04	(54) SYSTEMS AND METHODS FOR
(22) 10.10.2017	F02D 15/00	PURGING A FUEL MANIFOLD OF A
(54) SYSTEM AND METHOD TO MITIGATE	(11) EP3748145	GAS TURBINE ENGINE
SENSOR FAILURES DUE TO WATER	(21) EP19178942.9	(73) Pratt & Whitney Canada Corp.
CONDENSATION	(47) 06.12.2023	(72) JARVO, James Robert
(73) Cummins Inc.	(22) 07.06.2019	SAINTIGNAN, Cédric
(72) JOSHI, Saurabh Y.	(54) VARIABLE COMPRESSION RATIO	MOKHTAR, Hytham
CURRIER, Neal W.	(VCR) ENGINE	(31) 202017061856
YEZERETS, Aleksey	(73) Winterthur Gas & Diesel Ltd.	201962913345 P
KUMAR, Ashok	(72) Huber, Cyril	(32) 02.10.2020
RASH, Tyler A.	Nylund, Ingemar	10.10.2019
SRINIVASAN, Anand	Räss, Konrad	(33) United States of America
WANG, Di	Ott, Marcel	United States of America
TANG, Yadan	(51) F02C 7/04	(51) F02D 41/02
(51) F01P 3/20	F02C 7/14	F02D 41/00
F01P 7/16	F01D 17/14	(11) EP3704362
(11) EP3680464	F02C 7/08	(21) EP18782981.7
(21) EP20151297.7	(11) EP3981972	(47) 06.12.2023
(47) 06.12.2023	(21) EP21200620.9	(87) EP2018077114
(22) 10.01.2020	(47) 06.12.2023	09.05.2019
(54) IMPROVED COOLING SYSTEM FOR	(22) 04.10.2021	(22) 05.10.2018
AN INTERNAL COMBUSTION ENGINE	(54) A HEAT EXCHANGER	(54) METHOD FOR THE REGENERATION
(73) FPT Motorenforschung AG	(73) Rolls-Royce plc	OF A SOOT PARTICLE FILTER
(72) BORG, Jonathan	(72) Bradbrook, Stephen	(73) Volkswagen Aktiengesellschaft
GSTREIN, Wolfgang	Goodhand, Martin	(72) NEE, Christoph
(31) 201900000559	Hield, Paul	JUNGNICKEL, Christian
(32) 14.01.2019	Parsley, Andrew	(31) 102017219594
(33) Italy	Wong, Natalie	(32) 03.11.2017
(51) F01P 3/20	Corin, Robert	(33) Germany
F01P 7/16	Binnington, Thomas	(51) F02F 3/22
F02M 21/02	(31) 202016008	F02F 3/00
F02M 21/06	(32) 09.10.2020	F02B 23/06
(11) EP3743607	(33) United Kingdom	(11) EP2710247
(21) EP18711682.7	(51) F02C 7/045	(21) EP12714133.1
(47) 06.12.2023	F02C 7/047	(47) 06.12.2023
(87) IB2018000200	(11) EP3236047	(87) US2012030790
01.08.2019	(21) EP17166941.9	29.11.2012
(22) 26.01.2018	(47) 06.12.2023	(22) 28.03.2012
(54) COOLING CIRCUIT MANAGEMENT	(22) 18.04.2017	(54) STEEL PISTONS WITH COOLING
FOR TRANSPORT REFRIGERATION	(54) SHORT INLET WITH INTEGRATED	GALLERY
UNIT GAS ENGINE	LINER ANTI-ICING	(73) Federal-Mogul LLC
(73) Carrier Corporation	(73) RTX Corporation	(72) MUSCAS, Florin
(72) RENAULT, Loic	(72) WELCH, David A.	(31) 201113112772
(51) F02B 29/04	(31) 201615131145	(32) 20.05.2011
F02B 19/10	(32) 18.04.2016	(33) United States of America
F02B 19/12	(33) United States of America	(51) F02K 1/76
F02B 39/08	(51) F02C 7/14	(11) EP3988779
F02M 26/00	F02C 7/18	(21) EP21203790.7
F02M 26/06	F02C 7/20	(47) 06.12.2023
F02M 26/08	(11) EP4170145	(22) 20.10.2021
F02M 26/20	(21) EP22202641.1	(54) METHOD AND SYSTEM FOR THRUST
F02B 37/04	(47) 06.12.2023	REVERSER OPERATION
F02B 39/10	(22) 20.10.2022	(73) PRATT & WHITNEY CANADA CORP.
(11) EP3812559	(54) AIRCRAFT PROPULSION ASSEMBLY	(72) ASSI, Hamza
(21) EP20200283.8	COMPRISING A PLATE HEAT	SYED, Yusuf
(47) 06.12.2023	EXCHANGER WITH HEXAGONAL	SABAU, Ioan
(22) 06.10.2020	LONGITUDINAL SECTION	(31) 202017076192
(54) FLUSHING FLUID FEEDING OF AN	POSITIONED IN A BIFURCATION	(32) 21.10.2020
ACTIVE PRECOMBUSTION CHAMBER	(73) AIRBUS OPERATIONS (S.A.S.)	(33) United States of America
FOR A TURBOCHARGED SPARK	(72) SOULIE, Adeline	(51) F02K 1/76
IGNITED ENGINE IN COMBINATION	(31) 2111290	F02K 1/72
WITH A TURBO-COOLING	(32) 25.10.2021	F02K 1/62
(73) VOLKSWAGEN AG	(33) France	(11) EP4033084
(72) MICHELS, Karsten	(51) F02C 7/232	(21) EP22151861.6
(31) 102019128334	(11) EP3805540	(47) 06.12.2023
(32) 21.10.2019	(21) EP20201405.6	(22) 17.01.2022
(33) Germany	(47) 06.12.2023	(54) TURBOFAN ENGINE COMPRISING A
(51) F02B 75/04	(22) 12.10.2020	SYSTEM FOR BLOCKING THE BYPASS

FLOW BY MEANS OF FLEXIBLE ELEMENTS	(33) Germany	(11) EP3879100
(73) AIRBUS OPERATIONS	(51) F03D 13/20	(21) EP21171706.1
(72) PORTE, Alain	F03D 80/80	(47) 06.12.2023
CZAPLA, Lionel	E04H 12/00	(22) 22.12.2014
THUBERT, Benjamin	E04H 12/08	(54) SAFETY CLOSURES AND PUMPING SYSTEMS
(31) 2100620	(11) EP3864288	(73) CMC Materials, Inc.
(32) 22.01.2021	(21) EP19783529.1	Krywitsky, Lee A.
(33) France	(47) 06.12.2023	(72) KRYWITSKY, Lee A.
(51) F03D 7/02	(87) EP2019077044	CHISHOLM, Dean
(11) EP3966449	16.04.2020	(31) 201414577453
(21) EP20730568.1	(22) 07.10.2019	201361921285 P
(47) 06.12.2023	(54) WIND TURBINE	(32) 19.12.2014
(87) DK2020050132	(73) RWE Offshore Wind GmbH	27.12.2013
12.11.2020	(72) OBERMEYER, Sebastian	(33) United States of America
(22) 05.05.2020	KLUGKIST, Jürgen	United States of America
(54) WIND TURBINE CONTROL USING PREDICTED STEADY-STATE DEFLECTION	SCHLÜTER, Thorsten	(51) F04B 15/00
(73) VESTAS WIND SYSTEMS A/S	RUNGE, Jörn	H05K 7/20
(72) HOVGAARD, Tobias Gybel	(31) 102018125323	H01L 23/473
GRUNNET, Jacob Deleuran	(32) 12.10.2018	F04B 43/12
(31) PA201970299	(33) Germany	F04B 19/00
(32) 09.05.2019	(51) F03D 13/25	H05K 1/02
(33) Denmark	F03D 80/80	H05K 1/03
(51) F03D 7/02	(11) EP3976962	(11) EP3874168
(11) EP4093966	(21) EP20726738.6	(21) EP19797479.3
(21) EP21711763.9	(47) 06.12.2023	(47) 06.12.2023
(47) 06.12.2023	(87) EP2020063153	(87) US2019055985
(87) EP2021055070	03.12.2020	07.05.2020
10.09.2021	(22) 12.05.2020	(22) 11.10.2019
(22) 01.03.2021	(54) HOLLOW STRUCTURAL ELEMENT OF A WIND TURBINE	(54) MICROFLUIDIC CHANNELS AND PUMPS FOR ACTIVE COOLING OF CIRCUIT BOARDS OR CABLES
(54) METHOD AND DEVICE FOR CONTROLLING A WIND TURBINE TO REDUCE NOISE	(73) RWE Offshore Wind GmbH	(73) Amazon Technologies Inc.
(73) Siemens Gamesa Renewable Energy A/S	(72) RUNGE, Dr.-Ing. Jörn	(72) FLOWERS, Jonathan Barak
(72) ESBENSEN, Thomas	(31) 102019114655	MEHNERT, Herbert
HOEGH, Gustav	(32) 31.05.2019	(31) 201816175475
(31) 20161223	(33) Germany	201816175456
(32) 05.03.2020	(51) F03D 17/00	(32) 30.10.2018
(33) European Patent Office (EPO)	(11) EP3988782	30.10.2018
(51) F03D 7/04	(21) EP20203107.6	(33) United States of America
(11) EP3791060	(47) 06.12.2023	United States of America
(21) EP19723004.8	(22) 21.10.2020	(51) F04B 15/04
(47) 06.12.2023	(54) METHOD FOR CALIBRATING ONE OR MORE LOAD SENSORS IN A ROTOR BLADE OF A WIND TURBINE	F16J 1/00
(87) DK2019050134	(73) Nordex Energy SE & Co. KG	F04B 53/14
14.11.2019	(72) Fischle, Kurt	F16J 1/12
(22) 02.05.2019	(51) F03D 80/50	(11) EP3775629
(54) WIND TURBINE CONTROL METHOD	(11) EP3704375	(21) EP19716000.5
(73) VESTAS WIND SYSTEMS A/S	(21) EP18874405.6	(47) 06.12.2023
(72) VESTERGAARD, Jakob	(47) 06.12.2023	(87) IB2019052067
NIELSEN, Anders Steen	(87) DK2018050272	10.10.2019
MURCIA, Juan Pablo	09.05.2019	(22) 14.03.2019
(31) PA201870273	(22) 26.10.2018	(54) PISTON MADE OF CERAMIC MATERIAL
(32) 07.05.2018	(54) A METHOD FOR PERFORMING MAINTENANCE ON A WIND TURBINE PART	(73) Annovi Reverberi S.p.A.
(33) Denmark	(73) Vestas Wind Systems A/S	(72) ARGENTINO, Pierluigi
(51) F03D 7/04	(72) CHRISTENSEN, Jan	(31) 201800004176
(11) EP3792485	(31) 17199863	(32) 03.04.2018
(21) EP20192112.9	(32) 03.11.2017	(33) Italy
(47) 06.12.2023	(33) European Patent Office (EPO)	(51) F04B 17/00
(22) 21.08.2020	(51) F04B 9/14	F04B 19/00
(54) METHOD FOR CONTROLLING A WIND TURBINE AND DEVICE FOR SAME	F04B 17/06	F28F 13/16
(73) Wobben Properties GmbH	F04B 53/16	(11) EP4055339
(72) Giertz, Helge	F04B 53/22	(21) EP20803785.3
(31) 102019124400	F16J 13/12	(47) 06.12.2023
(32) 11.09.2019	F16L 55/115	(87) EP2020081239
	F16J 13/24	14.05.2021
		(22) 06.11.2020

(54) ELECTROHYDRODYNAMICS SYSTEM AND METHOD	(72) FUKAMI, Tadashi ITAHARA, Kazuki	22.11.2018
(73) APR Technologies AB	(31) 2020043931	(22) 27.04.2018
(72) ANTELIUS, Mikael LÖFGREN, Henrik BJÖRNEKLETT, Are NILSSON, Peter THORSLUND, Robert	(31) 2020043930 (32) 13.03.2020 13.03.2020 (33) Japan Japan	(54) CONTROL DEVICE FOR SUPPLYING AT LEAST ONE HYDRAULIC CONSUMER WITH FLUID (73) Hydac Systems & Services GmbH (72) HUTH, Heinz-Peter ANTON, Marc
(31) 1951280	(51) F04B 43/02	(31) 102017004634
(32) 08.11.2019	F04B 53/10	(32) 15.05.2017
(33) Sweden	(11) EP3864291	(33) Germany
(51) F04B 27/18	(21) EP19789888.5	(51) F04C 2/10
(11) EP3835578	(47) 06.12.2023	F04C 11/00
(21) EP19848099.8	(87) EP2019077346	F04C 19/00
(47) 06.12.2023	16.04.2020	(11) EP3693604
(87) JP2019031067	(22) 09.10.2019	(21) EP17927886.6
13.02.2020	(54) MEMBRANE PUMP	(47) 06.12.2023
(22) 07.08.2019	(73) PSG Germany GmbH	(87) JP2017036232
(54) CAPACITY CONTROL VALVE	(72) NETTESHEIM, Simon	11.04.2019
(73) Eagle Industry Co., Ltd.	(31) 102018008036	(22) 05.10.2017
(72) HAYAMA Masahiro	(32) 11.10.2018	(54) GEAR PUMP
FUKUDOME Kohei	(33) Germany	(73) TBK Co., Ltd.
EJIMA Takahiro	(51) F04B 43/08	(72) TERADA, Yoshiyuki
KURIHARA Daichi	F04B 43/09	(51) F04C 2/107
TAKAHASHI Wataru	F04B 43/12	F04C 15/00
SHIRAFUJI Keigo	F04B 43/00	E21B 43/00
(31) 2018149803	F04B 51/00	(11) EP3916230
(32) 08.08.2018	F04B 49/10	(21) EP19911151.9
(33) Japan	F04B 49/06	(47) 06.12.2023
(51) F04B 37/14	(11) EP4036407	(87) CN2019113652
F04B 41/06	(21) EP22154617.9	30.07.2020
F04B 37/02	(47) 06.12.2023	(22) 28.10.2019
(11) EP3976964	(22) 01.02.2022	(54) ALL-METAL CONICAL COMBINED SCREW PUMP SUITABLE FOR FIELD OF PETROLEUM
(21) EP20723494.9	(54) PUMP CONTROL BASED ON BUBBLE DETECTION	(73) Wuxi Hengxin Beishi Technology Co., Ltd
(47) 06.12.2023	(73) Masterflex, LLC	(72) LIANG, Haiyang
(87) GB2020051014	(72) LEISERING, Steven Carl	ZHOU, Guang
03.12.2020	(31) 202217582455	ZHANG, Zhihai
(22) 24.04.2020	202163144794 P	(31) 201910071838
(54) A VACUUM PUMPING SYSTEM HAVING MULTIPLE PUMPS	(32) 24.01.2022	(32) 25.01.2019
(73) Edwards Limited	02.02.2021	(33) China
(72) CHEW, Andrew David	(33) United States of America	(51) F04C 14/06
(31) 201907350	United States of America	F04C 14/28
(32) 24.05.2019	(51) F04B 49/06	F04C 2/344
(33) United Kingdom	F04B 49/08	(11) EP3583318
(51) F04B 39/00	F04B 49/10	(21) EP18714373.0
(11) EP4074972	F04B 35/04	(47) 06.12.2023
(21) EP22166212.5	F04B 39/06	(87) US2018000086
(47) 06.12.2023	F04B 41/02	23.08.2018
(22) 31.03.2022	(11) EP4100651	(22) 16.02.2018
(54) PISTON OF AIR COMPRESSOR	(21) EP20706115.1	(54) SYTEM AND METHOD FOR LIQUID FUEL DELIVERY
(73) Chou, Wen-San	(47) 06.12.2023	(73) Advanced Flow Solutions, Inc.
Chou, Cheng-Hsien	(87) EP2020052884	(72) CROWDER, Don
(72) Chou, Wen-San	12.08.2021	DAVISSON, Grant
Chou, Cheng-Hsien	(22) 05.02.2020	PATTEN, Jeremy
(31) 110113460	(54) A METHOD FOR OPERATING AN ELECTRIC AIR COMPRESSOR ASSEMBLY	(31) 201762459887 P
(32) 14.04.2021	(73) VOLVO TRUCK CORPORATION	(32) 16.02.2017
(33) Taiwan, Chinese Taipei	(72) PROD'HOMME, Nathan	(33) United States of America
(51) F04B 43/00	BEBON, Hugo	(51) F04C 18/12
F04B 43/02	(51) F04B 49/10	F04C 25/02
F04B 45/04	F04B 49/00	F04C 28/28
(11) EP3879102	F15B 11/16	(11) EP4048898
(21) EP21156792.0	(11) EP3625457	(21) EP20793086.8
(47) 06.12.2023	(21) EP18722442.3	(47) 06.12.2023
(22) 12.02.2021	(47) 06.12.2023	(87) GB2020052511
(54) DIAPHRAGM PUMP AND PRESSURE REGULATING APPARATUS	(87) EP2018060866	29.04.2021
(73) OKENSEIKO CO., LTD.		

(22) 09.10.2020	F04D 29/42	F16K 27/02
(54) SENSOR ASSEMBLY	(11) EP3828417	F04D 13/06
(73) Edwards Limited	(21) EP20190659.1	F04D 29/62
(72) MCBRIEN, Peter Anthony	(47) 06.12.2023	F04D 1/06
FISHER, Geoffrey Peter	(22) 12.08.2020	(11) EP3156661
(31) 201915349	(54) BRIDGED STAGE PIECE	(21) EP15189914.3
(32) 23.10.2019	(73) Sulzer Management AG	(47) 06.12.2023
(33) United Kingdom	(72) Haack, Ryan	(22) 15.10.2015
(51) F04C 28/12	(31) 201962941353 P	(54) DOMESTIC WATER SYSTEM OR PUMP
F04C 28/26	(32) 27.11.2019	WITH A CHECK VALVE
F04C 18/16	(33) United States of America	(73) Grundfos Holding A/S
(11) EP3812591	(51) F04D 13/08	(72) Sierakowski-Sørensen, Janus Lukas
(21) EP18930181.5	F04D 15/02	(51) F04D 29/56
(47) 06.12.2023	(11) EP4115085	F04D 29/16
(87) CN2018122215	(21) EP20819779.8	F01D 17/16
20.02.2020	(47) 06.12.2023	F04D 29/68
(22) 20.12.2018	(87) EP2020085310	(11) EP3730800
(54) SLIDE VALVE, SLIDE VALVE	10.09.2021	(21) EP18892377.5
ADJUSTMENT MECHANISM AND	(22) 09.12.2020	(47) 06.12.2023
SCREW COMPRESSOR	(54) SUBMERSIBLE PUMP WITH TOUCH	(87) JP2018037724
(73) Gree Electric Appliances, Inc. of Zhuhai	SENSITIVE SENSORS	27.06.2019
(72) BI, Yushi	(73) HUSQVARNA AB	(22) 10.10.2018
ZHANG, Zhiping	(72) DRÖSSLER, Christian	(54) AXIAL COMPRESSOR
LONG, Zhongkeng	GUNGL, Johannes	(73) IHI CORPORATION
CAO, Cong	(31) 20160303	(72) HOSAKA, Haruki
LI, Rihua	(32) 02.03.2020	TANAKA, Nozomi
(31) 201810913935	(33) European Patent Office (EPO)	TANAKA, Ryuuta
(32) 13.08.2018	(51) F04D 25/08	HAZU, Takayuki
(33) China	A41D 13/018	KATO, Dai
(51) F04C 29/00	F04D 27/00	SATO, Daisuke
F04C 18/02	(11) EP3696422	(31) 2017245080
(11) EP3159544	(21) EP17928379.1	(32) 21.12.2017
(21) EP16194059.8	(47) 06.12.2023	(33) Japan
(47) 06.12.2023	(87) CN2017105381	(51) F04F 5/02
(22) 17.10.2016	18.04.2019	F04F 5/10
(54) SCROLL FLUID MACHINE	(22) 09.10.2017	F04F 5/14
(73) MITSUBISHI HEAVY INDUSTRIES	(54) RAPID INFLATING AND DISCHARGING	F04F 5/46
THERMAL SYSTEMS, LTD.	DEVICE FOR PROTECTIVE SUIT	(11) EP3953588
(72) TANIGUCHI, Masahiro	AND INTELLIGENT MULTI-PURPOSE	(21) EP20719576.9
KIMATA, Yoshiyuki	PROTECTIVE SUIT COMPRISING	(47) 06.12.2023
SATO, Hajime	SAME	(87) EP2020058994
TAKASU, Yogo	(73) Beijing MKS Research Institute	15.10.2020
HOTTA, Youhei	(72) SUN, Yingui	(22) 30.03.2020
TATEISHI, Taichi	ZHOU, Hui Elizabeth	(54) JET PUMP
YAMASHITA, Takuma	WANG, Shiguo	(73) NORMA Germany GmbH
KANAI, Akihiro	ZHANG, Sai	(72) KINTEA, Daniel
(31) 2015206684	(51) F04D 29/02	GABRYS, Lukasz
(32) 20.10.2015	F04D 29/40	KAHL, Christian
(33) Japan	F04D 29/70	VON BREITENBACH, Gerrit
(51) F04D 1/06	B33Y 80/00	SAJDAK, Michal
F04D 29/041	(11) EP4100652	(31) 102019109195
(11) EP3622179	(21) EP20817429.2	(32) 08.04.2019
(21) EP18730890.3	(47) 06.12.2023	(33) Germany
(47) 06.12.2023	(87) EP2020085290	(51) F15B 1/02
(87) US2018031944	12.08.2021	(11) EP3695123
15.11.2018	(22) 09.12.2020	(21) EP18793449.2
(22) 10.05.2018	(54) GARDEN PUMP WITH	(47) 06.12.2023
(54) MULTI-STAGE PUMP WITH	THERMOSENSITIVE LINER	(87) FI2018050716
ENHANCED THRUST BALANCING	(73) HUSQVARNA AB	18.04.2019
FEATURES	(72) KLOTZ, Boris	(22) 05.10.2018
(73) ITT Manufacturing Enterprises LLC	DRÖSSLER, Christian	(54) HYDRAULIC SYSTEM AND A
(72) BEHNKE, Paul Walter	(31) 20155779	CONTROL SYSTEM FOR THE SAME
DACH, Timothy Michael	(32) 06.02.2020	(73) Norrhydro OY
PRECIADO, Carlos	(33) European Patent Office (EPO)	(72) LAPPALAINEN, Ari
(31) 201762504166 P	(51) F04D 29/42	SAHLMAN, Mika
(32) 10.05.2017	F04D 15/00	MÄKITALO, Jussi
(33) United States of America	F04D 13/16	STAMBRO, Peter
(51) F04D 1/06	F16K 15/06	(31) 20175884

(32) 09.10.2017	F16B 47/00	(22) 26.07.2019
(33) Finland	F16B 2/14	(54) FASTENER ASSEMBLY AND METHOD
(51) F15B 1/24	(11) EP3665394	(73) Illinois Tool Works, Inc.
F16J 15/3208	(21) EP18843406.2	(72) LEE, Joel R.
(11) EP4025790	(47) 06.12.2023	(31) 201862703919 P
(21) EP20799696.8	(87) US2018043402	(32) 27.07.2018
(47) 06.12.2023	14.02.2019	(33) United States of America
(87) EP2020080366	(22) 24.07.2018	(51) F16B 35/06
14.05.2021	(54) FLANGE MOUNTING CLAMP	F16B 25/00
(22) 29.10.2020	(73) Hellermann Tyton Corporation	F16B 25/10
(54) PISTON ACCUMULATOR	(72) VAUGHN, Reese, L.	(11) EP3704390
(73) Hydac Technology Gmbh	GALLION, Justin	(21) EP18873825.6
(72) BALTES, Herbert	ROHDE, Christopher, J.	(47) 06.12.2023
KLOFT, Peter	(31) 201762542930 P	(87) DK2018050276
(31) 102019007711	(32) 09.08.2017	09.05.2019
(32) 07.11.2019	(33) United States of America	(22) 31.10.2018
(33) Germany	(51) F16B 5/02	(54) SCREW WITH TAPERED SCREW- HEAD, USE OF A SCREW AND A METHOD FOR COUNTERSINKING THE SCREW
(51) F15B 13/02	F16B 43/00	(73) Dissing A/S
F15B 20/00	F16B 35/06	(72) DISSING, Claus Hornstrup
A01D 41/14	(11) EP3859170	(31) PA201770817
(11) EP3677796	(21) EP21151464.1	201762580016 P
(21) EP19202899.1	(47) 06.12.2023	(32) 01.11.2017
(47) 06.12.2023	(22) 13.01.2021	01.11.2017
(22) 14.10.2019	(54) BOLT COMPRISING A NUT AND AT LEAST ONE WASHER OBTAINED BY HARDENING OF A PASTY MATERIAL, METHOD FOR INSTALLING SAID BOLT AND ASSEMBLY COMPRISING AT LEAST ONE SUCH BOLT	(33) Denmark United States of America
(54) HYDRAULIC ACTUATING DEVICE AND WORKING VEHICLE COMPRISING AN ATTACHMENT	(73) Airbus Operations SAS	(51) F16C 11/04
(73) CLAAS Selbstfahrende Erntemaschinen GmbH	(72) CHIROL, Clément	H04M 1/02
(72) Flöthmann, Sebastian	RAFIK, Vincent	G06F 1/16
Kühn, Michael	(11) EP4008918	(11) EP4008918
(31) 102019100231	(21) EP20859153.7	(21) EP20859153.7
(32) 07.01.2019	(47) 06.12.2023	(47) 06.12.2023
(33) Germany	(32) 30.01.2020	(87) CN2020102109
(51) F15B 21/048	(33) France	04.03.2021
B60T 17/00	(51) F16B 5/06	(22) 15.07.2020
B01D 53/26	F16B 21/16	(54) ELECTRONIC DEVICE AND COLLAPSIBLE ASSEMBLY
(11) EP3698054	B60N 2/58	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(21) EP18785542.4	(11) EP3477123	(72) LI, Jie
(47) 06.12.2023	(21) EP18202900.9	ZHENG, Zekuan
(87) EP2018076711	(47) 06.12.2023	CHENG, Jiao
25.04.2019	(22) 26.10.2018	(31) 201910826925
(22) 02.10.2018	(54) A CONNECTOR	(32) 30.08.2019
(54) AIR PREPARATION DEVICE FOR MOTOR VEHICLES	(73) Fastmount Limited	(33) China
(73) KNORR-BREMSE Systeme für Nutzfahrzeuge GmbH	(72) Kelly, Gregory John	(51) F16C 17/02
(72) SCHNITTGER, Karsten	(31) 17736750	F16C 41/00
(31) 102017124383	(32) 27.10.2017	F16D 49/10
(32) 19.10.2017	(33) New Zealand	F16D 49/20
(33) Germany	(51) F16B 7/14	F16D 11/10
(51) F16B 1/04	(11) EP3250832	F16D 27/09
B60N 2/235	(21) EP16743790.4	F16D 11/00
(11) EP4103429	(47) 06.12.2023	(11) EP3830436
(21) EP21724115.7	(87) SE2016050032	(21) EP19749348.9
(47) 06.12.2023	04.08.2016	(47) 06.12.2023
(87) US2021027956	(22) 20.01.2016	(87) EP2019071057
21.10.2021	(54) LOCKING ARRANGEMENT FOR TELESCOPIC DEVICES	06.02.2020
(22) 19.04.2021	(73) FAST IP Handelsbolag	(22) 05.08.2019
(54) RECLINER HANDLE WITH OVERLOAD PROTECTION DEVICE	(72) STÄHLE, Fabian	(54) BEARING ASSEMBLY
(73) Magna Seating Inc.	(31) 1530009	(73) Ondal Medical Systems GmbH
(72) ZANG, Creston	(32) 31.01.2015	(72) STROOP, Nicolas
(31) 202063011604 P	(33) Sweden	(31) 18187396
(32) 17.04.2020	(51) F16B 21/06	(32) 03.08.2018
(33) United States of America	(11) EP3830431	(33) European Patent Office (EPO)
(51) F16B 2/06	(21) EP19749559.1	(51) F16C 19/16
	(47) 06.12.2023	B64C 11/32
	(87) US2019043653	
	30.01.2020	

B64C 27/59	(54) BEARING SUPPORT WITH FRANGIBLE TABS	(73) Eagle Industry Co., Ltd.
B64C 27/78		(72) HASHIMOTO Hiroyuki
F16C 19/18	(73) Pratt & Whitney Canada Corp.	TAKIGAHIRA Yoshiaki
F16C 19/52	(72) LEFEBVRE, Guy	(31) 2019018307
F16C 19/54	DOYON, Francois	(32) 04.02.2019
F16C 33/58	(31) 202016743520	(33) Japan
F16C 33/60	(32) 15.01.2020	(51) F16C 33/66
(11) EP4166803	(33) United States of America	F16C 19/16
(21) EP22194567.8	(51) F16C 27/04	F16C 33/58
(47) 06.12.2023	F01D 25/16	F16C 41/00
(22) 08.09.2022	F16F 1/02	F16N 7/38
(54) GEARBOX AND ASSOCIATED AIRCRAFT	(11) EP4036428	F16N 29/00
(73) Airbus Helicopters	(21) EP22153759.0	(11) EP3540252
(72) ZAMPONI, Laurent	(47) 06.12.2023	(21) EP17870220.5
(31) 2111006	(22) 27.01.2022	(47) 06.12.2023
(32) 18.10.2021	(54) ASYMMETRY IN ANNULAR CENTERING SPRING	(87) JP2017038739
(33) France	(73) RTX Corporation	17.05.2018
(51) F16C 19/18	(72) SMEDRESMAN, Adam G.	(22) 26.10.2017
G01M 13/04	WINTER, Michael	(54) BEARING APPARATUS
G01L 5/00	RAFATPANAHA, Ramin M.	(73) NTN Corporation
F16C 19/38	(31) 202117162875	(72) NASU, Keisuke
(11) EP4043744	(32) 29.01.2021	(31) 2016219569
(21) EP20868487.8	(33) United States of America	(32) 10.11.2016
(47) 06.12.2023	(51) F16C 32/04	(33) Japan
(87) JP2020032681	F04D 27/00	(51) F16C 35/02
01.04.2021	F04D 29/058	F16C 33/08
(22) 28.08.2020	F04D 17/10	B23P 11/00
(54) PRELOAD INSPECTION METHOD FOR BEARING DEVICE FOR VEHICLE WHEEL.	F04D 25/06	B21J 15/04
(73) NTN Corporation	F04D 29/051	F16B 19/10
(72) TAKUBO, Takayasu	G06N 3/04	(11) EP2647860
OBATA, Takuya	G06N 3/08	(21) EP13001552.2
OWADA, Takayuki	G06N 5/00	(47) 06.12.2023
(31) 2019175939	G06N 20/10	(22) 26.03.2013
(32) 26.09.2019	G06N 20/20	(54) Bushing for coupling with a component
(33) Japan	G06N 3/084	(73) Liebherr-Aerospace Lindenberg GmbH
(51) F16C 19/28	G06N 5/01	(72) Eckart, Martin
F16C 19/22	(11) EP3940254	(31) 102012007010
F16C 33/46	(21) EP20773439.3	(32) 05.04.2012
F16C 33/58	(47) 06.12.2023	(33) Germany
F16C 33/60	(87) JP2020011162	(51) F16C 35/04
F16C 43/04	24.09.2020	F16C 25/08
F16C 33/76	(22) 13.03.2020	F04D 19/04
F16C 41/04	(54) MACHINE-LEARNING DEVICE AND MAGNETIC BEARING DEVICE	F04D 29/056
(11) EP3992482	(73) DAIKIN INDUSTRIES, LTD.	F04D 29/058
(21) EP21203431.8	(72) FUJIMOTO, Shunpei	F04D 29/52
(47) 06.12.2023	SAKAWAKI, Atsushi	F04D 29/58
(22) 19.10.2021	HIRATA, Kazuya	F16C 35/067
(54) BEARING UNIT	HIBINO, Hiroshi	F16C 32/04
(73) Aktiebolaget SKF	(31) 2019048948	(11) EP4048912
SKF CZ, a.s.	(32) 15.03.2019	(21) EP20800263.4
(72) Assmann, Jörg	(33) Japan	(47) 06.12.2023
Cheng, Xu	(51) F16C 33/10	(87) GB2020052669
Meaney, Paul	F16J 15/34	29.04.2021
Novotny, Ondrej	F16C 17/02	(22) 22.10.2020
(31) 102020128256	F16C 17/04	(54) BEARING SUPPORT AND PUMP
(32) 27.10.2020	F16C 17/10	(73) Edwards Limited
(33) Germany	F16C 33/04	(72) LUCCHETTA, Emiliano
(51) F16C 19/54	(11) EP3922877	KHOR, Eng Keen
F16C 35/04	(21) EP20752625.2	(31) 201915397
F16C 35/077	(47) 06.12.2023	(32) 24.10.2019
(11) EP3851689	(87) JP2020003641	(33) United Kingdom
(21) EP21151902.0	13.08.2020	(51) F16D 13/52
(47) 06.12.2023	(22) 31.01.2020	F16D 43/21
(22) 15.01.2021	(54) SLIDING COMPONENT AND METHOD FOR MANUFACTURING SLIDING COMPONENT	F16D 7/02
		F16D 13/02
		F16D 23/12
		(11) EP3739231
		(21) EP19738506.5

(47) 06.12.2023	(54) DISC BRAKE FOR UTILITY VEHICLES	(47) 06.12.2023
(87) JP2019000382	(73) KNORR-BREMSE Systeme für	(87) IB2017057986
18.07.2019	Nutzfahrzeuge GmbH	28.06.2018
(22) 09.01.2019	(72) BAUMGARTNER, Johann	(22) 15.12.2017
(54) POWER TRANSMISSION DEVICE	PETSCHKE, Andreas	(54) A DEVICE FOR ADJUSTING THE
(73) Kabushiki Kaisha F.C.C.	(31) 102016116967	CLEARANCE OF A DRUM BRAKE
(72) NISHIKAWA, Junichi	(32) 09.09.2016	(73) BREMBO S.p.A.
YOSHIMOTO, Katsu	(33) Germany	(72) WOLOSZYN, Tomasz
CHEN, Han Hiong	(51) F16D 65/097	GALASSI, Alessandro
OZAWA, Yoshihiko	F16D 55/228	MAZZARINI, Nicolò
(31) 2018002703	(11) EP3577365	PIROVANO, Italo
(32) 11.01.2018	(21) EP18704172.8	(31) 201600128706
(33) Japan	(47) 06.12.2023	(32) 20.12.2016
(51) F16D 13/58	(87) EP2018052246	(33) Italy
F16D 13/68	09.08.2018	(51) F16F 9/14
F16D 13/71	(22) 30.01.2018	(11) EP3653903
F16D 13/38	(54) SHEET-STEEL BOW RETURN SPRING	(21) EP18831276.3
F16D 13/44	(73) Continental Automotive Technologies	(47) 06.12.2023
(11) EP3966465	GmbH	(87) JP2018025558
(21) EP20725220.6	(72) DENHARD, Werner	17.01.2019
(47) 06.12.2023	HUMMEL, Valentin	(22) 05.07.2018
(87) IB2020054208	(31) 102017222639	(54) ROTARY DAMPER HAVING TORQUE
12.11.2020	102017201553	ADJUSTMENT FUNCTION
(22) 04.05.2020	(32) 13.12.2017	(73) TOK, Inc.
(54) FRICTION CLUTCH	31.01.2017	(72) HONDA Wataru
(73) AP Racing Limited	(33) Germany	(31) 2017137460
(72) CONSTABLE BERRY, David James	Germany	(32) 13.07.2017
GRANT, Jonathan David	(51) F16D 65/18	(33) Japan
(31) 201906408	F16D 59/02	(51) F16F 13/10
(32) 07.05.2019	(11) EP4048916	F16F 13/26
(33) United Kingdom	(21) EP20786457.0	(11) EP3586034
(51) F16D 13/64	(47) 06.12.2023	(21) EP18705919.1
(11) EP3734101	(87) EP2020025445	(47) 06.12.2023
(21) EP20168563.3	29.04.2021	(87) EP2018053936
(47) 06.12.2023	(22) 01.10.2020	30.08.2018
(22) 07.04.2020	(54) BRAKE ASSEMBLY AND ELECTRIC	(22) 16.02.2018
(54) PROGRESSIVE DEVICE FOR	MOTOR COMPRISING A BRAKE	(54) HYDRAULIC MOUNT FOR STORAGE
A FRICTION CLUTCH DISC	ASSEMBLY	OF A VEHICLE MODULE
AND FRICTION CLUTCH DISC	(73) Sew-Eurodrive GmbH & Co. KG	(73) Vibracoustic SE
COMPRISING SUCH DEVICE	(72) SCHWARZ, Martin	(72) LÜNEBACH, Mark
(73) VALEO EMBRAYAGES	ESSERT, Steffen	HOLZ, Roland
(72) VASSIEUX, LOIC	WOLF, Tanja	(31) 102017103603
LHEUREUX, Dominique	(31) 102019007339	(32) 22.02.2017
REGULSKI, Bernard	(32) 22.10.2019	(33) Germany
(31) 1904564	(33) Germany	(51) F16F 13/14
(32) 30.04.2019	(51) F16D 65/22	(11) EP3488122
(33) France	B60T 13/74	(21) EP17732796.2
(51) F16D 48/06	F16D 121/24	(47) 06.12.2023
(11) EP3978775	F16D 125/40	(87) EP2017063880
(21) EP20199726.9	F16D 125/60	25.01.2018
(47) 06.12.2023	F16D 51/22	(22) 07.06.2017
(22) 02.10.2020	F16D 125/48	(54) HYDRAULICALLY DAMPING BEARING
(54) METHOD FOR CALIBRATING	(11) EP3779230	(73) Vibracoustic SE
A COUPLING SYSTEM OF A	(21) EP18912782.2	(72) WERNER, Philipp
MECHANICAL TRANSMISSION	(47) 06.12.2023	KARDOES, Hilrich
(73) Robert Bosch GmbH	(87) JP2018044929	(31) 102016113309
(72) Werner, Franz	03.10.2019	(32) 19.07.2016
Ilk, Erich	(22) 06.12.2018	(33) Germany
Hernandez Ladera, Paul Luis	(54) ELECTRIC PARKING BRAKE DEVICE	(51) F16F 15/123
(51) F16D 55/226	(73) Hitachi Astemo, Ltd.	F16F 15/129
F16D 65/097	(72) USUI, Koji	(11) EP3889459
F16D 65/18	(31) 2018068037	(21) EP21164508.0
(11) EP3510298	(32) 30.03.2018	(47) 06.12.2023
(21) EP17761509.3	(33) Japan	(22) 24.03.2021
(47) 06.12.2023	(51) F16D 65/56	(54) FRICTION DISC FOR VIBRATION
(87) EP2017072166	F16D 63/00	DAMPER
15.03.2018	(11) EP3559497	(73) VALEO EMBRAYAGES
(22) 05.09.2017	(21) EP17826571.6	(72) DAEL, Dominique

(31) 2003172	(73) THK Co., Ltd.	13.06.2013
(32) 31.03.2020	(72) NISHIDE, Tetsuhiro	(22) 24.10.2012
(33) France	IWASHIRO, Sho	(54) WORM WHEEL AND ELECTRIC
(51) F16G 1/28	(31) 2018197357	POWER STEERING DEVICE
B29D 29/08	(32) 19.10.2018	(73) NSK Ltd.
F16G 5/06	(33) Japan	(72) KIYOTA, Haruhiko
F16G 5/08	(51) F16H 37/04	YAMAMOTO, Takeshi
F16G 5/20	F16H 47/04	MITSUHASHI, Fumiaki
(11) EP3263947	F16H 61/02	OGI, Kentaro
(21) EP16755719.8	F16H 61/462	(31) 2011267850
(47) 06.12.2023	B60K 17/02	(32) 07.12.2011
(87) JP2016055909	B60K 17/10	(33) Japan
01.09.2016	F16H 37/08	(51) F16H 57/04
(22) 26.02.2016	(11) EP3715671	F01L 1/02
(54) METHOD FOR FOR MANUFACTURING	(21) EP19203552.5	F02B 61/06
REINFORCING FABRIC FOR A	(47) 06.12.2023	F01M 9/10
TRANSMISSION BELT	(22) 16.10.2019	F01M 9/08
(73) Mitsuboshi Belting Ltd.	(54) TRANSMISSION STRUCTURE AND	F16H 57/02
(72) YOSHIDA, Masakuni	WORKING VEHICLE	(11) EP3992499
NISHIMURA, Toshihiro	(73) Kanzaki Kokyukoki Mfg. Co., Ltd.	(21) EP21203350.0
KIMURA, Taisuke	(72) IWAKI, Koji	(47) 06.12.2023
(31) 2016029759	OWADA, Kazuhiro	(22) 19.10.2021
2015038873	SASAHARA, Kengo	(54) LUBRICATING STRUCTURE FOR
(32) 19.02.2016	(31) 2019125483	POWER TRANSMISSION MECHANISM
27.02.2015	2019049886	(73) Suzuki Motor Corporation
(33) Japan	2018231234	(72) OZEKI, Hisashi
Japan	2018221546	(31) 2020179470
(51) F16G 13/16	2018218789	(32) 27.10.2020
H02G 11/00	2018197738	(33) Japan
(11) EP3938679	(32) 04.07.2019	(51) F16H 57/04
(21) EP20712948.7	18.03.2019	F16D 23/06
(47) 06.12.2023	11.12.2018	(11) EP3800376
(87) EP2020057654	27.11.2018	(21) EP20204223.0
24.09.2020	22.11.2018	(47) 06.12.2023
(22) 19.03.2020	19.10.2018	(22) 28.05.2015
(54) SYSTEMS FOR POSITION	(33) Japan	(54) ARRANGEMENT IN A GEARBOX
DETERMINATION USING AN ENERGY	Japan	(73) Scania CV AB
CHAIN	Japan	(72) HÄGGSTRÖM, Daniel
(73) Igus GmbH	Japan	ARNELÖF, Per
(72) HABERING, Richard	Japan	(31) 1450670
SCHMER, Konstantin	Japan	(32) 03.06.2014
(31) 202019101608 U	(51) F16H 37/04	(33) Sweden
(32) 20.03.2019	F16H 61/70	(51) F16H 57/04
(33) Germany	F16H 3/54	F16D 23/06
(51) F16H 3/095	F16H 3/44	(11) EP3800377
F16H 48/08	(11) EP3864321	(21) EP20204224.8
F16H 48/10	(21) EP19872186.2	(47) 06.12.2023
(11) EP3341631	(47) 06.12.2023	(22) 28.05.2015
(21) EP16756770.0	(87) SE2019050858	(54) ARRANGEMENT IN A GEARBOX
(47) 06.12.2023	16.04.2020	(73) Scania CV AB
(87) GB2016052585	(22) 12.09.2019	(72) HÄGGSTRÖM, Daniel
02.03.2017	(54) GEARBOX FOR VEHICLES AND	ARNELÖF, Per
(22) 19.08.2016	VEHICLES COMPRISING SUCH A	(31) 1450670
(54) A LOAD DISTRIBUTION DEVICE	GEARBOX	(32) 03.06.2014
(73) Smart Manufacturing Technology Limited	(73) Scania CV AB	(33) Sweden
(72) REDMOND, Dennis	(72) ARNELÖF, Per	(51) F16J 13/18
(31) 201515085	NORBERG, Peer	F16J 13/06
(32) 25.08.2015	SELLING, Tomas	B01J 3/03
(33) United Kingdom	(31) 1851227	(11) EP4007863
(51) F16H 25/24	(32) 09.10.2018	(21) EP20742737.8
F16H 25/22	(33) Sweden	(47) 06.12.2023
(11) EP3869068	(51) F16H 55/06	(87) EP2020070645
(21) EP19872741.4	B62D 5/04	11.02.2021
(47) 06.12.2023	F16H 55/22	(22) 22.07.2020
(87) JP2019038901	(11) EP2735771	(54) TANK CLOSURE DEVICE AND TANK
23.04.2020	(21) EP12856104.0	(73) Goavec Engineering
(22) 02.10.2019	(47) 06.12.2023	(72) REYNDERS, Marcel
(54) BALL SCREW DEVICE	(87) JP2012077515	(31) 1908928

(32) 02.08.2019	(31) 102018215736	F16K 3/314
(33) France	(32) 17.09.2018	A47C 27/08
(51) F16J 15/06	(33) Germany	F16K 15/20
F16J 15/3204	(51) F16J 15/44	(11) EP3601857
F16J 15/3232	F16J 15/16	(21) EP18775696.0
F16J 15/3252	F01D 11/00	(47) 06.12.2023
F16J 15/3296	F01D 25/24	(87) US2018025309
G01M 13/00	(11) EP3667136	04.10.2018
(11) EP3312480	(21) EP18844593.6	(22) 30.03.2018
(21) EP17193214.8	(47) 06.12.2023	(54) FLOW CONTROL VALVE
(47) 06.12.2023	(87) JP2018029013	(73) D.T. Davis Enterprises, Ltd. (d/b/a
(22) 26.09.2017	14.02.2019	Hovertech International)
(54) SEAL AND SEALING ASSEMBLY	(22) 02.08.2018	(72) MOORE, Scott, D.
(73) Carl Freudenberg KG	(54) SEGMENT SEAL	ENGLEBERT, John, F.
(72) Nahrwold, Olaf	(73) Eagle Industry Co., Ltd.	(31) 201762479433 P
Traber, Boris	(72) KUROKI, Yasuhiro	(32) 31.03.2017
Sindlinger, Stefan, Dr.	KONO, Toru	(33) United States of America
Kramer, Thomas	URABE, Akira	(51) F16K 7/10
Lauer, Frank	(31) 2017152793	F16K 15/16
Geubert, Christian	(32) 07.08.2017	F16K 15/18
(31) 102016012552	(33) Japan	F16K 15/20
(32) 20.10.2016	(51) F16K 1/22	(11) EP3899332
(33) Germany	F16K 27/00	(21) EP20741281.8
(51) F16J 15/3204	F16K 27/02	(47) 06.12.2023
F02M 26/11	F16L 23/00	(87) NO2020050003
F02M 26/70	(11) EP3734124	23.07.2020
F16J 15/3212	(21) EP18897661.7	(22) 14.01.2020
F16J 15/3224	(47) 06.12.2023	(54) VALVE FOR INFLATING AND
F16J 15/3228	(87) JP2018046968	DEFLATING AN INFLATABLE ELEMENT
F16J 15/3252	04.07.2019	(73) Hatfield, Monty James
(11) EP3875810	(22) 20.12.2018	(72) Hatfield, Monty James
(21) EP19878848.1	(54) PIPE ALIGNING MECHANISM FOR	(31) 20190043
(47) 06.12.2023	BUTTERFLY VALVE	(32) 14.01.2019
(87) JP2019030749	(73) Asahi Yukizai Corporation	(33) Norway
07.05.2020	(72) KAMIMURA Shinobu	(51) F16K 11/044
(22) 05.08.2019	NASU Takashi	F16K 31/02
(54) SEALING DEVICE	(31) 2017248720	F01P 7/14
(73) NOK Corporation	(32) 26.12.2017	F03G 7/06
(72) EGUCHI, Nobuyuki	(33) Japan	(11) EP3825589
(31) 2018202819	(51) F16K 1/42	(21) EP20201656.4
(32) 29.10.2018	F16K 27/02	(47) 06.12.2023
(33) Japan	F16K 3/24	(22) 14.10.2020
(51) F16J 15/3272	(11) EP3699462	(54) VALVE
F16J 15/34	(21) EP20159110.4	(73) Eberspächer Climate Control Systems
(11) EP3926219	(47) 06.12.2023	GmbH
(21) EP21178915.1	(22) 24.02.2020	(72) Humburg, Michael
(47) 06.12.2023	(54) VALVE SEAT CAGE ARRANGEMENT	Jensen, Hans
(22) 11.06.2021	(73) Samson Aktiengesellschaft	(31) 102019131161
(54) SPLIT V-RING SEAL ASSEMBLY	(72) SANDER, Andreas	(32) 19.11.2019
(73) Aktiebolaget SKF	MERSCHER, Michael	(33) Germany
(72) McBride, Tadd	(31) 102019104589	(51) F16K 11/072
Gildea, Gregory G.	(32) 22.02.2019	F16K 31/04
Green, Brandon	(33) Germany	F16K 37/00
(31) 202016903949	(51) F16K 3/03	(11) EP4097380
(32) 17.06.2020	F16K 31/53	(21) EP20829961.0
(33) United States of America	(11) EP3772605	(47) 06.12.2023
(51) F16J 15/34	(21) EP20188467.3	(87) IB2020000945
(11) EP3853505	(47) 06.12.2023	12.05.2022
(21) EP19766010.3	(22) 29.07.2020	(22) 09.11.2020
(47) 06.12.2023	(54) SEALING DEVICE FOR A GAS-	(54) ROTARY VALVE WITH ENCODER ON
(87) EP2019073932	CONVEYING CONDUIT	ROTOR
26.03.2020	(73) KÖRA-PACKMAT Maschinenbau GmbH	(73) TECAN Trading AG
(22) 09.09.2019	(72) Kießling, Volkmar	(72) GREENE, John
(54) MECHANICAL SEAL, AND ROTARY	(31) 102019121073	KENNEDY, Michael, John
LEADTHROUGH HAVING A	(32) 05.08.2019	BJÖRNSON, Torleif, Ove
MECHANICAL SEAL	(33) Germany	HÄLG, Werner
(73) Christian Maier GmbH & Co. KG	(51) F16K 3/26	(51) F16K 11/074
(72) SCHWENK, Günther		C02F 1/42

C02F 5/00	F16F 15/04	(54) PIPE COUPLINGS AND USES
C02F 1/00	G05D 7/06	THEOREF
(11) EP3104052	(11) EP3692292	(73) Pro Piping Products SRL
(21) EP15736947.1	(21) EP18796178.4	(72) DE GIETER, John
(47) 06.12.2023	(47) 06.12.2023	VEREECKEN, Luc
(87) CN2015071055	(87) US2018054419	TOTTE, Lieven
23.07.2015	11.04.2019	(31) 201905296
(22) 20.01.2015	(22) 04.10.2018	(32) 06.05.2019
(54) MULTIFUNCTIONAL SOFTENING	(54) PASSIVE DAMPING SYSTEM FOR	(33) Belgium
VALVE AND WATER PROCESSING	MASS FLOW CONTROLLER	(51) F16L 27/087
APPARATUS THEREOF	(73) Illinois Tool Works Inc.	B23Q 11/10
(73) Wenzhou Runxin Manufacturing Machine	(72) SCHMIDT, Travers	F16L 27/08
Co. Ltd.	WANG, Jia	F16L 27/093
(72) WU, Xiaorong	SMITH, Ronald, Kyle	F16L 39/04
YUAN, Hailin	ARAGONA, Cedric	F16L 39/06
(31) 201410025506	(31) 201816151099	(11) EP3695155
(32) 20.01.2014	201762568152 P	(21) EP18865799.3
(33) China	(32) 03.10.2018	(47) 06.12.2023
(51) F16K 11/078	04.10.2017	(87) US2018054538
E03C 1/10	(33) United States of America	18.04.2019
E03B 7/08	United States of America	(22) 05.10.2018
(11) EP3594540	(51) F16K 35/00	(54) MULTIPLE PASSAGE ROTARY UNION
(21) EP18763752.5	F16K 1/22	(73) Deublin Company, LLC
(47) 06.12.2023	F16K 37/00	(72) PETROU, Anton A.
(87) ES2018070165	F16K 31/53	FREED, Lisa
13.09.2018	F16K 31/163	(31) 201762569913 P
(22) 06.03.2018	F16K 31/60	(32) 09.10.2017
(54) SINGLE-LEVER TAP	(11) EP3967912	(33) United States of America
(73) Griferias Grober, S.L.	(21) EP21182589.8	(51) F16L 29/00
(72) LADRÓN JIMÉNEZ, Roberto	(47) 06.12.2023	B63B 27/25
(31) 201730314	(22) 29.06.2021	B63B 27/30
(32) 09.03.2017	(54) VALVE ASSEMBLY AND LOCKOUT	B63B 27/34
(33) Spain	MECHANISM	B67D 9/00
(51) F16K 11/087	(73) GE Aviation Systems LLC	B67D 9/02
(11) EP3524862	(72) HIELKEMA, Jerry	F16L 37/08
(21) EP19151888.5	HALLISEY, Kevin	F16L 55/10
(47) 06.12.2023	HUFFMAN, Rachael	B67D 7/32
(22) 15.01.2019	DIPIETRO, Derek	(11) EP3850259
(54) SWITCHING DEVICE	OPIFICIUS, Julian	(21) EP19858913.7
(73) HYDAC Accessories GmbH	(31) 202017018576	(47) 06.12.2023
(72) Michel, Bernd	(32) 11.09.2020	(87) US2019051145
Junk, Astrid	(33) United States of America	19.03.2020
(31) 102018000744	(51) F16L 19/02	(22) 13.09.2019
(32) 31.01.2018	F16L 19/025	(54) EMERGENCY RELEASE SYSTEM AND
(33) Germany	(11) EP3953629	METHOD OF RELEASING THEREOF
(51) F16K 31/02	(21) EP20733152.1	(73) Emco Wheaton GmbH
F16K 27/00	(47) 06.12.2023	(72) MARZOLA, Filippo
F16K 37/00	(87) US2020034836	(31) 201862731450 P
F16K 35/00	17.12.2020	(32) 14.09.2018
(11) EP3867551	(22) 28.05.2020	(33) United States of America
(21) EP19873797.5	(54) THREADED COUPLING ASSEMBLIES	(51) F16L 37/14
(47) 06.12.2023	FOR INTERCONNECTING FLUID-	F16L 37/56
(87) US2019055201	CARRYING CONDUITS	B60T 17/04
23.04.2020	(73) Parker-Hannifin Corporation	F16L 37/40
(22) 08.10.2019	(72) EHRKE, Dieter	F16L 37/407
(54) NEAR FIELD RF POWERED	NEISKE, Oliver	(11) EP3756961
ELECTRONIC VALVE ACTUATOR	JOHNSON, Thomas G.	(21) EP20177708.3
(73) Flowserve Pte. Ltd.	GOLIGHTLY, Jonathan M.	(47) 06.12.2023
(72) OLLANDER, Mark D.	(31) 201962861102 P	(22) 01.06.2020
CARLSON, Daniel E.	(32) 13.06.2019	(54) HYDRAULIC LINE CLUTCH, IN
RUMORE, Michael Adam	(33) United States of America	PARTICULAR FOR A HYDRAULIC
CARPENTER, Paul Ralph	(51) F16L 23/08	BRAKE OR CLUTCH OF HANDLE
(31) 201816165040	F16L 23/10	BARS-GUIDED VEHICLES
(32) 19.10.2018	(11) EP3736477	(73) Gustav Magenwirth GmbH & Co. KG
(33) United States of America	(21) EP20173029.8	(72) Ruopp, Michael
(51) F16K 31/06	(47) 06.12.2023	Braunger, Kevin
F16F 1/373	(22) 05.05.2020	Wechsler, Axel
F16K 47/00		Neutsch, Christian

<p>(31) 102019208066 (32) 03.06.2019 (33) Germany</p> <hr/> <p>(51) F16L 41/00 G01L 19/00</p> <p>(11) EP3441659 (21) EP18185147.8 (47) 06.12.2023 (22) 24.07.2018</p> <p>(54) CONNECTION FITTING FOR A FLUID CONDUIT</p> <p>(73) Voss Automotive GmbH (72) ROSENFELDT, Sascha ZWILLUS, Christian MITTERER, Reiner</p> <p>(31) 102017118269 (32) 10.08.2017 (33) Germany</p> <hr/> <p>(51) F16L 41/08 (11) EP3948047 (21) EP20706592.1 (47) 06.12.2023 (87) IB2020051113 01.10.2020</p> <p>(22) 12.02.2020</p> <p>(54) MODULAR FITTING FOR EXPANSION VESSELS</p> <p>(73) Zilmet SpA (72) BENETTOLO, Riccardo</p> <p>(31) 201900004297 (32) 25.03.2019 (33) Italy</p> <hr/> <p>(51) F16L 58/08 C23C 4/04 C23C 4/06 C23C 4/11 C23C 4/12 C23C 4/129 C23C 4/131 E21B 17/042 F16L 57/06 F16L 58/18</p> <p>(11) EP4081729 (21) EP20835839.0 (47) 06.12.2023 (87) EP2020087678 01.07.2021</p> <p>(22) 22.12.2020</p> <p>(54) COATED PIPE RESISTANT TO CASING WEAR</p> <p>(73) Vallourec Oil and Gas France (72) MENCAGLIA, Xavier MAILLON, Bertrand</p> <p>(31) 1915500 (32) 23.12.2019 (33) France</p> <hr/> <p>(51) F16L 59/02 C09K 5/06 F16L 59/04 F16L 59/08 F28D 20/02</p> <p>(11) EP3574250 (21) EP18702226.4 (47) 06.12.2023 (87) EP2018051920 02.08.2018 (22) 26.01.2018</p>	<p>(54) METHOD FOR MAINTAINING THE TEMPERATURE OF FLUIDS AND DEVICE</p> <p>(73) swisspor Management AG (72) FISCHER, Ludger</p> <p>(31) 17153846 (32) 30.01.2017 (33) European Patent Office (EPO)</p> <hr/> <p>(51) F16L 59/06 F16L 59/07 F16L 59/12 B32B 3/30</p> <p>(11) EP3867558 (21) EP19784075.4 (47) 06.12.2023 (87) EP2019077790 23.04.2020</p> <p>(22) 14.10.2019</p> <p>(54) INSULATION MATERIAL</p> <p>(73) Pittsburgh Corning Europe NV (72) SMOUT, Lucas DIEPVENS, Rudi BADGER, Steven R VAN LOO, Joseph</p> <p>(31) 18200982 (32) 17.10.2018 (33) European Patent Office (EPO)</p> <hr/> <p>(51) F16M 11/14 F16M 13/02 G03B 17/56</p> <p>(11) EP3809033 (21) EP20201746.3 (47) 06.12.2023 (22) 14.10.2020</p> <p>(54) MOUNT FOR ELECTRONIC DEVICE</p> <p>(73) Arlo Technologies, Inc. (72) RAMONES, John JUPILLE, Henry FONZO, Christopher</p> <p>(31) 201916600988 (32) 14.10.2019 (33) United States of America</p> <hr/> <p>(51) F16M 13/00 A47K 5/12 A47K 3/28</p> <p>(11) EP3586056 (21) EP18708315.9 (47) 06.12.2023</p> <p>(87) US2018018885 30.08.2018</p> <p>(22) 21.02.2018</p> <p>(54) UNIVERSAL DISPENSER MOUNTING BRACKETS</p> <p>(73) GOJO Industries, Inc. (72) CIAVARELLA, Nick E. HOWE, Stephen GLASGOW, Seth Andrew KENNEDY, Emily Barbara HARRIS, Donald R.</p> <p>(31) 201762461258 P (32) 21.02.2017 (33) United States of America</p> <hr/> <p>(51) F16P 3/14 (11) EP4137735 (21) EP21191730.7 (47) 06.12.2023 (22) 17.08.2021</p>	<p>(54) MONITORING DEVICE AND METHOD FOR OPERATING A SENSOR ASSEMBLY</p> <p>(73) Leuze electronic GmbH + Co. KG (72) Brunner, Rolf</p> <hr/> <p>(51) F17C 1/08 (11) EP3333474 (21) EP17199094.8 (47) 06.12.2023 (22) 30.10.2017</p> <p>(54) ADDITIVELY MANUFACTURED REINFORCED STRUCTURE</p> <p>(73) The Boeing Company (72) VETO, Christopher C. GRAYSON, Gary David BARACKMAN, Victor John</p> <p>(31) 201615375640 (32) 12.12.2016 (33) United States of America</p> <hr/> <p>(51) F17C 5/00 (11) EP3436738 (21) EP17716412.6 (47) 06.12.2023 (87) US2017024884 05.10.2017</p> <p>(22) 30.03.2017</p> <p>(54) IMPROVED METHOD AND SYSTEM FOR OPTIMIZING THE FILLING, STORAGE AND DISPENSING OF CARBON DIOXIDE FROM MULTIPLE CONTAINERS WITHOUT OVERPRESSURIZATION</p> <p>(73) Praxair Technology, Inc. (72) SONG, Xuemei CECULA, Shawn, M. GERRISTEAD, William, R.</p> <p>(31) 201715472928 201715472997 201662438746 P 201662315434 P</p> <p>(32) 29.03.2017 29.03.2017 23.12.2016 30.03.2016</p> <p>(33) United States of America United States of America United States of America United States of America</p> <hr/> <p>(51) F17C 13/04 F17C 1/00 F16K 17/40 B64D 25/14</p> <p>(11) EP3670981 (21) EP18461647.2 (47) 06.12.2023 (22) 17.12.2018</p> <p>(54) MEMBRANE PUNCTURING MECHANISM</p> <p>(73) Goodrich Corporation (72) Zajac, Piotr Czechowski, Kamil</p> <hr/> <p>(51) F21K 9/232 F21K 9/68 F21K 9/69 F21Y 115/10 F21Y 107/40</p> <p>(11) EP4042063 (21) EP20781036.7</p>
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(47) 06.12.2023	LIU, Zhanguo	(51) F21V 8/00
(87) EP2020077846	(31) 201922466844 U	F21S 43/241
15.04.2021	(32) 31.12.2019	F21S 43/237
(22) 05.10.2020	(33) China	F21S 43/245
(54) A LIGHTING DEVICE	(51) F21S 41/19	F21S 43/251
(73) Signify Holding B.V.	F21S 41/39	F21S 43/20
(72) VAN BOMMEL, Ties	F21S 43/14	(11) EP4146983
HIKMET, Rifat, Ata, Mustafa	F21S 43/37	(21) EP21720250.6
ANSEMS, Johannes, Petrus, Maria	F21S 41/148	(47) 06.12.2023
(31) 19202373	F21S 41/33	(87) EP2021060168
(32) 10.10.2019	F21S 43/19	11.11.2021
(33) European Patent Office (EPO)	(11) EP3299701	(22) 20.04.2021
(51) F21K 9/64	(21) EP17190946.8	(54) LIGHTING DEVICE FOR A MOTOR
F21V 9/30	(47) 06.12.2023	VEHICLE
H01L 33/50	(22) 13.09.2017	(73) ZKW Group GmbH
(11) EP4051951	(54) LIGHT-SOURCE HOLDER WITH A	(72) MAIER, Christian
(21) EP20790322.0	REFERENCE ELEMENT EXTENDING	FIRAT, Tuncay
(47) 06.12.2023	ALONG TWO AXES	(31) 20172744
(87) EP2020079454	(73) Valeo Vision	(32) 04.05.2020
06.05.2021	(72) DORN, David	(33) European Patent Office (EPO)
(22) 20.10.2020	CHERREAU, Christophe	(51) F21V 8/00
(54) HIGH INTENSITY LIGHT SOURCE	RENAUD, Pierre	G02B 27/10
WITH HIGH CRI AND R9	BAKARY, Silas	G02B 27/01
(73) Signify Holding B.V.	GARROUSTE, Laurent	G02B 27/09
(72) CORNELISSEN, Hugo, Johan	(31) 1659135	G02B 27/14
HIKMET, Rifat, Ata, Mustafa	(32) 27.09.2016	(11) EP3091388
VDOVIN, Olexandr, Valentynovych	(33) France	(21) EP16158098.0
WEIGH, René, Theodorus	(51) F21V 5/00	(47) 06.12.2023
VAN BOMMEL, Ties	F21V 11/14	(22) 01.03.2016
HOELEN, Christoph	F21Y 105/12	(54) WEARABLE DISPLAY APPARATUS
VAN ASSELT, Robert	F21Y 105/16	(73) Himax Display, Inc.
(31) 19205884	(11) EP4051957	(72) CHEN, Kuan-Yu
(32) 29.10.2019	(21) EP20793706.1	LI, Yuet Wing
(33) European Patent Office (EPO)	(47) 06.12.2023	(31) 201562156388 P
(51) F21L 4/00	(87) EP2020079897	(32) 04.05.2015
F21V 5/00	06.05.2021	(33) United States of America
F21V 15/01	(22) 23.10.2020	(51) F21V 8/00
F21V 23/00	(54) LIGHTING DEVICE FOR PROVIDING A	G02F 1/1333
F21V 19/00	SPARKLING APPEARANCE	G02F 1/1345
F21V 31/00	(73) Signify Holding B.V.	(11) EP3527882
(11) EP3936756	(72) CORNELISSEN, Hugo, Johan	(21) EP19152920.5
(21) EP21183641.6	VDOVIN, Olexandr, Valentynovych	(47) 06.12.2023
(47) 06.12.2023	HAENEN, Ludovicus, Johannes,	(22) 21.01.2019
(22) 05.07.2021	Lambertus	(54) EDGE-TO-EDGE DISPLAY DEVICE
(54) LIGHTING DEVICE INCLUDING A	SWEEGERS, Norbertus, Antonius, Maria	(73) INTEL Corporation
LIGHTING UNIT	DE SAMBER, Marc, Andre	(72) LANG, John
(73) Stoots	(31) 19205615	KWA, Seh
(72) DESSEREE, Florian	(32) 28.10.2019	ZHUANG, Zhiming
(31) 2007185	(33) European Patent Office (EPO)	TSAI, Jackson
(32) 07.07.2020	(51) F21V 5/00	JIANG, Jun
(33) France	G02B 3/00	(31) 201816230352
(51) F21S 8/02	F21Y 115/10	201862633016 P
F21V 7/24	F21Y 105/12	(32) 21.12.2018
F21V 31/00	(11) EP3953643	20.02.2018
F21V 21/04	(21) EP20715394.1	(33) United States of America
F21V 3/00	(47) 06.12.2023	United States of America
F21V 17/12	(87) EP2020059736	(51) F21V 8/00
F21Y 115/10	15.10.2020	H01S 5/00
(11) EP3974708	(22) 06.04.2020	H01S 5/183
(21) EP20909620.5	(54) MICRO LED SHEET WITH SMALL	(11) EP3878064
(47) 06.12.2023	SPHERES TO ENABLE DIGITAL BEAM	(21) EP19790563.1
(87) CN2020140218	SHAPING	(47) 06.12.2023
08.07.2021	(73) Signify Holding B.V.	(87) EP2019079481
(22) 28.12.2020	(72) VISSENBERG, Michel, Cornelis,	14.05.2020
(54) UNDERGROUND LAMP	Josephus, Marie	(22) 29.10.2019
(73) Suzhou Oppl Lighting Co., Ltd.	(31) 19168159	(54) LIGHT GUIDE
Oppl Lighting Co., Ltd.	(32) 09.04.2019	(73) Lumileds Holding B.V.
(72) WU, Shihui	(33) European Patent Office (EPO)	(72) ENGELEN, Rob

STASSAR, Emanuel	(21) EP21214581.7	(33) United States of America
(31) 18204878	(47) 06.12.2023	(51) F23R 3/06
(32) 07.11.2018	(22) 15.12.2021	F23R 3/16
(33) European Patent Office (EPO)	(54) BURNER ARRANGEMENT FOR A PRE-	(11) EP3839348
(51) F21V 14/04	MIX BURNER	(21) EP20215669.1
F21V 7/05	(73) Vaillant GmbH	(47) 06.12.2023
F21S 10/02	(72) GEVERS, Hendrik	(22) 18.12.2020
F21V 7/00	POLUS, Markus	(54) COMBUSTOR PANEL AND METHOD
F21Y 115/10	SCHWEITZER-DE BORTOLI, Stefan	FOR COOLING THE SAME
F21Y 103/10	(31) 102021100007	(73) RTX Corporation
F21Y 113/10	(32) 04.01.2021	(72) GRINGHAUS, Jason M.
(11) EP4045847	(33) Germany	HOKE, James B.
(21) EP20789627.5	(51) F23C 99/00	ICHIHASHI, Fumitaka
(47) 06.12.2023	F23D 14/14	(31) 201916723074
(87) EP2020079152	F23D 14/58	(32) 20.12.2019
22.04.2021	(11) EP3449183	(33) United States of America
(22) 16.10.2020	(21) EP17733179.0	(51) F24B 1/02
(54) LIGHTING DEVICE FOR ILLUMINATING	(47) 06.12.2023	F24B 1/189
A SURFACE	(87) US2017030252	F24B 1/20
(73) Signify Holding B.V.	02.11.2017	A47J 37/07
(72) VAN DE SLUIS, Bartek Marinus	(22) 28.04.2017	A23B 4/052
VISSENBERG, Michel, Cornelis,	(54) BURNER SYSTEM WITH DISCRETE	(11) EP3863481
Josephus, Marie	TRANSVERSE FLAME STABILIZERS	(21) EP19870738.2
KRIJN, Marcellinus, Petrus, Carolus,	(73) ClearSign Technologies Corporation	(47) 06.12.2023
Michael	(72) KENDRICK, Donald	(87) US2019056350
ROZENDAAL, Leendert, Teunis	DANSIE, James K.	16.04.2020
(31) 19203984	KARKOW, Douglas W.	(22) 15.10.2019
(32) 18.10.2019	WIKLOF, Christopher A.	(54) PELLET SMOKER
(33) European Patent Office (EPO)	(31) 201662329525 P	(73) W.C. Bradley Co.
(51) F21V 21/04	(32) 29.04.2016	(72) RAHMANI, Ramin, Khosravi
F21S 8/02	(33) United States of America	HAMILTON, Anthony
H02G 3/12	(51) F23N 1/00	ROBERTS, Bruce
(11) EP3839338	F23G 5/00	AHMED, Mallik
(21) EP20208689.8	F23G 5/027	ABDALLAH, Sleiman
(47) 06.12.2023	F23G 5/16	GILLESPIE, Brad
(22) 19.11.2020	F23G 5/50	CORSO, Dan
(54) SUPPORT FOR LIGHTING DEVICES	B09B 3/00	(31) 201862745050 P
TO BE RECESSED IN WALLS OR	F23G 7/05	(32) 12.10.2018
CEILINGS MADE OF PLASTERBOARD	F23G 7/10	(33) United States of America
(73) Marconato, Daniele	F23G 7/12	(51) F24C 7/00
(72) Marconato, Daniele	(11) EP3058278	(11) EP4001765
Romano, Manuel	(21) EP14799004.8	(21) EP21020578.7
(31) 201900024057	(47) 06.12.2023	(47) 06.12.2023
(32) 16.12.2019	(87) IB2014065371	(22) 18.11.2021
(33) Italy	23.04.2015	(54) SIMULATED FLAME EFFECT
(51) F21V 31/00	(22) 16.10.2014	APPARATUS
F21V 31/04	(54) PROCESS AND UNIT FOR	(73) Flamerite Fires Limited
F21K 9/90	RECOVERING ENERGY FROM WASTE	(72) Watts, John Leslie
F21K 9/27	(73) SUEZ International	(31) 202018789
F21K 9/272	(72) PEREGRINA, Carlos	202018223
F21Y 115/10	AUJARD, Sylvain	(32) 30.11.2020
F21Y 103/10	(31) 1360108	19.11.2020
(11) EP3861253	(32) 17.10.2013	(33) United Kingdom
(21) EP18783407.2	(33) France	United Kingdom
(47) 06.12.2023	(51) F23R 3/00	(51) F24C 15/00
(87) EP2018076686	F23M 20/00	F24C 15/20
09.04.2020	(11) EP3457029	F24C 15/10
(22) 01.10.2018	(21) EP18194189.9	(11) EP3961107
(54) LINEAR LED LIGHT SOURCE AND	(47) 06.12.2023	(21) EP21203720.4
MANUFACTURING METHOD	(22) 13.09.2018	(47) 06.12.2023
(73) Flowil International Lighting (Holding)	(54) PARTICLE CAPTURE FOR	(22) 22.07.2019
B.V.	COMBUSTORS	(54) COOKING APPLIANCE
(72) HOOKER, James	(73) RTX Corporation	(73) LG Electronics Inc.
BROEDERS, Frank	(72) CLUM, Carey	(72) Lee, Kookhaeng
SCHAAF, Walter	AHMADIAN, Shayan	Seok, Jun Ho
(51) F23C 9/00	ROBAK, Christopher W.	Yang, Daebong
F23D 14/02	(31) 201715709333	(31) 20180085400
(11) EP4023938	(32) 19.09.2017	(32) 23.07.2018

(33) Korea (Republic)	(54) AIRFLOW DIRECTION ADJUSTMENT	(31) 201916246211
(51) F24C 15/12	DEVICE AND INDOOR UNIT FOR AIR	201816233931
F24C 15/10	CONDITIONER	(32) 11.01.2019
F24C 13/00	(73) Toshiba Carrier Corporation	27.12.2018
A47J 36/08	(72) Yokozeki, Makoto	(33) United States of America
A47J 27/10	Gajina, Kenji	United States of America
(11) EP3671042	Hiugano, Kazuhiro	(51) F24F 7/06
(21) EP18847043.9	(31) 2019086010	F24F 11/00
(47) 06.12.2023	(32) 26.04.2019	F24F 11/77
(87) KR2018008308	(33) Japan	F24F 110/30
21.02.2019	(51) F24F 1/0011	F24F 110/40
(22) 23.07.2018	F24F 13/15	(11) EP3809054
(54) HEATING APPARATUS AND COOKING	F24F 13/14	(21) EP19204169.7
APPARATUS INCLUDING SAME	(11) EP3957918	(47) 06.12.2023
(73) LG Electronics Inc.	(21) EP20202122.6	(22) 18.10.2019
(72) LEE, Jeonghyun	(47) 06.12.2023	(54) ROOM AIR AND / OR AIR
CHOI, Sungho	(22) 15.10.2020	CONDITIONING SYSTEM FOR
(31) 20170103733	(54) INDOOR UNIT FOR AIR CONDITIONER	VENTILATING A ROOM OR ROOMS
(32) 16.08.2017	AND AIR CONDITIONER	WITH AT LEAST ONE MAIN AIR LINE
(33) Korea (Republic)	(73) Beijing Xiaomi Mobile Software Co., Ltd.	AND METHOD FOR REGULATING
(51) F24C 15/20	(72) SHAN, Lianyu	A ROOM AIR AND / OR AIR
(11) EP3827204	MENG, Hongwu	CONDITIONING SYSTEM FOR
(21) EP19745591.8	(31) 202021764072 U	VENTILATING A ROOM OR ROOMS
(47) 06.12.2023	(32) 21.08.2020	WITH AT LEAST ONE MAIN AIR LINE
(87) EP2019069935	(33) China	(73) TROX GmbH
30.01.2020	(51) F24F 1/24	(72) Lange, Stefan
(22) 24.07.2019	F24F 1/22	Hoh, Alexander, Dr.
(54) COOKING HOB SYSTEM	F24F 1/48	Wolters, Thomas
(73) Bruckbauer, Wilhelm	(11) EP3650765	(51) F24F 11/00
(72) KÖNNEKER, Walter	(21) EP19812898.5	F24H 4/00
BLERSCH, Mario	(47) 06.12.2023	F24F 11/74
BRUCKBAUER, Wilhelm	(87) CN2019089862	F24F 11/79
(31) 102019202089	19.03.2020	F24F 11/86
102018215426	(22) 03.06.2019	F24F 110/10
102018212330	(54) AIR CONDITIONING OUTDOOR UNIT	F24F 120/00
(32) 15.02.2019	AND AIR CONDITIONER HAVING	F24F 140/20
11.09.2018	SAME	F24F 140/50
24.07.2018	(73) HEFEI MIDEA HEATING &	F25B 13/00
(33) Germany	VENTILATING EQUIPMENT CO., LTD.	F25B 49/02
Germany	GD Midea Heating & Ventilating	(11) EP3608599
Germany	Equipment Co., Ltd.	(21) EP17904818.6
(51) F24C 15/20	(72) WANG, Peng	(47) 06.12.2023
F24C 15/10	YI, Tengda	(87) JP2017014546
G01G 19/56	HUANG, Jin	11.10.2018
(11) EP3737891	ZHANG, Hao	(22) 07.04.2017
(21) EP19700625.7	(31) 201821480814 U	(54) AIR CONDITIONER
(47) 06.12.2023	201811051438	(73) Mitsubishi Electric Corporation
(87) IB2019050104	(32) 10.09.2018	(72) HIROSE, Chiyoko
18.07.2019	10.09.2018	SUGIYAMA, Daisuke
(22) 07.01.2019	(33) China	(51) F24F 11/36
(54) COOKTOP WITH INTEGRATED	China	F24F 13/20
EXTRACTION UNIT AND SCALE	(51) F24F 3/00	(11) EP3904776
(73) ELICA S.p.A.	F24F 11/62	(21) EP20172339.2
(72) BARIVIERA, Diego	F24F 11/80	(47) 06.12.2023
CIMINO, Marco	G05D 23/19	(22) 30.04.2020
MARTELLI, Manuele	(11) EP3674614	(54) VALVE UNIT AND METHOD FOR
MENICONI, Luca	(21) EP19217402.7	ASSEMBLING THE SAME
(31) 201800000794	(47) 06.12.2023	(73) Daikin Industries, Ltd.
(32) 12.01.2018	(22) 18.12.2019	Daikin Europe N.V.
(33) Italy	(54) DISCHARGE AIR TEMPERATURE	(72) STEEN, David
(51) F24F 1/0007	RESET FOR HVACR UNIT OPERATING	CORNELIS, Kevin
F24F 13/14	VARIABLE-AIR-VOLUME BOX	DEGRANDE, Arne
F24F 13/15	(73) Trane International Inc.	(51) F24F 11/80
B60H 1/34	(72) OPATZ, Aaron E.	F24F 11/30
(11) EP3739269	MOFFITT, Ronnie	F24F 11/61
(21) EP20171115.7	MURPHY, John Arthur	F24F 11/62
(47) 06.12.2023	MCKEEVER, James Kenneth	F24F 11/65
(22) 23.04.2020	SHEDIVY, Eugene R.	F24F 11/89

F24F 110/10	F16K 11/074	19.12.2019
F24F 110/20	F25B 41/20	(22) 13.06.2018
F24F 120/10	(11) EP3783279	(54) REFRIGERATION CYCLE DEVICE
F24F 120/14	(21) EP18915651.6	(73) Mitsubishi Electric Corporation
F24F 120/00	(47) 06.12.2023	(72) SATA, Hiroshi
F24F 120/20	(87) CN2018087131	ARII, Yusuke
(11) EP3851756	24.10.2019	NAKAGAWA, Masahiko
(21) EP19860560.2	(22) 16.05.2018	(51) F25C 1/00
(47) 06.12.2023	(54) GAS DISTRIBUTING MECHANISM AND	F25D 23/02
(87) JP2019034647	CRYOGENIC COOLER EMPLOYING	(11) EP3587965
19.03.2020	THE GAS DISTRIBUTING MECHANISM	(21) EP18872213.6
(22) 03.09.2019	(73) CSIC PRIDE (NANJING) CRYOGENIC	(47) 06.12.2023
(54) AIR CONDITIONER CONTROL DEVICE	TECHNOLOGY CO., LTD.	(87) CN2018093805
AND AIR CONDITIONER APPARATUS	(72) LI, Ao	09.05.2019
(73) DAIKIN INDUSTRIES, LTD.	GE, Jinhong	(22) 29.06.2018
(72) EMOTO, Shiori	ZHOU, Zhipo	(54) WATER INLET ASSEMBLY FOR
NISHINO, Atsushi	XIA, Chenxi	REFRIGERATOR ICE MACHINE AND
HASHIMOTO, Satoshi	(31) 201810355674	REFRIGERATOR
HORI, Shouta	(32) 19.04.2018	(73) Hisense Ronshen (Guangdong)
NAKASE, Junya	(33) China	Refrigerator Co., Ltd
MAEDA, Toshiyuki	(51) F25B 29/00	(72) GAN, Jinbo
(31) 2018168638	F25B 13/00	YAN, Kangfu
(32) 10.09.2018	F24F 12/00	FU, Donghua
(33) Japan	(11) EP3882538	(31) 201711050920
(51) F24F 11/81	(21) EP19885035.6	(32) 31.10.2017
F24F 12/00	(47) 06.12.2023	(33) China
(11) EP4023955	(87) CN2019090902	(51) F25D 3/08
(21) EP21217751.3	22.05.2020	A47G 19/02
(47) 06.12.2023	(22) 12.06.2019	F28D 20/02
(22) 24.12.2021	(54) HEAT PUMP SYSTEM HAVING HOT	(11) EP3478132
(54) AIR HANDLER FOR HEAT RECOVERY	WATER PREPARATION FUNCTION	(21) EP17776926.2
AND METHOD OF PROVIDING	AND CONTROL METHOD	(47) 06.12.2023
RECIRCULATION USING SUCH AN AIR	(73) Qingdao Economic and Technological	(87) BE2017000032
HANDLER	Development Zone Haier Water Heater	04.01.2018
(73) Trane International Inc.	Co., Ltd.	(22) 29.06.2017
(72) KANDASAMY, Ganeson	Qingdao Haier New Energy Electrical	(54) DOUBLE-WALLED CROCKERY
KANDASAMY, Yuvaraja	Appliances Co., Ltd.	PROVIDED WITH A POUCH FILLED
MAHANTA, Asit	Haier Smart Home Co., Ltd.	WITH PHASE-CHANGE MATERIAL
THANGAVELU EKAMBARAM, Arul	(72) LIU, Yujun	(73) Probalco BVBA
(31) 202017139762	YANG, Lei	(72) REDJAL, Karim
(32) 31.12.2020	LIU, Xiaowei	SPELEERS, Pol
(33) United States of America	GUAN, Xianghua	(31) 201605522
(51) F25B 5/04	(31) 201811354464	(32) 30.06.2016
F25B 6/04	(32) 14.11.2018	(33) Belgium
F28F 1/12	(33) China	(51) F25D 3/11
F25B 39/00	(51) F25B 41/22	(11) EP3841339
F28D 1/053	F25B 41/20	(21) EP19758892.4
F28D 1/04	F25B 13/00	(47) 06.12.2023
F25B 5/02	(11) EP3172501	(87) DK2019050244
F25B 6/02	(21) EP15725187.7	27.02.2020
F25B 13/00	(47) 06.12.2023	(22) 20.08.2019
F25B 41/42	(87) US2015030709	(54) A CRYOGENIC STORAGE SYSTEM
F24F 1/18	28.01.2016	WITH A DRIVE SYSTEM
F28F 9/02	(22) 14.05.2015	(73) HCP Innovation APS
(11) EP3901536	(54) HEAT PUMP WITH EJECTOR	(72) PAUL, Hans-Christoph
(21) EP18944108.2	(73) Carrier Corporation	ANDERSEN, Kim
(47) 06.12.2023	(72) FENG, Yinshan	JACOBSEN, Kim Due
(87) JP2018046780	MAHMOUD, Ahmad M.	STEFFENSEN, Torben
25.06.2020	VERMA, Parmesh	(31) PA201870544
(22) 19.12.2018	(31) 201462028475 P	(32) 21.08.2018
(54) HEAT EXCHANGER AND	(32) 24.07.2014	(33) Denmark
REFRIGERATION CYCLE DEVICE	(33) United States of America	(51) F25D 3/12
(73) Mitsubishi Electric Corporation	(51) F25B 49/02	(11) EP3604986
(72) AKAIWA, Ryota	F25B 1/00	(21) EP19189659.6
TANISHIMA, Makoto	(11) EP3809065	(47) 06.12.2023
ONAKA, Yoji	(21) EP18922714.3	(22) 01.08.2019
UEMURA, Takamasa	(47) 06.12.2023	
(51) F25B 9/14	(87) JP2018022558	

(54) PALLET CONTAINER FOR TRANSPORTING TEMPERATURE-SENSITIVE GOODS	(21) EP19870023.9 (47) 06.12.2023 (87) KR2019012649 09.04.2020	(54) LYOPHILIZATION KIT AND METHOD FOR CLOSING A LYOPHILIZATION VIAL
(73) va-Q-tec AG	(22) 27.09.2019	(73) F. Hoffmann-La Roche AG
(72) Kuhn, Joachim Eschenbach, Fabian Kratsch, Lukas Straub, Lorenz	(54) REFRIGERATOR	(72) HEINLEIN, Harald
(31) 202018104488 U	(73) Samsung Electronics Co., Ltd.	(31) 17193669
(32) 03.08.2018	(72) EOM, Tae-In	(32) 28.09.2017
(33) Germany	PARK, Hyun Uk	(33) European Patent Office (EPO)
(51) F25D 11/00	(31) 20180116857	(51) F27B 3/20
F25D 23/06	(32) 01.10.2018	C22B 4/00
B60P 3/20	(33) Korea (Republic)	C22B 5/16
B62D 33/04	(51) F25D 25/02	C22B 7/00
(11) EP3785989	F25D 17/04	C22B 7/04
(21) EP20192229.1	(11) EP3809079	F27B 3/22
(47) 06.12.2023	(21) EP20199780.6	F27D 99/00
(22) 21.08.2020	(47) 06.12.2023	C21B 13/12
(54) REFRIGERATED BODY OF A ROAD VEHICLE FOR TRANSPORTING GOODS PROVIDED WITH A MOVABLE PARTITION WALL	(22) 02.10.2020	C21B 3/06
(73) Jean Chereau SAS	(54) DOMESTIC REFRIGERATOR AND FOOD STORAGE CONTAINER WITH PIVOTABLE FLAP ON THE TRAY	C21B 13/00
(72) LECUIR, Christophe RENOUF, Gildas	(73) BSH Hausgeräte GmbH	(11) EP4062117
(31) 1909417	(72) Hentschel, Verena	(21) EP20808004.4
(32) 27.08.2019	Ramos Alzamora, Carlos	(47) 06.12.2023
(33) France	Leinmüller, Elena	(87) EP2020082953 27.05.2021
(51) F25D 17/04	(31) 102019216097	(22) 20.11.2020
F25D 25/02	(32) 18.10.2019	(54) IMPROVED PLASMA INDUCED FUMING FURNACE
(11) EP3168554	(33) Germany	(73) AURUBIS BEERSE
(21) EP16193704.0	(51) F25D 27/00	(72) CHINTINNE, Mathias DE VISSCHER, Yves GEENEN, Charles COLETTI, Bert
(47) 06.12.2023	(11) EP3213016	(31) 19210907
(22) 13.10.2016	(21) EP15774928.4	(32) 22.11.2019
(54) DOMESTIC HOUSEHOLD REFRIGERATION DEVICE COMPRISING A KEEP-FRESH CONTAINER, THE FRONT WALL OF WHICH IS AN OUTER WALL OF THE DEVICE	(47) 06.12.2023	(33) European Patent Office (EPO)
(73) BSH Hausgeräte GmbH	(87) EP2015073013 06.05.2016	(51) F28D 1/047
(72) Eicher, Max Hartwein, Christine Försterling, Klaus Becke, Christoph Angele, Boris	(22) 06.10.2015	F28F 9/26
(31) 102015222229	(54) DOMESTIC APPLIANCE COMPRISING AN INPUT DEVICE AND A CODING DEVICE	F28F 21/06
(32) 11.11.2015	(73) BSH Hausgeräte GmbH	(11) EP4174428
(33) Germany	(72) KIBAT, Jörg HAUZENEDER, Christoph HOFMEISTER, Bernhard	(21) EP22202182.6
(51) F25D 23/06	(31) 102014221784	(47) 06.12.2023
(11) EP3809078	(32) 27.10.2014	(22) 18.10.2022
(21) EP20199784.8	(33) Germany	(54) DEVICE FOR AIR CONDITIONING A ROOM COMPRISING A HEAT EXCHANGER MODULE
(47) 06.12.2023	(51) F26B 3/12	(73) KE KELIT GmbH
(22) 02.10.2020	A23C 1/12	(72) PÖCHHACKER, Martin
(54) HOUSEHOLD REFRIGERATING APPLIANCE	A23C 7/02	(31) 508622021
(73) BSH Hausgeräte GmbH	A23C 1/04	(32) 02.11.2021
(72) Rettenberger, Harald Rödter, Maximilian Kemmer, Andreas	C11D 11/00	(33) Austria
(31) 102019216095	(11) EP3626080	(51) F28D 1/047
(32) 18.10.2019	(21) EP18195152.6	F28F 19/02
(33) Germany	(47) 06.12.2023	C23C 22/68
(51) F25D 25/02	(22) 18.09.2018	C23G 1/10
A47B 88/463	(54) METHOD FOR CLEANING THE EDUCT SIDE OF SPRAY DRYING INSTALLATIONS	F16L 58/08
F25D 23/02	(73) DMK Deutsches Milchkontor GmbH	F28F 21/08
(11) EP3839390	(72) STADLER, Christian	(11) EP3508615
	(51) F26B 5/06	(21) EP17856096.7
	(11) EP3688392	(47) 06.12.2023
	(21) EP18773475.1	(87) JP2017034682 05.04.2018
	(47) 06.12.2023	(22) 26.09.2017
	(87) EP2018076423 04.04.2019	(54) METHOD FOR PRODUCING PIPING AND METHOD FOR FORMING OXIDE FILM ON INNER SURFACE OF COPPER PIPE
	(22) 28.09.2018	(73) Daikin Industries, Ltd.
		(72) SHIBATA, Yutaka
		(31) 2016192885

(32) 30.09.2016	10.09.2020	(72) KIM, Jihyun
(33) Japan	(22) 28.02.2020	KIM, Donghan
(51) F28D 1/053	(54) ARRANGEMENT FOR STORING OF ENERGY	OH, Chohee
F28D 1/04	(73) Calefa Oy	LEE, Seojin
F28F 21/06	(72) PORKKA, Antti	JIN, Taegy
F28F 9/02	VUORI, Petri	HONG, Sanghyun
F28F 3/00	(31) 20195158	(31) 20170091672
(11) EP3523588	(32) 05.03.2019	(32) 19.07.2017
(21) EP17860446.8	(33) Finland	(33) Korea (Republic)
(47) 06.12.2023	(51) F28D 20/00	(51) F41A 19/68
(87) IL2017051120	F01K 3/12	F41A 19/69
19.04.2018	F28D 20/02	F41F 1/08
(22) 03.10.2017	(11) EP4036381	F42B 5/155
(54) HEAT EXCHANGER AND MODULE THEREOF	(21) EP22164818.1	(11) EP4193112
(73) Magen Eco Energy A.C.S. Ltd.	(47) 06.12.2023	(21) EP21785965.1
(72) COHEN, Rotem	(22) 21.10.2015	(47) 06.12.2023
PLASCHKES, Michel Ben Gavriel	(54) CONCRETE AND TUBE HOT THERMAL EXCHANGE AND ENERGY STORE (TXES) INCLUDING TEMPERATURE GRADIENT CONTROL TECHNIQUES	(87) FR2021051592
(31) 24830416	(73) Bright Energy Storage Technologies, LLP	24.03.2022
(32) 10.10.2016	(72) FRAZIER, Scott Raymond	(22) 17.09.2021
(33) Israel	TUEY, Jennifer Fon	(54) DEVICE FOR RELEASING CARTRIDGES AND METHOD FOR CONTROLLING SAID DEVICE
(51) F28D 7/10	ABARR, Miles L.	(73) MILTON
F28D 11/02	GEELS, Brendan R.	(72) TACITA, Samuel
F28F 5/00	GINTER, Karl	(31) 2009308
F28F 13/06	LAU, Alex	(32) 17.09.2020
F28F 1/42	(31) 201562220796 P	(33) France
F28F 19/00	201462066773 P	(51) F41C 23/16
A23L 3/22	(32) 18.09.2015	F41A 21/44
F28F 13/12	21.10.2014	(11) EP3835708
(11) EP4094030	(33) United States of America	(21) EP19216891.2
(21) EP21700775.6	United States of America	(47) 06.12.2023
(47) 06.12.2023	(51) F28D 20/00	(22) 17.12.2019
(87) EP2021051005	F25B 17/08	(54) FRONT SHAFT FOR CLAMPING ON AN EXISTING WEAPON
29.07.2021	(11) EP3557174	(73) Glock Technology GmbH
(22) 19.01.2021	(21) EP19169387.8	(72) Markut, Karl
(54) HEAT EXCHANGER AND USE OF HEAT EXCHANGER	(47) 06.12.2023	Nolte, Patrick
(73) Ireliemar B.V.	(47) 16.04.2019	(31) 19215974
(72) VAN DER MEIJDEN, Cornelis Adrianus	(54) ADSORPTION HEAT PUMP OR REFRIGERATION MACHINE AND METHOD FOR OPERATING THE SAME	(32) 13.12.2019
(31) 2024720	(73) Karlsruher Institut für Technologie	(33) European Patent Office (EPO)
(32) 21.01.2020	(72) SCHMIDT, Ferdinand	(51) F41F 3/10
(33) Netherlands	DESAI, Aditya	F42B 14/02
(51) F28D 15/02	(31) 102018109575	F42B 14/06
F28F 3/12	(32) 20.04.2018	(11) EP4097416
H01L 23/427	(33) Germany	(21) EP21701960.3
(11) EP3907455	(51) F28F 21/08	(47) 06.12.2023
(21) EP19913347.1	F28F 19/04	(87) EP2021051456
(47) 06.12.2023	F28F 19/06	05.08.2021
(87) CN2019125968	C09K 3/18	(22) 22.01.2021
06.08.2020	F24F 1/0059	(54) WEAPON BARREL HAVING A MOVABLE CALIBER RING
(22) 17.12.2019	F28D 1/047	(73) thyssenkrupp Marine Systems GmbH
(54) PHASE-CHANGE HEAT DISSIPATION DEVICE	F28D 21/00	thyssenkrupp AG
(73) Smarth Technology Ltd.	F28F 1/32	(72) RADEMANN, Helmut
(72) LI, Chun	F24F 1/0067	(31) 102020201226
HU, Guangfan	F24F 13/30	(32) 31.01.2020
YAO, Chunhong	F24F 13/22	(33) Germany
MA, Qiucheng	(11) EP3657118	(51) F41G 1/30
(31) 201910086904	(21) EP18835417.9	G02B 7/18
(32) 29.01.2019	(47) 06.12.2023	G02B 23/10
(33) China	(87) KR2018007906	B33Y 80/00
(51) F28D 20/00	24.01.2019	F16B 37/10
F01K 3/00	(22) 12.07.2018	(11) EP3637036
F01K 3/18	(54) HEAT EXCHANGER	(21) EP19202443.8
(11) EP3935336	(73) LG Electronics Inc.	(47) 06.12.2023
(21) EP20767390.6		(22) 10.10.2019
(47) 06.12.2023		(54) OPTICAL BENCH
(87) FI2020050128		

(73) Wilcox Industries Corp.	(73) Elbit Systems Electro-Optics Elop Ltd.	(72) NELSON, Collin J.
(72) NACKEL, Michael C.	(72) GROSSMAN, Kuti	WORTELBOER, David Andrew
TEETZEL, James W.	(31) 25823318	ANDERSON, Kyle C.
(31) 201916596920	(32) 19.03.2018	KHANGAR, Abhijeet A.
201862743737 P	(33) Israel	VITAS, Jonathan F.
(32) 09.10.2019	(51) F42B 10/64	(31) 201662404635 P
10.10.2018	F42B 15/01	(32) 05.10.2016
(33) United States of America	F42B 15/36	(33) United States of America
United States of America	B64G 1/62	(51) G01B 7/16
(51) F41H 3/00	(11) EP4200578	G01L 1/26
F41H 3/02	(21) EP21773907.7	G01L 1/22
G02B 1/14	(47) 06.12.2023	(11) EP3676560
H01L 31/048	(87) US2021016717	(21) EP18793659.6
H01L 31/049	24.02.2022	(47) 06.12.2023
H02S 40/22	(22) 05.02.2021	(87) EP2018079417
H02S 40/20	(54) SAFE BOOSTER JETTISON FOR	02.05.2019
H01L 31/054	TACTICAL MISSILES	(22) 26.10.2018
H02S 20/23	(73) Raytheon Company	(54) STRAIN GAUGE DEVICE
H02S 20/25	(72) KLESTADT, Ralph H.	(73) Octogon GmbH
(11) EP3532795	(31) 202016996455	(72) EISL, Daniel
(21) EP17865516.3	(32) 18.08.2020	OTTLINGER, Matthias
(47) 06.12.2023	(33) United States of America	(31) 102017125228
(87) US2017059115	(51) F42B 12/06	(32) 27.10.2017
03.05.2018	F42B 12/36	(33) Germany
(22) 30.10.2017	F42B 12/44	(51) G01B 7/28
(54) OBSCURING, COLOR MATCHING, AND	F42B 12/46	G01B 7/34
CAMOUFLAGING SOLAR PANELS	(11) EP3759417	G01B 21/04
(73) Tesla, Inc.	(21) EP19706999.0	G01N 27/90
(72) PILLIOD, Michael	(47) 06.12.2023	G01N 27/9013
GOUGOUSSIS, Christos	(87) EP2019054464	(11) EP4001830
LEFEVRE, Olliver J.	29.08.2019	(21) EP21203320.3
LAURIN, Michael M.	(22) 22.02.2019	(47) 06.12.2023
LIU, John	(54) PROJECTILE HAVING A	(22) 19.10.2021
TANDOI, Scott	PYROTECHNIC CHARGE	(54) METHOD OF INSPECTING A
VERDURA, Javier	(73) RWM Schweiz AG	COMPONENT
VON HOLZHAUSEN, Franz	(72) PFAFF, Andreas	(73) Rolls-Royce plc
PARK, Caroline	(31) 102018104333	(72) Jeketo, Alejandro
MUNTEAN, Radu	(32) 26.02.2018	Walker, Ben
KUZINA, Kate	(33) Germany	Kell, James
LAMASTRA, Dante	(51) F42B 39/02	(31) 202018028
(31) 201715796683	F42B 39/08	(32) 17.11.2020
201762452269 P	(11) EP4050300	(33) United Kingdom
201762452221 P	(21) EP21000304.2	(51) G01B 11/02
201762450000 P	(47) 06.12.2023	G01B 11/25
201662414275 P	(22) 28.10.2021	G06T 15/60
(32) 27.10.2017	(54) BAG FOR CARRYING A CARTRIDGE	B64D 47/08
30.01.2017	BELT	G02B 6/04
30.01.2017	(73) Flössner, Uwe	A61B 1/05
24.01.2017	(72) Flößner, Uwe	B29C 64/10
28.10.2016	Flößner, Hans	A61B 1/00
(33) United States of America	Genßler, Barbara	A61B 1/06
United States of America	(31) 102020006751	A61B 1/07
United States of America	(32) 03.11.2020	A61B 34/10
United States of America	(33) Germany	A61B 34/20
United States of America	(51) G01B 3/1005	A61B 90/30
(51) F41H 11/02	G01B 3/1041	A61B 90/00
F41H 13/00	G01B 3/1043	G01B 11/24
G06V 20/52	F03G 1/02	A61B 90/10
(11) EP3769511	F03G 1/08	A61B 90/20
(21) EP19772467.7	(11) EP3523600	A61B 90/50
(47) 06.12.2023	(21) EP17859126.9	(11) EP3692329
(87) IL2019050302	(47) 06.12.2023	(21) EP18864936.2
26.09.2019	(87) US2017055166	(47) 06.12.2023
19.03.2019	12.04.2018	(87) US2018054653
(22) 19.03.2019	(22) 04.10.2017	11.04.2019
(54) SYSTEM AND METHOD FOR	(54) TAPE MEASURE WITH COMPACT	(22) 05.10.2018
CARRYING OUT A FLEXIBLE	RETRACTION SYSTEM	(54) GENERATION OF ONE OR MORE
HANDOVER BETWEEN MULTIPLE	(73) Milwaukee Electric Tool Corporation	EDGES OF LUMINOSITY TO FORM
ENERGY DIRECTING ELEMENTS		

THREE-DIMENSIONAL MODELS OF OBJECTS	(11) EP4010658	(51) G01C 19/64
(73) Advanced Scanners, Inc.	(21) EP20789494.0	(11) EP3918277
(72) BERNSTEIN, Aaron	(47) 06.12.2023	(21) EP20706926.1
LEVINE, Jeffrey	(87) EP2020077309	(47) 06.12.2023
EDWARDS, Patrick	08.04.2021	(87) US2020014768
(31) 201762569353 P	(22) 30.09.2020	06.08.2020
(32) 06.10.2017	(54) METHOD AND DEVICE FOR	(22) 23.01.2020
(33) United States of America	GENERATING A PHOTOGRAMMETRIC	(54) GAIN-COUPLED RESONATOR
<hr/>	CORRIDOR MAP FROM A SET OF	GYROSCOPE
(51) G01B 11/24	IMAGES	(73) The Board Of Trustees Of The Leland
G01N 21/956	(73) Siemens Energy Global GmbH & Co. KG	Stanford Junior University
H05K 3/34	(72) GLIRA, Philipp	(72) DIGONNET, Michel J.F.
B23K 1/00	HATZL, Jürgen	GRANT, Matthew James
B23K 31/12	HORNACEK, Michael	(31) 202016746696
G01B 11/25	WAKOLBINGER, Stefan	201962800149 P
B23K 101/42	BIRCHBAUER, Josef Alois	(32) 17.01.2020
(11) EP3070431	WINDISCH, Claudia	01.02.2019
(21) EP14878058.8	(31) 19201148	(33) United States of America
(47) 06.12.2023	(32) 02.10.2019	United States of America
(87) JP2014050109	(33) European Patent Office (EPO)	<hr/>
16.07.2015	(51) G01C 11/02	(51) G01C 21/16
(22) 08.01.2014	(11) EP3916351	G01C 21/20
(54) VISUAL INSPECTION DEVICE AND	(21) EP20177489.0	(11) EP3734223
VISUAL INSPECTION METHOD	(47) 06.12.2023	(21) EP20171099.3
(73) Yamaha Hatsudoki Kabushiki Kaisha	(22) 29.05.2020	(47) 06.12.2023
(72) SUZUKI, Yoshikuni	(54) CAMERA BODY WITH MECHANICAL	(22) 23.04.2020
<hr/>	FMC STABILIZATION FOR AN	(54) DEAD RECKONING BY DETERMINING
(51) G01B 11/25	AIRBORNE OR SPACEBORNE	MISALIGNMENT ANGLE BETWEEN
G06T 7/593	SURVEYING DEVICE	MOVEMENT DIRECTION AND
H04N 13/254	(73) Leica Geosystems AG	SENSOR HEADING DIRECTION
(11) EP3619498	(72) STEINMANN, Herr Patrick	(73) STMicroelectronics Inc.
(21) EP18723266.5	<hr/>	(72) JAIN, Mahaveer
(47) 06.12.2023	(51) G01C 11/06	CHOWDHARY, Mahesh
(87) US2018028831	G01P 3/68	(31) 201916399829
08.11.2018	G01B 11/04	(32) 30.04.2019
(22) 23.04.2018	G06T 7/00	(33) United States of America
(54) TRIANGULATION SCANNER HAVING	(11) EP3040678	<hr/>
FLAT GEOMETRY AND PROJECTING	(21) EP15201922.0	(51) G01C 21/20
UNCODED SPOTS	(47) 06.12.2023	G01C 21/34
(73) Faro Technologies, Inc.	(22) 22.12.2015	G01C 21/36
(72) HEIDEMANN, Rolf	(54) PHOTOGRAMMETRY SYSTEM AND	G01C 23/00
BRENNER, Mark	PHOTOGRAMMETRY METHOD	(11) EP3882573
RAAB, Simon	(73) Nuctech Company Limited	(21) EP20163436.7
(31) 201715784437	(72) LI, Mingliang	(47) 06.12.2023
201762502065 P	LI, Yuanjing	(22) 16.03.2020
(32) 16.10.2017	LI, Jianmin	(54) ADAPTATION OF AN ALGORITHM IN A
05.05.2017	LI, Ying	MEANS OF TRANSPORT
(33) United States of America	CHEN, Zhiqiang	(73) Elektrobit Automotive GmbH
United States of America	KANG, Kejun	(72) Patino Studencki, Lucila
<hr/>	(31) 201410831553	Kraus, Manuel
(51) G01C 3/08	(32) 29.12.2014	Pfeuffer, Christian
G01C 3/10	(33) China	Siller, Christian
G01S 11/12	<hr/>	Schauer, Martin
(11) EP3882569	(51) G01C 15/00	Nippe, Martin
(21) EP21162242.8	G01S 19/00	Baleghkalam, Ghazaleh
(47) 06.12.2023	(11) EP3765817	Ohl, Sebastian
(22) 12.03.2021	(21) EP19712456.3	<hr/>
(54) METHOD FOR DETERMINING A	(47) 06.12.2023	(51) G01C 21/26
TARGET OBJECT, ELECTRO-OPTICAL	(87) US2019021277	B62J 45/20
SENSOR SYSTEM, GUIDED MISSILE	19.09.2019	B62J 50/21
AND METHOD FOR NAVIGATING A	(22) 08.03.2019	B62M 6/45
GUIDED MISSILE	(54) OBJECT RECOGNITION AND	(11) EP4042106
(73) Diehl Defence GmbH & Co. KG	TRACKING USING A REAL-TIME	(21) EP20788784.5
(72) Wällermann, Heinrich	ROBOTIC TOTAL STATION AND	(47) 06.12.2023
Kushauer, Jörg	BUILDING INFORMATION MODELING	(87) EP2020078238
(31) 102020001827	(73) Topcon Positioning Systems, Inc.	15.04.2021
(32) 19.03.2020	(72) HALLETT, Jason	(22) 08.10.2020
(33) Germany	(31) 201815922069	(54) METHOD FOR IDENTIFYING
<hr/>	(32) 15.03.2018	A TARGET POSITION OF A
(51) G01C 11/00	(33) United States of America	DISPLAY- AND/OR CONTROL
G06T 7/70		UNIT IN A HOLDING DEVICE, AND

CORRESPONDING DISPLAY- AND/OR CONTROL UNIT	AN ACTUATOR BY FILTERING A SENSOR SIGNAL	04.07.2013
(73) Robert Bosch GmbH	(73) Euroimmun Medizinische Labordiagnostika AG	(22) 26.12.2012
(72) CARELLO, Francesco	(72) AHLBORG, Felix	(54) FLOW QUANTITY MEASUREMENT DEVICE SETTING METHOD AND FLOW QUANTITY MEASUREMENT DEVICE
SCHWEICKHARDT, Heiko Michael	VON DRATHEN, Arne	(73) Panasonic Holdings Corporation
LINDSTEDT, Carsten	WESSEL, Siegfried	(72) TAKEMURA, Kouichi
(31) 102019215537	(51) G01D 5/24	WATANABE, Aoi
(32) 10.10.2019	G05G 9/047	KOBA, Yasuo
(33) Germany	(11) EP3738211	SATOU, Masato
(51) G01C 21/36	(21) EP19700205.8	(31) 2011283202
G01C 21/00	(47) 06.12.2023	(32) 26.12.2011
G01S 17/86	(87) EP2019050178	(33) Japan
G01S 17/89	11.07.2019	(51) G01F 11/08
G06T 7/10	(22) 04.01.2019	B65D 37/00
G06T 7/521	(54) METHOD FOR DETERMINING THE DEFLECTION OF THE ACTUATOR OF A CAPACITIVE MULTIPATH FORCE SENSOR MODULE	(11) EP2558377
G06V 10/764	(73) KOSTAL Automobil Elektrik GmbH & Co. KG	(21) EP11769371.3
G06V 20/64	(72) LUX, Marc	(47) 06.12.2023
G06V 10/77	SEIFERT, Matthias	(87) US2011031926
G06V 10/80	(31) 102018000078	20.10.2011
G06F 18/213	(32) 08.01.2018	(22) 11.04.2011
G06F 18/25	(33) Germany	(54) METERED DISPENSING SYSTEM WITH NESTED BOAT FITMENT
G06V 10/26	(51) G01D 5/244	(73) 1Touch Holdings, Inc.
G06T 7/11	G01D 5/245	(72) MILETI, Robert, J.
G06T 7/33	G01D 5/246	(31) 323188 P
(11) EP3779358	G01P 13/04	(32) 12.04.2010
(21) EP19871308.3	G01P 3/487	(33) United States of America
(47) 06.12.2023	(11) EP4042113	(51) G01F 22/00
(87) CN2019110259	(21) EP20785520.6	E04G 21/04
16.04.2020	(47) 06.12.2023	(11) EP3933353
(22) 10.10.2019	(87) EP2020078148	(21) EP21182296.0
(54) MAP ELEMENT EXTRACTION METHOD AND APPARATUS	15.04.2021	(47) 06.12.2023
(73) Tencent Technology (Shenzhen) Company Limited	(22) 07.10.2020	(22) 29.06.2021
(72) SHU, Mao	(54) METHOD OF DETECTION OF AN ABSOLUTE ANGULAR POSITION OR OF AN ABSOLUTE ANGULAR DISPLACEMENT STROKE OF A ROTATING ORGAN	(54) A HOSE REEL UNIT AND A METHOD OF A HOSE REEL UNIT
CHEN, Si	(73) Robert Bosch Automotive Steering Vendôme	(73) GDS Geo Drilling Solutions AB
(31) 201811186664	(72) BOUSSESMART, Franck	(72) AHLUND, Rasmus
(32) 12.10.2018	(31) 1911165	HANSSON, Pär
(33) China	(32) 08.10.2019	HANSSON, Robert
(51) G01C 23/00	(33) France	(31) 2050797
B64D 45/04	(51) G01D 5/353	(32) 30.06.2020
G05D 1/06	(11) EP3502629	(33) Sweden
B64D 43/00	(21) EP18213968.3	(51) G01F 22/02
G08G 5/00	(47) 06.12.2023	G01F 23/292
G08G 5/02	(22) 19.12.2018	G01M 3/36
(11) EP3757519	(54) SYSTEM AND METHOD FOR MONITORING THE CONTACT PRESSURE OF A NON-POSITIVE AND/OR POSITIVE CONNECTION	(11) EP3368869
(21) EP20188682.7	(73) RWE Offshore Wind GmbH	(21) EP16860756.2
(47) 06.12.2023	(72) JAHN, Christian	(47) 06.12.2023
(22) 24.06.2016	(31) 102017130761	(87) US2016059017
(54) AIRCRAFT DISPLAY SYSTEM COMPRISING A LEVELLING-OFF GUIDE SYMBOL AND ASSOCIATED METHOD	(32) 20.12.2017	04.05.2017
(73) Dassault Aviation	(33) Germany	(22) 27.10.2016
(72) LEPAGE, Sébastien	(51) G01F 1/667	(54) SYSTEM AND METHOD FOR MEASURING VOLUME AND PRESSURE
BAUDSON, Olivier	G01F 25/10	(73) Haemonetics Corporation
TURPIN, Arnaud	(11) EP2799819	(72) STACEY, Gary
(31) 1501309	(21) EP12862061.4	(31) 201562246795 P
(32) 24.06.2015	(47) 06.12.2023	(32) 27.10.2015
(33) France	(87) JP2012008305	(33) United States of America
(51) G01D 3/02		(51) G01F 23/02
G01D 5/24		G01F 23/18
(11) EP4202372		G01F 23/68
(21) EP21216646.6		H01F 27/14
(47) 06.12.2023		H01F 27/40
(22) 21.12.2021		(11) EP4182643
(54) METHOD FOR FILTERING A SENSOR SIGNAL AND DEVICE FOR DRIVING		(21) EP21755796.6

(47) 06.12.2023	(31) 201916371119	G01S 17/02
(87) EP2021073029	(32) 01.04.2019	G01J 9/00
10.03.2022	(33) United States of America	G01S 7/48
(22) 19.08.2021	(51) G01F 23/64	G01S 7/499
(54) FAULT GAS DETECTION SYSTEM	G01F 23/70	G01J 1/04
FOR A LIQUID FILLED HIGH VOLTAGE	B05B 12/08	G01J 9/02
TRANSFORMER	B05B 17/06	G01N 21/21
(73) Siemens Gamesa Renewable Energy A/	A61L 2/22	H01S 3/00
S	B05B 17/00	(11) EP2906917
(72) NIELSEN, Leif	(11) EP4036535	(21) EP13776800.8
(31) 20194647	(21) EP20881080.4	(47) 06.12.2023
(32) 04.09.2020	(47) 06.12.2023	(87) EP2013071419
(33) European Patent Office (EPO)	(87) JP2020038226	17.04.2014
(51) G01F 23/26	06.05.2021	(22) 14.10.2013
G01F 23/00	(22) 09.10.2020	(54) DEVICE AND METHOD FOR
G01F 23/80	(54) LIQUID SURFACE DETECTION	DETECTING LASER RADIATION
G01F 23/263	DEVICE, ATOMIZATION DEVICE, AND	(73) Fraunhofer-Gesellschaft zur Förderung
A47J 37/12	CULTURE DEVICE	der angewandten Forschung e.V.
(11) EP3781912	(73) PHC Holdings Corporation	(72) ANSTETT, Gregor
(21) EP19788105.5	(72) SAKAI, Yuta	EBERT, Reinhard
(47) 06.12.2023	YOSHIDA, Masaki	(31) 102012221164
(87) US2019026052	HONDA, Kousuke	102012218618
24.10.2019	SAWAI, Akito	(32) 20.11.2012
(22) 05.04.2019	ONDA, Megumi	12.10.2012
(54) CAPACITIVE SENSOR DEVICE	(31) 2019197497	(33) Germany
(73) Pitco Frialator, Inc.	(32) 30.10.2019	Germany
(72) FECTEAU, Michael, T.	(33) Japan	(51) G01J 3/02
CYR, Steven, J.	(51) G01J 1/02	(11) EP2853868
SEARL, Karl, M.	G01J 5/10	(21) EP14189567.2
(31) 201862659447 P	G01J 5/00	(47) 06.12.2023
(32) 18.04.2018	G01J 5/06	(22) 27.04.2010
(33) United States of America	G01J 5/08	(54) System reducing fiber stretch induced
(51) G01F 23/284	G01J 5/16	timing errors in fiber optic coupled time
(11) EP3857184	(11) EP3605041	domain terahertz systems
(21) EP19755902.4	(21) EP18778112.5	(73) Luna Innovations Incorporated
(47) 06.12.2023	(47) 06.12.2023	(72) Zimdars, David
(87) EP2019072075	(87) JP2018009796	(31) 173192 P
02.04.2020	04.10.2018	(32) 27.04.2009
(22) 19.08.2019	(22) 13.03.2018	(33) United States of America
(54) DETECTION OF FOAM	(54) INFRARED SENSOR	(51) G01J 3/02
FORMATION OF A PRODUCT IN A	(73) Mitsubishi Materials Corporation	G01J 3/04
CONTAINER DURING A FILL LEVEL	(72) NAKAMURA Kenji	G01J 3/18
MEASUREMENT	HIRANO Shingo	(11) EP3724619
(73) Endress+Hauser SE+Co. KG	(31) 2017064709	(21) EP18889141.0
(72) MERLE, Jens	(32) 29.03.2017	(47) 06.12.2023
MALINOVSKIY, Alexey	(33) Japan	(87) US2018065232
GORENFLO, Stefan	(51) G01J 1/02	20.06.2019
VOGEL, Markus	G01J 5/10	(22) 12.12.2018
(31) 102018123432	G01J 5/06	(54) SYSTEM AND METHOD FOR
(32) 24.09.2018	G01J 5/08	SELECTIVE RESOLUTION FOR
(33) Germany	G01J 5/00	CONCAVE GRATING SPECTROMETER
(51) G01F 23/284	G01J 5/16	(73) Horiba Instruments Incorporated
G01S 13/88	(11) EP3605040	(72) OANA, Harry Jerome
G01S 7/03	(21) EP18772667.4	TONG, Xiaomei
G01S 13/10	(47) 06.12.2023	KOVACH, Ronald Joseph
G01S 13/32	(87) JP2018010586	(31) 201715844069
(11) EP3948181	27.09.2018	(32) 15.12.2017
(21) EP20716762.8	(22) 16.03.2018	(33) United States of America
(47) 06.12.2023	(54) INFRARED SENSOR	(51) G01J 3/02
(87) EP2020059263	(73) Mitsubishi Materials Corporation	G01J 3/04
08.10.2020	(72) NAKAMURA Kenji	G01J 3/28
(22) 01.04.2020	TARI Kazuyoshi	(11) EP3821216
(54) HIGH AND/OR LOW ENERGY SYSTEM	HIRANO Shingo	(21) EP19748979.2
COUPLER	(31) 2017059006	(47) 06.12.2023
(73) ABB Schweiz AG	(32) 24.03.2017	(87) NO2019050146
(72) MIMEAULT, Yvan	(33) Japan	16.01.2020
COUTURE, Patrick	(51) G01J 1/42	(22) 09.07.2019
LAMARRE, Simon	G01J 4/04	(54) HYPERSPECTRAL CAMERA

(73) Norsk Elektro Optikk AS	(33) United States of America	(73) Q'Z Corporation
(72) FRIDMAN, Andrei L.	(51) G01K 3/02	(72) HOJOH, Hisao
(31) 20180965	G01K 7/42	(51) G01M 3/22
(32) 10.07.2018	(11) EP3954976	H01M 50/342
(33) Norway	(21) EP20190758.1	H01M 10/48
(51) G01J 3/02	(47) 06.12.2023	H01M 50/30
G01J 3/26	(22) 12.08.2020	(11) EP3718293
G01J 3/28	(54) METHOD AND DEVICE FOR	(21) EP19740784.4
(11) EP3830534	TEMPERATURE PREDICTION	(47) 06.12.2023
(21) EP19740506.1	(73) Baumer A/S	(87) KR2019000771
(47) 06.12.2023	(72) Jensen, Kurt Möller	25.07.2019
(87) EP2019068347	Dawood, Martin	(22) 18.01.2019
06.02.2020	(51) G01L 5/16	(54) ELECTRONIC DEVICE AND METHOD
(22) 09.07.2019	G01L 1/04	OF DETECTING STATUS OF BATTERY
(54) SPECTROMETER DEVICE AND	G01L 1/12	THEREOF
METHOD FOR PRODUCING A	G01L 1/14	(73) Samsung Electronics Co., Ltd.
SPECTROMETER DEVICE	G01L 5/166	(72) LEE, Yongsuk
(73) Robert Bosch GmbH	G01L 5/22	PARK, Hyunku
(72) HUSNIK, Martin	G01L 5/169	(31) 20180007209
HUBER, Christian	(11) EP3680637	(32) 19.01.2018
ROEDEL, Reinhold	(21) EP18869367.5	(33) Korea (Republic)
STEIN, Benedikt	(47) 06.12.2023	(51) G01M 3/40
SCHELLING, Christoph	(87) JP2018038908	G01N 27/20
(31) 102018212755	25.04.2019	G01N 27/24
(32) 31.07.2018	(22) 12.10.2018	G01N 27/61
(33) Germany	(54) FORCE SENSOR AND ROBOT	G01N 27/22
(51) G01J 5/0818	EQUIPPED WITH SAME	G01M 3/18
G01J 5/0803	(73) Canon Kabushiki Kaisha	G01R 31/14
G01J 5/0875	(72) NAGURA, Chihiro	(11) EP4070064
G01J 5/04	(31) 2017201155	(21) EP20920142.5
(11) EP2597439	(32) 17.10.2017	(47) 06.12.2023
(21) EP12190818.0	(33) Japan	(87) US2020026410
(47) 06.12.2023	(51) G01L 5/28	26.08.2021
(22) 31.10.2012	(11) EP3867616	(22) 02.04.2020
(54) Pressure vessel	(21) EP19804843.1	(54) SYSTEM AND METHOD FOR
(73) Mikrowellen-Systeme MWS GmbH	(47) 06.12.2023	GROUNDING HIGH VOLTAGE LEAK
(31) 202011105285 U	(87) IB2019058907	DETECTION
(32) 02.09.2011	23.04.2020	(73) PACKAGING TECHNOLOGIES &
(33) Germany	(22) 18.10.2019	INSPECTION, LLC
(51) G01K 1/08	(54) METHOD FOR TESTING THE BRAKING	(72) O'SULLIVAN, Andrew William
G05D 23/19	CAPACITY TO VEHICLE AND SYSTEM	WOLF, Heinz
(11) EP3608643	THEREOF	TRELOAR, Ross
(21) EP18188322.4	(73) PIAGGIO & C. S.p.A.	SAHA, Sandipan
(47) 06.12.2023	(72) CONTROZZI, Marco	(31) 202016796396
(22) 09.08.2018	LUPI, Alessandro	(32) 20.02.2020
(54) ELECTRONIC ROOM TEMPERATURE	BARTOLI, Domenico	(33) United States of America
REGULATOR	GHIONZOLI, Alessio	(51) G01M 5/00
(73) Stuhl Regelsysteme GmbH	DARIO, Paolo	G01M 7/02
(72) Miehl, Georg	BACCHERETI, Michele	G01M 13/028
Frey, Andreas	MONTAGNANI, Federico	G01M 15/14
Roßbacher, Gerolf	CECCHINI, Torquato	(11) EP3473995
Thümlein, Sven	ROGGI, Massimo	(21) EP18201860.6
(51) G01K 3/00	MINUTILLO, Marco	(47) 06.12.2023
G05D 23/19	(31) 201800009639	(22) 22.10.2018
(11) EP3816761	(32) 19.10.2018	(54) INDUCING AND MONITORING
(21) EP20203371.8	(33) Italy	A VIBRATORY RESPONSE IN A
(47) 06.12.2023	(51) G01L 19/04	COMPONENT
(22) 22.10.2020	G01L 7/06	(73) RTX Corporation
(54) METHODS AND APPARATUS TO	G01L 9/08	(72) GYSLING, Daniel
CONTROL HEATING BASED ON	G01L 21/00	PATURZO, Joseph V
MONITORING FEEDBACK OF	G01L 9/00	LOMENZO, Richard A
TEMPERATURE SENSORS	(11) EP3845881	NICKLOUS, Allison
(73) Illinois Tool Works INC.	(21) EP18937106.5	(31) 201715790892
(72) ANDERSON, Dylan	(47) 06.12.2023	(32) 23.10.2017
OVERESCH, Jeremy	(87) JP2018038643	(33) United States of America
(31) 201916668923	23.04.2020	(51) G01M 7/08
(32) 30.10.2019	(22) 17.10.2018	G01M 17/007
(54) PRESSURE METER	(54) PRESSURE METER	(11) EP3859295

(21) EP19865772.8	E02F 3/90	(32) 17.06.2011
(47) 06.12.2023	G01N 15/02	17.06.2011
(87) JP2019037764	G01N 33/24	(33) European Patent Office (EPO)
02.04.2020	(11) EP2978904	European Patent Office (EPO)
(22) 26.09.2019	(21) EP14716992.4	<hr/>
(54) COLLISION PERFORMANCE	(47) 06.12.2023	(51) G01N 17/02
EVALUATION TEST METHOD	(87) NL2014050193	G01N 17/04
AND COLLISION PERFORMANCE	02.10.2014	(11) EP4097450
EVALUATION TEST APPARATUS FOR	(22) 28.03.2014	(21) EP21707110.9
AUTOMOBILE BODY PART	(54) MEASUREMENT DEVICE FOR	(47) 06.12.2023
(73) JFE Steel Corporation	PERFORMING MEASUREMENT	(87) US2021015518
(72) SATO, Kentaro	ON A MIXTURE OF WATER AND	05.08.2021
KOBIKI, Hideaki	COLLECTED MATERIAL	(22) 28.01.2021
FUTATSUKA, Takayuki	(73) IHC Holland IE B.V.	(54) METHOD FOR LIQUID AND VAPOR
SAKAIDANI, Tomohiro	(72) DE KEIZER, Cornelis	WIRE EXPOSURE TESTING
(31) 2018183832	(31) 2010538	(73) Tannas Company
2018182620	(32) 28.03.2013	(72) HUNT, Gregory James
(32) 28.09.2018	(33) Netherlands	GAHAGAN, Michael Peter
27.09.2018	<hr/>	PEPLOW, Mitchell Andrew
(33) Japan	(51) G01N 15/02	PRENGAMAN, Christopher Paul
Japan	(11) EP3797280	RIMAN, Ronny
<hr/>	(21) EP18749570.0	(31) 202062968711 P
(51) G01M 15/14	(47) 06.12.2023	(32) 31.01.2020
(11) EP3165893	(87) IT2018000076	(33) United States of America
(21) EP16192380.0	28.11.2019	<hr/>
(47) 06.12.2023	(22) 22.05.2018	(51) G01N 17/04
(22) 05.10.2016	(54) APPARATUS AND METHOD FOR THE	G01F 1/64
(54) INSPECTION APPARATUS AND	CHARACTERIZATION OF OBJECTS BY	C12N 9/00
METHODS OF INSPECTING GAS	ANALYSIS OF SCATTERED RADIATION	C12N 11/00
TURBINE ENGINES	(73) EOS S.r.l.	C12N 9/06
(73) Rolls-Royce plc	(72) POTENZA, Marco Alberto Carlo	C12N 9/02
(72) Kell, James	<hr/>	C12N 11/04
Rigg, Graeme	(51) G01N 15/02	C12N 11/10
(31) 201519426	G01N 15/10	G01N 27/327
(32) 03.11.2015	G01N 21/00	(11) EP2909606
(33) United Kingdom	G01N 21/47	(21) EP13846569.5
<hr/>	G01N 21/49	(47) 06.12.2023
(51) G01N 3/04	G01N 30/74	(87) US2013065548
(11) EP4109070	G01N 30/86	24.04.2014
(21) EP21181538.6	(11) EP3701244	(22) 17.10.2013
(47) 06.12.2023	(21) EP19853281.4	(54) DEVICE AND METHODS OF USING
(22) 24.06.2021	(47) 06.12.2023	DEVICE FOR DETECTION OF
(54) TESTING MACHINE CLAMPING HEAD,	(87) US2019012095	AMINOACIDOPATHIES
TESTING MACHINE AND TESTING	09.07.2020	(73) University Of Maryland
METHOD	(22) 02.01.2019	Children's National Medical Center
(73) Henze, Sven	(54) METHOD FOR DETERMINING	The United States Of America, As
(72) Henze, Sven	A RADIUS OF GYRATION OF A	Represented By The Secretary,
<hr/>	PARTICLE IN SOLUTION USING A	Department Of Health And Human
(51) G01N 13/00	LIGHT SCATTERING DETECTOR	Services
G01N 33/24	(73) Tosoh Corporation	(72) AYYUB, Omar Bilal
G06F 111/10	(72) HANEY, Max	BEHRENS, Adam Michael
G06F 30/20	MURPHY, Michael P.	KOFINAS, Peter
G06F 30/23	<hr/>	SUMMAR, Marshall Lynn
G01F 1/704	(51) G01N 15/08	CABRERA-LUQUE, Juan Manuel
G01F 1/74	A61L 15/60	CUNNINGHAM, Gary
G01V 99/00	A61F 13/15	SIMEONOV, Anton
(11) EP3574291	A61F 13/53	MARUGAN, Juan
(21) EP18744797.4	(11) EP2535698	(31) 201361776371 P
(47) 06.12.2023	(21) EP11189960.5	201261714870 P
(87) US2018015408	(47) 06.12.2023	(32) 11.03.2013
02.08.2018	(22) 21.11.2011	17.10.2012
(22) 26.01.2018	(54) Absorbent article having improved	(33) United States of America
(54) MULTI-PHASE FLOW VISUALIZATIONS	absorption properties	United States of America
BASED ON FLUID OCCUPATION TIME	(73) The Procter & Gamble Company	<hr/>
(73) Dassault Systemes Simulia Corp.	(72) Ehrnsperger, Bruno Johannes	(51) G01N 21/17
(72) CROUSE, Bernd	Jennewein, Marc	G01N 21/05
XU, Rui	Lutsche, Marion	(11) EP3350571
(31) 201762450989 P	Peri, Andrea	(21) EP16806222.2
(32) 26.01.2017	Thomann, Maïke	(47) 06.12.2023
(33) United States of America	(31) 11004977	(87) FR2016052741
<hr/>	11004976	27.04.2017
(51) G01N 15/00		

(22) 21.10.2016	(72) MENG, Xianqin	(54) MICRONEEDLE ARRAY IMAGING METHOD, AND MICRONEEDLE ARRAY INSPECTION METHOD
(54) HIGH SENSITIVITY GAS DETECTION APPARATUS BASED ON A HELMHOLTZ RESONATOR	DONG, Xue	(73) FUJIFILM Corporation
(73) Aerovia	WANG, Wei	(72) MUROOKA, Takashi
Université De Reims Champagne-Ardenne	TAN, Jifeng	ONISHI, Kazuo
C.N.R.S.	MENG, Xiandong	(31) 2016173484
(72) RISSER, Christophe	CHEN, Xiaochuan	(32) 06.09.2016
ZENINARI, Virginie	GAO, Jian	(33) Japan
PARVITTE, Bertrand	LIANG, Pengxia	(51) G01N 22/00
(51) G01N 21/3504	WANG, Fangzhou	(11) EP3278090
G01N 21/15	(31) 201810897371	(21) EP16712343.9
G01N 21/61	(32) 08.08.2018	(47) 06.12.2023
G01N 33/497	(33) China	(87) EP2016056938
(11) EP3864396	(51) G01N 21/64	06.10.2016
(21) EP19870882.8	G01N 21/05	(22) 30.03.2016
(47) 06.12.2023	(11) EP3080585	(54) DEVICE WITH A LOW REFLECTION COEFFICIENT AT INPUT FOR EXPOSING AT LEAST ONE OBJECT TO AN ELECTROMAGNETIC FIELD
(87) US2019056243	(21) EP14870463.8	(73) Commissariat à l'Énergie Atomique et aux Énergies Alternatives
16.04.2020	(47) 06.12.2023	(72) CHRETIENNOT, Thomas
(22) 15.10.2019	(87) US2014069373	VEZINET, René
(54) NDIR SENSOR, SAMPLING METHOD AND SYSTEM FOR BREATH ANALYSIS	18.06.2015	CATRAIN, Alexandre
(73) Amphenol Thermometrics, Inc.	(22) 09.12.2014	(31) 1552670
(72) HENDERSON, David	(54) BIOSENSORS FOR BIOLOGICAL OR CHEMICAL ANALYSIS AND METHODS OF MANUFACTURING THE SAME	(32) 30.03.2015
KOUZNETSOV, Andrian	(73) Illumina, Inc.	(33) France
SCIAINI, James	(72) ZHONG, Cheng Frank	(51) G01N 22/02
(31) 201862745088 P	FINKELSTEIN, Hod	G01N 33/38
(32) 12.10.2018	BOYANOV, Boyan	(11) EP3194940
(33) United States of America	DEHLINGER, Dietrich	(21) EP15763568.1
(51) G01N 21/552	SEGALE, Darren	(47) 06.12.2023
G01N 21/77	(31) 201361914275 P	(87) EP2015070954
G01N 33/00	(32) 10.12.2013	24.03.2016
(11) EP2997351	(33) United States of America	(22) 14.09.2015
(21) EP14723875.2	(51) G01N 21/78	(54) METHOD FOR NON-DESTRUCTIVE TESTING OF A REFRACTORY PART
(47) 06.12.2023	A47L 15/42	(73) SAINT-GOBAIN CENTRE DE RECHERCHES ET D'ETUDES EUROPEEN
(87) GB2014051448	G01N 33/18	(72) BORIES, Olivier
20.11.2014	D06F 34/22	(31) 1458851
(22) 12.05.2014	G01N 21/80	(32) 19.09.2014
(54) PLASMONIC HYDROGEN DETECTION	G01N 21/77	(33) France
(73) Kings College London	D06F 39/08	(51) G01N 23/087
(72) ZAYATS, Anatoly	D06F 103/20	(11) EP3729065
DICKSON, Wayne	D06F 105/42	(21) EP18830125.3
NASIR, Mazhar Ejaz	D06F 105/58	(47) 06.12.2023
(31) 201308515	D06F 105/60	(87) US2018065500
(32) 13.05.2013	(11) EP3173771	27.06.2019
(33) United Kingdom	(21) EP16196557.9	(22) 13.12.2018
(51) G01N 21/64	(47) 06.12.2023	(54) ANALYTICAL METHODS
G01N 21/01	(22) 31.10.2016	(73) Colgate-Palmolive Company
A61B 5/145	(54) WATER-CARRYING HOUSEHOLD APPLIANCE WITH A SENSOR DEVICE FOR DETERMINING THE HARDNESS AND PH-VALUE OF A LIQUID	Northwestern University
G01J 3/02	(73) BSH Hausgeräte GmbH	(72) FITZGERALD, Michael
G01J 3/10	(72) Fedorych, Oleh	PAPPAS, Iraklis
G01J 3/28	Paintner, Kai	GAILLARD, Jean-Francois
G01N 21/25	Calvimontes, Alfredo	ALSINA CORVALAN, Marco
G01N 21/31	(31) 102015223371	(31) 201762599824 P
G01N 21/03	(32) 26.11.2015	(32) 18.12.2017
G01J 3/36	(33) Germany	(33) United States of America
G01J 3/42	(51) G01N 21/95	(51) G01N 27/18
(11) EP3835761	G01N 21/958	G01N 30/66
(21) EP19847125.2	G01N 21/88	G01N 30/88
(47) 06.12.2023	A61M 37/00	(11) EP2870465
(87) CN2019096571	(11) EP3511702	(21) EP13756701.2
13.02.2020	(21) EP17848539.7	(47) 06.12.2023
(22) 18.07.2019	(47) 06.12.2023	
(54) SPECTROMETER AND MANUFACTURING METHOD THEREFOR	(87) JP2017029528	
(73) BOE TECHNOLOGY GROUP CO., LTD.	15.03.2018	
	(22) 17.08.2017	

(87) IT2013000178 09.01.2014	JAKOBSEN, Søren Nybroe SAINI, Sunil Kumar	DIJKSTRA, Meindert GARCIA BLANCO, Sonia M.
(22) 27.06.2013	(31) 18197682	RAMÓN AZCÓN, Javier
(54) THERMAL CONDUCTIVITY DETECTOR (TCD) FOR APPLICATIONS IN FAST GAS-CHROMATOGRAPHY (GC)	(32) 28.09.2018 (33) European Patent Office (EPO)	OBREGÓN NÚÑEZ, Raquel MARTÍNEZ FRAIZ, Elena
(73) Consiglio Nazionale Delle Ricerche Pollution S.r.l.	(51) G01N 33/50 C08G 65/34 C08G 65/333	TOUDERT, Johann MARTORELL PENA, Jordi
(72) COZZANI, Enrico CARDINALI, Gian Carlo MESSINA, Marco ZAMPOLLI, Stefano ELMI, Ivan POGGI, Antonella MANCARELLA, Fulvio	(11) EP3828542 (21) EP20204675.1 (47) 06.12.2023 (22) 29.10.2020 (54) LAYERED BODY (73) Ricoh Company, Ltd. (72) IWASHITA, Natsuko	BRANKOVIC, Veselin MIHAJLOVIC, Veljko PARAUSIC, Marko TASOVAC, Darko
(31) RM20120311 (32) 04.07.2012 (33) Italy	YAGINUMA, Hidekazu SHIONOIRI, Momoko SAMESHIMA, Tatsuya	(31) 19382327 (32) 30.04.2019 (33) European Patent Office (EPO)
(51) G01N 29/04 G01N 29/11 G01N 29/44	KUBO, Chihiro SATO, Naoki YAMAZAKI, Takehiro	(51) G01N 33/543 G01N 33/545 G01N 37/00
(11) EP3739331 (21) EP20174365.5 (47) 06.12.2023 (22) 13.05.2020	(31) 2019207225 (32) 15.11.2019 (33) Japan	(11) EP3680663 (21) EP18853298.0 (47) 06.12.2023 (87) JP2018033301 14.03.2019 (22) 07.09.2018
(54) ESTIMATION DEVICE, INSPECTION SYSTEM, ESTIMATION METHOD, AND STORAGE MEDIUM	(51) G01N 33/53 (11) EP3499232 (21) EP18209305.4 (47) 06.12.2023 (22) 08.10.2012	(54) SUBSTRATE FOR BIOCHIP, BIOCHIP, METHOD FOR MANUFACTURING BIOCHIP, AND METHOD FOR PRESERVING BIOCHIP (73) Mitsubishi Gas Chemical Company, Inc. (72) SAWANO Erika TAKASE Yuki TASHIRO Hideo TASHIRO Tomoko
(73) KABUSHIKI KAISHA TOSHIBA (72) Saito, Masahiro Chiba, Yasunori Ushijima, Akira Ono, Toshiyuki Matsumura, Atsushi	(54) METHOD FOR THE DIRECT DETECTION AND/OR QUANTIFICATION OF AT LEAST ONE COMPOUND WITH A MOLECULAR WEIGHT OF AT LEAST 200 (73) Sanifit Therapeutics S.A. (72) Perelló Bestard, Joan Maraschiello De Zuani, Ciriaco Lenthéric, Irène Mendoza De Las Heras, Paula Tur Espinosa, Fernando Tur Tur, Eva Encabo Alarcón, Máximo Martín Becerra, Eva Benito Amengual, Maria del Mar Isern Amengual, Bernat	(31) 2017172454 2017172453 (32) 07.09.2017 07.09.2017 (33) Japan Japan
(31) 2019091717 (32) 14.05.2019 (33) Japan	(31) 11382314 (32) 06.10.2011 (33) European Patent Office (EPO)	(31) 2017172454 (32) 07.09.2017 07.09.2017 (33) Japan Japan
(51) G01N 30/96 B01D 15/12 B01D 15/36 G01N 30/06 G01N 33/72 G01N 30/88	(51) G01N 33/543 (11) EP3963325 (21) EP20722569.9 (47) 06.12.2023 (87) EP2020061820 05.11.2020 (22) 29.04.2020 (54) SELF-REFERENCED SENSOR (73) Acondicionamiento Tarrasense (LEITAT) Universiteit Twente Fundació Institut de Bioenginyeria de Catalunya (IBEC) Novelic Doo Beograd-Novi Beograd (Novelic) (72) MITJANS PRAT, Francesc PADILLA GARCÍA, Laura KOZYREFF, Gregory ACHARYYA, Nirmalendu DE GOEDE, Michiel CHANG, Lantian	(51) G01N 33/566 (11) EP3857224 (21) EP19866422.9 (47) 06.12.2023 (87) US2019051867 02.04.2020 (22) 19.09.2019 (54) MOLECULAR TRAP FOR REMOVING BIOTIN INTERFERENCE FROM ASSAYS (73) Siemens Healthcare Diagnostics Inc. (72) WEI, Tie TENG, Zhu BAHAR, Izak (31) 201862735911 P (32) 25.09.2018 (33) United States of America
(11) EP4011473 (21) EP21213819.2 (47) 06.12.2023 (22) 10.12.2021	(51) G01N 33/50 (11) EP3857222 (21) EP19773108.6 (47) 06.12.2023 (87) EP2019076009 02.04.2020 (22) 26.09.2019	(51) G01N 33/569 (11) EP3276352 (21) EP16768961.1 (47) 06.12.2023 (87) JP2016059741 29.09.2016 (22) 25.03.2016 (54) METHOD FOR DETECTING ZYGOMYCOSIS (73) Seikagaku Corporation (72) AIZAWA Maki MAKIMURA Koichi (31) 2015063887
(54) METHOD FOR MEASUREMENT OF HEMOGLOBIN	(73) ARKRAY, Inc. (72) MIYAMOTO, Mari (31) 2020205979 (32) 11.12.2020 (33) Japan	(73) Siemens Healthcare Diagnostics Inc. (72) WEI, Tie TENG, Zhu BAHAR, Izak (31) 201862735911 P (32) 25.09.2018 (33) United States of America
(51) G01N 33/50 (11) EP3857222 (21) EP19773108.6 (47) 06.12.2023 (87) EP2019076009 02.04.2020 (22) 26.09.2019	(73) ARKRAY, Inc. (72) MIYAMOTO, Mari (31) 2020205979 (32) 11.12.2020 (33) Japan	(73) Siemens Healthcare Diagnostics Inc. (72) WEI, Tie TENG, Zhu BAHAR, Izak (31) 201862735911 P (32) 25.09.2018 (33) United States of America
(54) HIGH THROUGHPUT EPITOPE IDENTIFICATION AND T CELL RECEPTOR SPECIFICITY DETERMINATION USING LOADABLE DETECTION MOLECULES	(73) ARKRAY, Inc. (72) HADRUP, Sine Reker	(73) Siemens Healthcare Diagnostics Inc. (72) WEI, Tie TENG, Zhu BAHAR, Izak (31) 201862735911 P (32) 25.09.2018 (33) United States of America

(32) 26.03.2015	(31) 201607800	C12N 9/02
(33) Japan	201517527	A61P 9/14
(51) G01N 33/569	(32) 29.04.2016	A61P 43/00
(11) EP4038389	02.10.2015	(11) EP3427061
(21) EP20792724.5	(33) United Kingdom	(21) EP16826369.7
(47) 06.12.2023	United Kingdom	(47) 06.12.2023
(87) IB2020059148	(51) G01N 33/574	(87) EP2016082925
08.04.2021	G01N 33/543	14.09.2017
(22) 30.09.2020	(11) EP3577463	(22) 30.12.2016
(54) METHOD FOR DIAGNOSING	(21) EP17889071.1	(54) USE OF SELECTIVE INOS INHIBITORS
TUBERCULOSIS IN URINE SAMPLES	(47) 06.12.2023	FOR TREATING THORACIC AORTIC
(73) University of Cape Town	(87) US2017068768	ANEURYSM
(72) BLACKBURN, Jonathan Michael	05.07.2018	(73) Centro Nacional de Investigaciones
DHEDA, Keertan Unkha Jairam	(22) 28.12.2017	Cardiovasculares Carlos III (F.S.P.)
(31) 201906422	(54) NANOPLASMONIC QUANTIFICATION	Consejo Superior De Investigaciones
(32) 30.09.2019	OF TUMOR-DERIVED	Científicas
(33) South Africa	EXTRACELLULAR VESICLES IN	Universidad Autónoma de Madrid
(51) G01N 33/574	PLASMA MICROSAMPLES	(72) REDONDO MOYA, Juan Miguel
(11) EP2893351	(73) The Methodist Hospital DBA Houston	MÉNDEZ-BARBERO, Nerea
(21) EP13776424.7	Methodist	OLLER PEDROSA, Jorge
(47) 06.12.2023	Hu, Ye	CAMPANERO GARCÍA, Miguel Ramón
(87) EP2013068558	Fan, Jia	(31) 16382103
13.03.2014	Liang, Kai	(32) 07.03.2016
(22) 09.09.2013	Liu, Fei	(33) European Patent Office (EPO)
(54) METHOD FOR IDENTIFYING	Sun, Dali	(51) G01N 35/10
SUBGROUPS OF CIRCULATING	(72) HU, Ye	(11) EP3060925
TUMOR CELLS (CTCS) IN THE CTC	FAN, Jia	(21) EP14793054.9
POPULATION OF A BIOLOGICAL	LIANG, Kai	(47) 06.12.2023
SAMPLE	LIU, Fei	(87) EP2014072800
(73) Hoffmann, Andreas-Claudius	SUN, Dali	30.04.2015
Schlaak, Jörg Friedrich	(31) 201662440494 P	(22) 23.10.2014
(72) Hoffmann, Andreas-Claudius	(32) 30.12.2016	(54) KIT, METHOD AND ASSEMBLY FOR
Schlaak, Jörg Friedrich	(33) United States of America	PREPARING A SAMPLE
(31) 12183492	(51) G01N 33/68	(73) bioMérieux
(32) 07.09.2012	(11) EP3855186	(72) GUY, Michel
(33) European Patent Office (EPO)	(21) EP21173934.7	(31) 13306463
(51) G01N 33/574	(47) 06.12.2023	(32) 23.10.2013
(11) EP3356826	(22) 14.05.2021	(33) European Patent Office (EPO)
(21) EP16778307.5	(54) A METHOD FOR DETERMINING	(51) G01P 15/097
(47) 06.12.2023	THE EFFICACY OF A SARS-COV-2	G01P 15/125
(87) EP2016073521	VACCINE	G01P 21/00
06.04.2017	(73) Euroimmun Medizinische	G01P 15/08
(22) 30.09.2016	Labordiagnostika AG	H03H 9/02
(54) GDF-15 AS A DIAGNOSTIC MARKER	(72) Stöcker, Winfried	(11) EP3835796
FOR MELANOMA	Steinhagen, Katja	(21) EP20202887.4
(73) Julius-Maximilians-Universität Würzburg	Komorowski, Lars	(47) 06.12.2023
(72) WISCHHUSEN, Jörg	(31) 20175031	(22) 20.10.2020
SCHÄFER, Tina	(32) 15.05.2020	(54) RESONATOR ELECTRODE
WEIDE, Benjamin	(33) European Patent Office (EPO)	CONFIGURATION TO AVOID
(31) 201517528	(51) G01N 33/68	CAPACITIVE FEEDTHROUGH FOR
(32) 02.10.2015	(11) EP3825695	VIBRATING BEAM ACCELEROMETERS
(33) United Kingdom	(21) EP20200807.4	(73) Honeywell International Inc.
(51) G01N 33/574	(47) 06.12.2023	(72) REINKE, John
(11) EP3356827	(22) 08.10.2020	(31) 202017006647
(21) EP16779036.9	(54) BIOMARKERS FOR RESPONDERS TO	201962932397 P
(47) 06.12.2023	AIT	201962932298 P
(87) EP2016073519	(73) Allergopharma GmbH & Co. KG	(32) 28.08.2020
06.04.2017	(72) NANDY, Andreas	07.11.2019
(22) 30.09.2016	KAHLERT, Helga	07.11.2019
(54) GDF-15 AS A DIAGNOSTIC MARKER	BEREK, Nadine	(33) United States of America
TO PREDICT THE CLINICAL	MERTENS-BEER, Melanie	United States of America
OUTCOME OF A TREATMENT WITH	WILLERS, Christoph Paul Joseph	United States of America
IMMUNE CHECKPOINT BLOCKERS	SOKOLOWSKA, Milena Grazyna	(51) G01P 15/13
(73) Julius-Maximilians-Universität Würzburg	AKDIS, Ali Cezmi	G01P 15/125
(72) WISCHHUSEN, Jörg	(31) 19211257	(11) EP3816636
HAAKE, Markus	(32) 25.11.2019	(21) EP20199956.2
DUMMER, Reinhard	(33) European Patent Office (EPO)	(47) 06.12.2023
MEHLING, Matthias	(51) G01N 33/68	(22) 02.10.2020

(54) METHODS FOR CLOSED LOOP OPERATION OF CAPACITIVE ACCELEROMETERS	(21) EP20165688.1 (47) 06.12.2023 (22) 25.03.2020	(11) EP3589965 (21) EP18761604.0 (47) 06.12.2023
(73) ATLANTIC INERTIAL SYSTEMS LIMITED	(54) FREQUENCY MEASURING METHOD AND FREQUENCY MEASURING DEVICE	(87) US2018019934 07.09.2018 (22) 27.02.2018
(72) TOWNSEND, Kevin FELL, Christopher Paul	(73) Schneider Electric Industries SAS (72) XING, Jinlei LUO, Shanshan	(54) ELECTRONICS TESTER (73) AEHR Test Systems (72) JOVANOVIC, Jovan DEBOE, Kenneth W. STEPS, Steven C. LINDSEY, Scott E.
(31) 201915903 (32) 01.11.2019 (33) United Kingdom	(31) 201910231301 (32) 26.03.2019 (33) China	(31) 201762526089 P 201762466462 P (32) 28.06.2017 03.03.2017 (33) United States of America United States of America
(51) G01R 1/20 G01R 31/364	(51) G01R 27/16 G01R 27/18 G01R 31/52 H02H 3/16	(31) 201762526089 P 201762466462 P (32) 28.06.2017 03.03.2017 (33) United States of America United States of America
(11) EP3995837 (21) EP21203762.6 (47) 06.12.2023 (22) 20.10.2021	(11) EP4045922 (21) EP20793334.2 (47) 06.12.2023 (87) EP2020079116 22.04.2021 (22) 15.10.2020 (54) METHOD AND DEVICE FOR DETERMINING THE RESISTIVE COMPONENT OF THE LEAKAGE CURRENT IMPEDANCE IN THE ALTERNATING CURRENT NETWORK	(31) 201762526089 P 201762466462 P (32) 28.06.2017 03.03.2017 (33) United States of America United States of America
(54) RESISTOR ASSEMBLY AND BATTERY SENSOR WITH RESISTOR ASSEMBLY	(21) EP20793334.2 (47) 06.12.2023 (87) EP2020079116 22.04.2021 (22) 15.10.2020 (54) METHOD AND DEVICE FOR DETERMINING THE RESISTIVE COMPONENT OF THE LEAKAGE CURRENT IMPEDANCE IN THE ALTERNATING CURRENT NETWORK	(31) 201762526089 P 201762466462 P (32) 28.06.2017 03.03.2017 (33) United States of America United States of America
(73) Continental Automotive Technologies GmbH	(47) 06.12.2023 (87) EP2020079116 22.04.2021 (22) 15.10.2020 (54) METHOD AND DEVICE FOR DETERMINING THE RESISTIVE COMPONENT OF THE LEAKAGE CURRENT IMPEDANCE IN THE ALTERNATING CURRENT NETWORK	(51) G01R 31/367 G01R 31/392 G01R 31/371 (11) EP3775949 (21) EP19714395.1 (47) 06.12.2023 (87) EP2019057705 03.10.2019 (22) 27.03.2019 (54) DETERMINING BATTERY WEAR OF A MOBILE ELECTRONIC DEVICE
(72) Frenzel, Henryk Schramme, Martin Aumer, Andreas	(72) SCHULZE, Simon SCHULZE, Wolfgang VERGOV, Dimitar	(73) Blancoco Technology Group IP Oy (72) HADDEJ, Dhia Ben (31) 201805092 (32) 28.03.2018 (33) United Kingdom
(31) 102020214083 (32) 10.11.2020 (33) Germany	(31) 102019007224 (32) 17.10.2019 (33) Germany	(22) 27.03.2019 (54) DETERMINING BATTERY WEAR OF A MOBILE ELECTRONIC DEVICE (73) Blancoco Technology Group IP Oy (72) HADDEJ, Dhia Ben (31) 201805092 (32) 28.03.2018 (33) United Kingdom
(51) G01R 15/18 G01R 15/20 G01R 33/04 G01R 33/00	(73) Safetytest GmbH (72) SCHULZE, Simon SCHULZE, Wolfgang VERGOV, Dimitar	(51) G01R 31/367 G01R 31/392 G01R 31/371 (11) EP3775949 (21) EP19714395.1 (47) 06.12.2023 (87) EP2019057705 03.10.2019 (22) 27.03.2019 (54) DETERMINING BATTERY WEAR OF A MOBILE ELECTRONIC DEVICE
(11) EP3875970 (21) EP21161062.1 (47) 06.12.2023 (22) 05.03.2021	(31) 102019007224 (32) 17.10.2019 (33) Germany	(54) DETERMINING BATTERY WEAR OF A MOBILE ELECTRONIC DEVICE (73) Blancoco Technology Group IP Oy (72) HADDEJ, Dhia Ben (31) 201805092 (32) 28.03.2018 (33) United Kingdom
(54) CURRENT SENSOR	(51) G01R 31/08 G01R 19/165 G01R 19/25	(51) G01R 33/24 (11) EP4139699 (21) EP21718609.7 (47) 06.12.2023 (87) EP2021060142 28.10.2021 (22) 20.04.2021 (54) MR IMAGING WITH T1 COMPENSATED B1 MAPPING
(73) Hioki E.E. Corporation	(11) EP3786652 (21) EP19306045.6 (47) 06.12.2023 (22) 29.08.2019	(54) DETERMINING BATTERY WEAR OF A MOBILE ELECTRONIC DEVICE (73) Blancoco Technology Group IP Oy (72) HADDEJ, Dhia Ben (31) 201805092 (32) 28.03.2018 (33) United Kingdom
(72) NAKAZAWA, Koki KARASAWA, Yuki IKEDA, Kenta YAMAGISHI, Kimihiko MARUYAMA, Takafumi	(54) METHOD AND SYSTEM FOR LOCATING A SHORT-CIRCUIT BETWEEN A CONDUCTOR AND AN ELECTRICALLY CONDUCTIVE SCREEN SURROUNDING SAID CONDUCTOR	(54) MR IMAGING WITH T1 COMPENSATED B1 MAPPING (73) Koninklijke Philips N.V. (72) NEHRKE, Kay BOERNERT, Peter (31) 20171014 (32) 23.04.2020 (33) European Patent Office (EPO)
(31) 2021001731 2020039014 (32) 07.01.2021 06.03.2020 (33) Japan Japan	(73) Nexans (72) FROHNE, Christian GAULER, Volker NOROUZI, Younes DUBOIS, David	(54) MR IMAGING WITH T1 COMPENSATED B1 MAPPING (73) Koninklijke Philips N.V. (72) NEHRKE, Kay BOERNERT, Peter (31) 20171014 (32) 23.04.2020 (33) European Patent Office (EPO)
(51) G01R 19/165 H04W 52/02	(73) Nexans (72) FROHNE, Christian GAULER, Volker NOROUZI, Younes DUBOIS, David	(54) MR IMAGING WITH T1 COMPENSATED B1 MAPPING (73) Koninklijke Philips N.V. (72) NEHRKE, Kay BOERNERT, Peter (31) 20171014 (32) 23.04.2020 (33) European Patent Office (EPO)
(11) EP3871448 (21) EP19795523.0 (47) 06.12.2023 (87) EP2019079069 30.04.2020 (22) 24.10.2019	(51) G01R 31/28 (11) EP3789778 (21) EP19195852.9 (47) 06.12.2023 (22) 06.09.2019	(54) MR IMAGING WITH T1 COMPENSATED B1 MAPPING (73) Koninklijke Philips N.V. (72) NEHRKE, Kay BOERNERT, Peter (31) 20171014 (32) 23.04.2020 (33) European Patent Office (EPO)
(54) CIRCUIT FOR PROCESSING A WAKE-UP SIGNAL	(47) 06.12.2023 (22) 06.09.2019 (54) METHOD AND DEVICE FOR GENERATING TEST SIGNALS AT DIFFERENT CARRIER FREQUENCIES	(54) MR IMAGING WITH T1 COMPENSATED B1 MAPPING (73) Koninklijke Philips N.V. (72) NEHRKE, Kay BOERNERT, Peter (31) 20171014 (32) 23.04.2020 (33) European Patent Office (EPO)
(73) Robert Bosch GmbH (72) SCHUMACHER, Hartmut KOVACIC, Leonardo WANG, Eugen	(73) Rohde & Schwarz GmbH & Co. KG (72) Winkhofer, Max Lorenzen, Rolf Krakowski, Claudiu Hank, Daniel	(54) MR IMAGING WITH T1 COMPENSATED B1 MAPPING (73) Koninklijke Philips N.V. (72) NEHRKE, Kay BOERNERT, Peter (31) 20171014 (32) 23.04.2020 (33) European Patent Office (EPO)
(31) 102018218171 (32) 24.10.2018 (33) Germany	(73) Rohde & Schwarz GmbH & Co. KG (72) Winkhofer, Max Lorenzen, Rolf Krakowski, Claudiu Hank, Daniel	(54) MR IMAGING WITH T1 COMPENSATED B1 MAPPING (73) Koninklijke Philips N.V. (72) NEHRKE, Kay BOERNERT, Peter (31) 20171014 (32) 23.04.2020 (33) European Patent Office (EPO)
(51) G01R 23/02 G01R 23/16 G01R 19/25 (11) EP3715875	(51) G01R 31/28 G01R 1/02 G01R 1/04	(54) MR IMAGING WITH T1 COMPENSATED B1 MAPPING (73) Koninklijke Philips N.V. (72) NEHRKE, Kay BOERNERT, Peter (31) 20171014 (32) 23.04.2020 (33) European Patent Office (EPO)

(32) 06.10.2017	(47) 06.12.2023	TANG, Wei
(33) United States of America	(22) 08.02.2018	SONG, Xiaogang
(51) G01R 33/567	(54) BUILT-IN SELF-TEST FOR A RADAR	YANG, Bing
G01R 33/48	UNIT RECEIVER AND METHOD	(31) 201811198406
G01R 33/483	THEREFOR	(32) 15.10.2018
G01R 33/561	(73) NXP B.V.	(33) China
(11) EP3477326	(72) SCHAT, Jan-Peter	(51) G01S 7/497
(21) EP17198122.8	ZANATI, Abdellatif	G01S 7/481
(47) 06.12.2023	(51) G01S 7/41	G01S 7/487
(22) 24.10.2017	G01S 7/48	G01S 17/18
(54) METHOD FOR DETERMINING MOTION	G01S 7/539	(11) EP3647811
STATES OF AT LEAST TWO BODIES	G01S 13/42	(21) EP18823215.1
USING MR-MEASUREMENTS AND	G01S 13/931	(47) 06.12.2023
METHOD FOR SIMULTANEOUSLY	G01S 15/931	(87) JP2018024055
IMAGING AT LEAST TWO BODIES	G01S 17/42	03.01.2019
(73) Bruker BioSpin MRI GmbH	G01S 17/931	(22) 25.06.2018
(72) Nauerth, Arno	G01S 7/00	(54) INFORMATION PROCESSING DEVICE,
Heidenreich, Michael	(11) EP3796031	CONTROL METHOD, PROGRAM AND
(51) G01S 3/801	(21) EP19198532.4	RECORDING MEDIUM
G01S 3/808	(47) 06.12.2023	(73) Pioneer Corporation
H04R 1/08	(22) 20.09.2019	(72) HAYASHI, Yukio
G01H 3/12	(54) A METHOD FOR REDUCING THE	ABE, Yoshinori
H04R 5/027	AMOUNT OF SENSOR DATA FROM	(31) 2017124949
H04R 3/00	A FORWARD-LOOKING VEHICLE	(32) 27.06.2017
H04R 1/40	SENSOR	(33) Japan
(11) EP3698554	(73) Arriver Software AB	(51) G01S 7/52
(21) EP18800244.8	(72) Grubeck, Hans	A61B 8/00
(47) 06.12.2023	Lovtjárn, André	(11) EP3203915
(87) FR2018052510	Björkeson, Felix	(21) EP15849729.7
25.04.2019	Shitoshna, Nepal	(47) 06.12.2023
(22) 10.10.2018	(51) G01S 7/48	(87) US2015054422
(54) IMAGING SYSTEM FOR	G01S 17/42	14.04.2016
ENVIRONMENTAL ACOUSTIC	G01S 17/89	(22) 07.10.2015
SOURCES	G06V 20/56	(54) PARAMETER LOADER FOR
(73) Observatoire Regional Du Bruit En IDF	(11) EP3673407	ULTRASOUND PROBE AND RELATED
(72) MIETLICKI, Christophe	(21) EP18807886.9	APPARATUS AND METHODS
(31) 1759730	(47) 06.12.2023	(73) BFLY Operations, Inc.
(32) 17.10.2017	(87) EP2018080687	(72) RALSTON, Tyler S.
(33) France	16.05.2019	CASPER, Andrew J.
(51) G01S 5/24	(22) 08.11.2018	SANCHEZ, Nevada J.
G01S 3/801	(54) AUTOMATIC OCCLUSION DETECTION	(31) 201462061613 P
G01S 3/808	IN ROAD NETWORK DATA	(32) 08.10.2014
A01D 34/00	(73) HERE Global B.V.	(33) United States of America
(11) EP4073539	(72) DORIA, David	(51) G01S 7/52
(21) EP20817416.9	CHEN, Xin	G01N 29/34
(47) 06.12.2023	PARKER, Coby Spolin	G01N 29/04
(87) EP2020085243	LI, Zichen	G01S 15/89
17.06.2021	(31) 201715808277	G01N 29/44
(22) 09.12.2020	(32) 09.11.2017	G01S 15/10
(54) LOCATION DETERMINATION SYSTEM,	(33) United States of America	(11) EP3828589
METHOD FOR DETERMINING	(51) G01S 7/481	(21) EP20204485.5
A LOCATION AND DEVICE FOR	G01S 7/497	(47) 06.12.2023
DETERMINING ITS LOCATION	G06F 21/32	(22) 28.10.2020
(73) FOCCAERT Y. BVBA	G01N 27/00	(54) ULTRASONIC INSPECTION METHOD
(72) FOCCAERT, Yves Chrétien	G01N 27/04	AND ULTRASONIC INSPECTION
DE ROO, Auke Jan	G01V 3/02	APPARATUS
PEEZENKAMP, Wilfried Remco Mathijs	(11) EP3848850	(73) HITACHI-GE NUCLEAR ENERGY, LTD.
(31) 2024416	(21) EP19873016.0	(72) KITAZAWA, Sou
(32) 10.12.2019	(47) 06.12.2023	NIDAIRA, Yasuhiro
(33) Netherlands	(87) CN2019110831	EHARA, Kazuya
(51) G01S 7/35	23.04.2020	NAGANUMA, Junichiro
G01S 7/40	(22) 12.10.2019	(31) 2019216271
G01S 13/34	(54) OPTICAL ELEMENT AND MONITORING	(32) 29.11.2019
G01S 13/931	SYSTEM AND METHOD THEREFOR,	(33) Japan
H03M 1/10	ACTIVE LIGHT EMITTING MODULE,	(51) G01S 7/52
G01S 7/03	AND TERMINAL	G01S 15/89
(11) EP3524999	(73) HUAWEI TECHNOLOGIES CO., LTD.	A61B 8/08
(21) EP18155707.5	(72) SHI, Bin	(11) EP2905633

(21) EP15154355.0	STOFER, Daniel	(72) UETSUKA, Hisato
(47) 06.12.2023	VAN EENOO, Nicolas	(31) 2019138295
(22) 09.02.2015	(31) 2106107	(32) 26.07.2019
(54) Ultrasonic diagnosis apparatus, image processing apparatus, and image processing method	(32) 10.06.2021	(33) Japan
(73) Toshiba Medical Systems Corporation	(33) France	<hr/>
(72) Honjo, Yasunori	(51) G01S 13/88	(51) G01S 17/89
Abe, Yasuhiko	G01S 13/02	H04N 13/254
Kawagishi, Tetsuya	G01S 13/10	H04N 13/271
Hirama, Makoto	(11) EP3367123	H04N 13/218
Sato, Takeshi	(21) EP18157911.1	H04N 13/296
(31) 2014023624	(47) 06.12.2023	G01S 7/481
(32) 10.02.2014	(22) 21.02.2018	G01S 7/499
(33) Japan	(54) ULTRA-WIDEBAND RADAR ALTIMETER	(11) EP3423858
<hr/>	(73) Rosemount Aerospace Inc.	(21) EP17760645.6
(51) G01S 13/52	(72) PESIK, Joseph	(47) 06.12.2023
G01S 13/42	ELL, Todd Anthony	(87) US2017020011
G01S 13/87	(31) 201715440796	08.09.2017
H01Q 21/20	(32) 23.02.2017	(22) 28.02.2017
G01S 7/41	(33) United States of America	(54) 3D IMAGING SYSTEM AND METHOD
(11) EP3465262	<hr/>	(73) nLIGHT, Inc.
(21) EP17728168.0	(51) G01S 13/89	(72) BANKS, Paul S.
(47) 06.12.2023	G01V 8/00	SCHMIDT, Bodo
(87) EP2017063367	G01S 13/88	TUVEY, C. Stewart
07.12.2017	G01S 13/87	VENNERI, Lorenzo N.
(22) 01.06.2017	G01S 13/86	(31) 201662301587 P
(54) DRONE DETECTION RADAR	G01S 7/04	(32) 29.02.2016
(73) Qinetiq Limited	H01Q 21/29	(33) United States of America
(72) HARMAN, Stephen Anthony	(11) EP3278140	<hr/>
(31) 201707129	(21) EP16716409.4	(51) G01S 17/95
201609640	(47) 06.12.2023	G01S 17/58
(32) 04.05.2017	(87) US2016025698	F03D 17/00
02.06.2016	06.10.2016	(11) EP3657217
(33) United Kingdom	(22) 01.04.2016	(21) EP19206135.6
United Kingdom	(54) MODULAR IMAGING SYSTEM	(47) 06.12.2023
<hr/>	(73) Evolv Technologies, Inc.	(22) 30.10.2019
(51) G01S 13/84	(72) ELLENBOGEN, Michael	(54) METHOD FOR ACQUIRING AND MODELLING AN AMBIENT WIND FIELD BY A LIDAR SENSOR
G01S 7/03	LITCHFIELD, Michael	(73) IFP Energies nouvelles
G01S 7/40	ROSE, Alec	(72) GUILLEMIN, Fabrice
B60R 25/24	CONWAY, Peter	NGUYEN, Hoai-Nam
B60R 25/20	(31) 201562142730 P	(31) 1871844
G07C 9/00	(32) 03.04.2015	(32) 26.11.2018
H04B 1/48	(33) United States of America	(33) France
(11) EP3789790	<hr/>	<hr/>
(21) EP20175697.0	(51) G01S 17/10	(51) G01S 19/07
(47) 06.12.2023	G01S 17/89	(11) EP3904911
(22) 20.05.2020	G01S 17/933	(21) EP20914762.8
(54) DISTANCE MEASURING DEVICE	G01S 7/481	(47) 06.12.2023
(73) KABUSHIKI KAISHA TOSHIBA	G01S 7/484	(87) CN2020077947
Toshiba Electronic Devices & Storage Corporation	(11) EP3517998	10.09.2021
(72) Ogasawara, Yosuke	(21) EP18153160.9	(22) 05.03.2020
(31) 2019162238	(47) 06.12.2023	(54) METHOD AND DEVICE FOR CONVERTING STATE SPACE REPRESENTATION INTO OBSERVATION SPACE REPRESENTATION
(32) 05.09.2019	(22) 24.01.2018	(73) Shanghai Huace Navigation Technology Ltd.
(33) Japan	(54) AIRBORNE LIDAR PULSE RATE MODULATION	<hr/>
<hr/>	(73) Leica Geosystems AG	(72) HE, Yutong
(51) G01S 13/86	(72) ALTMANN, Kristian	WU, Xiaomeng
G01S 13/72	AXELSSON, Andreas	ZHANG, Jialin
G01S 13/87	<hr/>	<hr/>
(11) EP4102253	(51) G01S 17/34	(51) G01S 19/21
(21) EP22178508.2	G01S 7/481	(11) EP3869232
(47) 06.12.2023	G01S 7/499	(21) EP21157378.7
(22) 10.06.2022	(11) EP4006587	(47) 06.12.2023
(54) METHOD AND DEVICE FOR SELECTING THE SENSOR RESOURCES OF A MULTI-SENSOR SYSTEM	(21) EP20846020.4	(22) 16.02.2021
(73) THALES	(47) 06.12.2023	(54) SYSTEM AND METHOD FOR DETECTING SPOOFING OF GLOBAL NAVIGATION SATELLITE SYSTEM SIGNALS USING A SINGLE ANTENNA
(72) HERNOUST, Thibault	(87) JP2020028308	
GRIVAULT, Ludovic	04.02.2021	
	(22) 21.07.2020	
	(54) DISTANCE AND SPEED MEASURING APPARATUS	
	(73) Steravision Co., Ltd.	

(73) NovAtel Inc.	(72) DANIELSSON, Mats	(22) 22.12.2020
(72) BROUMANDAN, Ali	KARLSSON, Staffan	(54) METHODS, APPARATUSES, SYSTEMS
(31) 202062978524 P	XU, Cheng	AND COMPUTER PROGRAM
(32) 19.02.2020	SJÖLIN, Martin	PRODUCTS FOR ESTIMATING ROAD
(33) United States of America	(31) 201715588030	SURFACE TEMPERATURE
(51) G01S 19/21	(32) 05.05.2017	(73) Nira Dynamics AB
G01S 19/33	(33) United States of America	(72) MAGNUSSON, Per Olof Magnus
G01S 19/39	(51) G01V 1/00	JONSSON, Lars William
G07B 15/06	G01V 1/04	ERIKSSON, Lisa Ingegerd
(11) EP3339903	G01V 1/16	(31) 102019135751
(21) EP16206256.6	(11) EP3635441	(32) 23.12.2019
(47) 06.12.2023	(21) EP18728183.7	(33) Germany
(22) 22.12.2016	(47) 06.12.2023	(51) G02B 3/14
(54) METHOD, SYSTEM, DEVICE AND	(87) EP2018064989	G02B 26/00
COMPUTER PROGRAM PRODUCT	13.12.2018	(11) EP3311205
FOR SIGNALLING A MALFUNCTION	(22) 07.06.2018	(21) EP16730381.7
OR IMPENDING MALFUNCTION OF A	(54) A METHOD FOR ACQUIRING A	(47) 06.12.2023
POSITION DETECTING APPARATUS,	SEISMIC DATASET OVER A REGION	(87) EP2016064098
AND FEE CHARGING SYSTEM	OF INTEREST	22.12.2016
(73) Toll Collect GmbH	(73) TotalEnergies OneTech	(22) 17.06.2016
(72) Böhme, Nils	(72) BOELLE, Jean-Luc	(54) TEMPERATURE DRIFT
Slizewski, Zbigniew	MASONI, Isabella	COMPENSATION FOR LIQUID LENSES
Manojlovic, Ognjen	ESTIVAL, Rémi	(73) Optotune Switzerland AG
(51) G01S 19/21	BARBOUETAU, Sandra	(72) PATSCHEIDER, Roman
H04B 7/185	(31) 17305684	NIEDERER, David
(11) EP2867699	(32) 08.06.2017	GEBBERS, Pit
(21) EP13728699.3	(33) European Patent Office (EPO)	BORER, Daniel
(47) 06.12.2023	(51) G01V 1/30	LANING, Christopher
(87) EP2013061297	G01V 1/50	SMOLKA, Stephan
03.01.2014	(11) EP3948362	(31) PCT/EP2015/063662
(22) 31.05.2013	(21) EP20720693.9	(32) 17.06.2015
(54) AUTHENTICATION OF SATELLITE	(47) 06.12.2023	(33) World Intellectual Property Office (WIPO)
NAVIGATION SIGNALS	(87) US2020025679	(51) G02B 5/22
(73) Airbus Defence and Space Limited	08.10.2020	G02C 7/10
(72) TURNER, Michael Charles	(22) 30.03.2020	B29D 11/00
(31) 12275100	(54) CONTROLLING FLUID VOLUME	G02B 1/04
(32) 27.06.2012	VARIATIONS OF A RESERVOIR	G02B 1/10
(33) European Patent Office (EPO)	UNDER PRODUCTION	B29C 48/08
(51) G01T 1/24	(73) Saudi Arabian Oil Company	(11) EP3982170
(11) EP3365706	(72) NIVLET, Philippe	(21) EP21210340.2
(21) EP16781373.2	(31) 201916371573	(47) 06.12.2023
(47) 06.12.2023	(32) 01.04.2019	(22) 27.09.2018
(87) EP2016074325	(33) United States of America	(54) OPTICAL SHEET AND OPTICAL
27.04.2017	(51) G01V 1/38	COMPONENT
(22) 11.10.2016	G01V 1/20	(73) Sumitomo Bakelite Co., Ltd.
(54) POLARIZATION CORRECTION	F16F 1/376	(72) OYAMA, Takuya
FOR DIRECT CONVERSION X-RAY	(11) EP3602142	ISHIKAWA, Tetsuya
DETECTORS	(21) EP18777012.8	(31) 2018092605
(73) Koninklijke Philips N.V.	(47) 06.12.2023	2017192232
(72) STEADMAN BOOKER, Roger	(87) US2018025339	2017192231
ROESSL, Ewald	04.10.2018	(32) 11.05.2018
DAERR, Heiner	(22) 30.03.2018	29.09.2017
(31) 15190530	(54) VIBRATION DAMPING OF AN	29.09.2017
(32) 20.10.2015	ANCILLARY DEVICE ATTACHED TO A	(33) Japan
(33) European Patent Office (EPO)	MARINE STREAMER AND METHOD	Japan
(51) G01T 1/24	(73) Sercel, Inc.	Japan
A61B 6/03	(72) CERNIWAY, Matthew	(51) G02B 5/28
G01N 23/04	(31) 201762479406 P	(11) EP4053603
G01T 1/29	(32) 31.03.2017	(21) EP22159276.9
(11) EP3619554	(33) United States of America	(47) 06.12.2023
(21) EP18794076.2	(51) G01W 1/00	(22) 28.02.2022
(47) 06.12.2023	G01K 13/00	(54) OPTOELECTRONIC TRANSMITTER
(87) SE2018050420	G06N 3/08	WITH RAPID ANGULAR SCANNING
08.11.2018	(11) EP4081835	(73) Commissariat à l'énergie atomique et aux
(22) 25.04.2018	(21) EP20839053.4	énergies alternatives
(54) RADIATION HARD SILICON	(47) 06.12.2023	(72) GERARD, Jean-Michel
DETECTORS FOR X-RAY IMAGING	(87) EP2020087630	(31) 2101993
(73) Prismatic Sensors AB	01.07.2021	(32) 02.03.2021

(33) France	(73) CommScope Connectivity Belgium BVBA	(54) METHOD AND MICROSCOPE FOR DETERMINING THE THICKNESS OF A COVER SLIP OR SLIDE
(51) G02B 6/02	(72) GEENS, Johan	(72) Leica Microsystems CMS GmbH
G02B 6/43	VERMEULEN, Pieter	(72) WEISS, Alexander
H01S 3/10	VOS, Bart	SCHUMANN, Christian
H04B 10/2507	(31) 201762569887 P	CAPELLMANN, Ronja
H04B 10/2581	(32) 09.10.2017	(31) 102018126009
G02B 6/14	(33) United States of America	(32) 19.10.2018
(11) EP3644101	(51) G02B 6/44	(33) Germany
(21) EP18841228.2	(11) EP3695259	(51) G02B 21/06
(47) 06.12.2023	(21) EP18785335.3	G02B 21/36
(87) JP2018028663	(47) 06.12.2023	(11) EP3204812
07.02.2019	(87) EP2018077373	(21) EP14783587.0
(22) 31.07.2018	18.04.2019	(47) 06.12.2023
(54) OPTICAL FIBER AND OPTICAL TRANSMISSION SYSTEM	(22) 09.10.2018	(87) EP2014071353
(73) Nippon Telegraph And Telephone Corporation	(54) FIBER OPTIC TELECOMMUNICATIONS TRAY WITH ENHANCED ACCESSIBILITY AND MANAGEMENT	14.04.2016
(72) URUSHIBARA, Azusa	(73) CommScope Connectivity Belgium BVBA	(22) 06.10.2014
SAKAMOTO, Taiji	(72) KEMPENEERS, Dirk	(54) MICROSCOPE AND METHOD FOR OBTAINING A HIGH DYNAMIC RANGE SYNTHESIZED IMAGE OF AN OBJECT
WADA, Masaki	SCHURMANS, Eric	(73) Leica Microsystems (Schweiz) AG
YAMAMOTO, Takashi	(31) 201862619507 P	Leica Instruments (Singapore) Pte. Ltd.
NAKAJIMA, Kazuhide	201762569918 P	(72) ZENG, Zheng-Dong
MORI, Takayoshi	(32) 19.01.2018	ZOU, Qing-Song
(31) 2017149494	09.10.2017	SCHMID, Urs
(32) 01.08.2017	(33) United States of America	(51) G02B 21/06
(33) Japan	United States of America	G02B 21/36
(51) G02B 6/36	(51) G02B 7/00	(11) EP3805838
G02B 6/38	G02B 27/28	(21) EP19202503.9
G02B 6/42	G02B 5/30	(47) 06.12.2023
(11) EP3608697	H01S 3/00	(22) 10.10.2019
(21) EP19190252.7	(11) EP3850412	(54) MICROSCOPE AND RELATED APPARATUSES, METHODS AND COMPUTER PROGRAMS
(47) 06.12.2023	(21) EP18773956.0	(73) Leica Instruments (Singapore) Pte. Ltd.
(22) 06.08.2019	(47) 06.12.2023	(72) THEMELIS, George
(54) FERRULE COUPLING TO ON-DIE OPTICAL SOCKET	(87) EP2018074547	(51) G02B 21/36
(73) Hewlett Packard Enterprise Development LP	19.03.2020	G06T 7/557
(72) Mathai, Sagi	(22) 12.09.2018	(11) EP3918402
Rosenberg, Paul Kessler	(54) OPTICAL ASSEMBLY, IN PARTICULAR FOR POLARIZATION OF A LASER BEAM, AND EUV RADIATION GENERATING DEVICE THEREWITH	(21) EP20704589.9
Leigh, Kevin B.	(73) TRUMPF Lasersystems for Semiconductor Manufacturing GmbH	(47) 06.12.2023
(31) 201816059015	(72) ERICHSON, Oliver	(87) IB2020050711
(32) 08.08.2018	(51) G02B 19/00	06.08.2020
(33) United States of America	F21S 41/153	(22) 29.01.2020
(51) G02B 6/44	F21S 41/20	(54) CALIBRATION OF A LIGHT-FIELD IMAGING SYSTEM
(11) EP4042219	F21S 41/663	(73) Molecular Devices (Austria) GmbH
(21) EP20799905.3	F21S 41/143	(72) BAUMGART, Marcus
(47) 06.12.2023	F21S 41/255	BERECZKI, Tibor
(87) US2020054708	(11) EP3876021	PRIBOSEK, Jaka
15.04.2021	(21) EP20161097.9	STEINBRENER, Jan
(22) 08.10.2020	(47) 06.12.2023	TORTSCHANOFF, Andreas
(54) ORGANIZER ASSEMBLIES FOR FIBER OPTIC CLOSURES	(22) 05.03.2020	(31) 201916265220
(73) AFL Telecommunications LLC	(54) MICRO-OPTIC FOR MICRO-LED PROJECTION UNIT	(32) 01.02.2019
(72) STOUT, Cecilia	(73) Lumileds LLC	(33) United States of America
WITTEMEIER, David	(72) SPINGER, Benno	(51) G02B 23/02
MILLER, Will	ZOZGORNIK, Steffen	F41G 1/32
(31) 201962912386 P	(51) G02B 21/02	G02B 23/12
(32) 08.10.2019	G02B 21/34	(11) EP3807691
(33) United States of America	G02B 27/00	(21) EP19728448.2
(51) G02B 6/44	(11) EP3867684	(47) 06.12.2023
(11) EP3695258	(21) EP19800921.9	(87) EP2019064916
(21) EP18785334.6	(47) 06.12.2023	19.12.2019
(47) 06.12.2023	(87) EP2019078326	(22) 07.06.2019
(87) EP2018077372	18.04.2019	(54) PANORAMIC NIGHT VISION BINOCULARS
18.04.2019	(22) 09.10.2018	(73) THALES
(22) 09.10.2018	23.04.2020	
(54) CABLE FIXATION DEVICES AND METHODS	(22) 18.10.2019	

(72) COUMERT, Bruno NARCY, Gabriel ESPIE, Jean-Luc	(54) METHOD AND SYSTEM FOR APERTURE EXPANSION IN LIGHT FIELD DISPLAYS	(73) ARIZONA BOARD OF REGENTS on behalf of THE UNIVERSITY OF ARIZONA
(31) 1800613	(73) InterDigital Madison Patent Holdings, SAS	(72) HUA, Hong
(32) 14.06.2018	(72) MAKINEN, Jukka-Tapani	HUANG, Hekun
(33) France	OJALA, Kai	(31) 201762469097 P
(51) G02B 26/08	(31) 201762580797 P	(32) 09.03.2017
(11) EP3816699	(32) 02.11.2017	(33) United States of America
(21) EP20201230.8	(33) United States of America	(51) G02B 27/01
(47) 06.12.2023	(51) G02B 27/01	G02B 27/42
(22) 12.10.2020	(11) EP3867695	G02B 27/00
(54) VERTICALLY-SHIFTING ELECTROSTATIC ACTUATOR AND OPTICAL SCANNER EMPLOYING THE SAME	(21) EP19783795.8	G02B 5/18
(73) Korea Optron Corp.	(47) 06.12.2023	G02B 6/00
(72) KIM, Yun Goo	(87) US2019052523	(11) EP3717959
KIM, Hwan Sun	23.04.2020	(21) EP18890572.3
LEE, Eun Joong	(22) 24.09.2019	(47) 06.12.2023
KIM, Yong Kook	(54) POLARIZATION-BASED DYNAMIC FOCUSER	(87) FI2018050957
(31) 20190171672	(73) Microsoft Technology Licensing, LLC	27.06.2019
20190136294	(72) KOLLIN, Joel Steven	(22) 20.12.2018
(32) 20.12.2019	KRESS, Bernard Charles	(54) STAIRCASE WAVEGUIDE ELEMENT, PERSONAL DISPLAY DEVICE AND METHOD OF PRODUCING AN IMAGE
30.10.2019	GEORGIU, Andreas	(73) Dispelix Oy
(33) Korea (Republic)	(31) 201816160831	(72) BLOMSTEDT, Kasimir
Korea (Republic)	(32) 15.10.2018	(31) 20176155
(51) G02B 27/00	(33) United States of America	(32) 22.12.2017
(11) EP3717957	(51) G02B 27/01	(33) Finland
(21) EP18881041.0	B60K 35/00	(51) G02B 27/14
(47) 06.12.2023	G02B 5/26	G06T 17/00
(87) IL2018051295	G02B 5/30	(11) EP3948402
31.05.2019	G03B 21/62	(21) EP20781789.1
(22) 27.11.2018	B32B 17/10	(47) 06.12.2023
(54) SYSTEM AND METHOD FOR PROVIDING SYNTHETIC INFORMATION ON A SEE-THROUGH DEVICE	G02F 1/1347	(87) IB2020053035
(73) Elbit Systems Ltd.	H04N 9/31	08.10.2020
(72) HASHARONI, Omer	(11) EP3203301	(22) 31.03.2020
NOCHAM, Itamar	(21) EP15847700.0	(54) PUPIL TRACKING SYSTEM AND METHOD, AND DIGITAL DISPLAY DEVICE AND DIGITAL IMAGE RENDERING SYSTEM AND METHOD USING SAME
(31) 25595517	(47) 06.12.2023	(73) Evolution Optiks Limited
(32) 27.11.2017	(87) JP2015077231	(72) GOTSCH, Daniel
(33) Israel	07.04.2016	LUSSIER, Guillaume
(51) G02B 27/00	(22) 28.09.2015	EL-MONAJJED, Khaled
A61M 1/14	(54) HEAD UP DISPLAY SYSTEM	(31) 3038584
(11) EP3287833	(73) FUJIFILM Corporation	201962929599 P
(21) EP17186426.7	(72) ICHIHASHI Mitsuyoshi	(32) 01.04.2019
(47) 06.12.2023	ANZAI Akihiro	01.11.2019
(22) 16.08.2017	KATOH Shunya	(33) Canada
(54) DEVICE FOR EXTRACORPOREAL BLOOD TREATMENT WITH MONITOR	(31) 2015160626	United States of America
(73) B. Braun Avitum AG	2014199277	(51) G02B 30/33
(72) SCHÄFER, Oliver	(32) 17.08.2015	G02B 5/30
SCHLEICHER, Christian	29.09.2014	G02B 30/27
(31) 102016115270	(33) Japan	G02B 30/26
(32) 17.08.2016	(51) G02B 27/01	G02B 30/25
(33) Germany	G02B 17/08	G02B 30/24
(51) G02B 27/00	G02B 27/10	G02B 26/10
H04N 13/305	G02B 30/10	F21V 8/00
H04N 13/363	G02B 3/00	(11) EP3566094
G02B 30/10	G02B 27/00	(21) EP18736467.4
(11) EP3704531	(11) EP3593195	(47) 06.12.2023
(21) EP18799983.4	(21) EP18763961.2	(87) US2018012205
(47) 06.12.2023	(47) 06.12.2023	12.07.2018
(87) US2018057147	(87) US2018021087	(22) 03.01.2018
09.05.2019	13.09.2018	(54) OPTICAL STACK FOR IMAGING DIRECTIONAL BACKLIGHTS
(22) 23.10.2018	(22) 06.03.2018	(73) RealD Spark, LLC
	(54) HEAD-MOUNTED LIGHT FIELD DISPLAY WITH INTEGRAL IMAGING AND RELAY OPTICS	(72) ROBINSON, Michael G.

WOODGATE, Graham J.	E06B 9/24	(11) EP3911999
(31) 201762442303 P	H01B 7/00	(21) EP20705424.8
(32) 04.01.2017	H01B 7/02	(47) 06.12.2023
(33) United States of America	H01B 7/18	(87) FR2020050055
(51) G02F 1/03	H01B 7/24	23.07.2020
(11) EP3945360	H01B 9/02	(22) 15.01.2020
(21) EP21187685.9	H01R 4/02	(54) METHOD FOR TRANSPOSING THE
(47) 06.12.2023	H01R 4/04	FREQUENCY OF AN OPTICAL SIGNAL
(22) 26.07.2021	H05K 1/02	BY MIXING A PLURALITY OF WAVES
(54) ELECTRO-OPTICAL DEVICE WITH	H05K 1/14	(73) CENTRE NATIONAL DE LA
TWO ELECTRO-OPTICAL CRYSTALS	H01L 23/00	RECHERCHE SCIENTIFIQUE (CNRS)
AND MANUFACTURING METHOD	H01R 12/62	Université de Bourgogne
(73) Cristal Laser	H05K 3/32	(72) COLMAN, Pierre
(72) BONNIN, Dominique	H05K 1/18	PARRIAUX, Alexandre
BONNIN, Christophe	(11) EP3779583	HAMMANI, Kamal
(31) 2008032	(21) EP19782459.2	MILLOT, Guy
(32) 29.07.2020	(47) 06.12.2023	(31) 1900450
(33) France	(87) JP2019014972	(32) 18.01.2019
(51) G02F 1/03	10.10.2019	(33) France
H01S 3/00	(22) 04.04.2019	(51) G03B 5/00
(11) EP3809192	(54) LIGHT CONTROL UNIT	G03B 17/12
(21) EP19203566.5	(73) Toppan Printing Co., Ltd.	G02B 27/64
(47) 06.12.2023	(72) TAKAHASHI Masayuki	G03B 17/17
(22) 16.10.2019	TAKAHASHI Kazuki	G02B 13/00
(54) ELECTRO-OPTIC MODULATOR	HASHIDA Yasunori	G02B 26/00
(73) Qubig GmbH	(31) 2018073242	H04N 23/55
(72) MARTINEZ DORANTES, Miguel	(32) 05.04.2018	H04N 23/58
VOGT, Enrico	(33) Japan	H04N 23/68
(51) G02F 1/13357	(51) G02F 1/1347	(11) EP3816722
(11) EP3693789	G02F 1/1362	(21) EP19814364.6
(21) EP20167565.9	G02F 1/13357	(47) 06.12.2023
(47) 06.12.2023	G09G 3/36	(87) KR2019006898
(22) 25.02.2015	(11) EP3845959	12.12.2019
(54) BACKLIGHT UNIT AND DISPLAY	(21) EP19856129.2	(22) 07.06.2019
DEVICE COMPRISING SAME	(47) 06.12.2023	(54) CAMERA MODULE
(73) LG Electronics Inc.	(87) CN2019103296	(73) LG Innotek Co., Ltd.
(72) OH, Jinmok	05.03.2020	(72) SON, Chang Gyun
CHO, Byoungkwon	(22) 29.08.2019	KIM, Ji Sung
CHOI, Moongoo	(54) DISPLAY PANEL AND DISPLAY	JEONG, Soo Min
(31) 20140132549	DEVICE	(31) 20180066203
201462018275 P	(73) BOE TECHNOLOGY GROUP CO., LTD.	(32) 08.06.2018
(32) 01.10.2014	BEIJING BOE DISPLAY TECHNOLOGY	(33) Korea (Republic)
27.06.2014	CO., LTD.	(51) G03B 13/36
(33) Korea (Republic)	(72) LIU, Hao	G03B 35/08
United States of America	ZHANG, Ruichen	G06T 1/00
(51) G02F 1/1337	ZHAN, Hongming	G06T 7/20
G02F 1/1362	WANG, Kaixuan	G06V 20/58
(11) EP3680711	WANG, Fefei	H04N 23/45
(21) EP18854723.6	FENG, Bo	H04N 23/60
(47) 06.12.2023	(31) 201810997078	H04N 23/68
(87) CN2018100653	(32) 29.08.2018	(11) EP3373573
14.03.2019	(33) China	(21) EP16861889.0
(22) 15.08.2018	(51) G02F 1/29	(47) 06.12.2023
(54) ARRAY SUBSTRATE, LIQUID CRYSTAL	G02F 1/1343	(87) JP2016080145
DISPLAY PANEL AND DISPLAY	(11) EP3835860	11.05.2017
DEVICE	(21) EP21153378.1	(22) 11.10.2016
(73) BOE Technology Group Co., Ltd.	(47) 06.12.2023	(54) IMAGE CAPTURING DEVICE
(72) MA, Yongda	(22) 07.11.2016	(73) Hitachi Astemo, Ltd.
WU, Xinyin	(54) ELECTRO-ACTIVE LENSES WITH	(72) SANO, Satoshi
QIAO, Yong	RAISED RESISTIVE BRIDGES	INATA, Keisuke
(31) 201710790394	(73) e-Vision Smart Optics Inc.	NONAKA, Shinichi
(32) 05.09.2017	(72) VAN HEUGTEN, Anthony	(31) 2015216261
(33) China	MILTON, Harry	(32) 04.11.2015
(51) G02F 1/1345	(31) 201662321501 P	(33) Japan
G02F 1/13	(32) 12.04.2016	(51) G03B 15/07
G02F 1/1334	(33) United States of America	G07D 7/121
G02F 1/1333	(51) G02F 1/35	G03B 17/56
	G02F 1/39	(11) EP3540507

(21) EP19163226.4	OZOLS, Ainars	(47) 06.12.2023
(47) 06.12.2023	(31) 201816108372	(22) 07.08.2018
(22) 15.03.2019	(32) 22.08.2018	(54) PHOTSENSITIVE RESIN
(54) IMAGING APPARATUS AND METHOD FOR TAKING AN IMAGE OF A DOCUMENT AND USE THEREOF	(33) United States of America	COMPOSITION, PHOTSENSITIVE RESIN COATING, PHOTSENSITIVE DRY FILM, LAMINATE, AND PATTERN FORMING PROCESS
(73) Bundesdruckerei GmbH	(51) G03B 21/04	(73) Shin-Etsu Chemical Co., Ltd.
(72) WOLF, Andreas	G02B 27/48	(72) MARUYAMA, Hitoshi
RABELER, Uwe	G03B 21/56	KONDO, Kazunori
(31) 102018106181	B06B 1/04	(31) 2017153901
(32) 16.03.2018	(11) EP3444667	(32) 09.08.2017
(33) Germany	(21) EP18198991.4	(33) Japan
(51) G03B 17/40	(47) 06.12.2023	
G03B 37/00	(22) 09.05.2014	
H04N 23/698	(54) METHODS AND SYSTEMS OF VIBRATING A SCREEN	
H04N 23/90	(73) IMAX Theatres International Limited	(51) G03F 7/20
B60R 11/04	(72) KOMARNYCKY, Oliver Nicholas	(11) EP3152622
(11) EP4123370	HERATI, Hamed	(21) EP15720652.5
(21) EP22185238.7	TREMBLAY, Denis Gilles	(47) 06.12.2023
(47) 06.12.2023	(31) 201361821311 P	(87) EP2015058870
(22) 15.07.2022	(32) 09.05.2013	10.12.2015
(54) TRIGGERING SYSTEM	(33) United States of America	(22) 24.04.2015
(73) CycloMedia Technology B.V.	(51) G03F 1/50	(54) METHOD FOR COMPENSATING AN EXPOSURE ERROR IN AN EXPOSURE PROCESS
(72) Lopes Barreto, José Herculano	G03F 7/20	(73) ASML Netherlands B.V.
Van Sterkenburg, Cornelis Alexander Elizabeth	(11) EP3529663	(72) BERENDSEN, Christianus Wilhelmus Johannes
Beers, Bart Johannes	(21) EP17797065.4	BECKERS, Marcel
(31) 2028779	(47) 06.12.2023	CASTELIJNS, Henricus Jozef
(32) 19.07.2021	(87) EP2017076881	GERAETS, Hubertus Antonius
(33) Netherlands	26.04.2018	KOEVOETS, Adrianus Hendrik
(51) G03B 17/56	(22) 20.10.2017	LEVASIER, Leon Martin
F16M 11/20	(54) A PHOTOLITHOGRAPHY DEVICE FOR GENERATING PATTERN ON A PHOTORESIST SUBSTRATE	SCHAAP, Peter
E04G 25/08	(73) InterDigital CE Patent Holdings	STREEFKERK, Bob
(11) EP3635483	(72) BORISKIN, Artem	TROMP, Siegfried Alexander
(21) EP18762414.3	BLONDE, Laurent	(31) 15161238
(47) 06.12.2023	(31) 16306385	14170954
(87) US2018044507	(32) 21.10.2016	(32) 27.03.2015
02.05.2019	(33) European Patent Office (EPO)	03.06.2014
(22) 31.07.2018	(51) G03F 1/62	(33) European Patent Office (EPO)
(54) RELEASABLE ZERO BACKLASH PASSIVE LOCKING MECHANISM FOR A VEHICLE MOUNTED ROTARY CAMERA MAST	G03F 1/24	European Patent Office (EPO)
(73) Google LLC	G03F 7/20	(51) G03F 7/20
(72) YERDON, Mark	G02B 27/00	G02B 26/10
WAKSER, Jordan	(11) EP3662324	G02B 26/08
(31) 201715796087	(21) EP18733610.2	G02B 26/12
(32) 27.10.2017	(47) 06.12.2023	(11) EP3132314
(33) United States of America	(87) EP2018067052	(21) EP15724782.6
(51) G03B 21/00	07.02.2019	(47) 06.12.2023
G02B 27/00	(22) 26.06.2018	(87) NL2015050249
(11) EP3841432	(54) SIMULTANEOUS DOUBLE-SIDED COATING OF A MULTILAYER GRAPHENE PELLICLE BY LOCAL THERMAL PROCESSING	22.10.2015
(21) EP19755362.1	(73) ASML Netherlands B.V.	(22) 14.04.2015
(47) 06.12.2023	(72) KURGANOVA, Evgenia	(54) EXPOSURE HEAD, EXPOSURE APPARATUS AND METHOD OF OPERATING AN EXPOSURE HEAD
(87) EP2019071892	GIESBERS, Adrianus, Johannes, Maria	(73) Nederlandse Organisatie voor toegepast- natuurwetenschappelijk onderzoek TNO
27.02.2020	NASALEVICH, Maxim, Aleksandroovich	(72) JAMAR, Jacobus Hubertus Theodoor
(22) 15.08.2019	NOTENBOOM, Arnoud, Willem	MAALDERINK, Herman Hendrikus
(54) TABLE-TOP VOLUMETRIC DISPLAY APPARATUS AND METHOD OF DISPLAYING THREE-DIMENSIONAL IMAGERY	PÉTER, Mária	MEINDERS, Erwin Rinaldo
(73) Lightspace Technologies, SIA	VAN ZWOL, Pieter-Jan	GIESEN, Peter Theodorus Maria
(72) OSMANIS, Ilmars	VLES, David, Ferdinand	VAN ZWET, Erwin John
OSMANIS, Kriss	VOORTHUIJZEN, Willem-Pieter	STARMANS, Henri Jacques Antoine Jean
NARELS, Martins	(31) 17184701	(31) 14164746
GERTNERS, Ugis	(32) 03.08.2017	(32) 15.04.2014
ZABELS, Roberts	(33) European Patent Office (EPO)	(33) European Patent Office (EPO)
SMAUKSTELIS, Armands	(51) G03F 7/038	(51) G03G 15/04
	G03F 7/075	G03G 21/00
	(11) EP3441818	(11) EP3477398
	(21) EP18187713.5	

(21) EP18199906.1	(51) G04C 3/00	(54) PREDICTION METHOD AND SYSTEM FOR MULTIVARIATE TIME SERIES DATA IN MANUFACTURING SYSTEMS
(47) 06.12.2023	G01D 5/14	(73) Accenture Global Solutions Limited
(22) 11.10.2018	G04G 21/08	(72) MURAI, Makoto
(54) IMAGE FORMING APPARATUS INCLUDING OPTICAL PRINT HEAD	(11) EP3835885	MORIGA, Shin
(73) CANON KABUSHIKI KAISHA	(21) EP19214807.0	SUYAMA, Atsushi
(72) HOSOI, Shinichiro	(47) 06.12.2023	HAYASHI, Motoaki
IWAI, Hitoshi	(22) 10.12.2019	KUDO, Takuya
TAMURA, Yuya	(54) WATCH PROVIDED WITH A CONTROLLER	(31) 202117229306
ISHIDATE, Takehiro	(73) The Swatch Group Research and Development Ltd	(32) 13.04.2021
MOMOKA, Toshiki	(72) VUILLE, M. Pierry	(33) United States of America
ARUGA, Daisuke	BOURQUIN, Simon	(51) G05B 13/04
(31) 2017208425	FERRI, M. Yvan	F01D 17/24
(32) 27.10.2017	(51) G04F 7/08	F02C 9/00
(33) Japan	(11) EP3876042	G05B 13/02
(51) G04B 1/20	(21) EP20161120.9	(11) EP3640750
(11) EP3805868	(47) 06.12.2023	(21) EP19203941.0
(21) EP19202666.4	(22) 05.03.2020	(47) 06.12.2023
(47) 06.12.2023	(54) SYSTEM FOR RESETTING A CHRONOGRAPH	(22) 17.10.2019
(22) 11.10.2019	(73) Montres Breguet S.A.	(54) MODEL PREDICTIVE CONTROL SUB-SYSTEM POWER MANAGEMENT
(54) SPRING HOUSING WITH UNLIMITED WINDING REVOLUTIONS, CLOCK MECHANISM AS WELL AS A CLOCK	(72) ROCHAT, M. Jean-Philippe	(73) RTX Corporation
(73) Armin Strom AG	(51) G05B 13/02	(72) AMARI, Martin Richard
(72) Greisler, Claude	F24F 11/70	ADAMS, Joshua
Argast, Pascal	F24F 110/00	DHINGRA, Manuj
Gigandet, Maxime	F24F 140/60	CROWLEY, Timothy J.
(51) G04B 11/00	F25B 49/02	WOOD, Coy Bruce
F16D 41/18	G05B 5/01	(31) 201816163277
(11) EP4058853	(11) EP3438768	(32) 17.10.2018
(21) EP20804358.8	(21) EP18186760.7	(33) United States of America
(47) 06.12.2023	(47) 06.12.2023	(51) G05B 15/02
(87) IB2020060506	(22) 01.08.2018	H04L 12/28
20.05.2021	(54) BUILDING CONTROL SYSTEM WITH COOPERATIVE EXTREMUM-SEEKING CONTROL	(11) EP3561616
(22) 09.11.2020	(73) Johnson Controls Tyco IP Holdings LLP	(21) EP19167959.6
(54) MOVING PART WITH ONE-WAY CLUTCH, IN PARTICULAR FOR TIMEPIECES	(72) SALSBURY, Timothy I.	(47) 06.12.2023
(73) Patek Philippe SA Genève	HOUSE, John M.	(22) 08.04.2019
(72) HUMAIR, Pascal	(31) 201762540466 P	(54) SYSTEM AND METHOD FOR PROVIDING POWER TO BUILDING MANAGEMENT SYSTEM COMPONENTS USING INDUCTIVE COUPLING
LE BRIS, Jean-Baptiste	(32) 02.08.2017	(73) Johnson Controls Tyco IP Holdings LLP
(31) 19208918	(33) United States of America	(72) MARTIN, Walter A.
(32) 13.11.2019	(51) G05B 13/02	(31) 201862654763 P
(33) European Patent Office (EPO)	G05B 13/04	(32) 09.04.2018
(51) G04B 37/10	G05B 17/02	(33) United States of America
G04B 3/04	(11) EP3985460	(51) G05B 19/042
(11) EP3805873	(21) EP21202370.9	G05B 19/05
(21) EP19202188.9	(47) 06.12.2023	G06F 13/38
(47) 06.12.2023	(22) 13.10.2021	(11) EP3916498
(22) 09.10.2019	(54) CONTROLLER, CONTROL SYSTEM AND METHOD TO CONTROL A FACILITY AND TO GENERATE A CONTROL MODEL BY LEARNING	(21) EP21186696.7
(54) ADJUSTABLE THREADED CROWN	(73) YOKOGAWA ELECTRIC CORPORATION	(47) 06.12.2023
(73) Mecco S.A.	(72) IIMORI, Naohiko	(22) 26.03.2019
(72) TSCHUMI, Philipp	TAKAMI, Go	(54) INDUSTRIAL CONTROL MODULE PROVIDING UNIVERSAL I/O
(51) G04B 45/00	ISHINO, Shuhei	(73) Rockwell Automation Technologies, Inc.
G04B 47/04	MISAWA, Go	(72) O'CONNELL, John R.
G04B 19/06	(31) 2020174469	SHAH, Rajesh R.
G04B 19/10	(32) 16.10.2020	(31) 201815959985
G04D 3/00	(33) Japan	(32) 23.04.2018
(11) EP3339979	(51) G05B 13/04	(33) United States of America
(21) EP16205541.2	(11) EP4075211	(51) G05B 19/042
(47) 06.12.2023	(21) EP22166599.5	G05B 19/414
(22) 20.12.2016	(47) 06.12.2023	(11) EP3705956
(54) WATCH DIAL WITH THREE-DIMENSIONAL DECORATION	(22) 04.04.2022	(21) EP20161003.7
(73) Montres Jaquet Droz SA		(47) 06.12.2023
(72) Hurni, David		(22) 04.03.2020
Leiggenger, Yann		

(54) DISTRIBUTED CONTROL MODULES WITH CUMULATING COMMAND REFERENCES	04.10.2018 (22) 28.03.2018 (54) CONTROL DEVICE FOR MACHINE TOOL AND MACHINE TOOL	(32) 18.06.2018 (33) Japan
(73) General Electric Company	(73) Citizen Watch Co., Ltd.	(51) G05B 19/418 B65B 19/28 B65B 59/00 G05B 23/02
(72) LU, Manxue SMITH, Mitchell Donald IMMEL, Daniel Lee ZUMBERGE, Jon Tomas	(72) KITAKAZE, Ayako MURAMATSU, Masahiro NOGUCHI, Kenji	(11) EP4052106 (21) EP20815918.6 (47) 06.12.2023 (87) IB2020060095 06.05.2021
(31) 201916296471 (32) 08.03.2019 (33) United States of America	(31) 2017065302 (32) 29.03.2017 (33) Japan	(22) 28.10.2020
(51) G05B 19/042 H04L 67/12 G06F 1/26 G05B 19/418	(51) G05B 19/19 B26D 7/26 B65H 23/182 (11) EP3867711 (21) EP19798398.4 (47) 06.12.2023 (87) IB2019058762 23.04.2020	(54) ASSISTANCE METHOD FOR THE EXECUTION OF A FORMAT CHANGE IN AN AUTOMATIC MACHINE FOR MANUFACTURING OR PACKING SMOKING, HYGIENE, FOOD, OR PHARMACEUTICAL PRODUCTS AND RESPECTIVE AUTOMATIC MACHINE
(11) EP3528064 (21) EP18156846.0 (47) 06.12.2023 (22) 15.02.2018	(22) 15.10.2019 (54) WINDING MACHINE WITH AN EVALUATION SYSTEM OF THE WEB MATERIAL BEING PROCESSED AND METHOD	(73) G.D SOCIETA' PER AZIONI (72) ZANOTTI, Maurizio SPISNI, Franco ALBERTINI, Daniela GAMBERINI, Giuliano
(54) CONTROL SYSTEM AND ASSOCIATED METHOD FOR COMMISSIONING, CONTROLLING AND MONITORING CURRENT SUPPLY COMPONENTS	(73) Italia Technology Alliance S.R.L. (72) ACCIARI, Giuseppe BARSACCHI, Fernando GELLI, Filippo	(31) 201900019852 (32) 28.10.2019 (33) Italy
(73) Siemens Aktiengesellschaft (72) Allahut, Gerd Wieland, Erwin Schedlberger, Robert	(31) 201800009481 (32) 16.10.2018 (33) Italy	(51) G05B 23/00 H04N 5/265 G08B 21/18 G08B 21/00 G06N 5/04 G06N 5/00 G05B 23/02 H04N 5/33 H04N 7/18 (11) EP3362862 (21) EP16856241.1 (47) 06.12.2023 (87) US2016056978 20.04.2017
(51) G05B 19/05 G05B 9/03 (11) EP3989018 (21) EP21204120.6 (47) 06.12.2023 (22) 22.10.2021	(51) G05B 19/4061 G05B 19/418 G05D 1/02 G01C 21/00 G06V 20/10 G01C 21/20 (11) EP3627250 (21) EP19198719.7 (47) 06.12.2023 (22) 20.09.2019	(22) 14.10.2016 (54) VISUAL MONITORING SYSTEM FOR A LOAD CENTER
(54) CONTROL DEVICE, PROTECTION MODULE FOR SUCH CONTROL DEVICE AND A RESPECTIVE METHOD	(73) Tata Consultancy Services Limited (72) SADHU, Arup Kumar DASGUPTA, Ranjan PURUSHOTHAMAN, Balamuralidhar	(73) Schneider Electric USA Inc. (72) VAN GORP, John C. STANLAKE, Matthew CHIDICHIMO, Mark A. (31) 201514883736 (32) 15.10.2015 (33) United States of America
(73) Pilz GmbH & Co. KG (72) Gruber, Winfried (31) 102020128026 (32) 23.10.2020 (33) Germany	(54) METHOD AND SYSTEM FOR FREE SPACE DETECTION IN A CLUTTERED ENVIRONMENT	(22) 14.10.2016 (54) VISUAL MONITORING SYSTEM FOR A LOAD CENTER
(51) G05B 19/18 B23K 9/20 G05B 19/19 B21J 5/06 B23P 19/06	(31) 201821035691 (32) 21.09.2018 (33) India	(31) 201514883736 (32) 15.10.2015 (33) United States of America
(11) EP4102316 (21) EP22177181.9 (47) 06.12.2023 (22) 03.06.2022	(51) G05B 19/4063 G05B 19/418 G05B 23/02 (11) EP3584649 (21) EP19172859.1 (47) 06.12.2023 (22) 06.05.2019	(51) G05B 23/02 (11) EP3637212 (21) EP19202595.5 (47) 06.12.2023 (22) 10.10.2019
(54) METHOD AND DEVICE FOR MONITORING AND / OR REGULATING A FLOW HOLE AND THREAD-FORMING PROCESS	(54) FACILITY STATE DETERMINATION DEVICE, FACILITY STATE DETERMINATION METHOD, AND FACILITY MANAGEMENT SYSTEM	(54) ADAPTABLE VEHICLE MONITORING SYSTEM AND METHOD
(73) Atlas Copco IAS GmbH (72) Ludsteck, Michael Guglhör, Manuel	(73) Hitachi, Ltd. (72) SAKURAI, Yuichi MAEDA, Masaaki TAKAHASHI, Masayoshi SAKAI, Hideo	(73) Aurora Flight Sciences Corporation (72) RYAN, Jason Christopher DUDA, Jessica Edmonds MUSTO, Andrew (31) 201816159463 (32) 12.10.2018 (33) United States of America
(31) 102021115210 (32) 11.06.2021 (33) Germany	(31) 2018115343	(51) G05B 23/02 (11) EP3850451 (21) EP19755883.6
(51) G05B 19/19 B23Q 15/007 B23B 1/00 B23B 21/00		
(11) EP3603856 (21) EP18776687.8 (47) 06.12.2023 (87) JP2018012685		

(47) 06.12.2023	(51) G05D 1/00	United States of America
(87) EP2019071896 19.03.2020	(11) EP4052107	(51) G05D 1/02
(22) 15.08.2019	(21) EP20803237.5	B62D 15/02
(54) METHOD FOR IMPROVING THE MEASURING PERFORMANCE OF AUTOMATION FIELD DEVICES	(47) 06.12.2023	(11) EP4086723
(73) Endress+Hauser SE+Co. KG	(87) GB2020052732 06.05.2021	(21) EP22173549.1
(72) NIEDERER, Manfred	(22) 29.10.2020	(47) 06.12.2023
ROBL, Stefan	(54) TEMPERATURE CONTROL IN MACHINE TOOLS	(22) 30.04.2019
BINKERT, Ervin	(73) Fives Landis Limited	(54) DRIVER ASSISTANCE METHOD, CONTROL DEVICE AND VEHICLE WITH THE CONTROL DEVICE
MALINOVSKIY, Alexey	(72) TUCKER, Matthew	(73) Robert Bosch GmbH
OEHME, Heiko	PIERSE, Michael	(72) Preissler, Peter
KHADIKOV, Zurab	PIKE, Benjamin	(31) 102018208277
KAISER, Ulrich	(31) 202008179	(32) 25.05.2018
(31) 102018122411	201915900	(33) Germany
(32) 13.09.2018	(32) 01.06.2020	(51) G05D 1/02
(33) Germany	01.11.2019	G01C 21/00
(51) G05B 23/02	(33) United Kingdom	(11) EP4100809
(11) EP3948438	United Kingdom	(21) EP21701992.6
(21) EP20783919.2	(51) G05D 1/00	(47) 06.12.2023
(47) 06.12.2023	G05D 1/02	(87) EP2021051647 12.08.2021
(87) IB2020053015	(11) EP3872594	(22) 25.01.2021
08.10.2020	(21) EP20159588.1	(54) METHOD AND DEVICE FOR DETERMINING THE POSITION OF A VEHICLE
(22) 30.03.2020	(47) 06.12.2023	(73) VOLKSWAGEN AKTIENGESELLSCHAFT
(54) METHOD AND SYSTEM FOR ANOMALY DETECTION AND DIAGNOSIS IN INDUSTRIAL PROCESSES AND EQUIPMENT	(22) 26.02.2020	(72) IKEN, Timo
(73) Tata Consultancy Services Limited	(54) A METHOD, A COMPUTER PROGRAM, AN APPARATUS, A VEHICLE, AND A NETWORK ENTITY FOR PREDICTING A DEADLOCK SITUATION FOR AN AUTOMATED VEHICLE	KUBE, Roland
(72) ZOPE, Kalyani Bharat	(73) VOLKSWAGEN AG	(31) 102020201351
NISTALA, Sri Harsha	(72) Jornod, Guillaume	(32) 04.02.2020
RUNKANA, Venkataramana	Pfadler, Andreas	(33) Germany
(31) 201921012444	Gonzalez Vazquez, Israel	(51) G05D 1/02
(32) 29.03.2019	(51) G05D 1/02	G05D 1/00
(33) India	A01D 34/00	G01C 21/34
(51) G05B 23/02	B60L 3/00	G06Q 10/06
(11) EP3580624	B60L 50/51	G06Q 10/0631
(21) EP18704125.6	B60L 50/52	(11) EP3738009
(47) 06.12.2023	B60L 50/60	(21) EP18899959.3
(87) US2018015024	B60L 50/62	(47) 06.12.2023
16.08.2018	B60L 53/14	(87) US2018056827 18.07.2019
(22) 24.01.2018	(11) EP3404505	(22) 22.10.2018
(54) METHODS AND APPARATUS TO MONITOR HEALTH INFORMATION OF A VALVE	(21) EP18169128.8	(54) SYSTEM AND METHODS FOR ROBOTIC AUTONOMOUS MOTION PLANNING AND NAVIGATION
(73) Fisher Controls International LLC	(47) 06.12.2023	(73) General Electric Company
(72) ANDERSON, Shawn, W.	(22) 19.03.2007	(72) TAN, Huan
(31) 201715429685	(54) LAWN CARE ROBOT	DEROSE, Lynn Ann
(32) 10.02.2017	(73) iRobot Corporation	XU, Yi
(33) United States of America	(72) SANDIN, Paul E.	ZHAO, Yang
(51) G05B 23/02	JONES, Joseph L.	(31) 201815870534
G01M 3/04	OZICK, Daniel N.	(32) 12.01.2018
G01N 17/04	COHEN, David A.	(33) United States of America
(11) EP3821311	LEWIS, David M., Jr.	(51) G05D 1/02
(21) EP19742503.6	VU, Clara	G06Q 10/08
(47) 06.12.2023	DUBROVSKY, Zivthan A.	(11) EP3805892
(87) US2019037701	PRENETA, Joshua B.	(21) EP20200516.1
26.03.2020	MAMMEN, Jeffrey W.	(47) 06.12.2023
(22) 18.06.2019	GILBERT, Duane L.	(22) 07.10.2020
(54) PROCESS VESSEL INSULATION MONITORING	CAMPBELL, Tony L.	(54) MODULAR MULTIFUNCTIONAL WORKCELLS FOR AUTONOMOUS GUIDED VEHICLE APPLICATIONS
(73) Rosemount Inc.	BERGMAN, John	(73) Google LLC
(72) KARSCHNIA, Robert J.	(31) 865069 P	(72) HELSEL, Michael
SCHNAARE, Theodore Henry	803030 P	LECKY, Ned
(31) 201816134243	783268 P	PANGA, Avinash
(32) 18.09.2018	(32) 09.11.2006	
(33) United States of America	23.05.2006	
	17.03.2006	
	(33) United States of America	
	United States of America	

MORTON, Adam	G01F 25/10	G06F 3/0487
(31) 201916594700	G01F 15/00	H04M 1/72454
(32) 07.10.2019	G05B 19/042	G06F 3/042
(33) United States of America	G05B 23/02	H04M 1/02
(51) G05D 1/02	(11) EP3871059	(11) EP3822738
G08G 1/00	(21) EP19805020.5	(21) EP19845380.5
(11) EP3879375	(47) 06.12.2023	(47) 06.12.2023
(21) EP21166932.0	(87) US2019058152	(87) CN2019089891
(47) 06.12.2023	30.04.2020	06.02.2020
(22) 23.06.2017	(22) 25.10.2019	(22) 03.06.2019
(54) APPARATUS, METHOD AND	(54) MASS FLOW CONTROLLER WITH	(54) DISPLAY SCREEN ASSEMBLY,
COMPUTER PROGRAM FOR A	ADVANCED ZERO TRENDING	ELECTRONIC DEVICE, AND CONTROL
GLOBAL PLATOONING CONTROLLER	DIAGNOSTICS	METHOD FOR ELECTRONIC DEVICE
AND A PLATOONING SYSTEM	(73) Illinois Tool Works Inc.	(73) GUANGDONG OPPO MOBILE
(73) Volkswagen Aktiengesellschaft	(72) SIPKA, Joseph, John	TELECOMMUNICATIONS CORP., LTD.
(72) Jornod, Guillaume	BURNHAM, Randy	(72) YANG, Le
Hehn, Thorsten	KANNENGIESZER, Steven	(31) 201821225389 U
Reimann, Daniel	(31) 201916662836	201810860385
Alieiev, Roman	201862751308 P	(32) 31.07.2018
(51) G05D 1/08	(32) 24.10.2019	31.07.2018
G08G 5/00	26.10.2018	(33) China
B64C 27/00	(33) United States of America	China
G08G 5/02	United States of America	(51) G06F 1/16
G08G 5/04	(51) G05D 16/10	G06F 3/04886
B64C 13/04	(11) EP4133351	G06F 21/31
B64C 13/08	(21) EP22711890.8	G06F 21/32
B64C 13/22	(47) 06.12.2023	(11) EP3876074
B64C 27/56	(87) EP2022054247	(21) EP20214422.6
B64C 27/57	22.09.2022	(47) 06.12.2023
B64C 13/18	(22) 21.02.2022	(22) 16.12.2020
(11) EP4066079	(54) PRESSURE-REDUCING VALVE	(54) DYNAMIC CONFIGURATION OF A
(21) EP20811355.5	(73) Neoperl GmbH	VIRTUAL KEYBOARD
(47) 06.12.2023	(72) FANGMEIER, Martin	(73) INTEL Corporation
(87) EP2020083544	HAUTH, Matthias	(72) WOOSTER, Roland P.
03.06.2021	MEYER, Burkhard	ERDMAN, Alexander Conrad
(22) 26.11.2020	(31) 202021101348 U	(31) 202016808138
(54) AIRCRAFT PILOTING SYSTEM	(32) 17.03.2021	(32) 03.03.2020
(73) THALES	(33) Germany	(33) United States of America
(72) CANTALOUBE, Christian	(51) G05D 23/02	(51) G06F 1/16
(31) 1913295	(11) EP3724740	H04M 1/02
(32) 27.11.2019	(21) EP18839820.0	(11) EP3616025
(33) France	(47) 06.12.2023	(21) EP18837044.9
(51) G05D 7/06	(87) FR2018053240	(47) 06.12.2023
G05D 16/20	20.06.2019	(87) US2018066983
G01F 25/00	(22) 12.12.2018	27.06.2019
G01F 1/76	(54) THERMOSTATIC VALVE	(22) 20.12.2018
G01F 1/34	(73) NOVARES France	(54) FOLDABLE DISPLAY DEVICES WITH
H01J 37/20	(72) QUEVALLIER, Jean-Claude	MULTIPLE PAGES
(11) EP3649529	(31) 1762069	(73) Google LLC
(21) EP18827985.5	(32) 13.12.2017	(72) HAMBURGEN, William Riis
(47) 06.12.2023	(33) France	FOO, Ken
(87) US2018041048	(51) G06F 1/16	(31) 201762608382 P
10.01.2019	A45C 11/00	(32) 20.12.2017
(22) 06.07.2018	(11) EP3436890	(33) United States of America
(54) ELECTRON MICROSCOPE SAMPLE	(21) EP17717019.8	(51) G06F 1/16
HOLDER FLUID HANDLING WITH	(47) 06.12.2023	H04R 1/02
INDEPENDENT PRESSURE AND	(87) US2017023702	H04R 17/00
FLOW CONTROL	05.10.2017	H04R 7/04
(73) Protochips, Inc.	(22) 23.03.2017	(11) EP3627278
(72) WALDEN, II, Franklin Stampley	(54) COVER FOR AN ELECTRONIC DEVICE	(21) EP19190733.6
DAMIANO, JR., John	(73) Microsoft Technology Licensing, LLC	(47) 06.12.2023
GARDINER, Daniel Stephen	(72) SÄILÄ, Sami	(22) 08.08.2019
CARPENTER, William Bradford	PEREZ, Jose M.	(54) DISPLAY APPARATUS AND
(31) 201762529195 P	(31) 201615084466	COMPUTING APPARATUS INCLUDING
(32) 06.07.2017	(32) 29.03.2016	THE SAME
(33) United States of America	(33) United States of America	(73) LG Display Co., Ltd.
(51) G05D 7/06	(51) G06F 1/16	(72) Shin, JaeMin
G05D 23/02	G06F 3/0484	Lee, ChanHeon

(31) 20180113072	RANGARAJAN, Bharat Kumar	(54) WEARABLE HUMAN-MACHINE
(32) 20.09.2018	MISRA, Rakesh	INTERFACE AND METHOD WHICH
(33) Korea (Republic)	(31) 201715808538	CAN BE CARRIED OUT USING SAME
(51) G06F 1/20	(32) 09.11.2017	(73) Humain Solutions UG
H05K 7/20	(33) United States of America	(Haftungsbeschränkt)
(11) EP3874923	(51) G06F 1/324	(72) GEIER, Andreas
(21) EP19880470.0	G06F 1/3206	SATHE, Prathamesh Prasad
(47) 06.12.2023	G06F 1/3287	TUCKER, Rawleigh Cosmo Young
(87) SG2019050529	G06F 1/3296	
07.05.2020	G06F 17/15	(51) G06F 3/01
(22) 30.10.2019	G06N 3/02	(11) EP3458937
(54) ENCLOSURE FOR PROVIDING LIQUID	G06N 3/04	(21) EP17727042.8
FILM COOLING	G06N 3/063	(47) 06.12.2023
(73) Ong Kong Chye, Gregory	(11) EP3660628	(87) US2017032843
(72) Ong Kong Chye, Gregory	(21) EP19215859.0	23.11.2017
(31) 10201809662Q	(47) 06.12.2023	(22) 16.05.2017
(32) 31.10.2018	(22) 13.07.2018	(54) CO-PRESENCE HANDLING IN
(33) Singapore	(54) DYNAMIC VOLTAGE FREQUENCY	VIRTUAL REALITY
(51) G06F 1/28	SCALING DEVICE AND METHOD	(73) Google LLC
G06F 1/3212	(73) Shanghai Cambricon Information	(72) TILTON, Robbie
(11) EP4049113	Technology Co., Ltd	JAGNOW, Robert Carl
(21) EP20801120.5	(72) LIU, Shaoli	WILEY, Jon Michael
(47) 06.12.2023	ZHANG, Lei	LEVINE, Lauren
(87) US2020055902	CHEN, Tianshi	(31) 201715595369
29.04.2021	(31) 201711289667	201662336932 P
(22) 16.10.2020	201711118938	(32) 15.05.2017
(54) BATTERY WATCHDOG SYSTEM AND	201711029543	16.05.2016
METHODOLOGY	201711061069	(33) United States of America
(73) Link Labs, Inc.	201711004974	United States of America
(72) LI, Patrick	201710989575	
ZANSKI, Ryan	(32) 07.12.2017	(51) G06F 3/01
(31) 201916659601	29.10.2017	G02B 27/01
(32) 22.10.2019	29.10.2017	(11) EP3469461
(33) United States of America	24.10.2017	(21) EP17734564.2
(51) G06F 1/32	24.10.2017	(47) 06.12.2023
G06F 12/02	20.10.2017	(87) US2017037078
(11) EP3674846	(33) China	21.12.2017
(21) EP17928601.8	China	(22) 12.06.2017
(47) 06.12.2023	China	(54) HMD TRANSITIONS FOR FOCUSING
(87) CN2017106173	China	ON SPECIFIC CONTENT IN VIRTUAL-
18.04.2019	China	REALITY ENVIRONMENTS
(22) 13.10.2017	China	(73) Sony Interactive Entertainment Inc.
(54) METHOD AND APPARATUS	(51) G06F 3/00	(72) STAFFORD, Jeffrey Roger
FOR COMPRESSING AND	G02C 13/00	TAYLOR, Michael
DECOMPRESSING MEMORY	(11) EP4172723	(31) 201715619395
OCCUPIED BY PROCESSOR	(21) EP21794390.1	201662349652 P
(73) Huawei Technologies Co., Ltd.	(47) 06.12.2023	(32) 09.06.2017
(72) DANG, Maochang	(87) EP2021078905	13.06.2016
HU, Xiaoming	28.04.2022	(33) United States of America
CHEN, Guodong	(22) 19.10.2021	United States of America
ZHOU, Xiyu	(54) COMPUTER-IMPLEMENTED METHOD	
LI, Yi	FOR DETERMINING A POSITION OF	(51) G06F 3/01
(51) G06F 1/32	A CENTER OF ROTATION OF AN EYE	G05B 19/418
G11C 5/14	USING A MOBILE DEVICE, MOBILE	B25B 23/14
(11) EP3707579	DEVICE AND COMPUTER PROGRAM	G06F 3/147
(21) EP18786130.7	(73) Carl Zeiss Vision International GmbH	G06T 19/00
(47) 06.12.2023	(72) BERGER, Mario	(11) EP3865252
(87) US2018052231	URBAN, Steffen	(21) EP18936581.0
16.05.2019	(31) 20202529	(47) 06.12.2023
(22) 21.09.2018	(32) 19.10.2020	(87) JP2018037681
(54) GROUPING CENTRAL PROCESSING	(33) European Patent Office (EPO)	16.04.2020
UNIT MEMORIES BASED ON DYNAMIC	(51) G06F 3/01	(22) 10.10.2018
CLOCK AND VOLTAGE SCALING	(11) EP3977238	(54) MECHANICAL FASTENING UNIT
TIMING TO IMPROVE DYNAMIC/	(21) EP19728367.4	MANAGEMENT METHOD USING
LEAKAGE POWER USING ARRAY	(47) 06.12.2023	AUGMENTED REALITY
POWER MULTIPLEXERS	(87) EP2019063795	(73) Hitachi, Ltd.
(73) Qualcomm Incorporated	03.12.2020	ARDe Co., Ltd.
(72) ARIMILLI, Rajesh	(22) 28.05.2019	Kyoto Tool Co., Ltd.
		(72) TANIDA, Yuta
		OKADA, Norihisa
		KOBAYASHI, Yoshifumi

KIKUNA, Atsuo	(22) 11.09.2018	XU, Jingjin
NAKAMURA, Takumi	(54) A CONTROLLABLE DEVICE AND	(31) 201711475860
YAMAURA, Miwa	A KNOB FOR CONTROLLING A	201710954030
YAMAGUCHI, Gojiro	FUNCTION OF THE CONTROLLABLE	(32) 29.12.2017
NAKATA, Shogo	DEVICE	13.10.2017
HIRAI, Yusuke	(73) Zound Industries International AB	(33) China
(51) G06F 3/01	(72) VON EULER, Marcus	China
G06F 3/02	IHRSEN, Niclas	(51) G06F 3/041
G06F 3/06	(31) 1751119	G06F 3/0354
G06F 16/22	(32) 14.09.2017	G06F 3/038
(11) EP3816771	(33) Sweden	G06F 3/046
(21) EP19205710.7	(51) G06F 3/0354	(11) EP3933556
(47) 06.12.2023	(11) EP3568741	(21) EP21182805.8
(22) 28.10.2019	(21) EP18704079.5	(47) 06.12.2023
(54) RESOURCES EFFICIENT STORAGE	(47) 06.12.2023	(22) 30.06.2021
OF TIME SEQUENCE DATA	(87) IB2018050200	(54) DIGITAL ELECTROMAGNETIC
(73) SMA Solar Technology AG	19.07.2018	STYLUS, INPUT SYSTEM, AND
(72) TUEMMLER, Joern	(22) 12.01.2018	METHOD FOR CONTROLLING SAME
EHLE, Arno	(54) TIP ARRANGEMENT FOR PEN	(73) Shenzhen Huion Animation Technology
CHRISTEN, Paul	FOR ELECTRONIC DEVICE AND	Co., Ltd.
ESNAASHARY, Arash	PEN COMPRISING SAID TIP	(72) Luo, Yong
(51) G06F 3/01	ARRANGEMENT	(31) 202010625651
G06F 3/041	(73) Tirelli, Paolo	(32) 30.06.2020
G06F 3/0488	Merigo, Daniela	(33) China
G06F 1/32	Maracine, Maria Veronica	(51) G06F 3/041
H04M 1/673	(72) TIRELLI, Paolo	G06F 3/044
(11) EP3605278	(31) 201700003943	(11) EP3651001
(21) EP18798430.7	(32) 16.01.2017	(21) EP19202695.3
(47) 06.12.2023	(33) Italy	(47) 06.12.2023
(87) KR2018005360	(51) G06F 3/039	(22) 11.10.2019
15.11.2018	G06K 7/08	(54) DISPLAY DEVICE
(22) 10.05.2018	G06K 19/067	(73) LG Display Co., Ltd.
(54) METHOD FOR PROVIDING HAPTIC	(11) EP3853701	(72) WON, Sang-Hyuk
FEEDBACK, AND ELECTRONIC	(21) EP19773757.0	KIM, Min-Joo
DEVICE FOR PERFORMING SAME	(47) 06.12.2023	LEE, Jae-Won
(73) Samsung Electronics Co., Ltd.	(87) EP2019074783	PAK, Sang-Hoon
(72) KO, Seung Hoon	26.03.2020	KIM, Byong-Hoo
YOO, Dae Hyun	(22) 17.09.2019	LEE, Ji-Hye
LEE, Heon Seok	(54) DEVICE, USE THEREOF, AND SYSTEM	JANG, Jae-Man
CHA, Eun Mi	FOR GENERATING A PERIODIC	KIM, Sung-Jin
(31) 20170058415	SIGNAL ON A CAPACITIVE SURFACE	JANG, Jae-Hyung
(32) 11.05.2017	SENSOR	(31) 20180137577
(33) Korea (Republic)	(73) Prismade Labs GmbH	(32) 09.11.2018
(51) G06F 3/03	(72) WEIGELT, Karin	(33) Korea (Republic)
G06F 3/01	THIELE, Jan	(51) G06F 3/044
G06F 3/0346	(31) 19164305	G06F 3/041
H04N 5/45	18000747	H01H 13/704
(11) EP3614238	(32) 21.03.2019	(11) EP3631609
(21) EP17906143.7	17.09.2018	(21) EP18727414.7
(47) 06.12.2023	(33) European Patent Office (EPO)	(47) 06.12.2023
(87) CN2017081174	European Patent Office (EPO)	(87) GB2018051392
25.10.2018	(51) G06F 3/041	29.11.2018
(22) 20.04.2017	(11) EP3678001	(22) 22.05.2018
(54) DISPLAY CONTROL METHOD AND	(21) EP18866050.0	(54) CAPACITIVE SENSOR DEVICE
APPARATUS	(47) 06.12.2023	(73) Tangi0 Limited
(73) Huawei Technologies Co., Ltd.	(87) CN2018110194	(72) CORREA, Ilan Johan Eduardo Olivarez
(72) CHEN, Hao	18.04.2019	LIN, Chia-Hung
WANG, Qing	(22) 15.10.2018	KONG, Ming
CHEN, Xiaoxiao	(54) METHOD AND DEVICE FOR	GUO, Liucheng
(51) G06F 3/033	CONTROLLING OUTPUT OF REPORT	(31) 201708210
G06F 3/0354	(73) Huawei Technologies Co., Ltd.	(32) 22.05.2017
G06F 3/041	(72) SHI, Yuanchun	(33) United Kingdom
H04R 1/00	YU, Chun	(51) G06F 3/044
(11) EP3682315	XU, Weijie	G06F 3/045
(21) EP18857180.6	YI, Xin	G06F 3/041
(47) 06.12.2023	WU, Siju	(11) EP3739598
(87) SE2018050914	ZHOU, Xuan	(21) EP20179477.3
21.03.2019	XU, Jie	(47) 06.12.2023

(22) 24.08.2012	(54) CONSISTENT SPHERICAL PHOTO AND VIDEO ORIENTATION CORRECTION	(33) Korea (Republic)
(54) PATTERNED TRANSPARENT CONDUCTORS AND RELATED MANUFACTURING METHODS	(73) Samsung Electronics Co., Ltd.	(51) G06F 3/0488
(73) TPK HOLDING CO., LTD	(72) FLYNN, Thomas	(11) EP3234756
(72) SRINIVAS, Arjun Daniel	(31) 201615284477	(21) EP15790466.5
ROBINSON, Matthew R	(32) 03.10.2016	(47) 06.12.2023
MITTAL, Alexander	(33) United States of America	(87) EP2015002192
YOUNG, Michael Eugene	(51) G06F 3/0483	23.06.2016
BUCHANAN, David	G06F 1/3225	(22) 31.10.2015
GEORGE, Joseph	G06F 1/3234	(54) METHOD FOR OPERATING AN OPERATOR CONTROL DEVICE OF A MOTOR VEHICLE IN MULTI-FINGER OPERATION
YOSHIOKA, Yuka	G06F 3/14	(73) Audi AG
(31) 201261636524 P	G06F 9/4401	(72) MÜLLER, Ulrich
201261609128 P	H04W 52/02	WACHINGER, Michael
201161541923 P	H04M 1/725	KRÄMER, Tim
201161539868 P	(11) EP3920015	(31) 102014019040
201161539415 P	(21) EP21187717.0	(32) 18.12.2014
201161537514 P	(47) 06.12.2023	(33) Germany
201161536985 P	(22) 09.06.2010	(51) G06F 3/0488
201161527069 P	(54) SELECTIVE HIBERNATION OF ACTIVITIES IN A MOBILE COMPUTING DEVICE	G06F 3/044
(32) 20.04.2012	(73) QUALCOMM INCORPORATED	G06F 3/041
09.03.2012	(72) SHIPLACOFF, Daniel	(11) EP3678014
30.09.2011	DUARTE, Matias	(21) EP18865457.8
27.09.2011	LYON, Jeremy	(47) 06.12.2023
26.09.2011	(31) 50554109	(87) CN2018110185
21.09.2011	(32) 20.07.2009	18.04.2019
20.09.2011	(33) United States of America	(22) 15.10.2018
24.08.2011	(51) G06F 3/0485	(54) CONTROL METHOD AND TERMINAL
(33) United States of America	G06F 3/0484	(73) Huawei Technologies Co., Ltd.
United States of America	G06T 11/60	(72) SHI, Yuanchun
United States of America	G09G 3/34	YU, Chun
United States of America	G09G 5/02	PAN, Lihang
United States of America	G09G 5/34	YI, Xin
United States of America	(11) EP3547099	CAI, Weigang
United States of America	(21) EP18878012.6	WU, Siju
United States of America	(47) 06.12.2023	ZHOU, Xuan
(51) G06F 3/048	(87) JP2018014488	XU, Jie
G06F 3/0482	23.05.2019	(31) 201810037036
G06F 9/451	(22) 04.04.2018	201710954095
(11) EP3674865	(54) INFORMATION PROCESSING DEVICE AND INFORMATION PROCESSING METHOD	(32) 15.01.2018
(21) EP17928779.2	(73) NTT DOCOMO, INC.	13.10.2017
(47) 06.12.2023	(72) ITOU, Takurou	(33) China
(87) CN20171106146	(31) 2017222036	China
18.04.2019	(32) 17.11.2017	(51) G06F 3/0488
(22) 13.10.2017	(33) Japan	G06F 3/0481
(54) DISPLAY PROCESSING METHOD AND ELECTRONIC DEVICE	(51) G06F 3/0487	G06F 3/04817
(73) Huawei Technologies Co., Ltd.	G06F 3/01	G06F 3/0354
(72) GAN, Yuanli	G06F 3/00	(11) EP3540585
FENG, Wei	G06F 1/16	(21) EP19162578.9
(31) 201710931363	H04M 1/02	(47) 06.12.2023
(32) 09.10.2017	H04M 1/72412	(22) 13.03.2019
(33) China	(11) EP2750015	(54) ELECTRONIC DEVICE FOR EXECUTING VARIOUS FUNCTIONS BASED ON SIGNAL RECEIVED FROM ELECTRIC PEN
(51) G06F 3/04815	(21) EP13199085.5	(73) Samsung Electronics Co., Ltd.
G06T 3/00	(47) 06.12.2023	(72) KWON, Zion
G06F 3/0481	(22) 20.12.2013	KIM, Heewoon
G03B 37/00	(54) Method for interacting with flexible device and user terminal thereof	PARK, Hyunmi
G06F 3/01	(73) Samsung Electronics Co., Ltd	PARK, Hyewon
G06T 19/00	(72) Oh, Byung Tae	SEO, Chaewon
H04N 23/698	Kim, Hong Pyo	LEE, Hyungdo
(11) EP3520071	Lee, Ho Young	(31) 20180029212
(21) EP17858696.2	Han, Seung Hoon	(32) 13.03.2018
(47) 06.12.2023	(31) 20120154842	(33) Korea (Republic)
(87) KR2017010871	(32) 27.12.2012	(51) G06F 3/04886
12.04.2018		G06F 1/16
(22) 28.09.2017		

G06F 3/04883	(11) EP3274806	G05D 1/00
G06F 3/0487	(21) EP16773650.3	G05B 19/042
G06F 3/0482	(47) 06.12.2023	(11) EP3798821
G06F 3/04847	(87) US2016018795	(21) EP19926726.1
G06F 9/44	06.10.2016	(47) 06.12.2023
G06F 9/451	(22) 19.02.2016	(87) JP2019049488
H04M 1/02	(54) SEQUENTIAL WRITE STREAM	04.02.2021
H04M 1/725	MANAGEMENT	(22) 17.12.2019
H04M 1/72403	(73) Intel Corporation	(54) GUI CONTROLLER DESIGN
H04M 1/72469	(72) RAMALINGAM, Anand S.	ASSISTANCE DEVICE, REMOTE
G11B 27/34	(31) 201514671968	CONTROL SYSTEM, AND PROGRAM
(11) EP4095665	(32) 27.03.2015	(73) LC-Studio Corp.
(21) EP22157453.6	(33) United States of America	(72) SHISAKO, Kunihito
(47) 06.12.2023	(51) G06F 3/14	(31) 2019137463
(22) 10.02.2015	H04M 3/51	(32) 26.07.2019
(54) USER TERMINAL DEVICE AND	(11) EP3895005	(33) Japan
DISPLAYING METHOD THEREOF	(21) EP19897040.2	(51) G06F 8/41
(73) Samsung Electronics Co., Ltd.	(47) 06.12.2023	G06F 12/109
(72) Kang, Dong-goo	(87) US2019045447	(11) EP3992784
Kim, Yun-kyung	18.06.2020	(21) EP21214008.1
Lee, Yong-yeon	(22) 07.08.2019	(47) 06.12.2023
Kwak, Ji-yeon	(54) SYSTEM AND METHOD OF	(22) 01.04.2016
Yoon, Yeo-jun	CAPTURING, TRACKING COMPOSING,	(54) VIRTUAL REGISTER FILE
(31) 20140083244	ANALYZING AND AUTOMATING	(73) Micron Technology, Inc.
201461937744 P	ANALOG AND DIGITAL INTERACTIONS	(72) LEIDEL, John D
(32) 03.07.2014	(73) Gorny, Tomas	ROGERS, Geoffrey C
10.02.2014	(72) Gorny, Tomas	(31) 201615085631
(33) Korea (Republic)	Harker, Raymond	201562141601 P
United States of America	(31) 201916419882	(32) 30.03.2016
(51) G06F 3/06	201862778134 P	01.04.2015
G06F 9/50	(32) 22.05.2019	(33) United States of America
G06Q 40/04	11.12.2018	United States of America
(11) EP3977390	(33) United States of America	(51) G06F 8/41
(21) EP20897632.4	United States of America	G06N 3/04
(47) 06.12.2023	(51) G06F 3/16	G06N 3/006
(87) CN2020106564	H04N 21/422	G06N 3/08
10.02.2022	(11) EP3622385	G06N 7/00
(22) 03.08.2020	(21) EP17787725.5	G06N 3/045
(54) BLOCKCHAIN TRANSACTION	(47) 06.12.2023	(11) EP4064038
PROCESSING SYSTEMS AND	(87) US2017054931	(21) EP22151574.5
METHODS	11.04.2019	(47) 06.12.2023
(73) Alipay (Hangzhou) Information	(22) 03.10.2017	(22) 14.01.2022
Technology Co., Ltd.	(54) DISPLAY MODE DEPENDENT	(54) AUTOMATED GENERATION AND
(72) TIAN, Shikun	RESPONSE GENERATION WITH	INTEGRATION OF AN OPTIMIZED
(51) G06F 3/06	LATENCY CONSIDERATIONS	REGULAR EXPRESSION
G06F 11/14	(73) Google LLC	(73) Accenture Global Solutions Limited
G06F 16/11	(72) LEONG, Jian Wei	(72) VARGHESE, Vinu
G06F 16/174	(51) G06F 7/544	SAMPAT, Nirav Jagdish
G06F 16/182	(11) EP3757757	JANARTHANAM, Balaji
(11) EP3433715	(21) EP20186639.9	KUMAR, Anil
(21) EP17714383.1	(47) 06.12.2023	SRIVASTAVA, Shikhar
(47) 06.12.2023	(22) 05.10.2018	KHARSADIA, Kunal Jaiwant
(87) US2017023525	(54) FILTER PROCESSING APPARATUS	(31) 202117214294
28.09.2017	AND CONTROL METHOD THEREOF	(32) 26.03.2021
(22) 22.03.2017	(73) CANON KABUSHIKI KAISHA	(33) United States of America
(54) OBJECT-BASED STORAGE	(72) CHEN, Tswei	(51) G06F 8/41
REPLICATION AND RECOVERY	KATO, Masami	G06T 15/00
(73) NetApp, Inc.	(31) 2017201247	G06F 12/06
(72) SHEKHAR, Sisir	(32) 17.10.2017	G06F 12/0875
EISLER, Michael, R.	(33) Japan	G06T 1/20
MUTHYALA, Kartheek	(51) G06F 8/38	G06T 1/60
KUMAR, Ranjit	G06F 3/048	(11) EP3651013
(31) 201615081520	G06F 8/20	(21) EP19210018.8
(32) 25.03.2016	G06F 8/34	(47) 06.12.2023
(33) United States of America	G06F 8/656	(22) 21.02.2018
(51) G06F 3/06	G06F 3/0482	(54) SHARED LOCAL MEMORY TILING
G06F 12/06	G06F 3/041	MECHANISM
G06F 13/16	G06F 3/0488	(73) INTEL Corporation

(72) SURTI, Prasoonkumar APPU, Abhishek R. RAY, Joydeep MAIYURAN, Subramaniam M. KOKER, Altug (31) 201715477020 (32) 01.04.2017 (33) United States of America	(22) 27.04.2020 (54) METHOD AND DEVICE FOR DISPLAYING APPLICATION INFORMATION, MOBILE TERMINAL, AND STORAGE MEDIUM (73) Beijing Xiaomi Mobile Software Co., Ltd. (72) LI, Jiayan LU, Zhenzhou (31) 201910351110 (32) 28.04.2019 (33) China	(33) United States of America <hr/> (51) G06F 9/50 A63F 13/35 (11) EP3584702 (21) EP18787656.0 (47) 06.12.2023 (87) CN2018082844 25.10.2018 (22) 12.04.2018 (54) METHOD AND DEVICE FOR PROCESSING RESOURCE REQUEST (73) Tencent Technology (Shenzhen) Company Limited (72) JIANG, Haitao (31) 201710253253 (32) 18.04.2017 (33) China
(51) G06F 8/61 G06F 8/71 G06F 21/50 (11) EP3987391 (21) EP19933636.3 (47) 06.12.2023 (87) SE2019050598 24.12.2020 (22) 20.06.2019 (54) METHOD AND SYSTEM FOR SERVICE IMAGE DEPLOYMENT IN A CLOUD COMPUTING SYSTEM BASED ON DISTRIBUTED LEDGER TECHNOLOGY (73) TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) (72) THAKUR, Mukesh KEMPF, James	(31) 201910351110 (32) 28.04.2019 (33) China <hr/> (51) G06F 9/48 (11) EP3867749 (21) EP19787205.4 (47) 06.12.2023 (87) EP2019077540 23.04.2020 (22) 10.10.2019 (54) CONTROL UNIT FOR CONTROLLING AN INFORMATION SYSTEM (73) Continental Automotive Technologies GmbH (72) KÖNIG, Axel BACH, Boris LOTZ, Andreas (31) 102018217609 (32) 15.10.2018 (33) Germany	(51) G06F 9/50 G06F 9/48 H04L 67/10 H04L 41/0853 H04L 67/1023 (11) EP3992794 (21) EP22151193.4 (47) 06.12.2023 (22) 12.01.2022 (54) METHOD AND APPARATUS FOR ACQUIRING INFORMATION (73) Beijing Baidu Netcom Science Technology Co., Ltd. (72) SHAN, Tengfei (31) 202110577725 (32) 26.05.2021 (33) China
(51) G06F 9/445 G06F 9/451 (11) EP3622390 (21) EP17787717.2 (47) 06.12.2023 (87) US2017054846 11.04.2019 (22) 03.10.2017 (54) MULTIPLE DIGITAL ASSISTANT COORDINATION IN VEHICULAR ENVIRONMENTS (73) Google LLC (72) RAMIC, Haris AGGARWAL, Vikram GALI, Moises Morgenstern STUUT, Brandon	(31) 102018217609 (32) 15.10.2018 (33) Germany <hr/> (51) G06F 9/48 G06F 8/70 (11) EP3571588 (21) EP17825249.0 (47) 06.12.2023 (87) EP2017084520 26.07.2018 (22) 22.12.2017 (54) CLOCK COMPARATOR SIGN CONTROL (73) International Business Machines Corporation (72) GREINER, Dan SLEGEL, Timothy HACK, Michel VON BUTTLAR, Joachim ENGLER, Eberhard (31) 201715409601 (32) 19.01.2017 (33) United States of America	(51) G06F 9/50 G06F 13/00 (11) EP3240248 (21) EP15873105.9 (47) 06.12.2023 (87) JP2015085887 30.06.2016 (22) 22.12.2015 (54) LOAD BALANCER, LOAD BALANCING METHOD AND PROGRAM (73) NTT Communications Corporation (72) NAKAKURA, Toshiya YAMAMURA, Sho (31) 2014260297 (32) 24.12.2014 (33) Japan
(51) G06F 9/451 (11) EP3465426 (21) EP17730023.3 (47) 06.12.2023 (87) US2017035979 14.12.2017 (22) 05.06.2017 (54) USER INTERFACE WITH MOVABLE MINI-TABS (73) Hexagon Technology Center GmbH (72) WHITE, Michele B. COX, JR., William B. (31) 201662346156 P (32) 06.06.2016 (33) United States of America	(31) 201715409601 (32) 19.01.2017 (33) United States of America <hr/> (51) G06F 9/50 (11) EP3523724 (21) EP17790903.3 (47) 06.12.2023 (87) US2017055552 12.04.2018 (22) 06.10.2017 (54) SERVICE LAYER RESOURCE MANAGEMENT FOR GENERIC INTERWORKING AND EXTENSIBILITY (73) Convida Wireless, LLC (72) LY, Quang SEED, Dale, N. FLYNN, William, Robert, IV MLADIN, Catalina, M. WANG, Chonggang DIGIROLAMO, Rocco CHEN, Zhuo (31) 201662405534 P (32) 07.10.2016	(51) G06F 9/50 G06F 15/16 (11) EP3571589 (21) EP17829830.3 (47) 06.12.2023 (87) US2017067449 26.07.2018 (22) 20.12.2017 (54) HARDWARE IMPLEMENTED LOAD BALANCING (73) Microsoft Technology Licensing, LLC (72) CAULFIELD, Adrian Michael CHUNG, Eric S. PAPAMICHAEL, Michael Konstantinos BURGER, Douglas C. ALKALAY, Shlomi (31) 201715408365 (32) 17.01.2017
(51) G06F 9/451 G06F 3/14 G06F 1/16 G06F 3/0487 G06Q 10/10 G06F 9/54 H04M 1/02 H04M 1/725 G09G 5/14 (11) EP3734448 (21) EP20171584.4 (47) 06.12.2023		

<p>(33) United States of America</p> <hr/> <p>(51) G06F 11/07 G06F 11/34 G06F 11/30 H04L 41/5009 H04L 41/50 H04L 43/026</p> <p>(11) EP3951598 (21) EP20193863.6 (47) 06.12.2023 (22) 01.09.2020 (54) METHODS AND SYSTEMS FOR DETECTING ANOMALIES IN CLOUD SERVICES BASED ON MINING TIME-EVOLVING GRAPHS</p> <p>(73) NEC Laboratories Europe GmbH</p> <p>(72) Salvat Lozano, Josep Xavier Garcia-Saavedra, Andres Li, Xi Costa-Pérez, Xavier</p> <p>(31) 202016987442 (32) 07.08.2020</p> <hr/> <p>(33) United States of America</p> <hr/> <p>(51) G06F 11/10</p> <p>(11) EP3635554 (21) EP18806537.9 (47) 06.12.2023 (87) US2018031840 29.11.2018</p> <p>(22) 09.05.2018 (54) LAYERED ERROR CORRECTION ENCODING FOR LARGE SCALE DISTRIBUTED OBJECT STORAGE SYSTEM</p> <p>(73) Scalify S.A.</p> <p>(72) REGNI, Giorgio RANCUREL, Vianney SY, Lam Pham</p> <p>(31) 201715605906 (32) 25.05.2017</p> <hr/> <p>(33) United States of America</p> <hr/> <p>(51) G06F 11/10</p> <p>(11) EP3696676 (21) EP20168297.8 (47) 06.12.2023 (22) 08.10.2010 (54) MEMORY SYSTEM WITH MULTIPLE STRIPING OF RAID GROUPS AND METHOD FOR PERFORMING THE SAME</p> <p>(73) Violin Systems LLC</p> <p>(72) BENNETT, Jon C.R.</p> <p>(31) 25021609 P (32) 09.10.2009</p> <hr/> <p>(33) United States of America</p> <hr/> <p>(51) G06F 11/30 G06F 11/34 G06F 11/36</p> <p>(11) EP3474144 (21) EP18200848.2 (47) 06.12.2023 (22) 17.10.2018 (54) METHOD AND SYSTEM FOR SELF-OPTIMIZING, PATH-BASED OBJECT ALLOCATION TRACKING</p> <p>(73) Dynatrace LLC</p> <p>(72) Lengauer, Philipp Fitzek, Stefan</p>	<p>(31) 201816149649 201762574490 P</p> <p>(32) 02.10.2018 19.10.2017</p> <p>(33) United States of America United States of America</p> <hr/> <p>(51) G06F 11/36</p> <p>(11) EP3740872 (21) EP19701943.3 (47) 06.12.2023 (87) US2019012801 25.07.2019</p> <p>(22) 09.01.2019 (54) DECOUPLING TRACE DATA STREAMS USING CACHE COHERENCE PROTOCOL DATA</p> <p>(73) Microsoft Technology Licensing, LLC</p> <p>(72) MOLA, Jordi</p> <p>(31) 201815872453 (32) 16.01.2018</p> <hr/> <p>(33) United States of America</p> <hr/> <p>(51) G06F 11/36</p> <p>(11) EP4027246 (21) EP21823719.6 (47) 06.12.2023 (87) CN2021091891 19.05.2022</p> <p>(22) 06.05.2021 (54) METHOD AND APPARATUS FOR DEBUGGING APPLLET, ELECTRONIC DEVICE AND STORAGE MEDIUM</p> <p>(73) Baidu Online Network Technology (Beijing) Co., Ltd.</p> <p>(72) ZHANG, Shuang ZHANG, Zimeng</p> <p>(31) 202011282569 (32) 16.11.2020</p> <hr/> <p>(33) China</p> <hr/> <p>(51) G06F 11/36 G06F 3/01 G06F 3/04883</p> <p>(11) EP4091060 (21) EP21815002.7 (47) 06.12.2023 (87) US2021057192 05.05.2022</p> <p>(22) 29.10.2021 (54) SYSTEMS AND METHODS OF DEBUGGING DELIVERY OF CONTENT ITEMS</p> <p>(73) Google LLC</p> <p>(72) OZEL, Ozgur WENG, Edward TADPATRIKAR, Siddhi FORMAN, Terrine PASHA, Azmat Ali DAVIS, IV, Cleophus Anderson BROWN, David BURNS, Eric LEICHTENSCHLAG, Eric WASSERMAN, Jonah WANG, Mengke LI, Qian STOW, Samuel SIMMONS, William LIN, Catherine Goings</p> <p>(31) 202063108025 P (32) 30.10.2020</p>	<p>(33) United States of America</p> <hr/> <p>(51) G06F 12/00 G06F 3/06</p> <p>(11) EP3709173 (21) EP18873537.7 (47) 06.12.2023 (87) JP2018038689 09.05.2019</p> <p>(22) 17.10.2018 (54) DISTRIBUTED INFORMATION MEMORY SYSTEM, METHOD, AND PROGRAM</p> <p>(73) Nippon Telegraph and Telephone Corporation</p> <p>(72) FUJINO, Tomoyuki YOSHIDA, Yui KASHIWAGI, Keiichiro ISHII, Hisaharu</p> <p>(31) 2017213880 (32) 06.11.2017</p> <hr/> <p>(33) Japan</p> <hr/> <p>(51) G06F 12/02 G06F 3/06</p> <p>(11) EP3652649 (21) EP18804806.0 (47) 06.12.2023 (87) US2018058567 09.05.2019</p> <p>(22) 31.10.2018 (54) OVERLAPPING RAID GROUPS</p> <p>(73) Pure Storage, Inc.</p> <p>(72) FEIGIN, Boris KARR, Ronald LEE, Robert ASTER, Radek BERNAT, Andrew R. DUAN, Yunpeng SCHOLBROCK, Benjamin CHANG, Tsu-Hao SEPPANEN, Eric D. BRENNAN, Timothy W. MCAULIFFE, Mark L. VACHHARAJANI, Neil Buda</p> <p>(31) 201715799950 201715799955 201715799979 201715799938</p> <p>(32) 31.10.2017 31.10.2017 31.10.2017 31.10.2017</p> <hr/> <p>(33) United States of America United States of America United States of America United States of America</p> <hr/> <p>(51) G06F 12/1027 G06T 15/00 G09G 5/36 G06F 9/52 G05G 3/00 G09G 3/00</p> <p>(11) EP3497557 (21) EP17839974.7 (47) 06.12.2023 (87) US2017040927 15.02.2018</p> <p>(22) 06.07.2017</p>
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(54) APPARATUS AND METHOD FOR SHARED RESOURCE PARTITIONING THROUGH CREDIT MANAGEMENT	G06F 13/42 G06F 1/26 G06F 1/3215	WALL, Larry, Marvin (31) 201715786514 201762486432 P
(73) Intel Corporation	G06F 13/38	(32) 17.10.2017
(72) KACEVAS, Nicolas COORAY, Niranjan L. JOSHI, Madhura NEKKALAPU, Satyanarayana	G06F 1/3212 G06F 1/28 (11) EP3945426 (21) EP20208471.1	17.04.2017 (33) United States of America United States of America
(31) 201615234773	(47) 06.12.2023	(51) G06F 16/2458 G06F 16/27
(32) 11.08.2016	(22) 18.11.2020	(11) EP3776254
(33) United States of America	(54) LOW LATENCY FINE GRAIN SYSTEM-ON-CHIP THROTTLING APPARATUS AND METHOD ON USB TYPE-C PORT	(21) EP19776041.6 (47) 06.12.2023 (87) US2019023877 03.10.2019
(51) G06F 12/126 G06F 13/28 G06F 13/38 G06F 9/455 G06F 12/02	(73) INTEL Corporation (72) NATARAJAN, Udaya RAJARAMAN, Kannappan	(22) 25.03.2019 (54) METHODS, APPARATUS, AND SYSTEMS TO AGGREGATE PARTITIONED COMPUTER DATABASE DATA
(11) EP4004751	(31) 202016943941	(73) McAfee, LLC
(21) EP20767925.9	(32) 30.07.2020	(72) MICHELIS, Pablo A. STEWART, Brian H.
(47) 06.12.2023	(33) United States of America	(31) 201815935746 (32) 26.03.2018
(87) US2020047849 04.03.2021	(51) G06F 13/40 G06F 13/16 G06F 13/42 G06F 12/0802 G06F 12/1027	(33) United States of America
(22) 25.08.2020	(11) EP3706008 (21) EP20155557.0 (47) 06.12.2023	(51) G06F 16/25 (11) EP2625629
(54) PINNED PHYSICAL MEMORY SUPPORTING DIRECT MEMORY ACCESS FOR VIRTUAL MEMORY BACKED CONTAINERS	(22) 05.02.2020	(21) EP11831467.3 (47) 06.12.2023
(73) Microsoft Technology Licensing, LLC	(54) PARTIAL LINK WIDTH STATES FOR MULTILANE LINKS	(87) US2011054790 12.04.2012
(72) DIAZ-CUELLAR, Gerardo CARDONA, Omar OSHINS, Jacob Kappeler STARKS, John WILHITE, Craig Daniel	(73) INTEL Corporation (72) DAS SHARMA, Debendra (31) 201916293269 (32) 05.03.2019	(22) 04.10.2011 (54) METHODS AND APPARATUS FOR INTEGRATED MANAGEMENT OF STRUCTURED DATA FROM VARIOUS SOURCES AND HAVING VARIOUS FORMATS
(31) 101360	(33) United States of America	(73) Sempras Software, Inc. (72) DEREMIGIO, Kevin WENZEL, Trent WENZEL, Robert
(32) 26.08.2019	(51) G06F 13/40 G06F 13/42	(31) 389666 P (32) 04.10.2010
(33) Luxembourg	(11) EP3881192 (21) EP19759683.6 (47) 06.12.2023 (87) GB2019052331 22.05.2020	(33) United States of America
(51) G06F 13/00 H04L 12/28 H04L 12/66	(22) 20.08.2019	(51) G06F 16/71 G06F 16/955 H04N 21/232 H04N 21/8355 H04N 21/2747 H04N 21/845 H04N 21/231 H04N 21/239 H04N 21/218 H04N 21/2343
(11) EP3907623	(54) AN APPARATUS AND METHOD FOR HANDLING ADDRESS DECODING IN A SYSTEM-ON-CHIP	(11) EP3360333 (21) EP16787640.8 (47) 06.12.2023 (87) US2016056133 13.04.2017
(21) EP20756037.6	(73) ARM Limited (72) THOMAS, Tessil	(22) 07.10.2016
(47) 06.12.2023	(31) 201816186913 (32) 12.11.2018	(54) SEGMENTED VIDEO CONTENT STORAGE
(87) JP2020002743 20.08.2020	(33) United States of America	(73) Synamedia Limited (72) RICKER, Clint CHOU, Hoi-tauw KUMARASWAMY, Gowdish MORGAN, David Stuart LEGRAND, Ivan V.
(22) 27.01.2020	(51) G06F 15/80 (11) EP3612946 (21) EP18720861.6 (47) 06.12.2023 (87) US2018026355 25.10.2018	
(54) PREPARATION DEVICE, PREPARATION SYSTEM, PREPARATION METHOD, AND PREPARATION PROGRAM	(22) 06.04.2018	
(73) NIPPON TELEGRAPH AND TELEPHONE CORPORATION	(54) MINIMIZING MEMORY READS AND INCREASING PERFORMANCE OF A NEURAL NETWORK ENVIRONMENT USING A DIRECTED LINE BUFFER	
(72) NOMURA, Koki NAGAFUCHI, Yukio TYOU, lifan MURATA, Tetsuhiko MORISHITA, Koji OTA, Kenji MUKAIYAMA, Akio NUKUSHINA, Takahiro NAGAYAMA, Hiroki TANIKAWA, Masaki	(73) Microsoft Technology Licensing, LLC (72) PETRE, George MCBRIDE, Chad, Balling AMBARDEKAR, Amol, Ashok CEDOLA, Kent, D. BOBROV, Boris	
(31) 2019023052		
(32) 12.02.2019		
(33) Japan		
(51) G06F 13/40 G06F 1/3206 G06F 1/324 G06F 1/3234 G06F 1/3296		

(31) 201562239379 P 201562239373 P	BECK, Louis	G06Q 20/38 H04L 67/565
(32) 09.10.2015 09.10.2015	(31) 20158842 (32) 21.02.2020	G06Q 20/40
(33) United States of America United States of America	(33) European Patent Office (EPO)	(11) EP3616106
(51) G06F 16/901	(51) G06F 18/25	(21) EP17908014.8
(11) EP3782045	G01S 7/41	(47) 06.12.2023
(21) EP19714273.0	G01S 13/72	(87) US2017030196
(47) 06.12.2023	G01S 13/931	01.11.2018
(87) US2019022092 24.10.2019	G06N 3/044	(22) 28.04.2017
(22) 13.03.2019	G06N 3/045	(54) MANAGING VERIFICATION
(54) EFFICIENT, IN-MEMORY, RELATIONAL REPRESENTATION FOR HETEROGENEOUS GRAPHS	(11) EP4012603	REPOSITORIES TO FACILITATE REAL- TIME SERVICING OF VERIFICATION QUERIES
(73) ORACLE INTERNATIONAL CORPORATION	(21) EP20212928.4	(73) Equifax, Inc.
(72) BARTOLINI, Davide VAN REST, Oskar WELD, Alexander HONG, Sungpack CHAFI, Hassan HILLOULIN, Damien	(47) 06.12.2023	(72) BLOOMQUIST, Eric WHITTENBERG, Chad BERTOLINO, Martin
(31) 201815956115 (32) 18.04.2018	(22) 10.12.2020	(51) G06F 21/55
(33) United States of America	(54) METHOD FOR CLASSIFYING A TRACKED OBJECT	G06N 20/00
(51) G06F 16/901	(73) Aptiv Technologies Limited	(11) EP3616115
G06F 16/28	(72) ZHU, Weimeng	(21) EP18724051.0
(11) EP3750082	KAESTNER, Florian	(47) 06.12.2023
(21) EP19707158.2	NIU, Zhiheng	(87) US2018029051
(47) 06.12.2023	GRUMPE, Arne	01.11.2018
(87) US2019015494 15.08.2019	(51) G06F 21/16	(22) 24.04.2018
(22) 29.01.2019	G06F 21/56	(54) ENDPOINT DETECTION AND RESPONSE SYSTEM EVENT CHARACTERIZATION DATA TRANSFER
(54) SYSTEMS, METHODS, AND SOFTWARE FOR IMPLEMENTING A NOTES SERVICE	(11) EP3299980	(73) Cylance Inc.
(73) Microsoft Technology Licensing, LLC	(21) EP17191065.6	(72) STRONG, Homer, Valentine
(72) LANGE, Donovan Paul FOWLER, Chad Erik LEVICK, Ryan ALMOG, Itai ZHONG, Fan FOURNIER, Keith Arthur, II	(47) 06.12.2023	PERMEH, Ryan
(31) 201815949353 201862628863 P	(22) 14.09.2017	OSWALD, Samuel, John
(32) 10.04.2018	(54) SECURITY MEASURE PROGRAM, FILE TRACKING METHOD, INFORMATION PROCESSING DEVICE, DISTRIBUTION DEVICE, AND MANAGEMENT DEVICE	(31) 201762490480 P 201762490467 P
(33) United States of America United States of America	(73) Nomura Research Institute, Ltd.	(32) 26.04.2017 26.04.2017
(51) G06F 18/24	(72) Ueno, Masahiro	(33) United States of America United States of America
G06V 10/82	MA, Tianfeng	(51) G06F 21/55
G06V 40/16	(31) 2016188098	H04L 9/40
G06F 21/62	(32) 27.09.2016	(11) EP3958152
(11) EP4107655	(33) Japan	(21) EP21162185.9
(21) EP21705221.6	(51) G06F 21/31	(47) 06.12.2023
(47) 06.12.2023	G06F 21/45	(22) 12.03.2021
(87) EP2021054079 26.08.2021	G06F 21/60	(54) ATTACK SCENARIO SIMULATION DEVICE, ATTACK SCENARIO GENERATION SYSTEM, AND ATTACK SCENARIO GENERATION METHOD
(22) 18.02.2021	G06F 21/62	(73) Hitachi, Ltd.
(54) METHOD AND APPARATUS FOR INTERACTIVE AND PRIVACY- PRESERVING COMMUNICATION BETWEEN A SERVER AND A USER DEVICE	H04L 9/32	(72) Nishijima, Katsuya Shigemoto, Tomohiro Kawaguchi, Nobutaka
(73) Philip Morris Products, S.A.	(11) EP3522052	(31) 2020137543
(72) BISWAS, Debmalya	(21) EP17856822.6	(32) 17.08.2020
	(47) 06.12.2023	(33) Japan
	(87) KR2017010931 05.04.2018	(51) G06F 21/55
	(22) 29.09.2017	H04L 9/40
	(54) SYSTEM FOR VERIFYING CONTROL HISTORY OF UNMANNED AERIAL VEHICLE	H04W 4/48
	(73) 4Dream Co., Ltd.	H04L 12/40
	Kim, Won Kug	B60R 16/023
	Shin, Jin Kyo	B60R 25/00
	(72) KIM, Won Kug	(11) EP3841504
	SHIN, Jin Kyo	(21) EP19851569.4
	RYU, Ki II	(47) 06.12.2023
	KIM, Kwang Rae	(87) US2019038576
	JEON, Haes Sal	27.02.2020
	(31) 20160126447	(22) 21.06.2019
	(32) 30.09.2016	
	(33) Korea (Republic)	
	(51) G06F 21/33	
	G06F 21/30	
	G06F 21/62	
	G06F 21/60	
	H04L 9/40	
	G06Q 20/42	

(54) SYSTEM AND METHOD FOR CYBER ATTACK DETECTION BASED ON RAPID UNSUPERVISED RECOGNITION OF RECURRING SIGNAL PATTERNS	(32) 14.04.2014 (33) France	G01S 17/89 G01V 8/12
(73) HRL Laboratories, LLC	(51) G06F 30/39	(11) EP4009225
(72) HAUG, Joshua	H01L 23/498	(21) EP20212207.3
PAYTON, David W.	H04B 3/32	(47) 06.12.2023
(31) 201816219749	H01R 13/6461	(22) 07.12.2020
201862722783 P	G09B 23/18	(54) OPTICAL SENSOR
(32) 13.12.2018	H05K 1/02	(73) Leuze electronic GmbH + Co. KG
24.08.2018	G06F 30/394	(72) Dümmler, Thomas
(33) United States of America	(11) EP3983926	Doll, Manfred
United States of America	(21) EP20753489.2	(51) G06K 19/07
(51) G06F 21/57	(47) 06.12.2023	(11) EP4095755
G06F 21/32	(87) US2020037576	(21) EP22173647.3
G06F 21/60	17.12.2020	(47) 06.12.2023
(11) EP3885954	(22) 12.06.2020	(22) 16.05.2022
(21) EP20894282.1	(54) MEMORY SYSTEM DESIGN FOR SIGNAL INTEGRITY CROSSTALK REDUCTION WITH ASYMMETRY	(54) RFID TAG SELF TUNING
(47) 06.12.2023	(73) Qualcomm Incorporated	(73) NXP B.V.
(87) CN2020121574	(72) GUPTA, Sunil	(72) PICHLER, Thomas
03.06.2021	(31) 201916442208	REBOLLO PIMENTEL, Ivan Jesus
(22) 16.10.2020	(32) 14.06.2019	(31) 202117303488
(54) SECURITY REINFORCEMENT ARCHITECTURE, ENCRYPTION AND DECRYPTION METHOD, CAR NETWORKING TERMINAL, AND VEHICLE	(33) United States of America	(32) 29.05.2021
(73) Guangdong Xiaopeng Motors Technology Co., Ltd.	(51) G06F 40/30	(33) United States of America
(72) LIN, Qiaojie	G05D 1/00	(51) G06K 19/073
(31) 201911200678	G05D 1/02	G06K 19/077
(32) 29.11.2019	G10L 13/00	(11) EP3265962
(33) China	(11) EP3464008	(21) EP16706844.4
(51) G06F 21/62	(21) EP17844544.1	(47) 06.12.2023
H04L 9/08	(47) 06.12.2023	(87) EP2016053931
H04L 9/40	(87) US2017048750	09.09.2016
H04L 9/00	01.03.2018	(22) 25.02.2016
G06F 16/245	(22) 25.08.2017	(54) VALUE OR SECURITY DOCUMENT COMPRISING AN ELECTRONIC CIRCUIT, AND METHOD FOR PRODUCING A VALUE OR SECURITY DOCUMENT
(11) EP4193290	(54) SYSTEM AND METHOD FOR CONTROLLING A SELF-GUIDED VEHICLE	(73) Bundesdruckerei GmbH
(21) EP21806894.8	(73) Purdue Research Foundation	(72) FISCHER, Jörg
(47) 06.12.2023	(72) BRONIKOWSKI, Scott, Alan	TRÖLENBERG, Stefan
(87) US2021055514	BARRETT, Daniel, Paul	TIETKE, Markus
27.04.2023	YU, Haonan	HILLE, Jakob
(22) 19.10.2021	SISKIND, Jeffrey, Mark	FRITZE, Frank
(54) MULTI-KEY INFORMATION RETRIEVAL	(31) 201662379245 P	DRESSEL, Olaf
(73) Google LLC	(32) 25.08.2016	PAESCHKE, Manfred
(72) FOX-EPSTEIN, Eli Simon	(33) United States of America	(31) 102015204018
WRIGHT, Craig William	(51) G06K 7/10	(32) 05.03.2015
YEO, Kevin Wei Li	(11) EP4036787	(33) Germany
RAYKOVA, Mariana	(21) EP22151294.0	(51) G06N 3/045
SETH, Karn	(47) 06.12.2023	G06N 3/084
(51) G06F 30/30	(22) 13.01.2022	(11) EP3701428
(11) EP3132365	(54) ILLUMINATION CONTROL FOR IMAGING SYSTEMS WITH MULTIPLE IMAGE SENSORS	(21) EP18786765.0
(21) EP15719812.8	(73) Hand Held Products, Inc.	(47) 06.12.2023
(47) 06.12.2023	(72) GENNADY, Germaine	(87) EP2018078005
(87) FR2015050969	POLONIEWICZ, Paul	02.05.2019
22.10.2015	MIRAGLIA, Michael	(22) 15.10.2018
(22) 10.04.2015	HEJL, Benjamin	(54) METHOD AND APPARATUS FOR IMPROVING THE ROBUSTNESS OF A MACHINE LEARNING SYSTEM
(54) METHOD OF AUTOMATIC SYNTHESIS OF CIRCUITS, DEVICE AND COMPUTER PROGRAM ASSOCIATED THEREWITH	RUEBLINGER, Gregory	(73) Robert Bosch GmbH
(73) INRIA - Institut National de Recherche en Informatique et en Automatique	VAN HORN, Erik	(72) METZEN, Jan Hendrik
(72) ALIAS, Christophe	XIAN, Tao	(31) 102017219274
PLESCO, Alexandru	WILZ SR., David	(32) 26.10.2017
(31) 1453308	FENG, Chen	(33) Germany
	BAN, Shankar	(51) G06N 3/063
	(31) 202117157979	G06N 3/065
	(32) 25.01.2021	G06G 7/14
	(33) United States of America	G06J 1/00
	(51) G06K 7/10	G06N 3/08
	G01S 7/481	H03K 5/24

(11) EP3580699	(73) Northrop Grumman Systems Corporation	G06Q 20/36
(21) EP18751745.3	(72) NAAMAN, Ofer	G06Q 20/38
(47) 06.12.2023	EASTIN, Bryan K.	G06Q 20/40
(87) US2018017243	(31) 201514720315	H04L 9/12
16.08.2018	(32) 22.05.2015	H04L 9/32
(22) 07.02.2018	(33) United States of America	H04L 9/00
(54) SYSTEMS AND METHODS FOR MIXED-SIGNAL COMPUTING	(51) G06Q 10/0631	(11) EP3688704
(73) The Regents of The University of Michigan	G06Q 50/30	(21) EP18860917.6
Mythic Inc.	(11) EP3982311	(47) 06.12.2023
(72) FICK, David Alan	(21) EP21200778.5	(87) US2018052721
FICK, Laura E.	(47) 06.12.2023	04.04.2019
SKRZYNIARZ, Skylar J.	(22) 04.10.2021	(22) 25.09.2018
EL-CHAMMAS, Manar	(54) TRANSPORTATION SYSTEM AND OPERATION METHOD THEREOF	(54) SECURE OFFLINE TRANSACTION SYSTEM USING DIGITAL TOKENS AND A SECURE LEDGER DATABASE
(31) 201762455703 P	(73) Hyundai Mobis Co., Ltd.	(73) PayPal, Inc.
(32) 07.02.2017	(72) Ji, Yong Kwan	(72) GOVINDARAJAN, Satish Narayan
(33) United States of America	(31) 20200130250	URUTHIRALINGAM, Anantharaj
(51) G06N 3/084	(32) 08.10.2020	RIVAS, Carlos
G06N 3/047	(33) Korea (Republic)	NANDIRAJU, Srikanth
G06N 3/0464	(51) G06Q 10/0633	(31) 201715716013
G06N 3/044	G06Q 50/08	(32) 26.09.2017
(11) EP3563306	(11) EP3910570	(33) United States of America
(21) EP18707480.2	(21) EP20174938.9	(51) G06Q 20/32
(47) 06.12.2023	(47) 06.12.2023	G06Q 20/34
(87) US2018017597	(22) 15.05.2020	G06Q 20/36
16.08.2018	(54) METHOD FOR CONSTRUCTION SITE MONITORING AND SYSTEM FOR SAME	(11) EP3719730
(22) 09.02.2018	(73) BAUER Maschinen GmbH	(21) EP19167155.1
(54) BATCH RENORMALIZATION LAYERS	(72) REGLER, Hans	(47) 06.12.2023
(73) Google LLC	MAURER, Jochen	(22) 03.04.2019
(72) IOFFE, Sergey	(51) G06Q 10/20	(54) METHOD FOR PROVIDING A DIGITAL REPRESENTATION OF A TRANSACTION CARD IN A MOBILE DEVICE
(31) 201762457649 P	(11) EP4009251	(73) NXP B.V.
(32) 10.02.2017	(21) EP19939786.0	(72) WARNEZ, Dimitri
(33) United States of America	(47) 06.12.2023	(51) G06Q 30/02
(51) G06N 3/092	(87) IB2019000757	(11) EP3757924
G06N 3/044	04.02.2021	(21) EP18915634.2
G06N 3/045	(22) 01.08.2019	(47) 06.12.2023
(11) EP3776364	(54) INFORMATION OUTPUT DEVICE AND INFORMATION OUTPUT METHOD	(87) CN2018112055
(21) EP19728014.2	(73) NISSAN MOTOR Co., Ltd.	24.10.2019
(47) 06.12.2023	Renault s.a.s	(22) 26.10.2018
(87) EP2019063970	(72) KUSAYANAGI, Yoshinori	(54) SERVICE RECOMMENDATION METHOD AND RELATED DEVICE
05.12.2019	YANAGI, Takura	(73) HUAWEI TECHNOLOGIES CO., LTD.
(22) 29.05.2019	(51) G06Q 20/00	(72) CHEN, Qiang
(54) DEEP REINFORCEMENT LEARNING WITH FAST UPDATING RECURRENT NEURAL NETWORKS AND SLOW UPDATING RECURRENT NEURAL NETWORKS	G06Q 20/22	WENG, Xinyu
(73) DeepMind Technologies Limited	G06Q 20/40	(31) 201810343194
(72) DUNNING, Iain Robert	G06Q 20/10	(32) 17.04.2018
CZARNECKI, Wojciech	(11) EP3743868	(33) China
JADERBERG, Maxwell Elliot	(21) EP18902770.9	(51) G06Q 30/06
(31) 201862677632 P	(47) 06.12.2023	G06Q 10/06
(32) 29.05.2018	(87) US2018062703	G06Q 10/02
(33) United States of America	01.08.2019	A01D 34/00
(51) G06N 10/70	(22) 28.11.2018	(11) EP3757929
G06N 10/20	(54) METHOD AND SYSTEM FOR SHARED PAYMENTS WITH TOKENIZED AND DIGITIZED PAYMENT CARDS	(21) EP18911962.1
G06N 10/40	(73) Mastercard International Incorporated	(47) 06.12.2023
(11) EP3298548	(72) DAYAL, Gaurav	(87) JP2018012359
(21) EP16724214.8	PATEL, Arpit	03.10.2019
(47) 06.12.2023	SHAH, Hemal	(22) 27.03.2018
(87) US2016031500	NAIK, Rahul Narendra	(54) CONTROL DEVICE FOR SHARING SERVICE, CONTROL METHOD, AND PROGRAM
01.12.2016	(31) 201815878765	(73) HONDA MOTOR CO., LTD.
(22) 09.05.2016	(32) 24.01.2018	(72) KURIYAGAWA, Koji
(54) FAULT TOLERANT SYNDROME EXTRACTION AND DECODING IN BACON-SHOR QUANTUM ERROR CORRECTION	(33) United States of America	DOBASHI, Manabu
	(51) G06Q 20/22	YAMAKAWA, Hiroshi
	G06Q 20/32	

(51) G06Q 50/00 H04L 9/40 G06N 20/00	LANGLOIS, Robert Ezra YOUNG, Andrew James HEIBERG, Andrew Dodge	(47) 06.12.2023 (87) GB2018053054 02.05.2019
(11) EP4091106 (21) EP21807336.9 (47) 06.12.2023 (87) US2021053387 14.04.2022 (22) 04.10.2021	(31) 201962924138 P 201962924130 P (32) 21.10.2019 21.10.2019 (33) United States of America United States of America	(22) 23.10.2018 (54) TOMOGRAPHIC DATA ANALYSIS (73) Brainomix Limited (72) GREVESON, Eric (31) 201717397 (32) 23.10.2017 (33) United Kingdom
(54) SYSTEMS AND METHODS FOR PROTECTING AGAINST EXPOSURE TO CONTENT VIOLATING A CONTENT POLICY (73) Google LLC (72) CHAI, Hongjie ZANOTTI, Vincent FELDMAN, Bruce ALBORZI, Houman MALKIN, Robert NARLIKAR, Girija BURR, Brianna RUSSELL, Mark (31) 202017066239 (32) 08.10.2020 (33) United States of America	(51) G06T 5/00 H04N 23/611 (11) EP3644599 (21) EP18820597.5 (47) 06.12.2023 (87) CN2018092025 27.12.2018 (22) 20.06.2018 (54) VIDEO PROCESSING METHOD AND APPARATUS, ELECTRONIC DEVICE, AND STORAGE MEDIUM (73) Oneplus Technology (Shenzhen) Co., Ltd. (72) HSIAO, HsiChun (31) 201710477150 (32) 21.06.2017 (33) China	(51) G06T 7/00 G06T 7/20 G08B 21/02 G08B 25/00 G06V 10/764 G06V 20/52 G08B 25/04 (11) EP3553739 (21) EP17877984.9 (47) 06.12.2023 (87) JP2017029533 14.06.2018 (22) 17.08.2017 (54) IMAGE RECOGNITION SYSTEM AND IMAGE RECOGNITION METHOD (73) Konica Minolta, Inc. (72) HAYATA, Keisuke (31) 2016236669 (32) 06.12.2016 (33) Japan
(51) G06Q 50/34 A63F 3/00 G07F 17/32 A63F 1/18 G06Q 50/10 A63F 9/24 A63F 1/14 A63F 1/00 (11) EP4123566 (21) EP22195866.3 (47) 06.12.2023 (22) 02.08.2016 (54) FRAUD DETECTION SYSTEM AT GAME PARLOR (73) Angel Playing Cards Co., Ltd. (72) SHIGETA, Yasushi (31) 2015206735 2015163213 (32) 01.10.2015 03.08.2015 (33) Japan Japan	(51) G06T 5/20 (11) EP3821395 (21) EP19739253.3 (47) 06.12.2023 (87) EP2019068342 16.01.2020 (22) 09.07.2019 (54) BILATERAL FILTERING USING ALPHA AND OMEGA VALUES: CALCULATING LUT ARGUMENT WITH FEW ARITHMETIC OPERATIONS (73) Telefonaktiebolaget LM Ericsson (publ) (72) STRÖM, Jacob LIU, Du ENHORN, Jack WENNERSTEN, Per (31) 201862697243 P (32) 12.07.2018 (33) United States of America	(51) G06T 7/00 H04N 13/271 G06T 19/00 (11) EP3989163 (21) EP21203445.8 (47) 06.12.2023 (22) 19.10.2021 (54) METHOD AND SYSTEM FOR UNSUPERVISED PREDICTION OF IMAGE DEPTH AND CONFIDENCE MAP (73) Tata Consultancy Services Limited (72) BHUTANI, VISHAL KUMAR VANKADARI, MADHU BABU DUTTA, ANIMA MAJUMDER JHA, OMPRAKASH MANOJKUMAR DUTTA, SAMRAT (31) 202021046429 (32) 24.10.2020 (33) India
(51) G06T 5/00 G01B 11/25 G01N 21/64 G02B 21/00 G02B 21/08 G02B 21/36 G02B 27/60 G06T 3/40 G06T 5/50 G02B 21/14 (11) EP4049234 (21) EP20807575.4 (47) 06.12.2023 (87) US2020056717 29.04.2021 (22) 21.10.2020 (54) SYSTEMS AND METHODS FOR STRUCTURED ILLUMINATION MICROSCOPY (73) Illumina, Inc. (72) LU, Bo	(51) G06T 5/00 A61J 3/00 G06T 7/12 G06T 7/13 (11) EP3675030 (21) EP18848786.2 (47) 06.12.2023 (87) JP2018029925 28.02.2019 (22) 09.08.2018 (54) DRUG INSPECTION ASSISTANCE DEVICE, DRUG IDENTIFICATION DEVICE, IMAGE PROCESSING DEVICE, IMAGE PROCESSING METHOD, AND PROGRAM (73) FUJIFILM Toyama Chemical Co., Ltd. (72) IWAMI, Kazuchika (31) 2017159559 (32) 22.08.2017 (33) Japan	(51) G06T 7/73 (11) EP3430596 (21) EP17776945.2 (47) 06.12.2023 (87) EP2017072360 29.11.2018 (22) 06.09.2017 (54) DETERMINING THE RELATIVE POSITION BETWEEN A THERMAL CAMERA AND A 3D CAMERA USING A HYBRID PHANTOM (73) Brainlab AG (72) ROHDE, Daniel (31) PCT/EP2017/062384 (32) 23.05.2017 (33) World Intellectual Property Office (WIPO)
(51) G06T 7/00 (11) EP3701495 (21) EP18795790.7	(51) G06T 7/00 (11) EP3701495 (21) EP18795790.7	(51) G06T 15/00 G06T 1/20

G09G 5/36	(22) 16.10.2019	(11) EP3557289
G06T 11/40	(54) LIGHTING ESTIMATION FOR AUGMENTED REALITY	(21) EP17797224.7
(11) EP4033450	(73) Google LLC	(47) 06.12.2023
(21) EP22152416.8	(72) LEGENDRE, Chloe	(87) CN2017109469
(47) 06.12.2023	CHARBONNEL, Laurent	21.06.2018
(22) 20.01.2022	TONG, Christina	(22) 06.11.2017
(54) METHOD AND SYSTEM FOR SAFETY CRITICAL RENDERING OF A FRAME	TSOTSOS, Konstantine Nicholas John	(54) SECURITY CHECK SYSTEM AND METHOD
(73) Imagination Technologies Limited	MA, Wan-Chun	(73) Nuctech Company Limited
(72) Broome, Jamie	DEBEVEC, Paul	(72) CHEN, Zhiqiang
King, Ian	(51) G06V 10/143	ZHANG, Li
(31) 202101014	(11) EP3161725	PENG, Gang
202101013	(21) EP15745011.5	DAI, Zhisheng
(32) 26.01.2021	(47) 06.12.2023	SUN, Yunda
26.01.2021	(87) US2015038224	LI, Dong
(33) United Kingdom	07.01.2016	(31) 201611168867
United Kingdom	(22) 29.06.2015	(32) 16.12.2016
(51) G06T 15/00	(54) COLOR IDENTIFICATION USING INFRARED IMAGING	(33) China
G06T 1/20	(73) Microsoft Technology Licensing, LLC	(51) G06V 10/762
G09G 5/36	(72) LIANG, Lin	G06V 10/771
G06T 11/40	HUITEMA, Christian F.	(11) EP3620982
(11) EP4033449	(31) 201514616514	(21) EP19195094.8
(21) EP22152415.0	201462019351 P	(47) 06.12.2023
(47) 06.12.2023	(32) 06.02.2015	(22) 03.09.2019
(22) 20.01.2022	30.06.2014	(54) SAMPLE PROCESSING METHOD AND DEVICE
(54) METHOD AND SYSTEM FOR SAFETY CRITICAL RENDERING OF A FRAME	(33) United States of America	(73) Baidu Online Network Technology (Beijing) Co., Ltd.
(73) Imagination Technologies Limited	United States of America	(72) ZHAO, Min
(72) Broome, Jamie	(51) G06V 10/147	CHENG, Jianyi
King, Ian	H01L 27/146	QIN, Huapeng
(31) 202101014	G06F 3/041	(31) 201811043185
202101013	(11) EP3652785	(32) 07.09.2018
(32) 26.01.2021	(21) EP17894657.0	(33) China
26.01.2021	(47) 06.12.2023	(51) G06V 10/80
(33) United Kingdom	(87) CN2017105494	G06F 18/25
United Kingdom	17.01.2019	G06V 20/58
(51) G06T 17/00	(22) 10.10.2017	(11) EP3985554
G06T 15/08	(54) ARRAY SUBSTRATE AND FABRICATION METHOD THEREOF, DISPLAY APPARATUS	(21) EP20900756.6
G01C 11/00	(73) BOE Technology Group Co., Ltd.	(47) 06.12.2023
G06T 3/40	Beijing BOE Display Technology Co., Ltd.	(87) CN2020121562
H04N 13/00	(72) YANG, Zhaokun	17.02.2022
G06T 17/20	FENG, Xiang	(22) 16.10.2020
G02B 27/01	YANG, Ruizhi	(54) TRAFFIC LIGHT RECOGNITION METHOD AND APPARATUS
(11) EP3776488	QI, Yonglian	(73) Guangdong Xiaopeng Motors Technology Co., Ltd.
(21) EP19714022.1	(31) 201710557038	(72) LI, Weiwei
(47) 06.12.2023	(32) 10.07.2017	ZHANG, Pengyue
(87) US2019022383	(33) China	LIU, Langechuan
03.10.2019	(51) G06V 10/44	(31) 202010809487
(22) 15.03.2019	G06V 20/40	(32) 12.08.2020
(54) USING A LOW-DETAIL REPRESENTATION OF SURFACES TO INFLUENCE A HIGH-DETAIL REPRESENTATION OF THE SURFACES	G06V 40/20	(33) China
(73) Microsoft Technology Licensing, LLC	(11) EP3859600	(51) G06V 10/80
(72) PEKELNY, Yuri	(21) EP20184754.8	G06V 10/82
STRUNK, Oliver Michael	(47) 06.12.2023	G06V 10/12
(31) 201815940702	(22) 08.07.2020	G06V 20/40
(32) 29.03.2018	(54) SYSTEM FOR SURVEYING SATISFACTION THROUGH MOTION RECOGNITION IN FIELD SPACE	G06V 20/59
(33) United States of America	(73) GN Company	G06V 20/58
(51) G06T 19/00	(72) KIM, YOUNG GUN	(11) EP4035071
G06T 19/20	HAN, SEUNG SOO	(21) EP21791361.5
G06T 15/50	LEE, SEUNG HONG	(47) 06.12.2023
(11) EP3827416	(31) 20200012768	(87) EP2021078422
(21) EP19798785.2	(32) 03.02.2020	02.06.2022
(47) 06.12.2023	(33) Korea (Republic)	(22) 14.10.2021
(87) US2019056518	(51) G06V 10/75	(54) AN IMAGE PROCESSING SYSTEM
22.04.2021	G06V 20/52	(73) FotoNation Limited
		(72) BLYTHMAN, Richard

<p>RYAN, Cian KIELTY, Paul LEMLEY, Joseph (31) 202117148465 (32) 13.01.2021 (33) United States of America <hr/></p> <p>(51) G06V 10/82 G06V 20/10 G06V 20/70 G06V 10/776 G06V 10/764 G06N 3/045 G06N 3/084 (11) EP3690714 (21) EP20151988.1 (47) 06.12.2023 (22) 15.01.2020 (54) METHOD FOR ACQUIRING SAMPLE IMAGES FOR INSPECTING LABEL AMONG AUTO-LABELED IMAGES TO BE USED FOR LEARNING OF NEURAL NETWORK AND SAMPLE IMAGE ACQUIRING DEVICE USING THE SAME (73) StradVision, Inc. (72) Kim, Kye-Hyeon Kim, Yongjoong Kim, Insu Kim, Hak-Kyoung Nam, Woonhyun Boo, SukHoon Sung, Myungchul Yeo, Donghun Ryu, Wooju Jang, Taewoong Jeong, Kyungjoong Je, Hongmo Cho, Hojin (31) 201916262142 (32) 30.01.2019 (33) United States of America <hr/></p> <p>(51) G06V 10/82 G06V 20/40 G06V 20/52 G06V 20/70 (11) EP3483786 (21) EP18205083.1 (47) 06.12.2023 (22) 08.11.2018 (54) METHOD FOR WATCHING A SCENE, ASSOCIATED ACQUIRING DEVICE AND INSTALLATION (73) Thales (72) ZIEBA, Stéphane CRAYE, Céline GOUDOU, Jean-François LE BARZ, Cédric (31) 1701146 (32) 08.11.2017 (33) France <hr/></p> <p>(51) G06V 20/10 G06F 3/16 (11) EP3866054 (21) EP19884579.4 (47) 06.12.2023 (87) CN2019110191 22.05.2020 (22) 09.10.2019</p>	<p>(54) SMART DEVICE CONTROL METHOD AND APPARATUS, AND STORAGE MEDIUM (73) Beijing Orion Star Technology Co., Ltd. (72) ZHANG, Shengmei LI, Jinxin SONG, Ben (31) 201811346631 (32) 13.11.2018 (33) China <hr/></p> <p>(51) G06V 20/56 (11) EP3570206 (21) EP18172365.1 (47) 06.12.2023 (22) 15.05.2018 (54) A DEVICE AND A METHOD FOR SEARCHING FOR A LANE ON WHICH A VEHICLE CAN DRIVE (73) Aptiv Technologies Limited (72) Zhao, Kun Su, Yu <hr/></p> <p>(51) G06V 20/56 G06V 10/30 G06V 10/50 (11) EP3783526 (21) EP19465546.0 (47) 06.12.2023 (22) 22.08.2019 (54) METHOD OF REMOVING STRAY LIGHT FROM AN EGO VEHICLE WINDOW IN A CAMERA ARRANGEMENT, CAMERA ARRANGEMENT AND COMPUTER PROGRAM FOR APPLYING SAID METHOD (73) Continental Autonomous Mobility Germany GmbH (72) Burca, Cristian Botutescu, Adrian Krökel, Dieter Erdei, Barna <hr/></p> <p>(51) G06V 20/58 G05D 1/02 B60W 40/02 B60W 60/00 (11) EP4097554 (21) EP21887861.9 (47) 06.12.2023 (87) CN2021088379 27.10.2022 (22) 20.04.2021 (54) TRAFFIC LIGHT DETECTION AND CLASSIFICATION FOR AUTONOMOUS DRIVING VEHICLES (73) Baidu.com Times Technology (Beijing) Co., Ltd. Baidu USA LLC (72) LYU, Jeong Ho LI, Lingchang <hr/></p> <p>(51) G06V 20/58 G06V 20/56 (11) EP3196863 (21) EP15827975.2 (47) 06.12.2023 (87) CN2015083205 04.02.2016 (22) 02.07.2015</p>	<p>(54) SYSTEM AND METHOD FOR AIRCRAFT DOCKING GUIDANCE AND AIRCRAFT TYPE IDENTIFICATION (73) Shenzhen CIMC-TIANDA Airport Support Ltd. (72) DENG, Lan CHANG, Shaomin XIANG, Wei YANG, Yuefeng WANG, Haibin LIU, Haiqiu (31) 201410377430 (32) 01.08.2014 (33) China <hr/></p> <p>(51) G06V 30/10 G06V 30/19 G06V 30/224 G06V 30/244 (11) EP3477547 (21) EP18202437.2 (47) 06.12.2023 (22) 24.10.2018 (54) OPTICAL CHARACTER RECOGNITION SYSTEMS AND METHODS (73) Hand Held Products, Inc. (72) ACKLEY, H. Sprague (31) 201715793407 (32) 25.10.2017 (33) United States of America <hr/></p> <p>(51) G06V 30/412 G06V 30/18 G06V 30/19 (11) EP4125066 (21) EP22178806.0 (47) 06.12.2023 (22) 14.06.2022 (54) METHOD AND SYSTEM FOR TABLE STRUCTURE RECOGNITION VIA DEEP SPATIAL ASSOCIATION OF WORDS (73) Tata Consultancy Services Limited (72) JAIN, ARUSHI Paliwal, Shubham Sharma, Monika Vig, Lovekesh (31) 202121033557 (32) 26.07.2021 (33) India <hr/></p> <p>(51) G06V 40/20 (11) EP3867802 (21) EP19786605.6 (47) 06.12.2023 (87) EP2019078244 23.04.2020 (22) 17.10.2019 (54) METHOD FOR ANALYZING THE MOVEMENTS OF A PERSON, AND DEVICE FOR IMPLEMENTING SAME (73) A.I.O. (72) DANE, Cyril BOUDINET, Florian (31) 1859634 (32) 18.10.2018 (33) France <hr/></p> <p>(51) G06V 40/20 G06V 40/10 G06V 10/80 G06F 18/25 G06T 7/246</p>
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(11) EP4107653	07.05.2020	(31) 2018010412
(21) EP21703149.1	(22) 25.10.2019	(32) 25.01.2018
(47) 06.12.2023	(54) MAGNETIC TESTING OF VALUABLE	(33) Japan
(87) EP2021051171	DOCUMENTS	(51) G07F 17/00
26.08.2021	(73) Giesecke+Devrient Currency Technology	G16H 20/13
(22) 20.01.2021	GmbH	G07F 9/00
(54) METHOD, SYSTEM AND COMPUTER	(72) SCHÜTZMANN, Jürgen	(11) EP3761280
PROGRAMS FOR TRACEABILITY OF	SCHMALZ, Steffen	(21) EP20186296.8
LIVING SPECIMENS	(31) 102018008519	(47) 06.12.2023
(73) Touchless Animal Metrics, SL	(32) 30.10.2018	(22) 01.10.2013
(72) AMAT ROLDAN, Ivan	(33) Germany	(54) SYSTEM AND METHOD FOR FILLING
(31) 20382117	(51) G07D 7/20	AND DISPENSING ORDERS
(32) 17.02.2020	G07D 7/00	(73) RxSafe, LLC
(33) European Patent Office (EPO)	G07D 7/185	(72) HOLMES, William K
(51) G07C 3/00	B42D 25/351	(31) 201313963837
D21G 9/00	(11) EP3416141	201313804818
(11) EP3861534	(21) EP18175401.1	201261708935 P
(21) EP19809702.4	(47) 06.12.2023	(32) 09.08.2013
(47) 06.12.2023	(22) 31.05.2018	14.03.2013
(87) DE2019000256	(54) METHOD FOR AUTHENTICATING	02.10.2012
09.04.2020	A DOCUMENT HAVING A	(33) United States of America
(22) 01.10.2019	TRANSPARENT WINDOW, METHOD	United States of America
(54) ROLLER WITH DATA PROCESSING	FOR CONDUCTING TRANSACTIONS	United States of America
DEVICE	AND DEVICE FOR IMPLEMENTING	(51) G08B 1/08
(73) Carl Krafft & Söhne GmbH & CO. KG	SAME	F16K 37/00
(72) KAYSER, Peter	(73) Idemia Identity & Security France	E03B 7/08
(31) 102018007847	(72) DURA, Jérémy	(11) EP3675072
(32) 04.10.2018	GRAVELLIER, Benjamin	(21) EP20151828.9
(33) Germany	ROSTAING, Laurent	(47) 06.12.2023
(51) G07C 5/00	(31) 1755378	(22) 24.05.2013
G08G 1/00	(32) 14.06.2017	(54) POSITION INDICATOR FOR VALVES
(11) EP2937845	(33) France	(73) Mueller International, LLC
(21) EP12890445.5	(51) G07D 9/00	(72) CLARK, Kenneth A.
(47) 06.12.2023	G07D 11/14	BRANDT, Jared Aaron
(87) JP2012082737	B65H 3/06	VANDERBURG, Ralph William
26.06.2014	B65H 3/54	(31) 201261651962 P
(22) 18.12.2012	G07D 11/165	(32) 25.05.2012
(54) VEHICLE OPERATION MANAGEMENT	B65H 1/02	(33) United States of America
SYSTEM	(11) EP3745366	(51) G08B 13/24
(73) Volvo Truck Corporation	(21) EP19744597.6	(11) EP3889927
(72) FUJISAWA, Yukio	(47) 06.12.2023	(21) EP21165024.7
(51) G07D 5/00	(87) JP2019001613	(47) 06.12.2023
G07D 5/02	01.08.2019	(22) 25.03.2021
G06V 10/24	(22) 21.01.2019	(54) SYSTEM AND METHOD FOR
G06V 10/44	(54) PAPER SHEET PROCESSING DEVICE	PRESENCE DETECTION IN AN
G06V 10/75	(73) Laurel Precision Machines Co., Ltd.	ENVIRONMENT TO BE MONITORED
G06V 20/64	(72) HAYASHI Shigenori	(73) STMicroelectronics S.r.l.
(11) EP3605478	SHINAGAWA Motonori	(72) PASSANITI, Fabio
(21) EP18777056.5	(31) 2018011781	ALESSI, Enrico Rosario
(47) 06.12.2023	(32) 26.01.2018	(31) 202000006883
(87) JP2018012183	(33) Japan	(32) 01.04.2020
04.10.2018	(51) G07D 9/00	(33) Italy
(22) 26.03.2018	G07D 11/225	(51) G08B 13/24
(54) COIN IDENTIFICATION APPARATUS,	G07D 7/189	G06Q 30/00
COIN PROCESSING APPARATUS, AND	G07D 11/14	(11) EP3877962
COIN IDENTIFICATION METHOD	G07D 11/16	(21) EP19881194.5
(73) Laurel Precision Machines Co., Ltd.	(11) EP3745364	(47) 06.12.2023
(72) OBA Yosuke	(21) EP18902031.6	(87) US2019058453
TAKAHASHI Masataka	(47) 06.12.2023	14.05.2020
(31) 2017070654	(87) JP2018037513	(22) 29.10.2019
(32) 31.03.2017	01.08.2019	(54) PACKAGING SUPPORTING
(33) Japan	(22) 09.10.2018	VERIFICATION OF PACKAGE
(51) G07D 7/04	(54) FRAUD DETECTING MECHANISM,	INTEGRITY AND DETECTION OF
G07D 7/004	PAPER SHEET CARRYING DEVICE	RELATED INTRUSION
(11) EP3874475	AND PAPER SHEET HANDLING	(73) eTEP Inc.
(21) EP19801474.8	DEVICE	(72) DEHMUBED, Rohinton S.
(47) 06.12.2023	(73) JAPAN CASH MACHINE CO., LTD.	GOMPPER, Peter
(87) EP2019000300	(72) HARAGUCHI, Kohei	(31) 201816180512

(32) 05.11.2018	(54) SYSTEM AND METHOD FOR PRESENTING A CUSTOMIZABLE GRAPHICAL VIEW OF A SYSTEM STATUS TO IDENTIFY SYSTEM FAILURES	(73) Apollo Intelligent Connectivity (Beijing) Technology Co., Ltd.
(33) United States of America		(72) YU, Gao
(51) G08B 13/26		WANG, Chuang
G01R 27/26		ZHANG, Chi
G08B 13/24	(73) Honeywell International Inc.	(31) 202110585150
G08B 29/04	(72) NIXON, David Ross	(32) 27.05.2021
G01D 5/24	GAO, Zi Ming	(33) China
G09F 3/03	DELPECH, Adam Lindsey	
(11) EP3786912	GRANATELLI, David Barry	(51) G08G 1/16
(21) EP19193888.5		B60R 21/00
(47) 06.12.2023	(31) 201615264543	G08G 1/09
(22) 27.08.2019	(32) 13.09.2016	G08G 1/0967
(54) INTEGRATED CIRCUIT AND MEASUREMENT METHOD	(33) United States of America	B60W 30/09
		B60R 21/0134
(73) NXP B.V.	(51) G08G 1/01	(11) EP3154045
(72) STADLMAIR, Rainer	G05D 1/00	(21) EP15802700.3
AMTMANN, Franz	B60W 30/095	(47) 06.12.2023
	B60W 40/00	(87) JP2015065714
(51) G08B 21/02	B60W 50/06	10.12.2015
F24C 15/20	B60W 60/00	(22) 01.06.2015
F24C 7/08	G06V 10/764	(54) OBSTACLE-INFORMATION-MANAGING DEVICE
G01J 5/00	G06V 10/82	(73) Hitachi Astemo, Ltd.
G08B 17/12	G06V 20/58	(72) NAKA, Takuya
G08B 21/22	(11) EP3673470	UCHIYAMA, Hiroki
H05B 1/02	(21) EP18782225.9	(31) 2014117509
H05B 6/06	(47) 06.12.2023	(32) 06.06.2014
(11) EP3593332	(87) US2018047032	(33) Japan
(21) EP18764230.1	28.02.2019	
(47) 06.12.2023	(22) 20.08.2018	(51) G08G 1/16
(87) IB2018051449	(54) SYSTEMS AND METHODS FOR PRIORITIZING OBJECT PREDICTION FOR AUTONOMOUS VEHICLES	G08G 1/0965
13.09.2018		(11) EP3776515
(22) 06.03.2018	(73) UATC, LLC	(21) EP19716089.8
(54) SAFETY COOKING DEVICE AND METHOD	(72) HAYNES, Galen Clark	(47) 06.12.2023
	(31) 201715811865	(87) EP2019057509
(73) Johnson Controls Tyco IP Holdings LLP	201762549407 P	03.10.2019
(72) BUCSA, Andrei	(32) 14.11.2017	(22) 26.03.2019
HILL, Gregory W.	23.08.2017	(54) METHOD AND DEVICE FOR COORDINATING DRIVING MANOEUVRES BETWEEN ONE VEHICLE AND AT LEAST ONE OTHER VEHICLE
VANDERVECHT, Rob	(33) United States of America	(73) PSA Automobiles SA
	United States of America	(72) BERNINGER, Harald
(31) 201762467313 P	(51) G08G 1/087	LIZENBERG, Viktor
(32) 06.03.2017	G08G 1/16	(31) 102018002609
(33) United States of America	G08G 1/01	(32) 29.03.2018
	G08G 1/04	(33) Germany
(51) G08B 25/00	G08G 1/015	
G08B 13/00	(11) EP3182394	(51) G08G 5/00
G08B 25/10	(21) EP16204615.5	G05D 1/06
(11) EP3989195	(47) 06.12.2023	G05D 1/10
(21) EP21214372.1	(22) 16.12.2016	G01C 23/00
(47) 06.12.2023	(54) CONTROL DEVICE AND CONTROL METHOD FOR MONITORING AND CONTROLLING A TRAFFIC SECTION	G08G 5/02
(22) 14.03.2018	(73) SWARCO Traffic Systems GmbH	(11) EP3799010
(54) SYSTEM AND METHOD FOR AUTOMATICALLY DISARMING AN INTRUSION DETECTION SYSTEM	(72) SINGH, Akshay	(21) EP20196778.3
	JUNGHANS, Ralf	(47) 06.12.2023
(73) Tyco Fire & Security GmbH	(31) 102015122212	(22) 17.09.2020
(72) LIFSHITZ, Shai	(32) 18.12.2015	(54) SYSTEM AND METHOD FOR AIRCRAFT GUIDANCE TO RUNWAY IN CASE OF COMPLETE LOSS OF ENGINE THRUST
RETTIG, Daniel	(33) Germany	(73) Honeywell International Inc.
(31) 201762506804 P	(51) G08G 1/095	(72) GLOMSKI, Bill E.
(32) 16.05.2017	G08G 1/07	BOUANANI, Adib
(33) United States of America	G08G 1/01	SEUSS, Raymond
	G08G 1/085	LAMMERS, Dominic
(51) G08B 25/00	(11) EP3989201	SLOTTER, Thomas
G08B 25/14	(21) EP22157180.5	(31) 202016901943
G08B 5/22	(47) 06.12.2023	201962905727 P
G08B 21/18	(22) 17.02.2022	
G05B 23/02	(54) LIGHT STATE DATA PROCESSING METHOD, APPARATUS AND SYSTEM	
(11) EP3513394		
(21) EP17851344.6		
(47) 06.12.2023		
(87) US2017050516		
22.03.2018		
(22) 07.09.2017		

(32) 15.06.2020 25.09.2019	(33) Korea (Republic)	(54) SOUND-DAMPING SYSTEM
(33) United States of America United States of America	(51) G09G 3/3291	(73) FUJIFILM Corporation
(51) G09B 9/44 G09B 9/00	(11) EP3671713	(72) SUGAWARA, Yoshihiro
(11) EP3783587	(21) EP19206683.5	YAMAZOE, Shogo
(21) EP20192219.2	(47) 06.12.2023	HAKUTA, Shinya
(47) 06.12.2023	(22) 31.10.2019	OHTSU, Akihiko
(22) 21.08.2020	(54) HIGH-EFFICIENCY PIECEWISE LINEAR COLUMN DRIVER WITH ASYNCHRONOUS CONTROL FOR DISPLAYS	(31) 2018012778 2018012664 2017181085 2017131815
(54) SIMULATING AIRCRAFT DATA FOR TACTICS TRAINING	(73) Samsung Display Co., Ltd.	(32) 29.01.2018 29.01.2018 21.09.2017 05.07.2017
(73) The Boeing Company	(72) JOSE, Anup P.	(33) Japan Japan Japan Japan
(72) LECHNER, Rob J	(31) 201916283514 201862784337 P	
(31) 201916547032	(32) 22.02.2019 21.12.2018	
(32) 21.08.2019	(33) United States of America United States of America	
(33) United States of America		
(51) G09G 3/00 G09G 3/3233 G09G 3/36	(51) G10G 5/00	(51) G10K 11/172 B32B 3/12 B64C 1/40 F02K 1/34 B32B 1/00 B32B 3/06 B32B 3/08 B32B 3/26 B64D 33/02
(11) EP3633659	(11) EP3532811	(11) EP3916717
(21) EP18805600.6	(21) EP17874017.1	(21) EP21173044.5
(47) 06.12.2023	(47) 06.12.2023	(47) 06.12.2023
(87) CN2018082897	(87) CA2017051284 31.05.2018	(22) 10.05.2021
29.11.2018	(22) 27.10.2017	(54) HONEYCOMB SOUNDPROOFING STRUCTURE INCLUDING A DIAPHRAGM PROVIDED WITH A TUBE CONFIGURED TO PROCESS DIFFERENT ACOUSTIC FREQUENCIES, METHOD FOR MANUFACTURING SUCH A HONEYCOMB SOUNDPROOFING STRUCTURE, AND ASSOCIATED TOOL
(22) 13.04.2018	(54) APPARATUS FOR CARRYING AND SUPPORTING MUSICAL INSTRUMENTS	(73) AIRBUS OPERATIONS (S.A.S.)
(54) PRESET REVERSE DRIVE METHOD APPLIED IN VIDEO DISPLAYING PROCESS	(73) Lavineway, Sheldon	(72) PORTE, Alain LALANE, Jacques RAVISE, Florian MERCAT, Florent DOBIGEON, Franck
(73) TCL Technology Group Corporation	(72) Lavineway, Sheldon	(31) 2005672 (32) 29.05.2020 (33) France
(72) XIANG, Chaoyu LI, Le QIAN, Lei YANG, Yixing CAO, Weiran	(31) 201662414452 P (32) 28.10.2016 (33) United States of America	
(31) 201710369581	(51) G10K 7/00 B60Q 5/00 B66F 9/24 G10K 9/12 B60R 21/34	
(32) 23.05.2017	(11) EP3668753	
(33) China	(21) EP18762156.0	
(51) G09G 3/3225 G09G 3/20 H10K 59/121 H10K 59/35 H10K 59/123	(47) 06.12.2023	
(11) EP3229224	(87) IE2018000009 21.02.2019	
(21) EP17160272.5	(22) 20.08.2018	
(47) 06.12.2023	(54) A DEVICE FOR OPERATING A SOUNDER TO PRODUCE A PLURALITY OF DIFFERENT SOUNDS, AND A METHOD FOR OPERATING A SOUNDER TO PRODUCE A PLURALITY OF DIFFERENT SOUNDS	
(22) 10.03.2017	(73) Hegarty, David Hegarty, John	
(54) ORGANIC LIGHT EMITTING DISPLAY DEVICE	(72) HEGARTY, John HEGARTY, David QUINLAN, Michael	
(73) LG Display Co., Ltd.	(31) S20170168	
(72) KIM, YuHoon	(32) 18.08.2017	
(31) 20160097304 20160043732	(33) Ireland	
(32) 29.07.2016 08.04.2016	(51) G10K 11/16 F24F 13/24 G10K 11/172 G10K 11/162	
(33) Korea (Republic) Korea (Republic)	(11) EP3651150	
(51) G09G 3/3233	(21) EP18828561.3	
(11) EP3637402	(47) 06.12.2023	
(21) EP19193473.6	(87) JP2018025405 10.01.2019	
(47) 06.12.2023	(22) 04.07.2018	
(22) 23.08.2019		
(54) DISPLAY DEVICE		
(73) LG Display Co., Ltd.		
(72) PARK, JaeHoon KIM, SeonYeong		
(31) 20180121359		
(32) 11.10.2018		

(31) 20170100100 201715649311	G06Q 10/109 G10L 15/08	(22) 17.03.2017 (54) AUDIO PROCESSING FOR TEMPORALLY MISMATCHED SIGNALS
(32) 14.03.2017 13.07.2017	(11) EP3966806 (21) EP20720229.2 (47) 06.12.2023	(73) QUALCOMM Incorporated (72) ATTI, Venkatraman S.
(33) Greece United States of America	(87) US2020024532 12.11.2020	(72) ATTI, Venkatraman S. CHEBIYYAM, Venkata Subrahmanyam Chandra Sekhar SINDER, Daniel Jared
(51) G10L 15/06 G10L 15/07 G10L 15/02	(22) 25.03.2020 (54) MEETING-ADAPTED LANGUAGE MODEL FOR SPEECH RECOGNITION	(31) 201715461356 201662310611 P
(11) EP3479377 (21) EP17821286.6 (47) 06.12.2023 (87) US2017040090 04.01.2018	(73) Microsoft Technology Licensing, LLC (72) AL BAWAB, Ziad DESAI, Anand U. CHANG, Shuangyu AGARWAL, Amit K. ROMOCSA, Zoltan BASOGLU, Christopher H. WOHLGEMUTH, Nathan E.	(32) 16.03.2017 18.03.2016 (33) United States of America United States of America
(22) 29.06.2017 (54) SPEECH RECOGNITION (73) Alibaba Group Holding Limited (72) XUE, Shaofei	(31) 201916531435 201962843481 P (32) 05.08.2019 05.05.2019	(51) G10L 19/008 G10L 19/02 H04S 3/00 (11) EP3874492 (21) EP19878287.2 (47) 06.12.2023 (87) FI2019050704 07.05.2020
(31) 201610509783 (32) 30.06.2016 (33) China	(33) United States of America United States of America	(22) 01.10.2019 (54) DETERMINATION OF SPATIAL AUDIO PARAMETER ENCODING AND ASSOCIATED DECODING
(51) G10L 15/20 G06F 16/632 G10L 15/22	(51) G10L 17/04 G06F 16/00 G06F 21/32 H04W 88/02 G10L 17/08	(73) Nokia Technologies Oy (72) VASILACHE, Adriana LAITINEN, Mikko-Ville
(11) EP3799037 (21) EP20205273.4 (47) 06.12.2023 (22) 03.10.2017 (54) NOISE MITIGATION FOR A VOICE INTERFACE DEVICE	(11) EP3610396 (21) EP18817311.6 (47) 06.12.2023 (87) US2018037591 20.12.2018 (22) 14.06.2018	(31) 201903850 201817807 (32) 21.03.2019 31.10.2018 (33) United Kingdom United Kingdom
(73) Google LLC (72) MIXTER, Kenneth (31) 201615284493 (32) 03.10.2016 (33) United States of America	(54) VOICE IDENTIFICATION FEATURE OPTIMIZATION AND DYNAMIC REGISTRATION METHODS, CLIENT, AND SERVER (73) Alibaba Group Holding Limited (72) LIU, Gang ZHAO, Qingen LIU, Guangxing	(51) G10L 19/008 G10L 19/22 (11) EP3692526 (21) EP18792711.6 (47) 06.12.2023 (87) US2018053788 11.04.2019
(51) G10L 15/22 H04R 3/00 H04R 1/40 H04R 29/00 G10L 21/0208 H04R 27/00 H04S 7/00 G10L 15/08 G10L 21/0216	(31) 201710461578 (32) 16.06.2017 (33) China	(22) 01.10.2018 (54) DECODING OF AUDIO SIGNALS (73) Qualcomm Incorporated (72) CHEBIYYAM, Venkata Subrahmanyam Chandra Sekhar ATTI, Venkatraman
(11) EP3857913 (21) EP19784172.9 (47) 06.12.2023 (87) US2019052654 02.04.2020 (22) 24.09.2019 (54) VOICE DETECTION OPTIMIZATION BASED ON SELECTED VOICE ASSISTANT SERVICE	(31) 201710461578 (32) 16.06.2017 (33) China	(31) 201816147124 201762568713 P (32) 28.09.2018 05.10.2017 (33) United States of America United States of America
(73) Sonos Inc. (72) SOTO, Kurt, Thomas SMITH, Connor, Kristopher SLEITH, Charles, Conor	(54) SPEAKING CLASSIFICATION USING AUDIO-VISUAL DATA (73) Google LLC (72) CHAUDHURI, Sourish KLEJCH, Ondrej ROTH, Joseph Edward	(51) G10L 19/008 G10L 19/22 G10L 21/038 (11) EP3692528 (21) EP18792713.2 (47) 06.12.2023 (87) US2018053799 11.04.2019
(31) 201816141875 (32) 25.09.2018 (33) United States of America	(31) 201816161927 (32) 16.10.2018 (33) United States of America	(22) 01.10.2018 (54) DECODING OF AUDIO SIGNALS (73) Qualcomm Incorporated (72) CHEBIYYAM, Venkata Subrahmanyam Chandra Sekhar ATTI, Venkatraman
(51) G10L 15/26 G10L 15/197 H04L 12/18 H04M 3/42 H04M 3/56 G06F 40/211 G06Q 10/107 G06Q 10/1093	(51) G10L 19/008 G10L 19/002 G10L 19/22 (11) EP3739579 (21) EP20184979.1 (47) 06.12.2023	

<p>(31) 201816147208 201762568719 P (32) 28.09.2018 05.10.2017 (33) United States of America United States of America <hr/>(51) G10L 19/02 (11) EP3373297 (21) EP18162769.6 (47) 06.12.2023 (22) 18.09.2009 (54) DECODING APPARATUS FOR TRANSFORMING BETWEEN MODIFIED DISCRETE COSINE TRANSFORM-BASED CODER AND HETERO CODER (73) Electronics and Telecommunications Research Institute Kwangwoon University Industry- Academic Collaboration Foundation (72) BEACK, Seung Kwon LEE, Tae Jin KIM, Min Je JANG, Dae Young KANG, Kyeongok HONG, Jin Woo PARK, Ho Chong PARK, Young-cheol (31) 20080091697 (32) 18.09.2008 (33) Korea (Republic) <hr/>(51) G10L 21/02 G10L 25/84 G10L 21/0216 (11) EP3757993 (21) EP20180526.4 (47) 06.12.2023 (22) 17.06.2020 (54) PRE-PROCESSING FOR AUTOMATIC SPEECH RECOGNITION (73) Nokia Technologies Oy (72) MÄKINEN, Jorma HÄMÄLÄINEN, Matti PULAKKA, Hannu (31) 201909353 (32) 28.06.2019 (33) United Kingdom <hr/>(51) G11C 7/00 G11C 16/10 G11C 16/04 G11C 16/24 G11C 16/32 G11C 16/08 G11C 16/34 (11) EP3980995 (21) EP19949804.9 (47) 06.12.2023 (87) CN2019112653 29.04.2021 (22) 23.10.2019 (54) METHOD OF PROGRAMMING MEMORY DEVICE AND RELATED MEMORY DEVICE (73) Yangtze Memory Technologies Co., Ltd. (72) WEI, Wenzhe LIU, Hongtao YOU, Kaikai LI, Da</p>	<p>HUANG, Ying WANG, Ming SONG, Yali HUANG, Dejia <hr/>(51) G11C 11/4093 G11C 11/4076 G11C 7/10 (11) EP4086908 (21) EP21778339.8 (47) 06.12.2023 (87) CN2021104892 22.09.2022 (22) 07.07.2021 (54) DATA PROCESSING CIRCUIT, AND DEVICE (73) Changxin Memory Technologies, Inc. (72) CHANG, Liping (31) 202110295118 (32) 19.03.2021 (33) China <hr/>(51) G11C 16/10 G11C 16/34 (11) EP3881322 (21) EP19950848.2 (47) 06.12.2023 (87) CN2019114619 06.05.2021 (22) 31.10.2019 (54) NON-VOLATILE MEMORY DEVICE AND CONTROL METHOD (73) Yangtze Memory Technologies Co., Ltd. (72) JIA, Jianquan YOU, Kaikai CUI, Ying LI, Kaiwei SONG, Yali LI, Shan ZHANG, An <hr/>(51) G11C 29/02 G11C 29/50 G11C 16/34 G06N 3/06 (11) EP3855443 (21) EP21153704.8 (47) 06.12.2023 (22) 27.01.2021 (54) MEMORY CALIBRATION DEVICE, SYSTEM AND METHOD (73) STMicroelectronics International N.V. (72) ROY, Tanmoy GROVER, Anuj (31) 202117157868 202062966447 P (32) 25.01.2021 27.01.2020 (33) United States of America United States of America <hr/>(51) G16B 50/20 G16B 20/20 G16B 30/10 G16B 50/40 G16B 50/50 (11) EP3475863 (21) EP17731144.6 (47) 06.12.2023 (87) EP2017064968 28.12.2017 (22) 19.06.2017</p>	<p>(54) METHODS FOR PROCESSING NEXT-GENERATION SEQUENCING GENOMIC DATA (73) Sophia Genetics S.A. (72) SONG, Lin STEIJGER, Tamara BEHR, Jonas NOVAK, Adam HERNANDEZ, David XU, Zhenyu (31) 201662353095 P (32) 22.06.2016 (33) United States of America <hr/>(51) G16C 20/30 G16C 60/00 G06Q 10/08 (11) EP3716275 (21) EP20155838.4 (47) 06.12.2023 (22) 06.02.2020 (54) SYSTEM AND METHOD FOR MONITORING AND QUALITY EVALUATION OF PERISHABLE FOOD ITEMS (73) Tata Consultancy Services Limited (72) RAI, Beena DUTTA, Jayita DESHPANDE, Parijat KAUSLEY, Shankar Balajirao KARANDE, Shirish Subhash PATWARDHAN, Manasi Samarth DESHMUKH, Shashank Madhukar (31) 201921004783 (32) 06.02.2019 (33) India <hr/>(51) G16C 60/00 G16C 20/30 G16C 20/70 G06F 17/40 G01N 33/00 (11) EP3055802 (21) EP14790923.8 (47) 06.12.2023 (87) US2014060140 16.04.2015 (22) 10.10.2014 (54) METHODS OF SELECTING MATERIAL COMPOSITIONS AND DESIGNING MATERIALS HAVING A TARGET PROPERTY (73) Oerlikon Metco (US) Inc. (72) VECCHIO, Kenneth CHENEY, Justin, Lee (31) 201361917845 P 201361889413 P (32) 18.12.2013 10.10.2013 (33) United States of America United States of America <hr/>(51) G16H 20/10 G16H 40/67 A61M 16/14 A61M 15/00 (11) EP3414687 (21) EP17704709.9 (47) 06.12.2023 (87) EP2017052720 17.08.2017</p>
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(22) 08.02.2017	(21) EP18701246.3	(11) EP3622535
(54) MEDICAL EVALUATION DEVICE	(47) 06.12.2023	(21) EP18798686.4
(73) PARI Pharma GmbH	(87) EP2018050109	(47) 06.12.2023
(72) FUCHS, Carola	12.07.2018	(87) US2018027429
FINKE, Matthias	(22) 03.01.2018	15.11.2018
ESCHRICH, Björn	(54) APPARATUS AND METHOD FOR	(22) 13.04.2018
SCHMIDT, Ronald	TRIGGERING A FALL RISK ALERT TO	(54) ANNULAR NUCLEAR FUEL PELLETS
(31) 16154634	A PERSON	WITH DISCRETE BURNABLE
(32) 08.02.2016	(73) Fraunhofer Portugal Research	ABSORBER PINS
(33) European Patent Office (EPO)	(72) GUIMARÃES, Vânia	(73) Westinghouse Electric Company Llc
(51) G16H 20/17	SILVA, Joana	(72) ENICA, Anghel
G16H 10/65	SOUSA, Inês	VRTISKA, Scott J.
(11) EP3555779	AGUIAR, Bruno	MIDDLEBURGH, Simon C.
(21) EP17811607.5	SOUSA, Filipe	(31) 201715590234
(47) 06.12.2023	ELIAS, Dirk	(32) 09.05.2017
(87) EP2017082310	(31) 17150270	(33) United States of America
21.06.2018	(32) 04.01.2017	(51) G21C 17/112
(22) 12.12.2017	(33) European Patent Office (EPO)	G21C 17/032
(54) DATA MANAGEMENT UNIT FOR	(51) G16H 50/20	(11) EP4123665
SUPPORTING HEALTH CONTROL	A61B 5/00	(21) EP22185829.3
(73) Sanofi	A61B 90/00	(47) 06.12.2023
(72) BERGER, Lars	A61B 10/00	(22) 19.07.2022
PETKOV, Anton	A61L 9/014	(54) SYSTEM FOR DETERMINING POWER
SESTIER, Arnaud	B01D 53/04	GENERATED BY AN ASSEMBLY FOR
TEUCHER, Axel	B01J 20/20	A NUCLEAR REACTOR AND METHOD
KEIL, Artur	(11) EP3687387	FOR DETERMINING THE POWER
ESSER, Mario	(21) EP18860627.1	(73) Commissariat à l'énergie atomique et aux
CIANCITTO, Fabio	(47) 06.12.2023	énergies alternatives
DITTRICH, Marcus-Meinolf	(87) CA2018000008	(72) LATIL, Philippe
(31) 16306674	04.04.2019	(31) 2107899
(32) 13.12.2016	(22) 15.01.2018	(32) 22.07.2021
(33) European Patent Office (EPO)	(54) SYSTEM FOR DETECTING AND	(33) France
(51) G16H 20/17	LOGGING OF FLATULENCE FOR	(51) H01B 7/02
G16H 40/40	HEALTH INDICATION	H01F 5/06
G16H 50/20	(73) Kim, Hong Min	H01F 41/12
G16H 40/67	(72) Kim, Hong Min	H01B 13/14
A61B 5/00	(31) 201715732160	H01B 3/30
(11) EP3401818	(32) 28.09.2017	H01B 3/44
(21) EP18175412.8	(33) United States of America	(11) EP3489970
(47) 06.12.2023	(51) G16H 50/20	(21) EP17831014.0
(22) 12.02.2014	G16H 15/00	(47) 06.12.2023
(54) SYSTEMS AND METHODS FOR	G16H 30/20	(87) JP2017025993
PROCESSING AND TRANSMITTING	G16H 70/20	25.01.2018
SENSOR DATA	(11) EP3362925	(22) 18.07.2017
(73) Dexcom, Inc.	(21) EP16790432.5	(54) INSULATED WIRE, COIL, AND
(72) MILLER, Thomas	(47) 06.12.2023	ELECTRIC OR ELECTRONIC
DERVAES, Mark	(87) IB2016056005	EQUIPMENT
LIEU, Phong	20.04.2017	(73) Essex Furukawa Magnet Wire Japan
SIMPSON, Peter C.	(22) 07.10.2016	Co., Ltd.
LARVENZ, Shawn	(54) SYSTEMS AND METHODS	(72) FUKUDA, Hideo
LEACH, Jacob S.	FOR GENERATING CORRECT	TOMOMATSU, Isao
BÖHM, Sebastian	RADIOLOGICAL RECOMMENDATIONS	OYA, Makoto
(31) 201314142677	(73) Koninklijke Philips N.V.	MUTO, Daisuke
201313827577	(72) TROVATO, Karen Irene	(31) 2016141817
201313830330	QIAN, Yuechen	(32) 19.07.2016
(32) 27.12.2013	MANKOVICH, Gabriel Ryan	(33) Japan
14.03.2013	OLIVEIRA, Lucas de Melo	(51) H01B 7/282
14.03.2013	TELLIS, Ranjith Naveen	(11) EP3648118
(33) United States of America	(31) 201562241238 P	(21) EP19206395.6
United States of America	(32) 14.10.2015	(47) 06.12.2023
United States of America	(33) United States of America	(22) 31.10.2019
(51) G16H 40/63	(51) G21C 3/04	(54) WATER TREE RESISTANT CABLES
G16H 50/30	G21C 7/24	(73) General Cable Technologies Corporation
G16H 50/20	G21C 3/20	(72) LIU, Jianmin
A61B 5/11	C09D 5/32	CULLIGAN, Sean William
G08B 21/04	C08K 3/38	(31) 201816181059
A61B 5/00	C09D 7/61	(32) 05.11.2018
(11) EP3566231	G21C 7/04	(33) United States of America

(51) H01B 13/02	28.10.2016	(32) 29.05.2019
H01B 12/02	(33) United States of America	(33) Germany
B65H 59/34	United States of America	<hr/>
B65H 59/38	(51) H01F 41/02	(51) H01H 9/00
B65H 59/40	H01F 1/057	H01H 39/00
D07B 7/02	B22F 1/00	H01H 9/16
(11) EP3353794	B22F 3/00	(11) EP4150654
(21) EP16849625.5	B22F 3/10	(21) EP21721043.4
(47) 06.12.2023	B22F 3/24	(47) 06.12.2023
(87) US2016053174	C21D 6/00	(87) EP2021060305
30.03.2017	C22C 38/00	18.11.2021
(22) 22.09.2016	(11) EP3534381	(22) 21.04.2021
(54) LINEAR MEDIA HANDLING SYSTEM	(21) EP17864421.7	(54) ELECTRICAL DISCONNECTING
AND DEVICES PRODUCED USING	(47) 06.12.2023	DEVICE, SYSTEM COMPRISING
THE SAME	(87) JP2017039015	A DISCONNECTING DEVICE, AND
(73) Infinity Physics, LLC	03.05.2018	METHOD FOR PRODUCING A
(72) KNIERIM, Glenn Auld	(22) 27.10.2017	DISCONNECTING DEVICE
SPIEKER, Mark	(54) METHOD FOR MANUFACTURING	(73) Auto-Kabel Management GmbH
(31) 201562243966 P	RARE-EARTH PERMANENT MAGNET	(72) BETSCHER, Simon
201562242393 P	(73) IHI Corporation	MOSZYNSKI, Markus
201562221910 P	(72) YONEYAMA, Natsuki	DOHRMANN, Philipp
(32) 20.10.2015	EGUCHI, Haruki	(31) 102020112918
16.10.2015	TOMONO, Hidekazu	(32) 13.05.2020
22.09.2015	NAKANOWATARI, Isao	(33) Germany
(33) United States of America	NAGAO, Keisuke	<hr/>
United States of America	(31) 2016212359	(51) H01H 9/56
United States of America	(32) 28.10.2016	H01H 47/00
<hr/>	(33) Japan	H01H 50/00
(51) H01B 17/38	(51) H01G 11/06	(11) EP3799092
H01B 17/36	H01G 11/62	(21) EP20196415.2
H01B 17/14	H01M 10/36	(47) 06.12.2023
(11) EP3813083	H01M 4/505	(22) 16.09.2020
(21) EP19822168.1	H01M 4/58	(54) SYSTEM AND METHOD FOR
(47) 06.12.2023	H01G 11/60	MINIMIZING ENERGY AVAILABLE TO
(87) CN2019078755	(11) EP3644429	CONTACTS DURING A FAULT
26.12.2019	(21) EP18855508.0	(73) Rockwell Automation Technologies, Inc.
(22) 19.03.2019	(47) 06.12.2023	(72) ELMIGER, David
(54) FLANGE WITH INSULATOR AND	(87) KR2018010866	JAAP, Andrew J.
INSULATING PILLAR	21.03.2019	ADKINS, Kyle B.
(73) Jiangsu Shemar Electric Co., Ltd.	(22) 14.09.2018	LANGER, Randall S.
(72) MA, Bin	(54) AQUEOUS ELECTROLYTE AND	(31) 201916588161
LIU, Chao	ENERGY STORAGE DEVICE	(32) 30.09.2019
FANG, Jiang	COMPRISING THE SAME	(33) United States of America
NI, Guiyan	(73) LG Chem, Ltd.	<hr/>
ZHOU, Shuchen	(72) KWAK, Hoyoung	(51) H01H 13/08
CAI, Xuejun	YOON, Seokhyun	(11) EP4057313
(31) 201820964869 U	LYU, Byunggook	(21) EP22161225.2
(32) 20.06.2018	(31) 20180109843	(47) 06.12.2023
(33) China	20170118856	(22) 10.03.2022
<hr/>	(32) 13.09.2018	(54) INTEGRATED ELECTRONIC SWITCH
(51) H01F 27/36	15.09.2017	AND POWER TOOL
H01F 27/28	(33) Korea (Republic)	(73) Nanjing Chervon Industry Co., Ltd.
H02J 7/02	Korea (Republic)	(72) ZUO, Changwei
H02J 50/12	<hr/>	TONG, Shubin
H02J 50/70	(51) H01H 1/40	CHENG, Yonghui
(11) EP3533074	H01H 37/76	(31) 202210160232
(21) EP17863640.3	H05K 1/18	202210160216
(47) 06.12.2023	H01C 7/12	202110264558
(87) US2017058576	(11) EP3745432	(32) 22.02.2022
03.05.2018	(21) EP20174300.2	22.02.2022
(22) 26.10.2017	(47) 06.12.2023	11.03.2021
(54) INTERFERENCE FILTER FOR	(22) 13.05.2020	(33) China
WIRELESS POWER TRANSFER	(54) OVERLOAD PROTECTION	China
SYSTEMS	ARRANGEMENT	China
(73) Integrated Device Technology, Inc.	(73) Phoenix Contact GmbH & Co. KG	<hr/>
(72) SAAB, Alfredo	(72) Lange, Ralf	(51) H01H 33/66
WILSON, David F.	Berg, Peter	H01H 11/00
(31) 201715793797	Hermann, Daniel	H01H 33/662
201662414575 P	(31) 102019114424	H01H 33/668
(32) 25.10.2017		H01H 1/00
		(11) EP3724906
		(21) EP18889315.0

(47) 06.12.2023	(11) EP3948914	25.02.2021
(87) US2018065483	(21) EP20779249.0	(22) 14.08.2020
20.06.2019	(47) 06.12.2023	(54) FOCAL PLANE DETECTOR
(22) 13.12.2018	(87) IN2020050238	(73) Luxembourg Institute of Science and Technology (LIST)
(54) METHOD FOR RECONDITIONING OF VACUUM INTERRUPTERS	01.10.2020	(72) HOANG, Hung, Quang
(73) Ledbetter, Finley, Lee	(22) 16.03.2020	WIRTZ, Tom
(72) Ledbetter, Finley, Lee	(54) AUTO DIAGNOSTIC SECURITY ALARM SYSTEM	(31) 101359
(31) 201816218166	(73) TVS Motor Company Limited	(32) 16.08.2019
201862711020 P	(72) GANESAN, Ramya	(33) Luxembourg
201862684350 P	KUMAR, Amardeep	(51) H01L 21/02
201762598155 P	(31) 201941011378	C11D 7/26
(32) 12.12.2018	(32) 24.03.2019	C11D 11/00
27.07.2018	(33) India	C11D 17/00
13.06.2018	(51) H01J 43/24	(11) EP3599633
13.12.2017	(11) EP3648139	(21) EP19188071.5
(33) United States of America	(21) EP18824702.7	(47) 06.12.2023
United States of America	(47) 06.12.2023	(22) 24.07.2019
United States of America	(87) JP2018015081	(54) POST ETCH RESIDUE CLEANING COMPOSITIONS AND METHODS OF USING THE SAME
United States of America	03.01.2019	(73) Versum Materials US, LLC
(51) H01H 33/666	(22) 10.04.2018	(72) SUN, Laisheng
H01H 33/66	(54) ELECTRON MULTIPLIER	LEE, Yi-Chia
H02B 13/035	(73) Hamamatsu Photonics K.K.	WANG, Lili
(11) EP3306636	(72) MASUKO Daichi	WU, Aiping
(21) EP16802901.5	HAMANA Yasumasa	(31) 201916457119
(47) 06.12.2023	NISHIMURA Hajime	201862702633 P
(87) JP2016060998	WATANABE Hiroyuki	(32) 28.06.2019
08.12.2016	(31) 2017129419	24.07.2018
(22) 04.04.2016	(32) 30.06.2017	(33) United States of America
(54) VACUUM CIRCUIT BREAKER	(33) Japan	United States of America
(73) Mitsubishi Electric Corporation	(51) H01J 49/00	(51) H01L 21/04
(72) INOUE, Naoaki	(11) EP3335237	H01L 29/66
MAEDA, Taichi	(21) EP16834737.5	(11) EP2546865
KAWANISHI, Katsunori	(47) 06.12.2023	(21) EP12181385.1
(31) 2015114378	(87) IB2016054776	(47) 06.12.2023
(32) 05.06.2015	16.02.2017	(22) 12.09.2006
(33) Japan	(22) 09.08.2016	(54) Methods of processing semiconductor wafers having silicon carbide power devices thereon
(51) H01H 33/70	(54) DECONVOLUTION OF MIXED SPECTRA	(73) Wolfspeed, Inc.
H01H 33/24	(73) DH Technologies Development PTE. Ltd.	(72) Agarwal, Anant
(11) EP3926654	(72) COX, David Michael	Ryu, Sei-Hyung
(21) EP20180415.0	IVOSEV, Gordana	Donofrio, Matt
(47) 06.12.2023	(31) 201562204510 P	(31) 718140 P
(22) 17.06.2020	(32) 13.08.2015	(32) 16.09.2005
(54) CIRCUIT BREAKER WITH FIELD DEFLECTION ELEMENT	(33) United States of America	(33) United States of America
(73) Hitachi Energy Ltd	(51) H01J 49/02	(51) H01L 21/304
(72) Blaszczyk, Andreas	(11) EP3266036	B24B 37/00
Galletti, Bernardo	(21) EP16710879.4	C09K 3/14
Kriegel, Martin	(47) 06.12.2023	B24B 37/04
Seeger, Martin	(87) US2016020340	C09G 1/02
(51) H01H 39/00	15.09.2016	H01L 21/306
F42B 3/00	(22) 02.03.2016	(11) EP3159915
F15B 15/10	(54) SYSTEM AND METHOD FOR CHARACTERIZING IONS USING A SUPERCONDUCTING TRANSMISSION LINE DETECTOR	(21) EP15809896.2
F15B 15/19	(73) Wisconsin Alumini Research Foundation	(47) 06.12.2023
(11) EP4038653	(72) MCDERMOTT, Robert, Francis,III	(87) JP2015002927
(21) EP20797034.4	SUTTLE, Joseph, Robert	23.12.2015
(47) 06.12.2023	(31) 201514640257	(22) 11.06.2015
(87) EP2020077628	(32) 06.03.2015	(54) METHOD FOR POLISHING SILICON WAFER, POLISHING COMPOSITION, AND POLISHING COMPOSITION SET
08.04.2021	(33) United States of America	(73) Fujimi Incorporated
(22) 02.10.2020	(51) H01J 49/02	(72) TSUCHIYA, Kohsuke
(54) QUICK DISCONNECT SWITCH	H01J 43/24	ASADA, Maki
(73) Lell, Peter	(11) EP4014246	(31) 2014125792
(72) Lell, Peter	(21) EP20753783.8	(32) 18.06.2014
(31) 19201212	(47) 06.12.2023	
(32) 02.10.2019	(87) EP2020072898	
(33) European Patent Office (EPO)		
(51) H01H 47/02		
B60R 25/021		

(33) Japan	(51) H01L 21/60	(73) Tencent Technology (Shenzhen) Company Limited
(51) H01L 21/31	H01L 23/495	(72) ZHANG, Wenlong
H01G 4/10	H01L 23/31	YANG, Chuhong
H01L 27/10	(11) EP3703110	ZHANG, Shengyu
H10N 97/00	(21) EP19219969.3	(31) 202011288110
(11) EP4060718	(47) 06.12.2023	(32) 17.11.2020
(21) EP21783125.4	(22) 04.03.2015	(33) China
(47) 06.12.2023	(54) SEMICONDUCTOR DEVICE	
(87) CN2021098877	(73) Rohm Co., Ltd.	(51) H01L 25/075
28.07.2022	(72) HAYASHI, Kenji	H01L 33/00
(22) 08.06.2021	SUZAKI, Akihiro	H01L 33/56
(54) CAPACITOR STRUCTURE	(31) 2014041862	(11) EP3301718
PREPARATION METHOD, CAPACITOR	(32) 04.03.2014	(21) EP17193949.9
STRUCTURE, AND MEMORY	(33) Japan	(47) 06.12.2023
(73) Changxin Memory Technologies, Inc.	(51) H01L 21/67	(22) 29.09.2017
(72) SU, Xingsong	H01L 21/66	(54) METHOD FOR MANUFACTURING
BAI, Weiping	H01L 21/68	LINEAR LIGHT EMITTING DEVICE
YU, Mengkang	H01L 21/683	(73) Nichia Corporation
WANG, Lianhong	(11) EP3460833	(72) HAYASHI, Tadao
(31) 202110075635	(21) EP18202622.9	(31) 2016194501
(32) 20.01.2021	(47) 06.12.2023	(32) 30.09.2016
(33) China	(22) 20.12.2010	(33) Japan
(51) H01L 21/48	(54) HOLDER DEVICE FOR HOLDING	(51) H01L 27/02
H01L 21/56	WAFERS	H02H 9/04
H01L 21/683	(73) EV Group E. Thallner GmbH	(11) EP3788654
H01L 23/14	(72) Wimplinger, Markus	(21) EP19721605.4
H01L 23/498	Wagenleitner, Thomas	(47) 06.12.2023
H01L 23/66	Filbert, Alexander	(87) EP2019061208
H01L 25/065	(51) H01L 21/673	07.11.2019
(11) EP2929560	(11) EP3929969	(22) 02.05.2019
(21) EP13818002.1	(21) EP20181299.7	(54) PROTECTION CIRCUIT AGAINST
(47) 06.12.2023	(47) 06.12.2023	ELECTROSTATIC DISCHARGES
(87) IL2013050962	(22) 22.06.2020	(73) Robert Bosch GmbH
12.06.2014	(54) METHOD FOR MANUFACTURING	(72) GRAF, Michael
(22) 24.11.2013	A PROCESS CONTAINER FOR	SEITZINGER, Timo
(54) AN INTEGRATED ELECTRONIC	SEMICONDUCTOR WORKPIECES AND	LOHMEYER, Henning
DEVICE INCLUDING AN INTERPOSER	PROCESS CONTAINER	RAUH, Julia
STRUCTURE AND A METHOD FOR	(73) Siltronic AG	(31) 102018206896
FABRICATING THE SAME	(72) Lamprecht, Ludwig	(32) 04.05.2018
(73) Elta Systems Ltd.	Franke, Jonny	(33) Germany
(72) MAYDAR, Yaniv	Vogel, Thoralf	(51) H01L 27/146
JOSEPH, Yohai	(51) H01L 23/38	H01L 31/00
(31) 22341412	(11) EP3770957	G01S 17/10
(32) 04.12.2012	(21) EP20189993.7	(11) EP4086962
(33) Israel	(47) 06.12.2023	(21) EP22171581.6
(51) H01L 21/60	(22) 12.06.2018	(47) 06.12.2023
C22C 9/00	(54) THERMOELECTRIC COOLER (TEC)	(22) 04.05.2022
C22C 9/06	FOR SPOT COOLING OF 2.5D/3D IC	(54) OPTICAL SENSING APPARATUS
H01L 23/00	PACKAGES	(73) Artlux Inc.
B23K 35/30	(73) Google LLC	(72) LU, Yen-Cheng
B32B 15/01	(72) BEAUCHEMIN, Melanie	LIU, Yu-Hsuan
(11) EP3136427	IYENGAR, Madhusudan	CHIANG, Jung-Chin
(21) EP15782477.2	MALONE, Christopher	NA, Yun-Chung
(47) 06.12.2023	IMWALLE, Gregory	(31) 202217729393
(87) JP2015062040	(31) 201715696962	202163183664 P
29.10.2015	(32) 06.09.2017	(32) 26.04.2022
(22) 21.04.2015	(33) United States of America	04.05.2021
(54) BONDING WIRE FOR	(51) H01L 23/482	(33) United States of America
SEMICONDUCTOR DEVICE	H01L 23/66	United States of America
(73) NIPPON STEEL Chemical & Material	(11) EP4030468	(51) H01L 31/0224
Co., Ltd.	(21) EP21791237.7	(11) EP4141967
Nippon Micrometal Corporation	(47) 06.12.2023	(21) EP21200324.8
(72) OYAMADA, Tetsuya	(87) CN2021102878	(47) 06.12.2023
UNO, Tomohiro	27.05.2022	(22) 30.09.2021
DEAI, Hiroyuki	(22) 28.06.2021	(54) SOLAR CELL AND SOLAR CELL
(31) 2014087587	(54) METHOD FOR MANUFACTURING AIR	MODULE
(32) 21.04.2014	BRIDGE	(73) Shanghai Jinko Green Energy Enterprise
(33) Japan		Management Co., Ltd.

Zhejiang Jinko Solar Co., Ltd.	B26F 3/12	(51) H01L 33/08
(72) QI, Peidong	(11) EP3676879	H01L 33/18
LI, Tingting	(21) EP18773533.7	H01L 33/38
TAO, Wusong	(47) 06.12.2023	H01S 5/042
LI, Hui	(87) FR2018052113	H01S 5/11
YANG, Chenzhao	07.03.2019	H01S 5/187
(31) 202110996489	(22) 28.08.2018	G03B 21/00
(32) 27.08.2021	(54) METHOD FOR DISASSEMBLING	G03B 21/20
(33) China	A PHOTOVOLTAIC MODULE AND	G03B 33/12
(51) H01L 31/0224	ASSOCIATED INSTALLATION	H01L 33/42
H01L 31/0747	(73) Commissariat à l'Energie Atomique et	H01S 5/20
(11) EP4078683	aux Energies Alternatives	H01S 5/40
(21) EP21793934.7	(72) COUSTIER, Fabrice	H01S 5/42
(47) 06.12.2023	MESSAOUDI, Paul	(11) EP3817072
(87) EP2021078719	SERASSET, Marion	(21) EP20204240.4
28.04.2022	VELET, Nicolas	(47) 06.12.2023
(22) 15.10.2021	(31) 1758010	(22) 28.10.2020
(54) PHOTOVOLTAIC DEVICE AND	(32) 30.08.2017	(54) LIGHT EMITTING DEVICE AND
METHOD FOR MANUFACTURING THE	(33) France	PROJECTOR, OR DISPLAY, WITH THE
SAME	(51) H01L 31/048	SAME
(73) Meyer Burger (Germany) GmbH	H01L 31/0216	(73) Seiko Epson Corporation
(72) LACHENAL, Damien	H02S 30/10	Sophia School Corporation
PAPET, Pierre	(11) EP3951892	(72) JIROKU, Hiroaki
KÖSSLER, Till	(21) EP20931706.4	KISHINO, Katsumi
(31) 20203399	(47) 06.12.2023	(31) 2019195936
(32) 22.10.2020	(87) CN2020095513	(32) 29.10.2019
(33) European Patent Office (EPO)	18.11.2021	(33) Japan
(51) H01L 31/0224	(22) 11.06.2020	(51) H01L 33/50
H01L 31/078	(54) PHOTOVOLTAIC MODULE	(11) EP3667746
H01L 31/068	(73) Ja Solar Technology Yangzhou Co., Ltd.	(21) EP20155097.7
(11) EP4022687	(72) CHEN, Xiaoye	(47) 06.12.2023
(21) EP20807828.7	JIANG, Xiulin	(22) 21.12.2015
(47) 06.12.2023	(31) 202010386450	(54) METHOD FOR MANUFACTURING
(87) FR2020051935	(32) 09.05.2020	A WAVELENGTH CONVERSION
14.05.2021	(33) China	MEMBER
(22) 27.10.2020	(51) H01L 31/048	(73) TOPPAN INC.
(54) METHOD FOR PRODUCING A TUNNEL	H02S 20/00	(72) MIYANAGA, Akiharu
JUNCTION FOR A PHOTOVOLTAIC	(11) EP3872984	KANAUMI, Eiichi
CELL	(21) EP21168979.9	(31) 2014263785
(73) Commissariat à l'énergie atomique et aux	(47) 06.12.2023	(32) 26.12.2014
énergies alternatives	(22) 12.08.2019	(33) Japan
(72) BELLANGER, Pierre	(54) A SOLAR POWER PLANT	(51) H01L 33/50
DUBOIS, Sébastien	(73) Ocean Sun AS	H01S 5/00
SERON, Charles	(72) Bjørneklett, Børge	(11) EP3731286
(31) 1912559	(31) 201813842	(21) EP20170519.1
(32) 08.11.2019	(32) 24.08.2018	(47) 06.12.2023
(33) France	(33) United Kingdom	(22) 21.04.2020
(51) H01L 31/042	(51) H01L 33/00	(54) WAVELENGTH CONVERSION PART,
H01L 31/048	G02B 7/00	METHOD OF MANUFACTURING
H02S 20/10	H01L 25/075	WAVELENGTH CONVERSION PART,
(11) EP4050663	H01L 21/67	AND LIGHT EMITTING DEVICE
(21) EP22169412.8	G02B 27/62	(73) Nichia Corporation
(47) 06.12.2023	(11) EP3867681	(72) YAMASHITA, Toshiaki
(22) 06.07.2018	(21) EP19797435.5	HARA, Akinori
(54) ASSEMBLY AND MOUNTING OF	(47) 06.12.2023	(31) 2019081379
SOLAR CELLS	(87) US2019055523	(32) 22.04.2019
(73) SolAero Technologies Corp., a	23.04.2020	(33) Japan
corporation of the state of Delaware	(22) 10.10.2019	(51) H01L 33/62
(72) WROSCH, Matthew	(54) DISPLAY FABRICATION	H01L 33/54
MCNAUL, Eric	MICROASSEMBLY SYSTEM	H01L 33/48
STERN, Theodore	(73) Meta Platforms Technologies, LLC	H01L 33/52
HERNANDEZ, Fadel	(72) SAKETI, Pooya	H01L 33/60
(51) H01L 31/048	(31) 201916421257	(11) EP3951899
B29B 17/02	201862747245 P	(21) EP21198688.0
H01L 31/18	(32) 23.05.2019	(47) 06.12.2023
B29C 63/00	18.10.2018	(22) 17.12.2008
B32B 43/00	(33) United States of America	(54) LIGHT EMITTING DEVICE
B26D 3/28	United States of America	(73) Seoul Semiconductor Co., Ltd.

(72) Seo, Eun Jung Kim, Bang Hyun Cho, Jae Ho	(31) 2019044522 (32) 12.03.2019 (33) Japan	(47) 06.12.2023 (22) 18.12.2019
(31) 20080114624 (32) 18.11.2008 (33) Korea (Republic)	(51) H01M 4/131 H01M 4/04 H01M 4/36 H01M 4/48 H01M 4/02	(54) LITHIUM BATTERY STRUCTURE AND ELECTRODE LAYER THEREOF (73) Prologium Technology Co., Ltd. Prologium Holding Inc.
(51) H01L 33/64 B41F 23/04 B41J 11/00 H01L 25/075 H01L 33/48	(11) EP3893294 (21) EP21162243.6 (47) 06.12.2023 (22) 12.03.2021	(72) YANG, Szu-Nan (31) 201916677977 (32) 08.11.2019 (33) United States of America
(11) EP3747654 (21) EP19748182.3 (47) 06.12.2023 (87) JP2019002552 08.08.2019 (22) 25.01.2019 (54) LIGHT-IRRADIATING DEVICE AND PRINTING DEVICE	(54) POSITIVE ELECTRODE HAVING EXCELLENT ALKALI RESISTANCE, METHOD OF MANUFACTURING THE SAME, AND METAL-AIR BATTERY AND ELECTROCHEMICAL DEVICE INCLUDING THE POSITIVE ELECTRODE	(51) H01M 4/36 H01M 4/525 H01M 4/62 H01M 10/052 C01G 53/00 C08J 3/20 C08L 33/26 C08L 79/08
(73) Kyocera Corporation (72) TAKUBO, Masami (31) 2018013875 (32) 30.01.2018 (33) Japan	(73) Samsung Electronics Co., Ltd. (72) CHOI, Wonsung CHOI, Kyoungwan KIM, Mokwon LEE, Hyunpyo	(11) EP3933980 (21) EP20788642.5 (47) 06.12.2023 (87) KR2020004936 15.10.2020 (22) 10.04.2020
(51) H01M 4/04 H01M 4/134 H01M 4/36 H01M 4/38 H01M 4/66 H01M 10/0525 H01M 10/0562 H01M 4/02	(31) 20200041707 (32) 06.04.2020 (33) Korea (Republic)	(54) POSITIVE ELECTRODE ACTIVE MATERIAL FOR SECONDARY BATTERY, METHOD OF PREPARING THE SAME, AND LITHIUM SECONDARY BATTERY INCLUDING THE POSITIVE ELECTRODE ACTIVE MATERIAL
(11) EP4009394 (21) EP20306510.7 (47) 06.12.2023 (22) 07.12.2020 (54) ANTI-DENDRITE NEGATIVE ELECTRODES, AND THE ELECTROCHEMICAL CELLS CONTAINING THEM	(51) H01M 4/133 H01M 4/134 H01M 4/36 H01M 4/38 H01M 4/587 H01M 4/62 H01M 10/0525	(73) LG CHEM, LTD. (72) AHN, Dong Joon LIM, Jung Ho YOON, Yeo June
(73) SAFT (72) JORDY, Christian KYLIVNYK, Kostyantyn WATSON, Adam	(11) EP3703162 (21) EP20156916.7 (47) 06.12.2023 (22) 12.02.2020 (54) NEGATIVE ACTIVE MATERIAL COMPOSITE FOR RECHARGEABLE LITHIUM BATTERY, METHOD OF PREPARING THE SAME, NEGATIVE ELECTRODE INCLUDING THE SAME, AND RECHARGEABLE LITHIUM BATTERY INCLUDING THE SAME	(31) 20190042155 (32) 10.04.2019 (33) Korea (Republic)
(51) H01M 4/13 H01M 10/052 H01M 10/0562 H01M 10/0585 H01M 10/0525	(73) Samsung SDI Co., Ltd. (72) KIM, Young-Min SHIN, Changsu AHN, Soonho NAH, Jaehou KIM, Jaemyung	(51) H01M 4/38 H01M 4/134 H01M 4/13 H01M 10/0585 H01M 10/052 H01M 10/04 H01M 50/446 H01M 50/46 H01M 4/02
(11) EP3940818 (21) EP20769860.6 (47) 06.12.2023 (87) JP2020009205 17.09.2020 (22) 04.03.2020 (54) METHOD FOR PRODUCING ALL- SOLID-STATE BATTERY	(31) 20190024134 (32) 28.02.2019 (33) Korea (Republic)	(11) EP4084140 (21) EP22159552.3 (47) 06.12.2023 (22) 13.03.2014 (54) THREE-DIMENSIONAL BATTERIES (73) Enovix Corporation
(73) MITSUBISHI GAS CHEMICAL COMPANY, INC. NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY	(51) H01M 4/134 H01M 4/38 H01M 4/66 H01M 4/70 H01M 4/74 H01M 4/80 H01M 10/052 H01M 10/056 H01M 10/0585 H01M 50/105 H01M 50/121 H01M 50/124	(72) RAMASUBRAMANIAN, Murali ARMSTRONG, Michael BRUSCA, Brian E. DIOUMAEV, Vladimir KOBLMILLER, Gunther LAHIRI, Ashok LAUHLAN, Laurie J. RUST III, Harrold Jones SHAH, Nirav SPOTNITZ, Robert M. WILCOX, James D.
(72) NOGAMI, Genki NOGUCHI, Keita KATORI, Aki YAMASHITA, Naoto MUKAI, Takashi YANAGIDA, Masahiro	(11) EP3819960 (21) EP19217650.1	(31) 201361800235 P (32) 15.03.2013 (33) United States of America
		(51) H01M 4/505

C01G 53/00	BASED ORR CATALYST AND METHOD	(32) 29.02.2020
(11) EP3944375	FOR MAKING THE SAME	(33) Poland
(21) EP20859977.9	(73) The Regents Of The University Of	(51) H01M 8/18
(47) 06.12.2023	Colorado	(11) EP4078707
(87) CN2020112913	(72) WEIMER, Alan W.	(21) EP19835417.7
11.03.2021	MCNEARY, William	(47) 06.12.2023
(22) 01.09.2020	(31) 201862751518 P	(87) EP2019086863
(54) POSITIVE ELECTRODE ACTIVE	(32) 26.10.2018	24.06.2021
MATERIAL, PREPARATION METHOD	(33) United States of America	(22) 20.12.2019
THEREFOR, AND LITHIUM ION	(51) H01M 8/0254	(54) ENVIRONMENTALLY FRIENDLY
SECONDARY BATTERY	H01M 8/0247	ZINC-IRON RECHARGEABLE FLOW
(73) Contemporary Amperex Technology Co.,	H01M 8/0258	BATTERY WITH HIGH ENERGY
Limited	H01M 8/12	DENSITY
(72) DOU, Shushi	(11) EP3748751	(73) GENERBOX S.R.L.
HU, Chunhua	(21) EP18902568.7	(72) ACCOGLI, Alessandra
JIANG, Yao	(47) 06.12.2023	MAGAGNIN, Luca
WU, Qi	(87) JP2018002691	(51) H01M 8/18
HE, Jinhua	01.08.2019	H01M 10/056
DENG, Bin	(22) 29.01.2018	(11) EP4078708
(31) 201910845574	(54) CELL UNIT	(21) EP19835418.5
(32) 02.09.2019	(73) NISSAN MOTOR CO., LTD.	(47) 06.12.2023
(33) China	(72) SATO, Kazuyuki	(87) EP2019086865
(51) H01M 4/62	SUGINO, Manabu	24.06.2021
C08L 101/00	(51) H01M 8/026	(22) 20.12.2019
H01M 4/38	H01M 8/0204	(54) QUASI-SOLID ZINC-IRON REDOX
H01M 4/48	H01M 8/0267	BATTERY
H01M 4/587	H01M 8/0206	(73) GENERBOX S.R.L.
H01M 10/0569	H01M 8/1018	(72) ACCOGLI, Alessandra
H01M 4/133	(11) EP3985766	BERTOLI, Luca
H01M 4/134	(21) EP21202869.0	MAGAGNIN, Luca
H01M 10/0525	(47) 06.12.2023	(51) H01M 10/04
C08L 101/12	(22) 15.10.2021	H01M 10/0587
H01M 4/04	(54) BIPOLAR PLATE OF	H01M 50/103
H01M 4/13	ELECTROCHEMICAL CELL WITH	H01M 50/15
H01M 4/139	REDUCED LOAD LOSSES	H01M 50/171
H01M 4/02	(73) Commissariat à l'énergie atomique et aux	H01M 50/124
(11) EP3876319	énergies alternatives	H01M 50/147
(21) EP20866911.9	(72) POIROT-CROUVEZIER, Jean-Philippe	H01M 10/052
(47) 06.12.2023	(31) 2010729	(11) EP3780211
(87) JP2020039678	(32) 19.10.2020	(21) EP18911589.2
01.07.2021	(33) France	(47) 06.12.2023
(22) 22.10.2020	(51) H01M 8/04082	(87) JP2018013047
(54) NONAQUEOUS SECONDARY	H01M 8/0444	03.10.2019
BATTERY ELECTRODE BINDER	H01M 8/04664	(22) 28.03.2018
AND NONAQUEOUS SECONDARY	H01M 8/04746	(54) SECONDARY BATTERY, BATTERY
BATTERY ELECTRODE	H01M 8/04955	MODULE, VEHICLE AND FLYING
(73) Resonac Corporation	G01J 3/02	OBJECT
(72) KAWAHARA, Yuta	G01J 3/10	(73) KABUSHIKI KAISHA TOSHIBA
KURATA, Tomonori	G01J 3/42	(72) MURASHI, Yasuaki
HANASAKI, Mitsuru	G01J 3/433	MURATA, Masahiro
(31) 2019233083	G01N 21/31	SHINODA, Tatsuya
(32) 24.12.2019	G01N 21/3581	(51) H01M 10/052
(33) Japan	(11) EP4111516	H01M 10/48
(51) H01M 4/86	(21) EP21719707.8	H01M 10/613
H01M 4/88	(47) 06.12.2023	H01M 10/627
H01M 4/92	(87) IB2021051661	H01M 10/635
C23C 16/34	02.09.2021	H01M 10/6554
C23C 16/56	(22) 27.02.2021	H01M 10/6556
C23C 16/455	(54) FLOW-THROUGH PROTECTIVE	(11) EP3996178
H01M 8/10	SYSTEM OF HYDROGEN FUEL	(21) EP22158109.3
(11) EP3870541	RECEIVER AND METHOD OF	(47) 06.12.2023
(21) EP19876661.0	PROTECTION OF HYDROGEN FUEL	(22) 23.02.2022
(47) 06.12.2023	RECEIVER	(54) OPTIMIZATION OF THERMAL
(87) US2019058208	(73) Instytut Wysokich Cisnien Polskiej	MANAGEMENT CONTROL OF
30.04.2020	Akademii Nauk	LITHIUM-ION BATTERY SYSTEM
(22) 25.10.2019	(72) KNAP, Wojciech	(73) Baidu USA LLC
(54) TUNGSTEN METAL/TUNGSTEN	SKOTNICKI, Tomasz	(72) SHAO, Shuai
NITRIDE ENHANCED PLATINUM-	(31) 43308820	GAO, Tianyi

(31) 202117183942	(72) ARADACHI, Takao	H01M 10/6568
(32) 24.02.2021	FUNABASHI, Kazuhiko	(11) EP4109630
(33) United States of America	(31) 2012268854	(21) EP21180924.9
(51) H01M 10/0569	(32) 07.12.2012	(47) 06.12.2023
H01M 10/0567	(33) Japan	(22) 22.06.2021
H01M 10/0525	(51) H01M 10/42	(54) COOLING SYSTEM FOR A BATTERY
H01M 4/525	H01M 10/48	MODULE
H01M 10/0568	H01M 50/271	(73) Volvo Car Corporation
(11) EP3979368	H01M 50/287	(72) FORSSELL, Jonas
(21) EP20815403.9	H01M 50/507	(51) H01M 10/633
(47) 06.12.2023	(11) EP4089787	H01M 10/651
(87) JP2020020067	(21) EP22169992.9	(11) EP3930078
03.12.2020	(47) 06.12.2023	(21) EP21181205.2
(22) 21.05.2020	(22) 26.04.2022	(47) 06.12.2023
(54) NON-AQUEOUS ELECTROLYTE	(54) BUSBAR MODULE	(22) 23.06.2021
SECONDARY BATTERY	(73) Yazaki Corporation	(54) TEMPERATURE CONTROL METHOD
(73) Panasonic Intellectual Property	(72) Matsunaga, Yuta	FOR ENERGY STORAGE SYSTEM,
Management Co., Ltd.	Inoue, Hideki	AND ENERGY MANAGEMENT
(72) ISHIGURO, Tasuku	(31) 2021079411	SYSTEM
NOZAKI, Yasuko	(32) 10.05.2021	(73) Sungrow Power Supply Co., Ltd.
(31) 2019101730	(33) Japan	(72) LIU, Yang
(32) 30.05.2019	(51) H01M 10/44	CAO, Wei
(33) Japan	H01M 10/42	CAI, Zhuang
(51) H01M 10/36	H01M 10/48	LI, Guohong
C01G 23/00	(11) EP4046228	(31) 202010589815
C01G 23/047	(21) EP20788753.0	(32) 24.06.2020
C01G 33/00	(47) 06.12.2023	(33) China
H01M 4/13	(87) EP2020078067	(51) H01M 50/211
H01M 4/131	22.04.2021	B23K 26/21
H01M 4/36	(22) 07.10.2020	B23K 37/04
H01M 4/485	(54) METHOD OF ADAPTING AN ANODE	B23K 31/02
H01M 4/58	OVERVOLTAGE OF A LITHIUM-	B23K 26/244
H01M 4/62	ION BATTERY AND METHOD OF	B23K 26/70
H01M 10/24	IMPROVING A STATE OF HEALTH	(11) EP3305460
H01M 10/26	(SOH) OF THE LITHIUM-ION BATTERY	(21) EP17799535.4
(11) EP3413391	(73) Robert Bosch GmbH	(47) 06.12.2023
(21) EP17708671.7	(72) KROENER, Christoph	(87) KR2017000109
(47) 06.12.2023	(31) 102019216015	23.11.2017
(87) JP2017003666	(32) 17.10.2019	(22) 04.01.2017
10.08.2017	(33) Germany	(54) BATTERY MODULE, METHOD OF
(22) 01.02.2017	(51) H01M 10/613	WELDING ELECTRODE LEADS OF
(54) LITHIUM ION SECONDARY BATTERY,	H01M 10/44	BATTERY CELLS, AND BATTERY PACK
BATTERY MODULE, BATTERY PACK,	H01M 10/651	COMPRISING THE BATTERY MODULE
AND VEHICLE	H01M 10/659	(73) LG Energy Solution, Ltd.
(73) Kabushiki Kaisha Toshiba	(11) EP3596774	(72) JIN, Hee-Jun
(72) TAKAMI, Norio	(21) EP18756964.5	MUN, Jeong-O
YAMASHITA, Yasunobu	(47) 06.12.2023	KIM, Se-Won
MATSUNO, Shinsuke	(87) US2018012874	(31) 20160060685
HARADA, Yasuhiro	30.08.2018	(32) 18.05.2016
INAGAKI, Hiroki	(22) 09.01.2018	(33) Korea (Republic)
(31) 2016184794	(54) THERMAL STATE OF CHARGE	(51) H01M 50/213
2016017249	ESTIMATION OF PHASE CHANGE	H01M 10/42
(32) 21.09.2016	MATERIAL (PCM) IN A BATTERY	H01M 50/24
01.02.2016	PACK WITH A PCM THERMAL	B25F 5/00
(33) Japan	MANAGEMENT SYSTEM	H01M 50/247
Japan	(73) Beam Global	(11) EP3767732
(51) H01M 10/42	(72) AL-HALLAJ, Said	(21) EP20185948.5
H01M 10/44	SALAMEH, Mohamad M.	(47) 06.12.2023
H02J 7/00	KHATEEB RAZACK, Siddique Ali	(22) 15.07.2020
H01M 10/48	SCHWEITZER, Benjamin	(54) RECHARGEABLE BATTERY
(11) EP2929612	WILKE, Stephen	(73) Metabowerke GmbH
(21) EP13814246.8	KRISHNAMURTHY, Mahesh	(72) Stoll, Michael
(47) 06.12.2023	(31) 201762462041 P	Fleischmann, Bernd
(87) JP2013007239	(32) 22.02.2017	(31) 102019119242
12.06.2014	(33) United States of America	(32) 16.07.2019
(22) 09.12.2013	(51) H01M 10/625	(33) Germany
(54) CHARGING DEVICE	H01M 10/647	(51) H01M 50/50
(73) Koki Holdings Co., Ltd.	H01M 10/6556	H01M 50/526

(11) EP3940879	H01P 1/208	HONG, Seongbeom
(21) EP20929038.6	(11) EP3991244	MOON, Kyunghoon
(47) 06.12.2023	(21) EP20832280.0	JEON, Seunggil
(87) CN2020130907	(47) 06.12.2023	HUH, Jaeyoung
07.10.2021	(87) CN2020085411	KIM, Jinsang
(22) 23.11.2020	30.12.2020	PARK, Sungchul
(54) CONNECTION ASSEMBLY, BATTERY	(22) 17.04.2020	(31) 20200014429
MODULE, APPARATUS, AND	(54) RESONATOR APPARATUS, FILTER	(32) 06.02.2020
MANUFACTURING METHOD FOR	APPARATUS AS WELL AS RADIO	(33) Korea (Republic)
CONNECTION ASSEMBLY	FREQUENCY AND MICROWAVE	(51) H01Q 1/24
(73) Jiangsu Contemporary Ampere	DEVICE	H01Q 1/42
Technology Limited	(73) Telefonaktiebolaget LM Ericsson (publ)	H01Q 13/10
(72) YOU, Shubing	(72) WANG, Weidong	H01Q 5/335
(31) 202010241356	FU, Jun	H04M 1/02
(32) 31.03.2020	LIU, Haitao	(11) EP4080681
(33) China	WANG, Honglan	(21) EP22177634.7
(51) H01P 1/208	(31) 201920995821 U	(47) 06.12.2023
H01P 1/209	(32) 28.06.2019	(22) 26.01.2017
(11) EP3477765	(33) China	(54) ANTENNA AND ELECTRONIC DEVICE
(21) EP18199497.1	(51) H01Q 1/12	COMPRISING SAME
(47) 06.12.2023	H01Q 9/30	(73) Samsung Electronics Co., Ltd.
(22) 10.10.2018	H01Q 21/30	(72) LIM, Jae-Ho
(54) KU-BAND MINIATURE WAVEGUIDE	H01Q 5/385	LEE, Kyung-Jong
LOW PASS FILTER	(11) EP3422468	KIM, Hosaeng
(73) Aselsan Elektronik Sanayi ve Ticaret	(21) EP18178811.8	KIM, Seunghwan
Anonim Sirketi	(47) 06.12.2023	(31) 20160049632
(72) YILDIRIM, NEVZAT	(22) 20.06.2018	(32) 22.04.2016
ALICIO LU, BÜLENT	(54) GLASS ANTENNA AND VEHICLE	(33) Korea (Republic)
(31) 201716365	WINDOW GLASS	(51) H01Q 1/27
(32) 24.10.2017	(73) AGC Inc.	G07F 7/08
(33) Türkiye	(72) YAMAMOTO, Tsuyoshi	H04B 5/00
(51) H01P 1/211	KOMATSU, Youhei	H01Q 1/22
H01P 1/20	(31) 2017124820	(11) EP3476003
(11) EP3997754	(32) 27.06.2017	(21) EP17846997.9
(21) EP20758365.9	(33) Japan	(47) 06.12.2023
(47) 06.12.2023	(51) H01Q 1/12	(87) KR2017009494
(87) SE2020050587	H01Q 13/10	08.03.2018
21.01.2021	(11) EP2630690	(22) 30.08.2017
(22) 09.06.2020	(21) EP11774165.2	(54) ANTENNA AND ELECTRONIC DEVICE
(54) WAVEGUIDE FILTERS	(47) 06.12.2023	WITH THE SAME
(73) TELEFONAKTIEBOLAGET LM	(87) US2011056321	(73) Samsung Electronics Co., Ltd.
ERICSSON (PUBL)	26.04.2012	(72) KIM, Ki-Jung
(72) PUCCI, Elena	(22) 14.10.2011	BANG, Jung-Youel
QUEVEDO-TERUEL, Oscar	(54) WINDOW ANTENNA	NOH, Hyung-Bin
MONJE REAL, Alberto	(73) Pittsburgh Glass Works, LLC	PARK, Sung-Won
FONSECA, Nelson	(72) DAI, David	(31) 20170026679
(31) 201962873198 P	(31) 910343	20160111518
(32) 12.07.2019	(32) 22.10.2010	(32) 28.02.2017
(33) United States of America	(33) United States of America	31.08.2016
(51) H01P 5/16	(51) H01Q 1/24	(33) Korea (Republic)
H01P 7/04	H01Q 1/02	Korea (Republic)
H01P 3/06	H01Q 1/40	(51) H01Q 1/32
(11) EP3850701	H01Q 19/09	H01Q 1/36
(21) EP19772958.5	H01Q 21/08	H01Q 1/42
(47) 06.12.2023	H01Q 9/04	H01Q 1/12
(87) US2019050124	H01Q 21/28	(11) EP3093920
19.03.2020	H01Q 1/22	(21) EP15746706.9
(22) 09.09.2019	(11) EP4062490	(47) 06.12.2023
(54) RADIOFREQUENCY POWER	(21) EP21750956.1	(87) JP2015051361
COMBINER OR DIVIDER HAVING A	(47) 06.12.2023	13.08.2015
TRANSMISSION LINE RESONATOR	(87) KR2021001235	(22) 20.01.2015
(73) General Electric Company	12.08.2021	(54) ANTENNA DEVICE
(72) BACKLUND, Andreas	(22) 29.01.2021	(73) Yokowo Co., Ltd
DANCILA, Dragos	(54) ELECTRONIC DEVICE INCLUDING	(72) NAKADA, Noriyoshi
(31) 201816126726	ANTENNA MODULE TO WHICH	UBUKATA, Atsushi
(32) 10.09.2018	DIELECTRIC SHEET IS ATTACHED	(31) 2014023648
(33) United States of America	(73) Samsung Electronics Co., Ltd.	(32) 10.02.2014
(51) H01P 7/10	(72) LEE, Yunbum	(33) Japan

(51) H01Q 1/32	H01R 43/16	(32) 14.12.2018
H01Q 1/36	(11) EP4125156	(33) Japan
H01Q 1/52	(21) EP22187503.2	(51) H01R 13/52
H01Q 21/28	(47) 06.12.2023	H01R 13/506
(11) EP3859885	(22) 28.07.2022	H01R 13/627
(21) EP21153896.2	(54) CONNECTOR	H01R 13/635
(47) 06.12.2023	(73) Yazaki Corporation	H01R 13/58
(22) 28.01.2021	(72) Uki, Kazutaka	(11) EP3809533
(54) VEHICULAR ANTENNA DEVICE	Ueda, Shoya	(21) EP20201513.7
(73) YOKOWO CO., LTD.	(31) 2021124714	(47) 06.12.2023
(72) TERASHITA, Noritaka	(32) 29.07.2021	(22) 13.10.2020
ONO, Motohisa	(33) Japan	(54) ELECTRICAL CONNECTOR
HOSHI, Tomohiro	(51) H01R 13/11	(73) Yazaki Corporation
(31) 2020012765	H01R 12/91	(72) NAGASAKA, Naokazu
(32) 29.01.2020	H01R 12/57	WATAI, Shoichi
(33) Japan	H01R 12/71	TSURUTA, Akihiro
(51) H01Q 1/52	H01R 12/79	OISHI, Masanobu
(11) EP3411922	H01R 13/41	OKAMOTO, Naoki
(21) EP16784492.7	H01R 12/73	SAKAMOTO, Nobuyuki
(47) 06.12.2023	(11) EP4071937	MASUKO, Yoshihito
(87) EP2016075158	(21) EP22157643.2	(31) 2019189369
26.04.2018	(47) 06.12.2023	(32) 16.10.2019
(22) 20.10.2016	(22) 21.02.2022	(33) Japan
(54) INTEGRATED FILTERING FOR	(54) CONNECTOR	(51) H01R 13/523
BAND REJECTION IN AN ANTENNA	(73) Japan Aviation Electronics Industry,	H01R 13/52
ELEMENT	Limited	G02B 6/38
(73) Huawei Technologies Co., Ltd.	(72) KOMOTO, Tetsuya	H01R 13/04
(72) GONZALEZ, Ignacio	KIMURA, Akira	H01R 24/86
BISCONTINI, Bruno	NAKAMURA, Keisuke	(11) EP3676915
KOKKINOS, Titos	(31) 2021065451	(21) EP18852614.9
(51) H01Q 3/08	(32) 07.04.2021	(47) 06.12.2023
H01Q 21/06	(33) Japan	(87) US2018047922
G01F 23/284	(51) H01R 13/187	07.03.2019
G01S 13/88	H01R 43/16	(22) 24.08.2018
H01Q 1/22	B21D 35/00	(54) CONNECTOR FOR SEALABLY
(11) EP3209979	H01R 13/10	ENGAGING AND DISENGAGING
(21) EP14790046.8	(11) EP3639328	CONTACTS
(47) 06.12.2023	(21) EP18733537.7	(73) Pontus Subsea Connectors LLC
(87) EP2014072685	(47) 06.12.2023	(72) CAIRNS, James L.
28.04.2016	(87) EP2018065773	(31) 201762550744 P
(22) 22.10.2014	20.12.2018	(32) 28.08.2017
(54) TOPOLOGY DETERMINATION OF A	(22) 14.06.2018	(33) United States of America
FILLING MATERIAL SURFACE WITH	(54) METHOD FOR PRODUCING A	(51) H01R 13/58
UNIFORM LINE SCANNING	SOCKET CONTACT	H01R 31/06
(73) VEGA Grieshaber KG	(73) Amphenol-Tuchel Electronics GmbH	H01R 27/02
(72) WÄLDE, Steffen	(72) KATZ, Wolfgang	H01R 13/66
WELLE, Roland	STOLZ, Joachim	H01R 13/6595
GRIESSBAUM, Karl	WACKER, Martin	H01R 12/53
FEHRENBACH, Josef	(31) 102017113115	H01R 24/60
(51) H01R 4/34	(32) 14.06.2017	H01R 25/00
H01R 13/74	(33) Germany	(11) EP3618202
H01R 13/52	(51) H01R 13/506	(21) EP17928251.2
H01R 13/405	H01R 13/58	(47) 06.12.2023
H01R 11/12	H01R 13/6581	(87) CN2017105691
H01R 11/05	H01R 24/60	18.04.2019
B60R 16/00	H01R 107/00	(22) 11.10.2017
(11) EP4075605	(11) EP3667834	(54) CONNECTOR CONVERTER
(21) EP22168434.3	(21) EP19202991.6	(73) Guangdong Gopod Group Co., Ltd.
(47) 06.12.2023	(47) 06.12.2023	(72) LIAO, Zhuowen
(22) 14.04.2022	(22) 14.10.2019	(51) H01R 13/627
(54) CONNECTOR	(54) CONNECTOR ASSEMBLY	H01R 13/631
(73) Yazaki Corporation	(73) Japan Aviation Electronics Industry,	H01R 43/26
(72) Nagayama, Masataka	Limited	H01R 13/625
Yamamoto, Yuya	(72) SHIMOMAKI, Yuta	(11) EP3467957
(31) 2021068506	WATANABE, Masahide	(21) EP17195189.0
(32) 14.04.2021	OOSAKA, Junji	(47) 06.12.2023
(33) Japan	IGARASHI, Isao	(22) 06.10.2017
(51) H01R 13/02	(31) 2018234684	

(54) CONNECTING PART, METHOD FOR MATING A FIRST CONNECTING PART AND A SECOND CONNECTING PART AND METHOD FOR UNPLUGGING A FIRST CONNECTING PART FROM A SECOND CONNECTING PART	(32) 17.10.2016 (33) United States of America (51) H01S 5/183 H01S 5/065 H01S 5/34 H01S 5/343 G01J 3/10 G01J 3/42 G01N 21/39	(72) CULPIN, Ed GOMEZ, Thalles ANGERER, Martin
(73) ODU GmbH & Co. KG (72) Seibuchner, Stefan	(11) EP3864727 (21) EP19871239.0 (47) 06.12.2023 (87) US2019055141 16.04.2020 (22) 08.10.2019 (54) ELECTRICALLY PUMPED VERTICAL CAVITY LASER	(51) H02H 5/12 G01R 19/15 H02H 3/04 (11) EP4085501 (21) EP21711831.4 (47) 06.12.2023 (87) EP2021055966 16.09.2021 (22) 10.03.2021 (54) SAFETY CIRCUIT FOR WORKING ON ELECTRICAL SYSTEMS
(73) Dongguan Best Travel Electronics Co., Ltd. (72) Zeng, Guangli Wang, Chengbing (31) 202110372273 202010285974 (32) 07.04.2021 13.04.2020 (33) China China	(73) Thorlabs, Inc. Praevium Research, Inc. (72) JAYARAMAN, Vijaysekhar SEGAL, Stephen LASCOLA, Kevin (31) 201862742637 P (32) 08.10.2018 (33) United States of America	(47) 06.12.2023 (22) 12.04.2021 (54) TELESCOPIC MECHANISM OF EUROPEAN PLUG OF POWER CONVERTER WITH GROUNDING PIN (72) HOLZTRATTNER, Dietmar ALTENBUCHNER, Michael (31) 502102020 (32) 12.03.2020 (33) Austria
(51) H01S 3/00 G02F 1/383 H01S 3/067 H01S 3/16 (11) EP3731352 (21) EP19382313.5 (47) 06.12.2023 (22) 25.04.2019 (54) AN ALL-FIBER CONFIGURATION SYSTEM AND METHOD FOR GENERATING TEMPORALLY COHERENT SUPERCONTINUUM PULSED EMISSION	(51) H02G 1/08 G02B 6/44 G02B 6/50 (11) EP3580822 (21) EP18710161.3 (47) 06.12.2023 (87) NL2018000005 16.08.2018 (22) 08.02.2018 (54) METHOD AND DEVICE FOR CONVERTING A COAXIAL CABLE TO A GLASS-FIBRE CABLE	(51) H02J 3/00 H02J 3/32 (11) EP4022731 (21) EP20760451.3 (47) 06.12.2023 (87) EP2020073416 04.03.2021 (22) 20.08.2020 (54) METHOD FOR OPERATING AN ELECTRICAL STORAGE STATION (73) Wobben Properties GmbH (72) GAMBOA, Daniel ENGELKEN, Sönke AL KHATIB, Aubai (31) 102019123383 (32) 30.08.2019 (33) Germany
(73) Fyla Laser, S.L. (72) PÉREZ MILLÁN, Pere TORRES PEIRÓ, Salvador MUÑOZ MARCO, Héctor	(73) AERIS B.V. (72) KOKKELER, Franciscus Gerhardus Maria HEIBRINK, Jan (31) 1042264 (32) 13.02.2017 (33) Netherlands	(51) H02J 3/26 H02M 7/217 H02M 7/483 H02M 7/797 H02M 1/00 H02M 1/42 H02M 7/219 H02M 7/5387 (11) EP3923437 (21) EP21172446.3 (47) 06.12.2023 (22) 06.05.2021 (54) THREE-PHASE SYSTEM AND DISTRIBUTED CONTROL METHOD THEREOF
(51) H01S 3/04 H01S 3/00 H01S 3/067 G01S 7/481 H01S 3/094 H01S 3/16 H01S 3/042 H01S 3/0941 G01S 17/10 H01S 3/0804 (11) EP3926764 (21) EP21183414.8 (47) 06.12.2023 (22) 16.10.2017 (54) FIBER ENCAPSULATION MECHANISM FOR ENERGY DISSIPATION IN A FIBER AMPLIFYING SYSTEM	(51) H02H 1/00 H02H 3/04 H02H 7/26 H04B 3/54 (11) EP3800753 (21) EP19200763.1 (47) 06.12.2023 (22) 01.10.2019 (54) A SMART SELF-FEEDING FUSE WITH CURRENT DETECTION AND COMMUNICATION	(73) Delta Electronics (Shanghai) Co., Ltd. (72) LIU, Hong XIA, Tao TAO, Yong LU, Cheng (31) 202010523733 (32) 10.06.2020 (33) China
(73) WAYMO LLC (72) FIDRIC, Bernard ROSENFELD, Daniel PARDHAN, Rahim (31) 201615294886	(73) ENERGISA S.A. (72) Celso, Garcia Lellis Junior Ayres, Antonio Paes de Oliveira (51) H02H 3/08 H02H 9/00 H03K 17/08 H03K 17/082 (11) EP3998686 (21) EP21158135.0 (47) 06.12.2023 (22) 19.02.2021 (54) SOLID STATE POWER CONTROLLER	(51) H02J 3/32 H02J 7/02 A47J 31/52 H02J 9/06 A47J 31/44 (11) EP3391493 (21) EP18701139.0

(47) 06.12.2023	(22) 09.10.2015	(11) EP4052350
(87) EP2018051062 26.07.2018	(54) SYSTEM AND METHOD FOR DEEP DISCHARGE PROTECTION OF A BATTERY	(21) EP20808248.7 (47) 06.12.2023
(22) 17.01.2018	(73) Continental Automotive Technologies GmbH	(87) US2020057717 06.05.2021
(54) DRINK PREPARATION MEANS FOR PREPARING HOT DRINKS AND USE THEREOF	(72) Laiu, Cristian Zbagan, Marius-Lucian	(22) 28.10.2020
(73) WMF GmbH	(51) H02J 7/00	(54) UNINTERRUPTIBLE POWER SUPPLY SYSTEM HAVING STRANDED POWER RECOVERY
(72) KIEFER, Alexander STARTZ, Armin	H02J 7/04	(73) Vertiv Corporation
(31) 102017200950	(11) EP3843237	(72) BUSH, Terry D.
(32) 20.01.2017	(21) EP21158640.9	CARNEY, Kevin B.
(33) Germany	(47) 06.12.2023	PANFIL, Peter A.
(51) H02J 3/38	(22) 24.02.2017	(31) 201962926594 P
F04D 25/02	(54) CHARGEABLE DEVICE AND CHARGING METHOD	(32) 28.10.2019
F04D 25/06	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(33) United States of America
F04D 25/08	(72) Zhang, Jialiang	(51) H02J 50/10
H02J 3/40	Tian, Chen	H02J 50/60
(11) EP2309614	Zhang, Jun	(11) EP3965260
(21) EP10187161.4	Chen, Shebiao	(21) EP21195325.2
(47) 06.12.2023	Wan, Shiming	(47) 06.12.2023
(22) 11.10.2010	LI, Jiada	(22) 07.09.2021
(54) Utility-interactive system architecture	(31) PCT/CN2017/073653	(54) DETECTION OF FOREIGN OBJECT AND FRIENDLY METAL
(73) Lennox Industries Inc.	PCT/CN2016/101944	(73) Powermat Technologies Ltd.
(72) Useton, Robert B. Brizendine, Timothy J.	(32) 15.02.2017	(72) SHERMAN, Itay
(31) 641154	12.10.2016	MACH, Elieser
250736 P	(33) World Intellectual Property Office (WIPO)	RAVEH, Guy
(32) 17.12.2009	World Intellectual Property Office (WIPO)	(31) 202117467329
12.10.2009	(51) H02J 7/14	202063075318 P
(33) United States of America	B60L 53/22	(32) 06.09.2021
United States of America	(11) EP3958431	08.09.2020
(51) H02J 3/38	(21) EP21185819.6	(33) United States of America
H01L 31/02	(47) 06.12.2023	United States of America
H02S 40/30	(22) 15.07.2021	(51) H02J 50/12
(11) EP3905465	(54) POWER SUPPLY DEVICE	H02J 50/80
(21) EP19936621.2	(73) Yazaki Corporation	G05F 1/10
(47) 06.12.2023	(72) Maruyama, Akinori	H02J 50/00
(87) CN2019095545	Imoto, Kentaro	H01F 17/00
14.01.2021	(31) 2020138729	H01F 27/36
(22) 11.07.2019	(32) 19.08.2020	H02M 1/14
(54) CONVERTER, METHOD AND SYSTEM APPLIED TO PHOTOVOLTAIC POWER GENERATION SYSTEM	(33) Japan	H01F 27/28
(73) Huawei Digital Power Technologies Co., Ltd.	(51) H02J 7/34	H01F 38/14
(72) GU, Guilei	(11) EP3676933	H01F 5/00
YAO, Xiaofeng	(21) EP18765409.0	(11) EP3692621
(51) H02J 3/38	(47) 06.12.2023	(21) EP18864877.8
H02J 3/14	(87) EP2018073396	(47) 06.12.2023
H02J 3/00	07.03.2019	(87) IL2018051080
H02J 3/46	(22) 30.08.2018	11.04.2019
(11) EP3700043	(54) DEVICE FOR ELECTROPOLISHING AN ENERGY STORAGE DEVICE COMPRISING AT LEAST ONE LITHIUM ION CELL, CHARGER, AND METHOD FOR OPERATING THE CHARGER	(22) 03.10.2018
(21) EP19158749.2	(73) Volkswagen Aktiengesellschaft	(54) WIRELESS POWER RECEIVER HAVING TRANSFER OPTIMIZATION AND METHOD THEREOF
(47) 06.12.2023	Audi AG	(73) Powermat Technologies Ltd.
(22) 22.02.2019	Dr.Ing. H.C. F. Porsche Aktiengesellschaft	(72) SHERMAN, Itay
(54) METHOD OF CONTROLLING A MICROGRID, POWER MANAGEMENT SYSTEM, AND ENERGY MANAGEMENT SYSTEM	(72) LEMKE, Andreas	MACH, Elieser
(73) Hitachi Energy Ltd	HERRMANN, Mirko	SALHUV, Amir
(72) Tuckey, Andrew	(31) 102017215295	(31) 201862648406 P
Baccino, Francesco	(32) 31.08.2017	201762567364 P
(51) H02J 7/00	(33) Germany	(32) 27.03.2018
H02J 7/04	(51) H02J 9/06	03.10.2017
(11) EP3154149	H02J 3/40	(33) United States of America
(21) EP15465549.2	G06F 1/30	United States of America
(47) 06.12.2023	G06F 11/20	(51) H02J 50/40

(47) 06.12.2023	ROTARY ELECTRIC MACHINE, AND	(51) H02K 5/132
(22) 06.08.2020	ROTARY ELECTRIC MACHINE	F04D 13/10
(54) MULTI-LEVEL POWER COMPATIBLE	(73) Odawara Engineering Co., Ltd.	F04D 29/62
WIRELESS POWER RECEIVING	(72) MIYAWAKI Noburo	(11) EP3764518
APPARATUS	(31) 2017255168	(21) EP20185338.9
(73) LG Electronics Inc.	(32) 29.12.2017	(47) 06.12.2023
(72) CHOI, Hyengcheul	(33) Japan	(22) 10.07.2020
LEE, Seong Hun	(51) H02K 3/52	(54) SUBMERSIBLE MOTOR ASSOCIABLE
KWAK, Bongsik	F02B 39/10	WITH A PUMP
(31) 20190111698	H02K 5/22	(73) Pedrollo S.p.a.
(32) 09.09.2019	H02K 19/10	(72) PEDROLLO, Silvano
(33) Korea (Republic)	F02B 33/00	(31) 201900011481
(51) H02K 1/08	H02K 7/18	(32) 11.07.2019
H02K 1/14	(11) EP3378142	(33) Italy
H02K 3/28	(21) EP16797553.1	(51) H02K 5/20
H02K 11/01	(47) 06.12.2023	H02K 5/167
H02K 11/33	(87) EP2016077899	H02K 5/22
(11) EP3363098	26.05.2017	H02K 9/193
(21) EP16779124.3	(22) 16.11.2016	H02K 7/08
(47) 06.12.2023	(54) A STATOR AND BUSBAR ASSEMBLY	H02K 9/197
(87) EP2016074376	FOR AN ELECTRIC SUPERCHARGER	F04D 1/06
20.04.2017	(73) Valeo Air Management UK Limited	F04D 13/06
(22) 11.10.2016	(72) LEBRASSEUR, Patrick	F04D 29/08
(54) ELECTRIC DRIVE	GIRAUD, Franck	F04D 29/58
(73) Lenze Drives GmbH	KNIGHT, Stephen	H02K 7/14
(72) WETTLAUFER, Jan	(31) 201520443	H02K 16/00
BORCHERDING, Holger	(32) 20.11.2015	H02K 21/16
(31) 102015219865	(33) United Kingdom	H02K 21/24
(32) 13.10.2015	(51) H02K 3/52	(11) EP4052358
(33) Germany	H02K 5/15	(21) EP20882691.7
(51) H02K 1/2791	H02K 5/22	(47) 06.12.2023
H02K 15/03	(11) EP3610562	(87) US2020056972
(11) EP3646437	(21) EP18715731.8	06.05.2021
(21) EP18740621.0	(47) 06.12.2023	(22) 23.10.2020
(47) 06.12.2023	(87) EP2018059112	(54) COMPACT, MODULAR, PUMP OR
(87) EP2018069951	18.10.2018	TURBINE WITH INTEGRAL MODULAR
31.01.2019	(22) 10.04.2018	MOTOR OR GENERATOR AND
(22) 23.07.2018	(54) SYNCHRONOUS ELECTRIC MOTOR	COAXIAL FLUID FLOW
(54) PERMANENT MAGNET ROTOR	AND METHOD FOR ASSEMBLING	(73) Flowserve Pte. Ltd.
FOR ELECTRIC MOTOR AND	SAID ELECTRIC MOTOR	(72) JUDGE, Scott C.
CORRESPONDING AIR SUPPLY	(73) Somfy Activites SA	DREISS, Andreas
DEVICE	(72) PEILLEX, Julien	HAVRILLA, Neil
(73) Valeo Equipements Electriques Moteur	BRION, Pierre	OLEXSON, Jr., David
(72) QUITSCH, Cordula	TOLLANCE, Thierry	(31) 201916668665
PAGNARD, Maxime	(31) 1753108	(32) 30.10.2019
BOUGRASSA, Aziz	(32) 10.04.2017	(33) United States of America
BOUGRASSA, Omar	(33) France	(51) H02K 9/20
LABASTE-MAUHE, Laurent	(51) H02K 5/00	H02P 25/22
LORET, Benjamin	H01R 39/38	(11) EP3579402
BRISSET, Anthony	H01R 39/40	(21) EP19187131.8
(31) 1756988	H01R 39/36	(47) 06.12.2023
(32) 24.07.2017	H01R 39/26	(22) 24.02.2015
(33) France	(11) EP4044409	(54) A MULTI-PORT ENERGY STORAGE
(51) H02K 3/28	(21) EP20907924.3	SYSTEM
H02K 15/00	(47) 06.12.2023	(73) Raytheon Company
H02K 15/06	(87) CN2020120222	(72) KUZNETSOV, Stephen
(11) EP3734804	01.07.2021	(31) 201414245754
(21) EP18895547.0	(22) 10.10.2020	(32) 04.04.2014
(47) 06.12.2023	(54) MOTOR BRUSH, MOTOR AND	(33) United States of America
(87) JP2018038842	WASHING MACHINE	(51) H02K 15/00
04.07.2019	(73) Welling (Wuhu) Motor Manufacturing Co.,	(11) EP3806297
(22) 18.10.2018	Ltd.	(21) EP19472002.5
(54) WIRE CONNECTION METHOD FOR	(72) ZHU, Xiaogang	(47) 06.12.2023
ROTARY ELECTRIC MACHINE,	WANG, Junben	(22) 11.10.2019
METHOD FOR MANUFACTURING	TANG, Jianwu	(54) METHOD AND DEVICE FOR TWISTING
ROTARY ELECTRIC MACHINE, WIRE	(31) 201911345695	A WINDING HEAD OF A STATOR
CONNECTION STRUCTURE FOR	(32) 24.12.2019	(73) Ameka Ltd
	(33) China	Vitesco Technologies Germany GmbH

(72) Beyer, Detlef Radtke, Christoph Paligorov, Todor	(32) 03.07.2019 (33) United States of America	(54) Current controlled actuator driver with improved accuracy at low current, method for controlling a current actuator with improved accuracy at low current and a non transitory program storage device to store a program of instructions to perform the method
(51) H02K 41/035 H02K 11/215	(51) H02M 3/338 H02M 7/5383 H02M 1/00	(73) NXP B.V. (72) Büthker, Henricus Dijk, Luc
(11) EP3113324 (21) EP15754850.4 (47) 06.12.2023 (87) KR2015001691 03.09.2015 (22) 23.02.2015 (54) LENS DRIVING MOTOR (73) LG Innotek Co., Ltd. (72) PARK, Sang Ok (31) 20140025518 20140023265 (32) 04.03.2014 27.02.2014 (33) Korea (Republic) Korea (Republic)	(11) EP4064545 (21) EP22161322.7 (47) 06.12.2023 (22) 10.03.2022 (54) OUTPUT STABILIZATION CIRCUIT AND DC/DC CONVERTER CIRCUIT (73) Sumida Corporation (72) Miyazaki, Hiroyuki (31) 2021049647 (32) 24.03.2021 (33) Japan	(31) 201213598976 (32) 30.08.2012 (33) United States of America
(51) H02M 1/08 H03K 17/16 (11) EP3764527 (21) EP18908865.1 (47) 06.12.2023 (87) JP2018008819 12.09.2019 (22) 07.03.2018 (54) SWITCHING DEVICE AND METHOD FOR CONTROLLING SWITCHING DEVICE (73) NISSAN MOTOR CO., LTD. (72) SHIMOMURA, Taku HAYASHI, Tetsuya OKUBO, Akinori SATO, Daiki IWASAKI, Yuichi	(51) H02M 5/458 H02M 7/797 H02M 7/08 H02M 1/00 (11) EP3652849 (21) EP18769066.4 (47) 06.12.2023 (87) EP2018073071 21.03.2019 (22) 28.08.2018 (54) COUPLING BETWEEN CIRCUITS IN DRIVE NETWORKS (73) Siemens Aktiengesellschaft (72) LANGE, Robert STROBELT, Holger (31) 17191088 (32) 14.09.2017 (33) European Patent Office (EPO)	(51) H02P 29/00 B25J 9/16 G05B 19/042 G05B 19/414 H02P 5/00 (11) EP3771089 (21) EP18918816.2 (47) 06.12.2023 (87) JP2018018548 21.11.2019 (22) 14.05.2018 (54) ACTUATOR ASSEMBLY USING A PLURALITY OF SMART SERVO MOTORS (73) Robotshop Japan Co., Ltd. (72) LACROIX, Yves
(51) H02M 3/158 H02M 1/00 H02M 1/32 (11) EP3399633 (21) EP18169396.1 (47) 06.12.2023 (22) 26.04.2018 (54) METHOD AND APPARATUS FOR MULTIPHASE REGULATOR WITH THERMAL ADAPTIVE PHASE ADD/DROP CONTROL (73) Infineon Technologies Austria AG (72) Tang, Benjamim (31) 201715581737 (32) 28.04.2017 (33) United States of America	(51) H02P 13/00 H01H 47/32 (11) EP3343755 (21) EP16207080.9 (47) 06.12.2023 (22) 28.12.2016 (54) ELECTRIC APPLIANCE AND METHOD WITH IMPROVED CONTROL OF RELAY ACTIVATION AND DEACTIVATION (73) Electrolux Appliances Aktiebolag (72) VITALI, Fabio	(51) H02P 29/032 H02P 9/10 H02P 9/00 H02P 23/14 H02P 6/18 H02K 35/02 H02P 25/32 (11) EP3432468 (21) EP18155259.7 (47) 06.12.2023 (22) 06.02.2018 (54) POWER GENERATION SYSTEM (73) KABUSHIKI KAISHA TOSHIBA (72) Oonishi, Atsuro Takahashi, Hiroshi Ueno, Takeshi (31) 2017141699 (32) 21.07.2017 (33) Japan
(51) H02M 3/335 H02M 1/00 (11) EP3761497 (21) EP20181983.6 (47) 06.12.2023 (22) 24.06.2020 (54) METHOD AND SYSTEM FOR CONTROLLING SWITCHING OF A DIRECT CURRENT TO DIRECT CURRENT CONVERTER (73) Deere & Company (72) Fu, Tianjun Wu, Lang Agarwal, Rachit (31) 201916502287	(51) H02P 21/14 H02P 23/14 H02P 21/18 (11) EP3654522 (21) EP19196576.3 (47) 06.12.2023 (22) 28.10.2010 (54) DEMODULATING INDUCTION MOTOR INSTANTANEOUS ROTOR SLOT HARMONIC FREQUENCY (73) Schneider Electric USA, Inc. (72) LEPRETTRE, Benoit COLBY, Roy S. GAO, Zhi TURNER, Larry A	(51) H02S 20/24 H01L 31/048 H02S 30/00 H01L 31/042 H02S 20/00 (11) EP3956978 (21) EP20704103.9 (47) 06.12.2023 (87) NL2020050061 22.10.2020 (22) 04.02.2020 (54) SOLAR PANEL PRODUCT COMPRISING A TAPER (73) Solarge Holding B.V. (72) SELTEN, Wilhelmus Nicolaas Maria ZWEGERS, Stefan Henricus Maria VAN DE VEN, Marcus Leonardus Gerardus Maria DE LEEDE, Gerardus Leonardus Antonius

VAN DEN DONKER, Menno Nicolaas	G01S 7/03	(73) Samsung Electronics Co., Ltd.
VISSCHER, Harm	G01S 7/35	Research & Business Foundation
VAN DEN HEUVEL, Huibert Johan	G01S 7/40	Sungkyunkwan University
VERLAEK, Roeland Leonardus Hubertus Maria	H03L 7/18	(72) JANG, Min
OOMEN, Emmanuel Wilhelmus Johannes Leonardus	G04F 10/00	KIM, Sanghyo
(31) 2022944	G01S 13/34	LEE, Hyunjae
PCT/NL2019/050501	G01S 13/28	JU, Hyosang
(32) 15.04.2019	(11) EP3340468	KIM, Jonghwan
26.07.2019	(21) EP16306797.8	JEONG, Hongsil
(33) Netherlands	(47) 06.12.2023	(31) 20180115862
World Intellectual Property Office (WIPO)	(22) 22.12.2016	(32) 28.09.2018
(51) H03K 17/0814	(54) TDC, DIGITAL SYNTHESIZER, COMMUNICATION UNIT AND METHOD THEREFOR	(33) Korea (Republic)
H03K 17/12	(73) NXP USA, Inc.	(51) H03M 13/13
G01R 31/26	(72) Salle, Didier	H04L 1/00
G01R 31/27	Doaré, Olivier Vincent	(11) EP3567732
(11) EP3709513	Goumballa, Birama	(21) EP18736010.2
(21) EP20158597.3	Pavao Moreira, Cristian	(47) 06.12.2023
(47) 06.12.2023	(51) H03L 7/085	(87) CN2018071887
(22) 20.02.2020	H03K 3/01	12.07.2018
(54) SWITCHING DEVICE AND METHOD FOR OPERATING SAME	H03B 5/12	(22) 09.01.2018
(73) LEONI Bordnetz-Systeme GmbH	H03L 7/099	(54) DATA PROCESSING METHOD AND DEVICE
(72) DELLIT, Marcus	H03L 7/197	(73) ZTE Corporation
KIRSCH, Christoph	H03L 7/081	(72) XIE, Saijin
SCHRAUD, Bernhard	(11) EP3202042	XU, Jun
NEUBERT, Joachim	(21) EP15846271.3	XU, Jin
(31) 102019203508	(47) 06.12.2023	CHEN, Mengzhu
(32) 15.03.2019	(87) US2015053895	(31) 201710080047
(33) Germany	07.04.2016	201710014452
(51) H03K 17/16	(22) 03.10.2015	(32) 15.02.2017
H02M 7/48	(54) 60 GHZ FREQUENCY GENERATOR INCORPORATING THIRD HARMONIC BOOST AND EXTRACTION	09.01.2017
H03K 17/18	(73) Short Circuit Technologies LLC	(33) China
(11) EP3637609	(72) ZONG, Zhirui	China
(21) EP18814107.1	BABAIE, Masoud	(51) H03M 13/37
(47) 06.12.2023	STASZEWSKI, Robert, Bogdan	G06F 11/10
(87) JP2018020262	(31) 201462059415 P	(11) EP3776871
13.12.2018	(32) 03.10.2014	(21) EP19715525.2
(22) 28.05.2018	(33) United States of America	(47) 06.12.2023
(54) INVERTER DEVICE AND ELECTRICALLY DRIVEN DEVICE USING SAME	(51) H03M 3/00	(87) EP2019059119
(73) Hitachi Power Semiconductor Device, Ltd.	H03H 7/01	17.10.2019
(72) ISHIMARU, Tetsuya	H03H 1/02	(22) 10.04.2019
SAKANO, Junichi	(11) EP3648354	(54) ERASURE RECOVERY IN DISTRIBUTED STORAGE SYSTEM
KURITA, Shinichi	(21) EP18203422.3	(73) Institut Mines Telecom
(31) 2017113832	(47) 06.12.2023	(72) BACCOUCH, Hana
(32) 08.06.2017	(22) 30.10.2018	BOUKHATEM, Nadia
(33) Japan	(54) PASSIVE LOW-PASS FILTER SYSTEM FOR PULSE DENSITY DIGITAL-TO-ANALOG CONVERTERS	(31) 1853246
(51) H03K 17/96	(73) Integrated Device Technology, Inc.	(32) 13.04.2018
G06F 3/041	(72) SCHREIBER, Ronald	(33) France
G06F 3/044	(51) H03M 13/13	(51) H04B 1/38
(11) EP3848783	H03M 13/00	G01J 1/02
(21) EP19858045.8	H03M 13/11	G01J 1/28
(47) 06.12.2023	H03M 13/09	H04M 1/03
(87) JP2019012229	H03M 13/29	(11) EP3166229
12.03.2020	(11) EP3859979	(21) EP15815013.6
(22) 22.03.2019	(21) EP19866763.6	(47) 06.12.2023
(54) SENSOR DEVICE, AND CONTROL METHOD AND PROGRAM THEREFOR	(47) 06.12.2023	(87) KR2015000423
(73) Alps Alpine Co., Ltd.	(87) KR2019009096	07.01.2016
(72) YAMADA, Tomoki	02.04.2020	(22) 15.01.2015
(31) 2018167887	(22) 23.07.2019	(54) PROXIMITY ILLUMINANCE SENSOR MODULE AND MOBILE TERMINAL USING SAME
(32) 07.09.2018	(54) DEVICE AND METHOD FOR ENCODING AND DECODING USING POLAR CODE IN WIRELESS COMMUNICATION SYSTEM	(73) LG Electronics Inc.
(33) Japan		(72) LEE, Byunghwa
(51) H03L 7/085		SONG, Hyunsu
		(31) 20140082027
		(32) 01.07.2014
		(33) Korea (Republic)

(51) H04B 1/3883	(31) 201610140777	FOR GEOSTATIONARY SATELLITE
(11) EP3813266	(32) 11.03.2016	COMMUNICATION
(21) EP19205244.7	(33) China	(73) ViaSat, Inc.
(47) 06.12.2023	(51) H04B 7/0456	(72) MILLER, Mark, J.
(22) 25.10.2019	H04B 7/10	TCHORZ, John, C.
(54) COMMUNICATION DEVICE AND	(11) EP3614574	(31) 978549 P
METHOD FOR PROVIDING	(21) EP19186969.2	(32) 09.10.2007
UNINTERRUPTED POWER TO A	(47) 06.12.2023	(33) United States of America
COMMUNICATION DEVICE	(22) 18.07.2019	(51) H04B 7/212
(73) Rohde & Schwarz GmbH & Co. KG	(54) TRANSMITTER GENERATING A	H04B 7/185
(72) WENZEL, Dietmar	ROTATING POLARIZED WAVE	(11) EP4082132
(51) H04B 1/3888	(73) Hitachi, Ltd.	(21) EP20839427.0
H04B 1/3877	(72) TAKEI, Ken	(47) 06.12.2023
A45F 5/10	(31) 2018154458	(87) US2020063228
H04B 1/3827	(32) 21.08.2018	01.07.2021
(11) EP3759826	(33) Japan	(22) 04.12.2020
(21) EP19873059.0	(51) H04B 7/06	(54) OVERLAPPED TDM/TDMA SATELLITE
(47) 06.12.2023	H04B 7/10	RETURN COMMUNICATIONS
(87) CA2019000148	(11) EP3695522	(73) Hughes Network Systems, LLC
23.04.2020	(21) EP17783843.0	(72) RICKER, Douglas
(22) 18.10.2019	(47) 06.12.2023	(31) 201916724723
(54) HOLDING APPARATUS AND METHOD	(87) EP2017076077	(32) 23.12.2019
OF USING SAME FOR USE WITH	18.04.2019	(33) United States of America
PORTABLE ELECTRONIC DEVICE	(22) 12.10.2017	(51) H04B 7/26
(73) Sung, Po Ching	(54) BEAM FORMING FOR	H04W 36/00
(72) Sung, Po Ching	SYNCHRONIZATION SIGNALS	H04W 76/15
(31) 201862747549 P	(73) Telefonaktiebolaget LM Ericsson (PUBL)	H04W 36/02
(32) 18.10.2018	(72) ÅSTRÖM, Magnus	H04W 16/32
(33) United States of America	REIAL, Andres	H04W 36/04
(51) H04B 3/54	SAHLIN, Henrik	(11) EP4170930
H04B 1/74	PETERSSON, Sven	(21) EP22213052.8
(11) EP3618292	(51) H04B 7/06	(47) 06.12.2023
(21) EP18192102.4	H04L 25/02	(22) 26.03.2015
(47) 06.12.2023	(11) EP4038753	(54) METHOD AND APPARATUS
(22) 31.08.2018	(21) EP19784016.8	FOR CARRIER AGGREGATION
(54) SYSTEM AND METHOD FOR	(47) 06.12.2023	COMMUNICATION IN WIRELESS
ESTABLISHING AN INTERVEHICLE	(87) EP2019076792	COMMUNICATION SYSTEM
COMMUNICATION	08.04.2021	(73) Samsung Electronics Co., Ltd.
(73) KNORR-BREMSE Systeme für	(22) 03.10.2019	(72) Kim, Myoungseok
Nutzfahrzeuge GmbH	(54) RECEPTION AND DECODING OF DATA	Huh, Hoon
(72) NÉMETH, Huba	IN A RADIO NETWORK	Lee, Heekwang
KÓNYA, Tamás	(73) TELEFONAKTIEBOLAGET LM	Kwon, Ilwon
SZEMES, Gábor Bence	ERICSSON (PUBL)	Jeon, Jaeho
TÖREKI, Gábor	(72) RAMIREZ-GUTIERREZ, Raymundo	Choi, Jungah
HILLIER, Kristóf	(51) H04B 7/08	(31) 20140053680
POUR, Benedek	(11) EP4091265	201461983712 P
(51) H04B 7/04	(21) EP21700287.2	201461978494 P
H04L 5/00	(47) 06.12.2023	201461970528 P
H04B 7/0456	(87) EP2021050365	(32) 02.05.2014
H04B 7/06	22.07.2021	24.04.2014
H04L 25/02	(22) 11.01.2021	11.04.2014
(11) EP3429092	(54) IMPROVED INTERNAL DATA	26.03.2014
(21) EP17762475.6	TRANSFER IN A MULTIPLE-ANTENNA	(33) Korea (Republic)
(47) 06.12.2023	COMMUNICATION SYSTEM	United States of America
(87) CN2017074976	(73) Sony Group Corporation	United States of America
14.09.2017	(72) RUSEK, Fredrik	United States of America
(22) 27.02.2017	(31) 2050018	(51) H04B 10/116
(54) DATA TRANSMISSION METHOD AND	(32) 14.01.2020	(11) EP4143618
DEVICE	(33) Sweden	(21) EP21719626.0
(73) Datang Mobile Communications	(51) H04B 7/185	(47) 06.12.2023
Equipment Co., Ltd.	(11) EP3726744	(87) EP2021060049
(72) GAO, Qiubin	(21) EP20158030.5	04.11.2021
CHEN, Shanzhi	(47) 06.12.2023	(22) 19.04.2021
CHEN, Wenhong	(22) 09.10.2008	(54) LENS FOR USE IN A DETECTOR
CHEN, Runhua	(54) NON-INTERFERING UTILIZATION	(73) Signify Holding B.V.
LI, Hui	OF NON-GEOSTATIONARY	(72) BOONEKAMP, Erik, Paul
TAMRAKAR, Rakesh	SATELLITE FREQUENCY BAND	(31) 20171915
SUN, Shaohui		(32) 28.04.2020

(33) European Patent Office (EPO)	(54) METHOD AND RADIO BASE STATION FOR HANDLING POWER DISTURBANCE IN THE RADIO BASE STATION	(22) 15.10.2015
(51) H04B 10/54		(54) METHOD AND NETWORK NODE FOR MANAGING HARQ ATTEMPTS PARAMETER FOR D2D LINKS
H04L 27/34		(73) Telefonaktiebolaget LM Ericsson (PUBL)
(11) EP3580862	(73) TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)	(72) WANG, Min
(21) EP18706614.7	(72) ELEFThERiADiS, Lackis	WINBJÖRK, Martin
(47) 06.12.2023	LINDSTRÖM, Daniel	
(87) US2018017374	SHAIKH, Junaid	(51) H04L 1/08
16.08.2018	JIN, Yifei	H04W 28/06
(22) 08.02.2018		H04W 28/02
(54) MODULATION SYSTEMS AND METHODS IN OPTICAL TRANSCEIVERS	(51) H04J 3/06	(11) EP3603173
(73) Acacia Communications, Inc.	(11) EP2944039	(21) EP18790544.3
(72) ZHANG, Hongbin	(21) EP14737882.2	(47) 06.12.2023
AYDINLIK, Mehmet	(47) 06.12.2023	(87) KR2018004772
(31) 201762456411 P	(87) US2014010737	01.11.2018
(32) 08.02.2017	17.07.2014	(22) 25.04.2018
(33) United States of America	(22) 08.01.2014	(54) METHOD AND APPARATUS FOR COMMUNICATION IN WIRELESS COMMUNICATION SYSTEM
(51) H04B 10/564	(54) SYSTEMS AND METHODS FOR TRANSPORTING A CLOCK SIGNAL OVER A NETWORK	(73) Samsung Electronics Co., Ltd.
(11) EP3607675	(73) Aviat Networks, Inc.	(72) JIN, Seungri
(21) EP17904972.1	(72) LICARDIE, Sergio	KIM, Soenghun
(47) 06.12.2023	MARIC, Ivana	KIM, Sangbum
(87) US2017025861	(31) 201361750309 P	KIM, Donggun
11.10.2018	(32) 08.01.2013	JANG, Jaehyuk
(22) 04.04.2017	(33) United States of America	(31) 20170055205
(54) REDUCING SUPPLY VOLTAGES OF OPTICAL TRANSMITTER DEVICES	(51) H04J 13/00	(32) 28.04.2017
(73) Hewlett Packard Enterprise Development LP	(11) EP4064591	(33) Korea (Republic)
(72) HUANG, Tsung Ching	(21) EP22174235.6	(51) H04L 1/16
WU, Rui	(47) 06.12.2023	H04L 1/18
QI, Nan	(22) 22.04.2008	H04L 1/06
SEYEDI, Mir Ashkan	(54) METHOD, APPARATUS AND MOBILE COMMUNICATION SYSTEM OF DETERMINING A SET OF ZERO CORRELATION ZONE LENGTHS	(11) EP3675399
FIORENTINO, Marco	(73) Huawei Technologies Co., Ltd.	(21) EP20157013.2
BEAUSOLEIL, Raymond G	(72) MAURITZ, Oskar	(47) 06.12.2023
(51) H04B 14/00	(31) 200710074200	(22) 28.09.2011
H04B 17/30	(32) 30.04.2007	(54) TRANSMISSION/RECEPTION METHOD AND APPARATUS FOR UPLINK MIMO RETRANSMISSION IN LTE SYSTEM
H04B 7/22	(33) China	(73) Samsung Electronics Co., Ltd.
H04B 10/25	(51) H04L 1/00	(72) HAN, Jin Kyu
H04B 7/185	H04W 72/12	KIM, Youn Sun
H04W 28/20	H04W 76/11	(31) 20100094749
(11) EP3231108	H04W 76/15	(32) 29.09.2010
(21) EP15866548.9	H04W 72/23	(33) Korea (Republic)
(47) 06.12.2023	(11) EP3808144	(51) H04L 1/18
(87) US2015064474	(21) EP19818546.4	(11) EP3488548
16.06.2016	(47) 06.12.2023	(21) EP16916529.7
(22) 08.12.2015	(87) CN2019089385	(47) 06.12.2023
(54) COMMUNICATION METHOD AND SYSTEM THAT USES LOW LATENCY/ LOW DATA BANDWIDTH AND HIGH LATENCY/HIGH DATA BANDWIDTH PATHWAYS	19.12.2019	(87) CN2016099837
(73) Skywave Networks, LLC	(22) 30.05.2019	29.03.2018
(72) BABICH, Kevin	(54) CONFIGURATION OF ULTRA RELIABLE LOW LATENCY COMMUNICATION	(22) 23.09.2016
(31) 201514843391	(73) FG Innovation Company Limited	(54) HYBRID AUTOMATIC REPEAT REQUEST ACKNOWLEDGMENT BUNDLING
201414566851	(72) WEI, Chiahung	(73) Lenovo Innovations Limited (Hong Kong)
(32) 02.09.2015	CHOU, Chieming	(72) YAN, Zhi
11.12.2014	CHEN, Hungchen	YU, Xiaodong
(33) United States of America	(31) 201862685368 P	ZHU, Chenxi
United States of America	(32) 15.06.2018	
(51) H04B 15/02	(33) United States of America	(51) H04L 1/18
(11) EP3854112	(51) H04L 1/08	H04B 7/185
(21) EP18796510.8	H04L 1/18	(11) EP4046308
(47) 06.12.2023	(11) EP3363134	(21) EP20797190.4
(87) SE2018050958	(21) EP15781633.1	(47) 06.12.2023
26.03.2020	(47) 06.12.2023	(87) IB2020059667
(22) 20.09.2018	(87) EP2015073849	22.04.2021
	20.04.2017	(22) 14.10.2020

(54) SYSTEMS AND METHODS FOR RELIABLE MAC CE ACK/NACK CONFIRMATION	(31) 20190122719 (32) 03.10.2019 (33) Korea (Republic)	(47) 06.12.2023 (87) CN2019073747 15.08.2019
(73) Telefonaktiebolaget LM Ericsson (publ)	(51) H04L 5/00	(22) 29.01.2019
(72) MURUGANATHAN, Siva LIN, Xingqin	(11) EP3837794 (21) EP19759803.0	(54) METHOD AND APPARATUS FOR CONFIGURING REFERENCE SIGNAL
(31) 201962915423 P	(47) 06.12.2023	(73) HUAWEI TECHNOLOGIES CO., LTD.
(32) 15.10.2019	(87) US2019046229	(72) LIU, Fengwei
(33) United States of America	20.02.2020	CHEN, Lei
(51) H04L 1/18 H04L 5/00	(22) 12.08.2019	QIU, Jing
(11) EP3602950	(54) HOP-COUNT INDICATION IN WIRELESS SYSTEMS	TANG, Xiaoyong
(21) EP18795031.6	(73) QUALCOMM Incorporated	(31) 201810135167
(47) 06.12.2023	(72) ABEDINI, Navid	(32) 09.02.2018
(87) CN2018084778	LUO, Tao	(33) China
08.11.2018	HAMPEL, Karl Georg	(51) H04L 5/00 H04L 1/16 H04L 1/00
(22) 27.04.2018	LUO, Jianghong	(11) EP3691172
(54) SYSTEMS AND METHODS FOR DOWNLINK CONTROL CHANNEL SIGNALING FOR UPLINK TRANSMISSION	ISLAM, Muhammad Nazmul LI, Junyi	(21) EP20163798.0
(73) Huawei Technologies Co., Ltd.	(31) 201916537313	(47) 06.12.2023
(72) ISLAM, Toufiqul SALEM, Mohamed Adel	201862718289 P	(22) 01.10.2010
(31) 201815960677	(32) 09.08.2019	(54) UPLINK CONTROL DATA TRANSMISSION
201762492685 P	13.08.2018	(73) InterDigital Patent Holdings, Inc.
(32) 24.04.2018	(33) United States of America United States of America	(72) NAYEB NAZAR, Shahrokh
01.05.2017	(51) H04L 5/00	PAN, Kyle, Jung-Lin
(33) United States of America United States of America	(11) EP4042625	OLESEN, Robert L.
(51) H04L 1/1822 H04L 1/1867 H04L 5/00	(21) EP20790086.1	PELLETIER, Ghyslain
(11) EP3860259	(47) 06.12.2023	RUDOLF, Marian
(21) EP19865399.0	(87) SE2020050960	MARINIER, Paul
(47) 06.12.2023	15.04.2021	DENNEAN, Charles A.
(87) CN2019104055	(22) 08.10.2020	DICK, Stephen G.
02.04.2020	(54) METHODS AND APPARATUSES FOR HANDLING CONFIGURED AND DYNAMIC DOWNLINK TRANSMISSIONS IN A WIRELESS COMMUNICATION NETWORK	TSAI, Allan Y.
(22) 02.09.2019	(73) TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)	CAVE, Christopher R.
(54) HARQ PROCESS ID DETERMINATION METHOD, APPARATUS, AND MEDIUM	(72) NIMBALKER, Ajit NORY, Ravikiran	KOO, Chang-Soo
(73) Datang Mobile Communications Equipment Co., Ltd.	(31) 201962914268 P	(31) 37370610 P
(72) MIAO, Jinhua	(32) 11.10.2019	35628110 P
(31) 201811143471	(33) United States of America	35644910 P
(32) 28.09.2018	(51) H04L 5/00	35625010 P
(33) China	(11) EP4009564	35631610 P
(51) H04L 1/1867 H04L 47/11 H04L 47/24 H04W 28/02 H04W 72/02 H04L 1/1812 H04W 92/18	(21) EP21170733.6	32974310 P
(11) EP4022968	(47) 06.12.2023	32049410 P
(21) EP20871972.4	(22) 27.04.2021	32017210 P
(47) 06.12.2023	(54) METHOD FOR ALLOCATING WIRELESS RESOURCES BASED ON SENSITIVITY TO INTER-CELL INTERFERENCE AND APPARATUS THEREOF	30437010 P
(87) KR2020013092	(73) Hon Lin Technology Co., Ltd.	24767909 P
08.04.2021	(72) FAN, Chia-Jung	(32) 13.08.2010
(22) 25.09.2020	HWANG, Chien-Jen	18.06.2010
(54) METHOD AND APPARATUS FOR PERFORMING RETRANSMISSION IN WIRELESS COMMUNICATION SYSTEM	LIN, Ching-Ju	18.06.2010
(73) LG Electronics Inc.	HSIEH, Ping-Jung	18.06.2010
(72) LEE, Youngdae	LEE, Ming-Yu	30.04.2010
PARK, Giwon	(31) 202063121004 P	02.04.2010
SEO, Hanbyul	(32) 03.12.2020	01.04.2010
LEE, Jongyoul	(33) United States of America	12.02.2010
	(51) H04L 5/00	01.10.2009
	H04B 7/14	(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
	H04B 7/06	(51) H04L 5/00 H04L 5/14 H04W 72/04
(11) EP3726766		
(21) EP19751040.7		

(11) EP3836472	(22) 27.04.2018	H04W 84/04
(21) EP20199259.1	(54) UPLINK CONTROL CHANNEL TRANSMISSION METHOD AND DEVICE	H04W 92/04
(47) 06.12.2023	(73) Datang Mobile Communications Equipment Co., Ltd.	(11) EP4097905
(22) 23.09.2015	(72) GAO, Xuejuan	(21) EP21707095.2
(54) TERMINAL DEVICE, NETWORK DEVICE, UPLINK SENDING METHOD, AND UPLINK RECEIVING METHOD	(31) 201710457821	(47) 06.12.2023
(73) Huawei Technologies Co., Ltd.	(32) 16.06.2017	(87) US2021015273
(72) YANG, Xiaodong	(33) China	05.08.2021
ZHANG, Jian	(51) H04L 5/00	(22) 27.01.2021
LYU, Yongxia	H04L 27/26	(54) GAP SWITCH FOR WIRELESS SYSTEMS WITH MULTIPLE PARENTS
QUAN, Wei	H04L 25/02	(73) QUALCOMM INCORPORATED
(51) H04L 5/00	(11) EP3454496	(72) LUO, Jianghong
H04L 27/26	(21) EP17802221.6	ABEDINI, Navid
(11) EP3737057	(47) 06.12.2023	BLESSENT, Luca
(21) EP18898182.3	(87) CN2017086033	AKL, Naeem
(47) 06.12.2023	30.11.2017	LUO, Tao
(87) JP2018000126	(22) 26.05.2017	HAMPEL, Karl Georg
11.07.2019	(54) METHOD AND DEVICE FOR INFORMATION TRANSMISSION	LI, Junyi
(22) 05.01.2018	(73) Huawei Technologies Co., Ltd.	(31) 202117158635
(54) USER TERMINAL AND WIRELESS COMMUNICATION METHOD	(72) ZHANG, Zhaoyang	202062966130 P
(73) NTT DOCOMO, INC.	WANG, Xianbin	(32) 26.01.2021
(72) TAKEDA, Kazuki	ZHANG, Yu	27.01.2020
NAGATA, Satoshi	WU, Yiqun	(33) United States of America
GUO, Shaozhen	(31) 201610368154	United States of America
WANG, Lihui	(32) 27.05.2016	(51) H04L 5/00
HOU, Xiaolin	(33) China	H04W 72/04
(51) H04L 5/00	(51) H04L 5/00	H04W 72/0453
H04L 27/26	H04L 69/04	(11) EP4022818
H04B 7/0452	(11) EP3861661	(21) EP19827800.4
H04W 72/23	(21) EP19786399.6	(47) 06.12.2023
H04L 69/22	(47) 06.12.2023	(87) IB2019001185
(11) EP4164169	(87) IB2019058356	15.04.2021
(21) EP22211592.5	09.04.2020	(22) 07.10.2019
(47) 06.12.2023	(22) 01.10.2019	(54) A METHOD FOR ALLOCATING FREQUENCY RESOURCES IN A WIDEBAND SYSTEM
(22) 04.05.2016	(54) COMPRESSING USER DATA TRANSMITTED BETWEEN A LOWER LAYER SPLIT CENTRAL UNIT AND A RADIO UNIT USING BITMAP REPRESENTATIONS	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(54) DEVICE AND METHOD FOR SIGNALING INFORMATION IN WIRELESS LOCAL AREA NETWORK SYSTEM	(73) Telefonaktiebolaget LM Ericsson (publ)	(72) LIN, Hao
(73) Samsung Electronics Co., Ltd.	(72) ÖSTERLING, Jacob	(51) H04L 5/00
(72) Josiam, Kaushik M.	(31) 201862740701 P	H04W 72/04
Taori, Rakesh	(32) 03.10.2018	H04W 72/12
(31) 201615090602	(33) United States of America	(11) EP3461195
201562216514 P	(51) H04L 5/00	(21) EP16903572.2
201562203457 P	H04W 72/04	(47) 06.12.2023
201562189654 P	H04L 25/02	(87) CN2016084812
201562157344 P	H04L 27/26	07.12.2017
(32) 04.04.2016	(11) EP3952177	(22) 03.06.2016
10.09.2015	(21) EP19927183.4	(54) METHOD AND DEVICE FOR TRANSMITTING DATA
11.08.2015	(47) 06.12.2023	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
07.07.2015	(87) CN2019085383	(72) TANG, Hai
05.05.2015	05.11.2020	(51) H04L 5/00
(33) United States of America	(22) 30.04.2019	H04W 72/0453
United States of America	(54) DMRS CONFIGURATION METHOD, USER EQUIPMENT AND NETWORK DEVICE	(11) EP3783981
United States of America	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(21) EP20201307.4
United States of America	(72) XU, Jing	(47) 06.12.2023
United States of America	LIN, Yanan	(22) 14.09.2017
United States of America	FANG, Yun	(54) ACTIVATION METHOD FOR BANDWIDTH PART AND RELATED PRODUCTS
(51) H04L 5/00	(51) H04L 5/00	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
H04L 27/26	H04W 72/04	(72) LIN, Yanan
H04L 1/1829	H04L 25/02	(51) H04L 5/00
H04L 5/14	H04L 27/26	H04W 72/1268
(11) EP3641200	(11) EP3952177	(11) EP3902177
(21) EP18817516.0		
(47) 06.12.2023		
(87) CN2018084874		
20.12.2018		

<p>(21) EP19914022.9 (47) 06.12.2023 (87) CN2019074719 06.08.2020 (22) 03.02.2019 (54) COMMUNICATIONS METHOD, APPARATUS, AND SYSTEM (73) Huawei Technologies Co., Ltd. (72) SU, Yuwan MI, Xiang TIE, Xiaolei JIN, Zhe</p> <hr/> <p>(51) H04L 5/00 H04W 74/08 H04L 27/00 (11) EP3813453 (21) EP19812141.0 (47) 06.12.2023 (87) CN2019088509 05.12.2019 (22) 27.05.2019 (54) DATA TRANSMISSION METHOD AND COMMUNICATION APPARATUS (73) Huawei Technologies Co., Ltd. (72) JIANG, Chenggang ZHANG, Xingxin YIN, Jiu WANG, Xuehuan (31) 201810556494 (32) 31.05.2018 (33) China</p> <hr/> <p>(51) H04L 5/00 H04W 80/02 (11) EP3858037 (21) EP19789817.4 (47) 06.12.2023 (87) US2019053374 02.04.2020 (22) 27.09.2019 (54) MINIMUM SCHEDULING DELAY SIGNALING (73) QUALCOMM Incorporated (72) ANG, Peter Pui Lok SORIAGA, Joseph Binamira XU, Huilin LEE, Heechoon SANKAR, Hari (31) 201916584833 201962847045 P 201962828220 P 201962791445 P 201862739084 P (32) 26.09.2019 13.05.2019 02.04.2019 11.01.2019 28.09.2018 (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) H04L 7/033 (11) EP2991261 (21) EP15191308.4 (47) 06.12.2023 (22) 10.05.2012</p>	<p>(54) SYNCHRONIZATION DEVICE AND SYNCHRONIZATION METHOD (73) NEC Corporation (72) OGAWA, Takatoshi (31) 2011121461 (32) 31.05.2011 (33) Japan</p> <hr/> <p>(51) H04L 9/00 H04L 9/06 G06N 3/08 G06Q 50/26 H04L 9/08 H04L 9/32 H04L 9/40 G06F 21/30 H04W 12/06 (11) EP3918751 (21) EP20748661.4 (47) 06.12.2023 (87) IB2020000070 06.08.2020 (22) 29.01.2020 (54) SYSTEM AND METHOD FOR PRODUCING A UNIQUE STABLE BIOMETRIC CODE FOR A BIOMETRIC HASH (73) Global Bionic Optics Limited (72) MATHIEU, Gilles (31) 202016775144 201962848463 P 201962799537 P (32) 28.01.2020 15.05.2019 31.01.2019 (33) United States of America United States of America United States of America</p> <hr/> <p>(51) H04L 9/08 H04L 9/32 G06F 21/53 G06F 21/60 G06F 21/62 (11) EP3675415 (21) EP20158813.4 (47) 06.12.2023 (22) 03.02.2017 (54) A METHOD OF CONTROLLING USE OF DATA AND A CRYPTOGRAPHIC DEVICE (73) nCipher Security Limited (72) BYGRAVE, Ian EDGINGTON, Alec KETTLEWELL, Richard O'DOHERTY, David SMITH, Nicholas WALKER, Neil (31) 201602088 (32) 05.02.2016 (33) United Kingdom</p> <hr/> <p>(51) H04L 9/08 H04L 67/10 H04L 67/565 (11) EP3866142 (21) EP19871655.7 (47) 06.12.2023 (87) JP2019039985 16.04.2020 (22) 10.10.2019</p>	<p>(54) SECURE RIGHT SHIFT COMPUTATION SYSTEM, SECURE DIVISION SYSTEM, METHODS THEREFOR, SECURE COMPUTATION APPARATUS, AND PROGRAM (73) NIPPON TELEGRAPH AND TELEPHONE CORPORATION (72) IKARASHI, Dai (31) 2018191830 (32) 10.10.2018 (33) Japan</p> <hr/> <p>(51) H04L 9/32 G06F 21/64 G06Q 20/38 G06Q 20/40 G09C 1/00 H04L 9/08 (11) EP3439232 (21) EP17775446.2 (47) 06.12.2023 (87) JP2017013365 05.10.2017 (22) 30.03.2017 (54) TRANSACTION PROCESSING DEVICE, TRANSACTION PROCESSING METHOD, AND PROGRAM FOR SAME (73) bitFlyer Blockchain, Inc. (72) KANO Yuzo KOMIYAMA Takafumi (31) 2016071342 (32) 31.03.2016 (33) Japan</p> <hr/> <p>(51) H04L 9/32 H04L 9/00 H04L 9/08 H04L 9/14 H04L 9/40 (11) EP3700128 (21) EP18868644.8 (47) 06.12.2023 (87) CN2018084096 25.04.2019 (22) 23.04.2018 (54) IDENTITY AUTHENTICATION METHOD AND SYSTEM, AS WELL AS COMPUTING DEVICE AND STORAGE MEDIUM (73) Crosbil Ltd. (72) ROSCOE, Andrew William CHEN, Bangdao (31) 201710971671 (32) 18.10.2017 (33) China</p> <hr/> <p>(51) H04L 9/32 H04L 9/08 G06Q 50/00 H04L 9/40 H04L 51/52 (11) EP3920465 (21) EP21173129.4 (47) 06.12.2023 (22) 11.10.2011 (54) PRIVATE DATA SHARING SYSTEM (73) Moffat, Brian Lee (72) Moffat, Brian Lee (31) 201113270118 40479410 P PCT/US2011/055417</p>
--	--	---

(32) 10.10.2011	(54) CONTROLLING ACCESS TO	G06F 8/65
08.10.2010	COMPUTER RESOURCES	H04W 12/06
07.10.2011	(73) Palantir Technologies Inc.	H04W 12/10
(33) United States of America	(72) Siavoshy, Babak	G06F 21/44
United States of America	Owens, Kyle	G06F 21/45
World Intellectual Property Office (WIPO)	Edwards, Nathaniel	G06F 8/654
(51) H04L 9/32	(31) 201862652198 P	(11) EP3318448
H04L 9/40	(32) 03.04.2018	(21) EP16817720.2
H04W 12/06	(33) United States of America	(47) 06.12.2023
(11) EP3840290	(51) H04L 9/40	(87) JP2016067714
(21) EP21151197.7	H04J 3/06	05.01.2017
(47) 06.12.2023	H04L 43/0852	(22) 15.06.2016
(22) 13.04.2011	H04L 47/283	(54) VEHICLE DATA REWRITE CONTROL
(54) SECURE AND EFFICIENT LOGIN AND	(11) EP4078921	DEVICE AND VEHICLE DATA REWRITE
TRANSACTION AUTHENTICATION	(21) EP20835748.3	AUTHENTICATION SYSTEM
USING IPHONES AND OTHER SMART	(47) 06.12.2023	(73) Hitachi Astemo, Ltd.
MOBILE COMMUNICATION DEVICES	(87) EP2020086467	(72) NAKAMURA, Masaaki
(73) Payfone, Inc.	24.06.2021	NAKANISHI, Kazuhiro
(72) GANESAN, Ravi	(22) 16.12.2020	(31) 2015130560
(31) 201113081067	(54) METHOD FOR SECURING THE	(32) 30.06.2015
32772310 P	TIME SYNCHRONIZATION OF AN	(33) Japan
(32) 06.04.2011	ETHERNET ON-BOARD NETWORK	(51) H04L 12/10
26.04.2010	(73) Continental Automotive Technologies	(11) EP3913855
(33) United States of America	GmbH	(21) EP21172554.4
United States of America	(72) ZINNER, Helge	(47) 06.12.2023
(51) H04L 9/40	(31) 102019220096	(22) 06.05.2021
(11) EP3886366	(32) 18.12.2019	(54) COMMUNICATION ON TWO POWER
(21) EP21156711.0	(33) Germany	SUPPLY CHANNELS
(47) 06.12.2023	(51) H04L 9/40	(73) Baker Hughes Oilfield Operations LLC
(22) 30.10.2015	H04L 45/74	(72) ASLAMI, Farid
(54) IPSEC ACCELERATION METHOD,	H04L 61/4511	FRIEDEMANN, Reinhard
APPARATUS, AND SYSTEM	(11) EP3637739	(31) 202016881416
(73) Huawei Technologies Co., Ltd.	(21) EP19202773.8	(32) 22.05.2020
(72) XIE, Yuming	(47) 06.12.2023	(33) United States of America
HU, Xinyu	(22) 11.10.2019	(51) H04L 12/28
ZHAO, Yuping	(54) METHOD FOR VALIDATING	B60C 23/04
YANG, Fan	OWNERSHIP OF A DOMAIN NAME,	H04W 4/44
(31) 201510059986	COORDINATING AGENT AND	H04L 9/40
(32) 05.02.2015	VALIDATION AGENT	(11) EP3896914
(33) China	(73) Fraunhofer-Gesellschaft zur Förderung	(21) EP18942999.6
(51) H04L 9/40	der angewandten Forschung e.V.	(47) 06.12.2023
G06F 21/30	(72) SHULMAN, Haya	(87) JP2018045868
G06F 8/65	WAIDNER, Michael	18.06.2020
G06F 21/33	BRANDT, Markus	(22) 13.12.2018
G06F 21/44	(31) 18200254	(54) TRANSMITTER
H04L 9/06	(32) 12.10.2018	(73) Pacific Industrial Co., Ltd.
H04L 9/08	(33) European Patent Office (EPO)	(72) TSUJITA Yasuhisa
H04L 9/32	(51) H04L 9/40	(51) H04L 25/02
(11) EP4062301	H04W 12/02	H04L 5/02
(21) EP20889816.3	(11) EP3991381	H01P 5/10
(47) 06.12.2023	(21) EP20733288.3	(11) EP3520341
(87) US2020055347	(47) 06.12.2023	(21) EP17857608.8
27.05.2021	(87) EP2020067021	(47) 06.12.2023
(22) 13.10.2020	30.12.2020	(87) US2017054687
(54) AUTHENTICATING A DEVICE USING A	(22) 18.06.2020	05.04.2018
REMOTE HOST	(54) METHOD AND SYSTEM FOR	(22) 02.10.2017
(73) MICRON TECHNOLOGY, INC.	GENERATING ENCRYPTION KEYS	(54) DIGITAL-UNIT INTERFACE
(72) DUVAL, Olivier	FOR TRANSACTION OR CONNECTION	(73) Stoneham, Edward B.
(31) 201916688848	DATA	(72) Stoneham, Edward B.
(32) 19.11.2019	(73) Thales Dis France SAS	(31) 201662402362 P
(33) United States of America	(72) NOUAILLE, Maxime	(32) 30.09.2016
(51) H04L 9/40	KARLISCH, Thierry	(33) United States of America
G06F 21/45	(31) 19305842	(51) H04L 27/26
G06F 21/62	(32) 25.06.2019	H04B 1/00
(11) EP3550791	(33) European Patent Office (EPO)	(11) EP3549315
(21) EP18180766.0	(51) H04L 9/40	(21) EP17875622.7
(47) 06.12.2023	H04W 12/30	(47) 06.12.2023
(22) 29.06.2018	H04L 67/00	(87) US2017049160

07.06.2018	(21) EP19741631.6	(54) DOWNLINK MESSAGE SENDING METHOD AND APPARATUS AND DOWNLINK MESSAGE FORWARDING METHOD AND APPARATUS
(22) 29.08.2017	(47) 06.12.2023	(73) HUAWEI TECHNOLOGIES CO., LTD.
(54) WIRELESS DEVICES AND SYSTEMS INCLUDING EXAMPLES OF MIXING INPUT DATA WITH COEFFICIENT DATA	(87) CN2019071855	(72) SHEN, Li
(73) Micron Technology, Inc.	(22) 25.07.2019	HU, Yinliang
(72) CHRITZ, Jeremy	(54) METHOD AND DEVICE FOR UPGRADING DRIVER	CHEN, Peng
SCHMITZ, Tamara	(73) HUAWEI TECHNOLOGIES CO., LTD.	FAN, Duoliang
LUO, Fa-Long	(72) GUO, Yong	ZHANG, Jingmin
CUMMINS, Jamie	(31) 201810045407	(31) 201811308475
(31) 201615365326	(32) 17.01.2018	(32) 05.11.2018
(32) 30.11.2016	(33) China	(33) China
(33) United States of America	(51) H04L 41/12	
(51) H04L 27/26	H04W 76/10	(51) H04L 45/122
H04J 1/00	H04W 88/04	H04L 45/128
H04L 27/01	H04W 92/20	H04L 45/12
H04W 72/04	(11) EP3834492	(11) EP3868062
H04L 5/00	(21) EP19748840.6	(21) EP18786333.7
(11) EP3413528	(47) 06.12.2023	(47) 06.12.2023
(21) EP17747467.3	(87) EP2019071294	(87) EP2018078025
(47) 06.12.2023	13.02.2020	23.04.2020
(87) JP2017003630	(22) 08.08.2019	(22) 15.10.2018
10.08.2017	(54) UE ASSISTED WIRELESS BACKHAUL LINK ESTABLISHMENT	(54) METHODS AND APPARATUS FOR TRANSMITTING DATA OVER MULTIPLE PATHS IN A NETWORK
(22) 01.02.2017	(73) IPCom GmbH & Co. KG	(73) Telefonaktiebolaget LM Ericsson (publ)
(54) TERMINAL DEVICE AND COMMUNICATION METHOD	(72) SCHMIDT, Andreas	(72) FIASCHI, Giovanni
(73) Sharp Kabushiki Kaisha	LUFT, Achim	CALABRESE, Francesco Davide
(72) HAYASHI, Takashi	BIENAS, Maik	CECCARELLI, Daniele
OUCHI, Wataru	HANS, Martin	
AIBA, Tatsushi	(31) 18188486	(51) H04L 45/24
SUZUKI, Shoichi	(32) 10.08.2018	H04L 45/00
(31) 2016019537	(33) European Patent Office (EPO)	H04L 47/125
(32) 04.02.2016	(51) H04L 41/50	H04L 49/109
(33) Japan	H04L 43/12	H04L 49/35
(51) H04L 27/26	H04L 43/0829	H04L 49/00
H04J 11/00	H04L 12/18	H04L 101/365
H04L 5/00	H04L 43/045	(11) EP3977707
H04L 25/02	H04L 43/18	(21) EP20724377.5
(11) EP3809652	H04L 41/5009	(47) 06.12.2023
(21) EP19202962.7	(11) EP3300306	(87) US2020029169
(47) 06.12.2023	(21) EP17193247.8	03.12.2020
(22) 14.10.2019	(47) 06.12.2023	(22) 21.04.2020
(54) WIRELESS COMMUNICATION DEVICE AND CORRESPONDING APPARATUS, METHOD AND COMPUTER PROGRAM	(22) 26.09.2017	(54) HARDWARE LOAD BALANCER GATEWAY ON COMMODITY SWITCH HARDWARE
(73) Volkswagen AG	(54) VIDEO DELIVERY PERFORMANCE ANALYSIS FOR EMBMS	(73) Microsoft Technology Licensing, LLC
(72) PFADLER, Andreas	(73) NetScout Systems, Inc.	(72) YUAN, Lihua
STANCZAK, Slawomir	(72) BARRETT, Paul	NANDOORI, Ashok Kumar
JUNG, Peter	KESHAVAMURTHY, Niranjan	MANI, Pradeepkumar
(51) H04L 27/38	(31) 201715439558	(31) 201916428243
(11) EP3297240	201662400441 P	(32) 31.05.2019
(21) EP16795722.4	(32) 22.02.2017	(33) United States of America
(47) 06.12.2023	27.09.2016	(51) H04L 45/74
(87) CN2016076281	(33) United States of America	H04L 41/142
24.11.2016	United States of America	H04L 41/147
(22) 14.03.2016	(51) H04L 45/00	H04L 43/0811
(54) PHASE AMBIGUITY PROCESSING METHOD AND DEVICE FOR QUADRATURE AMPLITUDE MODULATION SIGNAL	H04L 45/74	H04L 43/10
(73) ZTE Corporation	H04L 47/62	H04L 43/0876
(72) FEI, Aimei	H04L 47/6275	G06F 12/0875
(31) 201510247479	H04L 49/00	(11) EP4136809
(32) 15.05.2015	H04L 61/103	(21) EP21721724.9
(33) China	H04L 101/622	(47) 06.12.2023
(51) H04L 41/082	(11) EP3734917	(87) US2021025694
H04L 41/0895	(21) EP19882510.1	21.10.2021
(11) EP3734910	(47) 06.12.2023	(22) 05.04.2021
	(87) CN2019112793	(54) DISTRIBUTED FLOW PROCESSING AND FLOW CACHE
	14.05.2020	(73) Microsoft Technology Licensing, LLC
	(22) 23.10.2019	

<p>(72) CIRACI, Selim AGARWAL, Shekhar OUTHRED, Geoffrey</p> <p>(31) 202016987310 202063012018 P</p> <p>(32) 06.08.2020 17.04.2020</p> <p>(33) United States of America United States of America</p> <hr/> <p>(51) H04L 45/74 H04L 45/021 H04L 45/02 H04L 49/90 G06F 3/06</p> <p>(11) EP3720067 (21) EP19872140.9 (47) 06.12.2023 (87) CN2019110054 16.04.2020</p> <p>(22) 09.10.2019</p> <p>(54) METHOD AND APPARATUS FOR UPDATING FORWARDING ENTRY</p> <p>(73) HUAWEI TECHNOLOGIES CO., LTD.</p> <p>(72) TONG, Xing GAO, Hongliang</p> <p>(31) 201811172338 (32) 09.10.2018 (33) China</p> <hr/> <p>(51) H04L 45/74 H04L 67/51</p> <p>(11) EP3753232 (21) EP19705585.8 (47) 06.12.2023 (87) IN2019050065 22.08.2019</p> <p>(22) 29.01.2019</p> <p>(54) CLOUD ACCESS TO LOCAL NETWORK ADDRESSES</p> <p>(73) Dish Network Technologies India Pvt. Ltd.</p> <p>(72) RAMARAJ, Jayaprakash Narayanan NAYAK, Suhas JOJO, Joyce RANGANATHAN, Gopikumar</p> <p>(31) 201841005338 201816005517 (32) 13.02.2018 11.06.2018</p> <p>(33) India United States of America</p> <hr/> <p>(51) H04L 47/125 H04W 28/088 H04W 24/08</p> <p>(11) EP3420748 (21) EP17756941.5 (47) 06.12.2023 (87) US2017012740 31.08.2017</p> <p>(22) 09.01.2017</p> <p>(54) METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR DISTRIBUTING MONITORED NETWORK TRAFFIC</p> <p>(73) Keysight Technologies Singapore (Sales) Pte.Ltd.</p> <p>(72) RAJ, Avinash Raj Nambi SCHWENK, Alan Richard CHIRIACESCU, Gabriel</p>	<p>(31) 201615052812 (32) 24.02.2016 (33) United States of America</p> <hr/> <p>(51) H04L 47/27 H04N 21/647 H04N 21/6373</p> <p>(11) EP3777218 (21) EP19709758.7 (47) 06.12.2023 (87) EP2019056594 03.10.2019</p> <p>(22) 15.03.2019</p> <p>(54) CONGESTION RESPONSE FOR TIMELY MEDIA DELIVERY</p> <p>(73) British Telecommunications public limited company</p> <p>(72) NILSSON, Michael APPLEBY, Stephen HUMEIDA, Yousif</p> <p>(31) 18164295 (32) 27.03.2018 (33) European Patent Office (EPO)</p> <hr/> <p>(51) H04L 47/62 H04L 49/901</p> <p>(11) EP3461086 (21) EP18156546.6 (47) 06.12.2023 (22) 13.02.2018</p> <p>(54) COMMUNICATION APPARATUS, COMMUNICATION METHOD AND COMPUTER-READABLE MEDIUM</p> <p>(73) KABUSHIKI KAISHA TOSHIBA (72) YAMAURA, Takahiro KOBAYASHI, Yuta</p> <p>(31) 2017180860 (32) 21.09.2017 (33) Japan</p> <hr/> <p>(51) H04L 51/18 H04L 51/046 H04L 51/52</p> <p>(11) EP3659300 (21) EP18731703.7 (47) 06.12.2023 (87) US2018034817 31.01.2019</p> <p>(22) 29.05.2018</p> <p>(54) ACTION TEMPLATES IN A MESSAGING SYSTEM</p> <p>(73) Microsoft Technology Licensing, LLC (72) SINGH, Harshvardhan RAJAPPA, Arun TEWARI, Jayawant BEHERA, Abhisek Kumar GUPTA, Prashant SETH, Apoorv</p> <p>(31) 201741026149 201715695748 (32) 24.07.2017 05.09.2017</p> <p>(33) India United States of America</p> <hr/> <p>(51) H04L 61/2596 (11) EP4035343 (21) EP20792794.8 (47) 06.12.2023 (87) US2020052716 01.04.2021</p> <p>(22) 25.09.2020</p>	<p>(54) ADDRESS TRANSLATION FOR MULTI- LINK OPERATION IN A WIRELESS LOCAL AREA NETWORK (WLAN)</p> <p>(73) QUALCOMM INCORPORATED (72) HO, Sai Yiu Duncan CHERIAN, George PATIL, Abhishek Pramod</p> <p>(31) 202017031840 201962906689 P (32) 24.09.2020 26.09.2019</p> <p>(33) United States of America United States of America</p> <hr/> <p>(51) H04L 61/5038 G07F 9/02 G07F 11/18 G07F 11/62 G07F 17/00 G07F 17/12 H04L 67/125 G07F 9/00 H04L 67/00</p> <p>(11) EP3763109 (21) EP19701736.1 (47) 06.12.2023 (87) GB2019050165 12.09.2019</p> <p>(22) 22.01.2019</p> <p>(54) A METHOD OF CONFIGURING A STORAGE SYSTEM</p> <p>(73) Supply Point Systems Limited (72) MARRIOTT, Christopher BENWELL, Christopher BUNCE, Robert</p> <p>(31) 201803798 (32) 09.03.2018 (33) United Kingdom</p> <hr/> <p>(51) H04L 65/1016 H04L 65/1104 H04W 36/00</p> <p>(11) EP3864813 (21) EP18786748.6 (47) 06.12.2023 (87) EP2018077862 16.04.2020</p> <p>(22) 12.10.2018</p> <p>(54) INDICATION OF EVOLVED PACKET SYSTEM FALLBACK CAPABILITY</p> <p>(73) Telefonaktiebolaget LM Ericsson (publ) (72) ABTIN, Afshin KELLER, Ralf</p> <hr/> <p>(51) H04L 67/1097 H04L 67/1095</p> <p>(11) EP3811596 (21) EP19737295.6 (47) 06.12.2023 (87) US2019036206 26.12.2019</p> <p>(22) 10.06.2019</p> <p>(54) HIERARCHICAL NAMESPACE WITH STRONG CONSISTENCY AND HORIZONTAL SCALABILITY</p> <p>(73) Microsoft Technology Licensing, LLC (72) CHALAKOV, Georgi, M. MAINALI, Shane, Kumar MARQUARDT, Thomas, Leo SUN, Zichen SAH, Maneesh</p>
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MANII, Esfandiar	H04W 88/00	(22) 07.09.2020
PANT, Saurabh	(11) EP3926930	(54) DISPLAY INCLUDING LAYER HAVING DISCONTINUOUS PATTERN, AND ELECTRONIC APPARATUS INCLUDING SAME
KABAN, Dana, Yulian	(21) EP21186461.6	
AHWAL, Saher, B.	(47) 06.12.2023	
CHEN, Jun	(22) 18.08.2017	
ZHOU, Da	(54) NETWORK SERVICE EXPOSURE FOR SERVICE AND SESSION CONTINUITY	(73) Samsung Electronics Co., Ltd.
SINGH, Amit Pratap	(73) IPLA Holdings Inc.	(72) AHN, Sungho
GU, Junhua	(72) DI GIROLAMO, Rocco	JUNG, Hunjo
ZHANG, Shaoyu	STARSINIC, Michael, F.	(31) 20190110821
CHEN, Wei	MLADIN, Catalina, Mihaela	(32) 06.09.2019
ZHANG, Jingchao	LI, Hongkun	(33) Korea (Republic)
ZHANG, Quan		(51) H04M 1/02
(31) 201816015823	(31) 201662376653 P	G06F 1/16
(32) 22.06.2018	(32) 18.08.2016	G02B 1/14
(33) United States of America	(33) United States of America	H10K 50/844
(51) H04L 67/12	(51) H04L 67/51	H04M 1/18
H04L 67/56	(11) EP3675463	H10K 102/00
H04L 69/18	(21) EP19220142.4	(11) EP3684036
H04L 69/22	(47) 06.12.2023	(21) EP20151569.9
H04W 88/16	(22) 30.12.2019	(47) 06.12.2023
(11) EP3888332	(54) METHOD FOR IDENTIFYING A CONNECTED OBJECT IN A NETWORK INFRASTRUCTURE	(22) 14.01.2020
(21) EP19827942.4	(73) Bull SAS	(54) FLEXIBLE DISPLAY DEVICE INCLUDING WINDOW SUBSTRATE, AND MANUFACTURING METHOD THEREOF
(47) 06.12.2023	(72) DEMEILLIEZ, Bruno	(73) Samsung Display Co., Ltd.
(87) US2019063529	MENIGOT, Gilles	(72) Seo, Taeon
04.06.2020	CHAABANE, Wajih	(31) 20190005383
(22) 27.11.2019	(31) 1904719	(32) 15.01.2019
(54) UNIVERSAL NARROW-BAND INTERNET OF THINGS COMMUNICATION NODE FOR USE WITH ENVIRONMENTAL SENSORS AND STATIONS	18306906	(33) Korea (Republic)
(73) Dish Network, L.L.C.	(32) 06.05.2019	
(72) ADAMS, Alexander	31.12.2018	(51) H04M 1/02
REISBICK, Richard	(33) France	G06F 3/041
(31) 201816215564	European Patent Office (EPO)	G06F 1/16
201862773504 P	(51) H04L 69/165	(11) EP3840342
(32) 10.12.2018	H04L 67/52	(21) EP19874424.5
30.11.2018	(11) EP3790251	(47) 06.12.2023
(33) United States of America	(21) EP20191630.1	(87) CN2019111246
United States of America	(47) 06.12.2023	23.04.2020
(51) H04L 67/125	(22) 07.06.2017	(22) 15.10.2019
H04W 48/16	(54) METHOD AND SYSTEM FOR NODE DISCOVERY AND SELF-HEALING OF BLOCKCHAIN NETWORKS	(54) FOLDABLE TERMINAL, TERMINAL CONTROL METHOD AND DEVICE, TERMINAL, AND STORAGE MEDIUM
H04W 4/38	(73) Mastercard International Incorporated	(73) ZTE Corporation
H04L 51/222	(72) DAVIS, Steven Charles	(72) QU, Zhongkui
H04L 51/226	(31) 201615211076	HAN, Wenjun
H04L 67/131	(32) 15.07.2016	LIU, Xiangjun
H04L 67/52	(33) United States of America	(31) 201811204286
H04L 67/568	(51) H04M 1/02	(32) 16.10.2018
H04L 67/61	(11) EP3817345	(33) China
H04Q 9/00	(21) EP19824923.7	
(11) EP3685565	(47) 06.12.2023	(51) H04M 1/58
(21) EP18762919.1	(87) CN2019092035	H04R 1/10
(47) 06.12.2023	02.01.2020	H04R 3/04
(87) IB2018055521	(22) 20.06.2019	H04M 1/60
21.03.2019	(54) TERMINAL	H04R 3/00
(22) 24.07.2018	(73) Vivo Mobile Communication Co., Ltd.	(11) EP3777114
(54) NETWORK-ASSISTED SCANNING OF A SURROUNDING ENVIRONMENT	(72) LI, Yuzhong	(21) EP19722730.9
(73) Telefonaktiebolaget LM Ericsson (PUBL)	(31) 201810678425	(47) 06.12.2023
(72) KATARDJIEV, Vladimir	(32) 27.06.2018	(87) US2019024880
FORGEAT, Julien	(33) China	10.10.2019
SHIRAZIPOUR, Meral	(51) H04M 1/02	(22) 29.03.2019
KRYLOV, Dmitri	G02B 5/30	(54) DYNAMICALLY ADJUSTABLE SIDETONE GENERATION
(31) 201762559749 P	C09J 7/00	(73) Bose Corporation
(32) 18.09.2017	(11) EP4024827	(72) YEO, Xiang-Ern
(33) United States of America	(21) EP20860078.3	(31) 201815943116
(51) H04L 67/148	(47) 06.12.2023	(32) 02.04.2018
H04W 36/00	(87) KR2020012062	(33) United States of America
	11.03.2021	(51) H04M 1/72454

H04M 1/60	(21) EP18177714.5	(31) 2019074415
H04M 9/08	(47) 06.12.2023	(32) 09.04.2019
(11) EP3920516	(22) 14.06.2018	(33) Japan
(21) EP20868976.0	(54) AMBIENT SOUND ADJUSTMENTS	(51) H04N 1/32
(47) 06.12.2023	DURING CALL HANDLING	H04N 19/61
(87) CN2020081385	(73) Nokia Technologies Oy	H04N 19/18
01.04.2021	(72) LEPPÄNEN, Jussi	H04N 19/176
(22) 26.03.2020	VILERMO, Miikka	H04N 19/159
(54) VOICE CALL METHOD AND	LEHTINIEMI, Arto	H04N 19/12
APPARATUS, ELECTRONIC DEVICE,	MATE, Sujeet Shyamsundar	(11) EP3357242
AND COMPUTER-READABLE	(51) H04M 3/523	(21) EP16775940.6
STORAGE MEDIUM	H04M 7/00	(47) 06.12.2023
(73) Tencent Technology (Shenzhen)	G06F 9/54	(87) US2016052926
Company Limited	(11) EP3565230	06.04.2017
(72) LI, Yuepeng	(21) EP18170919.7	(22) 21.09.2016
LIU, Zhipeng	(47) 06.12.2023	(54) NON-SEPARABLE SECONDARY
ZHU, Rui	(22) 04.05.2018	TRANSFORM FOR VIDEO CODING
(31) 201910906728	(54) SYSTEM AND METHOD FOR QUEUE	(73) Qualcomm Incorporated
(32) 24.09.2019	LOAD BALANCING	(72) ZHAO, Xin
(33) China	(73) Mitel Networks Corporation	CHEN, Jianle
(51) H04M 1/725	(72) Montcalm, Michael	SAID, Amir
G06F 3/01	(51) H04M 3/527	KARCZEWICZ, Marta
(11) EP3791563	H04M 3/51	SEREGIN, Vadim
(21) EP19797449.6	G06F 17/00	(31) 201615270455
(47) 06.12.2023	H04L 51/02	201662337736 P
(87) US2019055731	G10L 25/30	201662323496 P
04.02.2021	G10L 15/22	201662294897 P
(22) 10.10.2019	G06F 16/36	201562234644 P
(54) ROBUST RADAR-BASED GESTURE-	(11) EP3724789	(32) 20.09.2016
RECOGNITION BY USER EQUIPMENT	(21) EP18888490.2	17.05.2016
(73) Google LLC	(47) 06.12.2023	15.04.2016
(72) HONG, Jung Ook	(87) US2018064810	12.02.2016
AMIHOOD, Patrick M.	20.06.2019	29.09.2015
JACOBS, John David	(22) 11.12.2018	(33) United States of America
MENGISTU, Abel Seleshi	(54) SYSTEMS AND METHODS FOR	United States of America
GIUSTI, Leonardo	CHATBOT GENERATION	United States of America
SACHIDANANDAM, Vignesh	(73) Greeneden U.S. Holdings II, LLC	United States of America
STERN, Devon James O'Reilly	(72) MAZZA, Arnon	United States of America
POUPYREV, Ivan	FAIZAKOF, Avraham	(51) H04N 1/405
BARBELLO, Brandon	LEV-TOV, Amir	B42D 25/328
KUGLER, Tyler Reed	TAPUHI, Tamir	B42D 25/23
(31) 201962894566 P	KONIG, Yochai	B42D 25/351
201962879361 P	(31) 201715840295	B42D 25/373
(32) 30.08.2019	(32) 13.12.2017	B42D 25/455
26.07.2019	(33) United States of America	B42D 25/46
(33) United States of America	(51) H04N 1/00	(11) EP3890297
United States of America	(11) EP3588927	(21) EP19889039.4
(51) H04M 1/73	(21) EP19181810.3	(47) 06.12.2023
H04M 1/72454	(47) 06.12.2023	(87) JP2019044315
(11) EP3846428	(22) 21.06.2019	04.06.2020
(21) EP18937458.0	(54) INFORMATION PROCESSING	(22) 12.11.2019
(47) 06.12.2023	APPARATUS AND METHOD FOR	(54) IMAGE DATA GENERATION METHOD,
(87) CN2018110305	CONTROLLING INFORMATION	DISPLAY BODY MANUFACTURING
23.04.2020	ROCESSING APPARATUS	METHOD, PROGRAM, COMPUTER-
(22) 15.10.2018	(73) CANON KABUSHIKI KAISHA	READABLE RECORDING
(54) METHOD FOR ADJUSTING	(72) KAKUTANI, Naoya	MEDIUM, AND DISPLAY BODY
PARAMETER OF AUDIO SERVICE AND	(31) 2018119861	MANUFACTURING DEVICE
TERMINAL	(32) 25.06.2018	(73) Toppan Printing Co., Ltd.
(73) HUAWEI TECHNOLOGIES CO., LTD.	(33) Japan	(72) KUBOTA, Masashi
(72) FENG, Jianhua	(51) H04N 1/00	(31) 2018221490
FENG, Jianting	(11) EP3723355	(32) 27.11.2018
ZHANG, Shi	(21) EP20165843.2	(33) Japan
ZHAO, Hongjun	(47) 06.12.2023	(51) H04N 5/262
(51) H04M 3/02	(22) 26.03.2020	H04N 5/222
H04M 3/42	(54) INFORMATION PROCESSING	G06T 1/20
H04R 5/04	SYSTEM, METHOD AND PROGRAM	H04N 5/272
H04S 7/00	(73) CANON KABUSHIKI KAISHA	H04N 13/239
(11) EP3582477	(72) WATARIUCHI, Satoki	H04N 23/45

H04N 23/80	(87) KR2019003890	(11) EP3723370
H04N 13/00	10.10.2019	(21) EP20177429.6
(11) EP3402180	(22) 02.04.2019	(47) 06.12.2023
(21) EP17805534.9	(54) METHOD AND SYSTEM FOR	(22) 20.04.2018
(47) 06.12.2023	HANDLING 360 DEGREE IMAGE	(54) PLAYER INPUT MOTION
(87) CN2017079380	CONTENT	COMPENSATION BY ANTICIPATING
07.12.2017	(73) Samsung Electronics Co., Ltd.	MOTION VECTORS
(22) 01.04.2017	(72) BHORASKAR, Anand	(73) Zenimax Media Inc.
(54) BLURRED PHOTO GENERATION	ANIL, Kshirsagar Sumit	(72) KOPIETZ, Michael
METHOD AND APPARATUS, AND	VANDROTTI, Basavaraja Shanthappa	(31) 201862644164 P
MOBILE TERMINAL	KUMAR, Amit	201862640945 P
(73) GUANGDONG OPPO MOBILE	CHOI, Cheolhee	201862634464 P
TELECOMMUNICATIONS CORP., LTD.	GWAK, Jinpyo	201762488526 P
(72) ZENG, Yuanqing	JANA, Sandeep	(32) 16.03.2018
(31) 201610394282	KUMAR, Batchu Sudheer	09.03.2018
(32) 02.06.2016	(31) 201841012500	23.02.2018
(33) China	201841012500	21.04.2017
(51) H04N 7/18	(32) 28.03.2019	(33) United States of America
G06F 3/00	02.04.2018	United States of America
G06F 9/50	(33) India	United States of America
G06F 12/00	India	United States of America
G06F 16/00	(51) H04N 19/105	(51) H04N 19/126
(11) EP3654641	H04N 19/176	H04N 19/129
(21) EP19204176.2	H04N 19/119	H04N 19/176
(47) 06.12.2023	H04N 19/134	H04N 19/463
(22) 18.10.2019	H04N 19/61	H04N 19/162
(54) METHOD AND APPARATUS FOR	H04N 19/103	(11) EP4075801
PROCESSING REQUESTS FOR	H04N 19/182	(21) EP22170999.1
THUMBNAIL IMAGES IN A VIDEO	H04N 19/194	(47) 06.12.2023
SURVEILLANCE SYSTEM	H04N 19/523	(22) 23.10.2012
(73) CANON KABUSHIKI KAISHA	H04N 19/85	(54) IMAGE CODING APPARATUS, IMAGE
(72) HENRIKSON, Nicolai	H04N 19/59	CODING METHOD, IMAGE DECODING
(31) 201818794	(11) EP3318061	APPARATUS, IMAGE DECODING
(32) 19.11.2018	(21) EP16744447.0	METHOD, AND STORAGE MEDIUM
(33) United Kingdom	(47) 06.12.2023	(73) CANON KABUSHIKI KAISHA
(51) H04N 9/64	(87) FR2016051654	(72) SHIMA, Masato
H04N 5/21	05.01.2017	(31) 2012093113
G06N 3/08	(22) 30.06.2016	2012057424
G06T 5/00	(54) METHOD OF IMAGE ENCODING AND	2012008199
G06T 5/40	FACILITY FOR THE IMPLEMENTATION	2011243942
G09G 5/10	OF THE METHOD	(32) 16.04.2012
(11) EP3738305	(73) ATEME	14.03.2012
(21) EP19812294.7	(72) DUPUIS, Etienne	18.01.2012
(47) 06.12.2023	MONNIER, Mathieu	07.11.2011
(87) KR2019000092	THIESSE, Jean-Marc	(33) Japan
05.12.2019	LARBIER, Pierre	Japan
(22) 03.01.2019	(31) 1556211	Japan
(54) ELECTRONIC DEVICE AND CONTROL	(32) 01.07.2015	Japan
METHOD THEREOF	(33) France	(51) H04N 19/126
(73) Samsung Electronics Co., Ltd.	(51) H04N 19/124	H04N 19/129
(72) LEE, Bonggeun	H04N 19/139	H04N 19/176
AHN, Taegyong	H04N 19/146	H04N 19/463
KIM, Soohong	H04N 19/149	H04N 19/162
(31) 20180088934	H04N 19/154	(11) EP4075802
201862677917 P	H04N 19/162	(21) EP22171001.5
201862677454 P	H04N 19/172	(47) 06.12.2023
(32) 31.07.2018	H04N 19/192	(22) 23.10.2012
30.05.2018	H04N 19/44	(54) IMAGE CODING APPARATUS, IMAGE
29.05.2018	H04N 19/513	CODING METHOD, IMAGE DECODING
(33) Korea (Republic)	A63F 13/352	APPARATUS, IMAGE DECODING
United States of America	A63F 13/355	METHOD, AND STORAGE MEDIUM
United States of America	A63F 13/52	(73) Canon Kabushiki Kaisha
(51) H04N 13/117	A63F 13/86	(72) SHIMA, Masato
H04N 13/363	H04L 65/70	(31) 2012093113
H04N 13/282	H04L 65/75	2012057424
(11) EP3718302	H04L 65/80	2012008199
(21) EP19782119.2	H04N 19/426	2011243942
(47) 06.12.2023	H04N 19/52	(32) 16.04.2012

14.03.2012	(32) 07.11.2016	JAIS, Pablo
18.01.2012	(33) Korea (Republic)	VILASECA, David
07.11.2011	(51) H04N 21/236	(31) 201662439396 P
(33) Japan	H04N 21/482	(32) 27.12.2016
Japan	H04N 21/234	(33) United States of America
Japan	H04N 21/24	(51) H04N 23/55
Japan	H04N 21/258	G02B 13/00
(51) H04N 19/159	H04N 21/438	G02B 27/64
H04N 19/18	H04N 21/44	G03B 3/10
H04N 19/132	H04N 21/442	G03B 30/00
H04N 19/12	H04N 21/61	G02B 7/02
(11) EP3944618	H04N 21/6543	(11) EP4113965
(21) EP20792204.8	H04N 21/84	(21) EP21202977.1
(47) 06.12.2023	H04H 60/31	(47) 06.12.2023
(87) KR2020005076	H04H 60/43	(22) 15.10.2021
22.10.2020	H04N 21/231	(54) OPTICAL ELEMENT DRIVING UNIT, IMAGING OPTICAL MODULE AND ELECTRONIC DEVICE
(22) 16.04.2020	H04N 21/658	(73) Largan Digital Co., Ltd.
(54) TRANSFORM FOR MATRIX-BASED INTRA-PREDICTION IN IMAGE CODING	H04N 21/8352	(72) LAI, Yu Chen
(73) LG Electronics Inc.	H04N 21/845	CHOU, Ming-Ta
(72) NAM, Junghak	H04H 60/65	TSENG, Te-Sheng
LIM, Jaehyun	(11) EP3829179	(31) 110124385
KOO, Moonmo	(21) EP20216175.8	(32) 02.07.2021
KIM, Seunghwan	(47) 06.12.2023	(33) Taiwan, Chinese Taipei
(31) 201962834946 P	(22) 28.02.2017	(51) H04N 23/611
(32) 16.04.2019	(54) METHOD AND SYSTEM FOR DETECTING AND RESPONDING TO CHANGING OF MEDIA CHANNEL	H04N 23/667
(33) United States of America	(73) Roku, Inc.	H04N 23/68
(51) H04N 19/70	(72) LEE, Jaehyung	H04N 23/71
(11) EP3759923	LEE, Dewey, Ho	H04N 23/72
(21) EP19716702.6	(31) 201715443615	H04N 23/73
(47) 06.12.2023	201662301616 P	H04N 23/76
(87) US2019024124	(32) 27.02.2017	(11) EP3624438
10.10.2019	29.02.2016	(21) EP19192723.5
(22) 26.03.2019	(33) United States of America	(47) 06.12.2023
(54) FILE FORMAT SIGNALING OF ERROR MITIGATION IN SUB-PICTURE BITSTREAM BASED VIEWPORT DEPENDENT VIDEO CODING	United States of America	(22) 20.08.2019
(73) HUAWEI TECHNOLOGIES CO., LTD.	(51) H04N 21/422	(54) EXPOSURE CONTROL METHOD, AND ELECTRONIC DEVICE
(72) WANG, Ye-Kui	H04N 21/442	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
FANG, Huameng	(11) EP3634000	(72) ZHANG, Gong
FAN, Yuqun	(21) EP19201196.3	(31) 201810962790
CHEN, Jianle	(47) 06.12.2023	(32) 22.08.2018
(31) 201862651821 P	(22) 02.10.2019	(33) China
(32) 03.04.2018	(54) TRACKING USER ENGAGEMENT ON A MOBILE DEVICE	(51) H04N 23/63
(33) United States of America	(73) NBCUniversal Media, LLC	(11) EP3403392
(51) H04N 21/2343	(72) REALE, Jeffrey J.	(21) EP16819571.7
H04N 21/45	(31) 201816151250	(47) 06.12.2023
H04N 21/61	(32) 03.10.2018	(87) EP2016082478
H04N 21/81	(33) United States of America	20.07.2017
H04N 21/845	(51) H04N 23/13	(22) 22.12.2016
H04N 21/4782	G01J 3/28	(54) MULTI APERTURE CAMERA AND METHOD FOR DRIVING THE SAME
H04L 65/61	G01J 3/02	(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
H04L 65/65	G01J 3/51	(72) WIPPERMANN, Frank
H04L 65/75	(11) EP3555580	BRÜCKNER, Andreas
(11) EP3319320	(21) EP17889209.7	REIMANN, Andreas
(21) EP17200312.1	(47) 06.12.2023	(31) 102016200285
(47) 06.12.2023	(87) US2017068601	(32) 13.01.2016
(22) 07.11.2017	05.07.2018	(33) Germany
(54) ADAPTIVE MEDIA STREAMING METHOD AND APPARATUS ACCORDING TO DECODING PERFORMANCE	(22) 27.12.2017	(51) H04N 23/695
(73) Hanwha Vision Co., Ltd.	(54) HYPER-SPECTRAL IMAGING WHEN OBSERVED OBJECT IS STILL	(11) EP3713217
(72) Song, Byung In	(73) Urugus S.A.	(21) EP20150461.0
Cheung, Sweung Won	(72) KARGIEMAN, Emiliano	(47) 06.12.2023
(31) 20160147633	RICHARTE, Gerardo Gabriel	(22) 07.01.2020
	POSE, Agustina	(54) SYSTEM AND CAMERA DEVICE FOR CAPTURING IMAGES
	VULETICH, Juan Manuel	

(73) Sony Interactive Entertainment Inc.	(11) EP3677047	Correia de Oliveira, Luís António
(72) WILLIAMS, Nigel John	(21) EP17923390.3	Xavier Rodrigues, Pedro Filipe
CAPPELLO, Fabio	(47) 06.12.2023	Simões Bastos Martins, Pedro Miguel
GUPTA, Rajeev	(87) CN2017099837	Moreira de Sousa, Pedro Miguel
BREUGELMANS, Mark Jacobus	07.03.2019	Ferro Bento, Virgílio António
(31) 201903715	(22) 31.08.2017	(31) 21398009
(32) 19.03.2019	(54) SPEAKER APPARATUS, METHOD	(32) 01.07.2021
(33) United Kingdom	FOR PROCESSING INPUT SIGNALS	(33) European Patent Office (EPO)
(51) H04N 25/47	THEREOF, AND AUDIO SYSTEM	(51) H04W 4/029
(11) EP3864837	(73) Harman International Industries,	H04W 4/44
(21) EP19872432.0	Incorporated	H04W 4/024
(47) 06.12.2023	(72) ZHENG, Jianwen	G07C 5/08
(87) IL2019051116	LI, Shengbo	G07C 5/00
23.04.2020	(51) H04R 23/00	G06V 20/56
(22) 10.10.2019	H04R 19/00	G01C 21/30
(54) A PIXEL READOUT CIRCUIT AND A	B81B 3/00	G01C 21/00
METHOD FOR IMAGING	(11) EP3793216	(11) EP3968609
(73) Semiconductor Devices Ltd.	(21) EP19197358.5	(21) EP21790066.1
(72) JAKOBSON, Claudio Gabriel	(47) 06.12.2023	(47) 06.12.2023
BEN-ARI, Nimrod	(22) 13.09.2019	(87) CN2021102846
NEVO, Itzhak	(54) MEMBRANE STRUCTURE,	20.01.2022
SHILOAH, Niv	TRANSDUCER DEVICE AND METHOD	(22) 28.06.2021
(31) 26237218	OF PRODUCING A MEMBRANE	(54) CONTROL METHOD, VEHICLE, AND
(32) 14.10.2018	STRUCTURE	SERVER
(33) Israel	(73) ams International AG	(73) Guangzhou Xiaopeng Autopilot
(51) H04Q 3/00	(72) Heeb, Peter	Technology Co., Ltd.
(11) EP3888376	Müller, Michelle	(72) CHAI, Wennan
(21) EP19710203.1	Stojanovic, Goran	LIU, Zhongyuan
(47) 06.12.2023	(51) H04R 25/00	GUANG, Xueling
(87) US2019018992	(11) EP3641344	JIANG, Shaofeng
04.06.2020	(21) EP18200844.1	LAI, Jianming
(22) 21.02.2019	(47) 06.12.2023	(31) 202010685584
(54) METHODS, SYSTEMS, AND	(22) 16.10.2018	(32) 16.07.2020
COMPUTER READABLE MEDIA	(54) A METHOD FOR OPERATING A	(33) China
FOR DISTRIBUTING SIGTRAN	HEARING INSTRUMENT AND A	(51) H04W 4/06
CONNECTIONS AMONG SIGNAL	HEARING SYSTEM COMPRISING A	H04W 4/40
TRANSFER POINT (STP) MESSAGE	HEARING INSTRUMENT	H04W 72/30
PROCESSORS	(73) Sivantos Pte. Ltd.	H04L 12/18
(73) Oracle International Corporation	(72) HANNEMANN, Ronny	H04W 84/00
(72) KUMAR, Vipin	GIESE, Ulrich	H04W 92/18
GOEL, Yesh	LUGGER, Marko	H04W 4/02
(31) 201816206592	KAMKAR-PARSI, Homayoun	(11) EP3893530
(32) 30.11.2018	(51) H04R 25/02	(21) EP19905953.6
(33) United States of America	H04W 76/30	(47) 06.12.2023
(51) H04R 1/10	(11) EP3526984	(87) CN2019127203
H03G 3/32	(21) EP16781756.8	02.07.2020
G06F 3/01	(47) 06.12.2023	(22) 20.12.2019
G06F 3/03	(87) EP2016074439	(54) COMMUNICATION METHOD AND
G01H 3/04	19.04.2018	COMMUNICATION DEVICE
(11) EP3387840	(22) 12.10.2016	(73) Huawei Technologies Co., Ltd.
(21) EP16852873.5	(54) HEARING DEVICE WITH WIRELESS	(72) GE, Cuili
(47) 06.12.2023	INTERFACE	YANG, Yanmei
(87) CN2016103960	(73) Sonova AG	YING, Jiangwei
15.06.2017	(72) DICKMANN, Georg	(31) 201811628430
(22) 31.10.2016	LUCAS-HIRTZ, Daniel	(32) 28.12.2018
(54) APPARATUS FOR CONTROLLING	(51) H04W 4/029	(33) China
EARPHONE OR MEDIA PLAYER	A61B 5/00	(51) H04W 4/21
IN COMMUNICATION WITH THE	(11) EP4117317	H04W 4/80
EARPHONE, AND CONTROLLING	(21) EP22178836.7	(11) EP3831100
METHOD THEREOF	(47) 06.12.2023	(21) EP19742749.5
(73) BOE Technology Group Co., Ltd.	(22) 14.06.2022	(47) 06.12.2023
(72) YANG, Jiuxia	(54) ASSESSMENT OF POSITION	(87) EP2019069699
(31) 201510892219	OF MOTION TRACKERS ON A	06.02.2020
(32) 07.12.2015	SUBJECT BASED ON WIRELESS	(22) 22.07.2019
(33) China	COMMUNICATIONS	(54) SYSTEM AND METHOD FOR
(51) H04R 1/32	(73) Sword Health, S.A.	VERIFYING USER CONNECTIONS
H04R 1/40	(72) Coelho Alves, José Carlos	(73) Tappter Limited
H04R 1/26	Moutinho Colunas, Márcio Filipe	(72) BANWAITT, Keith

FILOCAMO, Demetrio	G06F 16/25	(11) EP3860175
(31) 201812389	(11) EP3726810	(21) EP18936895.4
(32) 30.07.2018	(21) EP19169376.1	(47) 06.12.2023
(33) United Kingdom	(47) 06.12.2023	(87) CN2018110303
(51) H04W 4/24	(22) 16.04.2019	23.04.2020
H04L 12/14	(54) SYSTEM AND METHOD FOR	(22) 15.10.2018
H04L 12/46	INTEROPERABLE COMMUNICATION	(54) TERMINAL CONFIGURATION METHOD
H04L 41/5041	OF AUTOMATION SYSTEM	AND DEVICE
H04M 15/00	COMPONENTS	(73) Huawei Technologies Co., Ltd.
H04W 40/22	(73) ABB Schweiz AG	(72) JIANG, Yinqing
(11) EP3896907	(72) Schulz, Dirk	GUO, Haoping
(21) EP20909378.0	Goldschmidt, Thomas	WANG, Juan
(47) 06.12.2023	(51) H04W 4/70	BAO, Fanghui
(87) CN2020119852	H04L 5/00	LIU, Xiaojian
08.07.2021	H04W 72/04	(51) H04W 8/22
(22) 07.10.2020	H04W 72/0453	H04W 72/20
(54) METHOD AND APPARATUS FOR	H04W 16/14	H04W 76/14
ACQUIRING NETWORK SLICE	(11) EP3815404	H04W 92/18
IDENTIFICATION	(21) EP19866585.3	(11) EP3852410
(73) Huawei Technologies Co., Ltd.	(47) 06.12.2023	(21) EP19873694.4
(72) XU, Juhua	(87) CN2019107523	(47) 06.12.2023
PENG, Shuping	02.04.2020	(87) CN2019082939
CHEN, Xinjun	(22) 24.09.2019	23.04.2020
(31) 201911417814	(54) FLEXIBLE NR-U WIDEBAND	(22) 16.04.2019
(32) 31.12.2019	OPERATION	(54) PARAMETER CONFIGURATION
(33) China	(73) JRD COMMUNICATION (SHENZHEN)	METHOD AND TERMINAL DEVICE
(51) H04W 4/50	LTD.	(73) GUANGDONG OPPO MOBILE
H04L 41/0823	(72) SALIM, Umer	TELECOMMUNICATIONS CORP., LTD.
H04L 41/5025	(31) 201815700	(72) LU, Qianxi
H04L 69/323	(32) 26.09.2018	ZHAO, Zhenshan
(11) EP3300304	(33) United Kingdom	LIN, Huei-Ming
(21) EP15903866.0	(51) H04W 8/18	(31) PCT/CN2018/117315
(47) 06.12.2023	H04W 4/08	PCT/CN2018/112509
(87) CN2015089792	H04W 4/10	PCT/CN2018/111106
23.03.2017	(11) EP3860300	(32) 23.11.2018
(22) 16.09.2015	(21) EP19877381.4	29.10.2018
(54) METHOD AND DEVICE FOR	(47) 06.12.2023	19.10.2018
ADJUSTING COMMUNICATION	(87) CN2019112862	(33) World Intellectual Property Office (WIPO)
PARAMETERS	30.04.2020	World Intellectual Property Office (WIPO)
(73) GUANGDONG OPPO MOBILE	(22) 23.10.2019	World Intellectual Property Office (WIPO)
TELECOMMUNICATIONS CORP., LTD.	(54) GROUP CALLING IN A MISSION	(51) H04W 8/24
(72) FENG, Bin	CRITICAL SERVICE SYSTEM	H04W 76/20
TANG, Hai	(73) Huawei Technologies Co., Ltd.	(11) EP3855777
(51) H04W 4/50	(72) GE, Cuili	(21) EP21163954.7
H04W 8/28	YANG, Yanmei	(47) 06.12.2023
H04W 8/20	(31) 201811237437	(22) 31.10.2016
H04W 4/60	(32) 23.10.2018	(54) ANNOUNCEMENT FOR APPLICATION
H04W 4/70	(33) China	AWARE SCHEDULING
H04W 8/18	(51) H04W 8/18	(73) Telefonaktiebolaget LM Ericsson (publ)
(11) EP3665920	H04W 48/18	(72) BERGQUIST, Gunnar
(21) EP18856282.1	H04W 88/06	(31) 201562261383 P
(47) 06.12.2023	(11) EP3644635	(32) 01.12.2015
(87) KR2018010695	(21) EP19190012.5	(33) United States of America
21.03.2019	(47) 06.12.2023	(51) H04W 12/06
(22) 12.09.2018	(22) 05.08.2019	H04L 9/40
(54) MOBILE NUMBER PORTABILITY	(54) MULTI-SIM DEVICE AND OPERATION	(11) EP3324661
(73) Samsung Electronics Co., Ltd.	METHOD THEREOF	(21) EP17196538.7
(72) RAJADURAI, Rajavelsamy	(73) Samsung Electronics Co., Ltd.	(47) 06.12.2023
PUSHKAR, Pratyush	(72) LEE, Junkyoung	(22) 16.10.2017
HAMPALI, Mallikarjuna	KIM, Chulkyung	(54) COMMON AUTHORIZATION
LEE, Duckey	NAM, Jongwook	MANAGEMENT SERVICE
(31) 201741032170	LEE, Youngyong	(73) The Boeing Company
201741032170	(31) 20180127689	(72) SCHLEIFF, Martin
(32) 07.09.2018	(32) 24.10.2018	KLOBA III, Anthony Andrew
12.09.2017	(33) Korea (Republic)	(31) 201615353122
(33) India	(51) H04W 8/18	(32) 16.11.2016
India	H04W 88/02	(33) United States of America
(51) H04W 4/70	H04M 1/675	(51) H04W 12/104

H04W 4/02	16.04.2020	(72) XIAO, Jiehua
G01S 5/14	(22) 14.10.2019	PENG, Jinlin
G01S 5/02	(54) METHOD AND NG-CU FOR CALL	(31) 201810912127
G01S 13/76	SELECTION AND MIGRATION IN A NG-	(32) 10.08.2018
G01S 5/12	RAN	(33) China
H04L 67/12	(73) Samsung Electronics Co., Ltd.	(51) H04W 24/10
(11) EP4214943	(72) GADAG, Veerabhadrapa Murigeppa	H04W 52/02
(21) EP21831288.2	SURESH, Lavanya	H04W 76/16
(47) 06.12.2023	SUBRAMANIAM, Karthikeyan	H04W 88/06
(87) EP2021084681	JOSHI, Abhishek V	(11) EP3836609
23.06.2022	(31) 201841038769	(21) EP19872458.5
(22) 08.12.2021	201841038769	(47) 06.12.2023
(54) A METHOD FOR DETERMINING A	(32) 10.10.2019	(87) JP2019039902
LOCATION OF A USER DEVICE IN AN	12.10.2018	23.04.2020
INDUSTRIAL FACILITY	(33) India	(22) 09.10.2019
(73) Siemens Aktiengesellschaft	India	(54) COMMUNICATION DEVICE,
(72) FIORENTINO, Vincenzo	(51) H04W 24/02	COMMUNICATION DEVICE CONTROL
(31) 20213767	H04W 88/08	METHOD, AND PROGRAM
(32) 14.12.2020	H04W 92/12	(73) CANON KABUSHIKI KAISHA
(33) European Patent Office (EPO)	(11) EP3937530	(72) NAKAJIMA, Takafumi
(51) H04W 24/02	(21) EP21183663.0	(31) 2018196884
H04W 48/12	(47) 06.12.2023	(32) 18.10.2018
H04W 24/08	(22) 05.07.2021	(33) Japan
H04W 48/16	(54) METHOD FOR ASSIGNING	(51) H04W 28/02
H04W 56/00	IDENTIFIERS TO FRONTHAUL	H04W 72/02
(11) EP3808129	TRAFFIC FLOWS IN O-RAN	(11) EP3897031
(21) EP19909395.6	COMPLIANT RADIO ACCESS	(21) EP21152968.0
(47) 06.12.2023	NETWORK	(47) 06.12.2023
(87) CN2019113401	(73) Mavenir Systems, Inc.	(22) 07.05.2018
16.07.2020	(72) RAJA, Charles Santhosam Lourdu	(54) REFLECTIVE QOS FLOW
(22) 25.10.2019	AGARWAL, Ankit Kumar	CHARACTERISTIC-BASED
(54) DETERMINATION OF SSB/RMSI	MUDARADDI, Somashekar	COMMUNICATIONS METHOD AND
PERIODICITY FOR IAB NODE	(31) 202021029440	APPARATUS
(73) TELEFONAKTIEBOLAGET LM	202117350147	(73) GUANGDONG OPPO MOBILE
ERICSSON (PUBL)	(32) 10.07.2020	TELECOMMUNICATIONS CORP., LTD.
(72) BAO, Lei	17.06.2021	(72) HAN, Lifeng
DAHLMAN, Erik	(33) India	ZHANG, Hongping
LIN, Zhipeng	United States of America	ZENG, Qinghai
(31) PCT/CN2019/071440	(51) H04W 24/04	HUANG, Qufang
(32) 11.01.2019	H04W 76/22	GUO, Yinghao
(33) World Intellectual Property Office (WIPO)	H04W 88/14	(31) 201710458757
(51) H04W 24/02	(11) EP3751888	201710313900
H04W 52/02	(21) EP20179188.6	(32) 16.06.2017
H04W 24/04	(47) 06.12.2023	05.05.2017
(11) EP3852420	(22) 10.06.2020	(33) China
(21) EP19871556.7	(54) METHOD AND APPARATUS FOR	China
(47) 06.12.2023	IMPROVING SERVICE RELIABILITY IN	(51) H04W 36/00
(87) CN2019109983	WIRELESS COMMUNICATION SYSTEM	H04W 76/12
16.04.2020	(73) Samsung Electronics Co., Ltd.	(11) EP3672324
(22) 08.10.2019	(72) Jeong, Sangsoo	(21) EP19170440.2
(54) METHOD AND DEVICE FOR	Moon, Sangjun	(47) 06.12.2023
DETERMINING LOAD THRESHOLD	(31) 20190068265	(22) 20.04.2019
(73) HUAWEI TECHNOLOGIES CO., LTD.	(32) 10.06.2019	(54) OPTIMIZED HANDOVERS OF WI-
(72) ZHOU, Qiang	(33) Korea (Republic)	FI OFFLOAD SERVICE FROM A
LU, Peng	(51) H04W 24/10	WI-FI NETWORK TO A CELLULAR
DING, Zhenghu	H04L 5/00	NETWORK
LI, Zhe	H04L 1/1829	(73) MediaTek Inc.
(31) 201811167766	H04L 1/1867	(72) Lin, Zong-Syun
(32) 08.10.2018	H04W 72/0453	Hu, Yuh-Hua
(33) China	(11) EP3823341	(31) 201816229683
(51) H04W 24/02	(21) EP19846275.6	(32) 21.12.2018
H04W 76/22	(47) 06.12.2023	(33) United States of America
H04W 28/08	(87) CN2019099849	(51) H04W 36/12
H04W 88/12	13.02.2020	H04W 76/34
(11) EP3850803	(22) 08.08.2019	H04W 48/18
(21) EP19871301.8	(54) METHOD AND APPARATUS FOR	(11) EP3975615
(47) 06.12.2023	CONTROLLING SECONDARY CELL	(21) EP20920318.1
(87) KR2019013441	(73) HUAWEI TECHNOLOGIES CO., LTD.	(47) 06.12.2023

(87) CN2020085982 26.08.2021	(73) HUAWEI TECHNOLOGIES CO., LTD.	(22) 11.01.2018
(22) 21.04.2020	(72) FENG, Zhenni	(54) CELL RE-SELECTION WHILE INACTIVE
(54) METHODS AND APPARATUSES FOR CHANGING DATA TRANSMISSION SCHEME	SUN, Wenqi	(73) Apple Inc.
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	TAN, Wei	(72) CHEN, Yuqin
(72) LIU, Jianhua	(31) 201810957704	HU, Haijing
(31) PCT/CN2020/075586	(32) 22.08.2018	ZHANG, Dawei
(32) 17.02.2020	(33) China	SHIKARI, Murtaza A.
(33) World Intellectual Property Office (WIPO)	(51) H04W 48/12	GURUMOORTHY, Sethuraman
(51) H04W 40/24	H04W 76/12	OU, Xu
H04W 40/34	H04W 76/11	NIMMALA, Srinivasan
H04W 24/04	H04W 68/00	KODALI, Sree Ram
H04W 76/19	(11) EP4008142	XING, Longda
H04W 84/18	(21) EP20869122.0	LOVLEKAR, Srirang A.
(11) EP4046414	(47) 06.12.2023	XU, Fangli
(21) EP20789189.6	(87) KR2020011745	(51) H04W 52/14
(47) 06.12.2023	01.04.2021	H04W 52/36
(87) EP2020079145	(22) 02.09.2020	H04W 52/34
22.04.2021	(54) ELECTRONIC DEVICE FOR RECEIVING PAGING MESSAGE AND OPERATION METHOD THEREOF	H04W 52/32
(22) 16.10.2020	(73) Samsung Electronics Co., Ltd.	H04W 52/28
(54) OPERATION APPARATUS AND METHOD FOR MAINTAINING NETWORK CONNECTIVITY OF A NETWORK DEVICE BASED ON SELF-RELATED CONNECTION INFORMATION OBTAINED FROM MONITORING MAINTENANCE MESSAGES	(72) LEE, Keonyoung	(11) EP3598808
(73) Signify Holding B.V.	LEE, Hoyeon	(21) EP18772697.1
(72) AJMEER, Ahamed, Rafik	(31) 20190119902	(47) 06.12.2023
GADI, Sathya, Phaneendra, Reddy	(32) 27.09.2019	(87) CN2018080032
KULANGARA, Manoj, Ayyankotil	(33) Korea (Republic)	27.09.2018
(31) 201941041974	(51) H04W 48/18	(22) 22.03.2018
19213254	(11) EP3654701	(54) TRANSMITTING POWER CONTROL METHOD, APPARATUS AND DEVICE, AND STORAGE MEDIUM
(32) 17.10.2019	(21) EP18846159.4	(73) Huawei Technologies Co., Ltd.
03.12.2019	(47) 06.12.2023	(72) LIU, Zhe
(33) India	(87) JP2018026179	ZHANG, Xingwei
European Patent Office (EPO)	21.02.2019	LI, Chao
(51) H04W 48/08	(22) 11.07.2018	SHI, Jie
H04W 48/12	(54) NETWORK ACCESS METHOD AND COMMUNICATION SYSTEM	(31) 201710179822
H04W 76/19	(73) NTT DOCOMO, INC.	(32) 23.03.2017
H04W 76/30	(72) SHIMOJOU Takuya	(33) China
(11) EP3211961	THAKOLSRI Srisakul	(51) H04W 56/00
(21) EP17153548.7	SAMA Malla Reddy	(11) EP3790310
(47) 06.12.2023	(31) 2017156591	(21) EP19806823.1
(22) 27.01.2017	(32) 14.08.2017	(47) 06.12.2023
(54) HANDLING SYSTEM INFORMATION	(33) Japan	(87) KR2019006058
(73) HTC Corporation	(51) H04W 48/20	28.11.2019
(72) Chen, Te-Ming	H04W 36/00	(22) 21.05.2019
(31) 201662291534 P	(11) EP4068852	(54) COMMUNICATION METHOD AND DEVICE IN WIRELESS COMMUNICATION SYSTEM
(32) 05.02.2016	(21) EP21741986.0	(73) Samsung Electronics Co., Ltd.
(33) United States of America	(47) 06.12.2023	(72) KIM, Sangbum
(51) H04W 48/08	(87) CN2021071484	KIM, Donggun
H04W 68/04	22.07.2021	KIM, Soenghun
H04W 24/02	(22) 13.01.2021	(31) 20180057995
H04W 24/10	(54) CELL SELECTION METHOD AND APPARATUS	(32) 21.05.2018
H04W 88/12	(73) Honor Device Co., Ltd.	(33) Korea (Republic)
(11) EP3833107	(72) SUI, Feifei	(51) H04W 56/00
(21) EP19852426.6	XU, Haibo	H04B 17/00
(47) 06.12.2023	FU, Lichao	(11) EP3866522
(87) CN2019102038	SUN, Weiguang	(21) EP21167322.3
27.02.2020	(31) 202010039106	(47) 06.12.2023
(22) 22.08.2019	(32) 14.01.2020	(22) 09.05.2014
(54) INFORMATION TRANSMISSION METHOD AND DEVICE	(33) China	(54) DEVICE TO DEVICE SYNCHRONIZATION SOURCE SELECTION
	(51) H04W 48/20	(73) Sun Patent Trust
	H04W 48/12	(72) FENG, Sujuan
	H04W 76/27	WANG, Lilei
	(11) EP3738400	SUZUKI, Hidetoshi
	(21) EP18899090.7	BASU MALLICK, Prateek
	(47) 06.12.2023	
	(87) CN2018072249	
	18.07.2019	

(51) H04W 56/00 H04J 11/00 H04W 48/10 H04W 4/40 H04W 92/18 H04L 5/00 (11) EP4007388 (21) EP20859271.7 (47) 06.12.2023 (87) KR2020009712 04.03.2021 (22) 23.07.2020 (54) METHOD AND DEVICE FOR TRANSMITTING/RECEIVING S-SSB IN NR V2X (73) LG Electronics Inc. (72) HWANG, Daesung LEE, Seungmin SEO, Hanbyul (31) 20200066633 20190123143 201962893185 P 201962892596 P (32) 02.06.2020 04.10.2019 29.08.2019 28.08.2019 (33) Korea (Republic) Korea (Republic) United States of America United States of America	LI, Junyi BAGHEL, Sudhir Kumar GULATI, Kapil (31) 201916363638 201862650846 P (32) 25.03.2019 30.03.2018 (33) United States of America United States of America <hr/> (51) H04W 64/00 G01S 1/04 G01S 5/00 H04W 24/10 H04W 84/00 (11) EP3871451 (21) EP18800343.8 (47) 06.12.2023 (87) SE2018051083 30.04.2020 (22) 23.10.2018 (54) NETWORK NODE AND METHOD IN A WIRELESS COMMUNICATIONS NETWORK (73) TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) (72) GONZALEZ ESCUDERO, Alberto AHLSTRÖM, Tobias <hr/> (51) H04W 68/00 H04W 36/00 H04W 76/19 H04W 76/27 (11) EP3536067 (21) EP17797769.1 (47) 06.12.2023 (87) JP2017038723 11.05.2018 (22) 26.10.2017 (54) BASE STATION, CORE NETWORK NODE FOR SESSION MANAGEMENT AND METHODS THEREBY (73) NEC Corporation (72) SIVAVAKEESAR, Sivapathalingham PATERSON, Robert TAMURA, Toshiyuki HAYASHI, Sadafuku (31) 201618663 (32) 04.11.2016 (33) United Kingdom <hr/> (51) H04W 68/00 H04W 76/28 H04W 52/02 (11) EP3501238 (21) EP17745594.6 (47) 06.12.2023 (87) US2017042423 22.02.2018 (22) 17.07.2017 (54) ENERGY-EFFICIENT PAGING IN WIRELESS NETWORKS (73) QUALCOMM Incorporated (72) RADULESCU, Andrei GOROKHOV, Alexei ZHANG, Chengjin PATEL, Chirag KADOUS, Tamer (31) 201715633376 201662375890 P (32) 26.06.2017	16.08.2016 (33) United States of America United States of America <hr/> (51) H04W 72/02 H04L 5/00 (11) EP3860271 (21) EP19867542.3 (47) 06.12.2023 (87) CN2019106238 02.04.2020 (22) 17.09.2019 (54) RESOURCE SELECTION METHOD AND APPARATUS, TERMINAL AND STORAGE MEDIUM (73) Datang Mobile Communications Equipment Co., Ltd. (72) LI, Chenxin ZHAO, Rui CHENG, Fang-Chen (31) 201811142504 (32) 28.09.2018 (33) China <hr/> (51) H04W 72/02 H04W 4/40 (11) EP3592095 (21) EP18791732.3 (47) 06.12.2023 (87) KR2018005039 01.11.2018 (22) 30.04.2018 (54) TRANSMISSION CARRIER SELECTION FOR V2X SERVICES (73) LG Electronics Inc. (72) LEE, Seungmin SEO, Hanbyul (31) 201762491340 P (32) 28.04.2017 (33) United States of America <hr/> (51) H04W 72/02 H04W 74/08 (11) EP3892048 (21) EP20803679.8 (47) 06.12.2023 (87) US2020054302 08.04.2021 (22) 05.10.2020 (54) SIDELINK SIGNAL REPETITION AND PREEMPTION (73) Ofinno, LLC (72) CHAE, Hyukjin DINAN, Esmael YI, Yunjung (31) 201962910359 P (32) 03.10.2019 (33) United States of America <hr/> (51) H04W 72/04 (11) EP3863346 (21) EP19876024.1 (47) 06.12.2023 (87) CN2019112321 30.04.2020 (22) 21.10.2019 (54) SYNCHRONIZATION SIGNAL BLOCK TRANSMISSION METHOD AND COMMUNICATION APPARATUS (73) Huawei Technologies Co., Ltd. (72) LIU, Zhe TANG, Hao
---	---	--

PENG, Jinlin	H04L 5/00	(72) DUDDA, Torsten
ZHOU, Guohua	H04W 72/23	PARKVALL, Stefan
(31) 201811241581	H04W 52/02	SYNNERGREEN, Per
(32) 24.10.2018	H04W 72/12	WAGER, Stefan
(33) China	(11) EP3820221	ZHANG, Hanzhi
(51) H04W 72/04	(21) EP19847074.2	(51) H04W 72/12
H04L 1/08	(47) 06.12.2023	H04J 11/00
(11) EP3982677	(87) CN2019099933	H04W 72/04
(21) EP19942186.8	13.02.2020	H04L 5/00
(47) 06.12.2023	(22) 09.08.2019	H04L 5/14
(87) CN2019102046	(54) COMMUNICATION METHOD AND	H04L 1/1829
25.02.2021	APPARATUS	(11) EP3209082
(22) 22.08.2019	(73) HUAWEI TECHNOLOGIES CO., LTD.	(21) EP15850994.3
(54) DATA TRANSMISSION METHOD AND	(72) XUE, Yifan	(47) 06.12.2023
DEVICE	CAI, Yu	(87) JP2015079299
(73) Huawei Technologies Co., Ltd.	LI, Xiaocui	21.04.2016
(72) ZHANG, Yunhao	WANG, Jian	(22) 16.10.2015
XU, Xiuliang	(31) 201810912068	(54) TERMINAL, BASE STATION, AND
CHEN, Yan	(32) 10.08.2018	COMMUNICATION METHOD
(51) H04W 72/04	(33) China	(73) Sharp Kabushiki Kaisha
H04L 5/00	(51) H04W 72/04	(72) KUSASHIMA Naoki
(11) EP3641438	H04W 72/12	SHIMEZAWA, Kazuyuki
(21) EP17913575.1	H04W 72/23	RUIZ DELGADO, Alvaro
(47) 06.12.2023	(11) EP3768020	IMAMURA, Kimihiko
(87) JP2017022210	(21) EP20178892.4	OUCHI, Wataru
20.12.2018	(47) 06.12.2023	HAYASHI, Takashi
(22) 15.06.2017	(22) 09.06.2020	(31) 2014212155
(54) USER TERMINAL AND WIRELESS	(54) SYSTEM AND METHOD FOR	(32) 17.10.2014
COMMUNICATION METHOD	PERFORMING TRANSMISSION	(33) Japan
(73) NTT DOCOMO, INC.	CANCELLATION INDICATION	(51) H04W 72/20
(72) TAKEDA, Kazuki	MONITORING	(11) EP3565342
NAGATA, Satoshi	(73) Samsung Electronics Co., Ltd.	(21) EP17892894.1
MU, Qin	(72) BAE, Jung Hyun	(47) 06.12.2023
LIU, Liu	ABOTABL, Ahmed A.	(87) CN2017071592
(51) H04W 72/04	(31) 202016878601	26.07.2018
H04L 5/00	201962875789 P	(22) 18.01.2017
(11) EP3742840	(32) 19.05.2020	(54) METHODS FOR TRANSMITTING
(21) EP18905028.9	18.07.2019	DOWNLINK CONTROL INFORMATION,
(47) 06.12.2023	(33) United States of America	TERMINAL DEVICE AND NETWORK
(87) CN2018076030	United States of America	DEVICE
15.08.2019	(51) H04W 72/04	(73) GUANGDONG OPPO MOBILE
(22) 09.02.2018	H04W 74/00	TELECOMMUNICATIONS CORP., LTD.
(54) COMMUNICATION METHOD,	H04W 74/08	(72) TANG, Hai
COMMUNICATION APPARATUS, AND	H04L 5/00	XU, Hua
SYSTEM	(11) EP3764715	(51) H04W 72/20
(73) Huawei Technologies Co., Ltd.	(21) EP19775126.6	H04L 1/18
(72) LIANG, Jinyao	(47) 06.12.2023	H04W 92/18
WANG, Ting	(87) CN2019079921	(11) EP4054267
LI, Yuanjie	03.10.2019	(21) EP20895005.5
(51) H04W 72/04	(22) 27.03.2019	(47) 06.12.2023
H04L 5/00	(54) RANDOM ACCESS METHOD AND	(87) KR2020008891
(11) EP3965495	APPARATUS	10.06.2021
(21) EP19940656.2	(73) HUAWEI TECHNOLOGIES CO., LTD.	(22) 08.07.2020
(47) 06.12.2023	(72) GUO, Yinghao	(54) METHOD AND APPARATUS FOR
(87) CN2019099528	SHAO, Hua	REQUESTING RETRANSMISSION
11.02.2021	(31) 201810260784	RESOURCE IN NR V2X
(22) 06.08.2019	(32) 27.03.2018	(73) LG Electronics Inc.
(54) INFORMATION PROCESSING	(33) China	(72) LEE, Jongyoul
METHOD, NETWORK DEVICE, AND	(51) H04W 72/04	LEE, Youngdae
USER EQUIPMENT	H04W 76/38	SEO, Hanbyul
(73) GUANGDONG OPPO MOBILE	(11) EP3972367	PARK, Giwon
TELECOMMUNICATIONS CORP., LTD.	(21) EP21192355.2	(31) 20190162097
(72) SHI, Zhihua	(47) 06.12.2023	(32) 06.12.2019
CHEN, Wenhong	(22) 01.09.2014	(33) Korea (Republic)
FANG, Yun	(54) CONDITIONAL UPLINK RADIO	(51) H04W 72/20
HUANG, Yingpei	RESOURCE UTILIZATION IN A	H04W 28/02
(51) H04W 72/04	CELLULAR NETWORK	H04W 72/21
	(73) Telefonaktiebolaget LM Ericsson (publ)	H04W 28/06

(11) EP3576454	KO, Hyunsoo	(11) EP3751943
(21) EP18863376.2	KIM, Seonwook	(21) EP19747475.2
(47) 06.12.2023	(31) 20190123291	(47) 06.12.2023
(87) CN2018106173	(32) 04.10.2019	(87) KR2019001465
04.04.2019	(33) Korea (Republic)	08.08.2019
(22) 18.09.2018	(51) H04W 74/04	(22) 01.02.2019
(54) COMMUNICATION METHODS, TERMINAL DEVICE, AND ACCESS NETWORK DEVICE	H04W 72/12	(54) METHOD AND APPARATUS FOR TRANSMITTING RANDOM ACCESS PREAMBLE IN UNLICENSED BAND
(73) Huawei Technologies Co., Ltd.	H04W 72/04	(73) LG Electronics Inc.
(72) YU, Haifeng	H04L 5/00	(72) AHN, Joonkui
CAO, Zhenzhen	H04W 84/12	KIM, Seonwook
XIONG, Xin	H04W 56/00	PARK, Changhwan
XU, Bin	H04W 52/02	YOON, Sukhyon
(31) 201710901990	(11) EP3248433	(31) 201862626596 P
(32) 28.09.2017	(21) EP15879251.5	(32) 05.02.2018
(33) China	(47) 06.12.2023	(33) United States of America
(51) H04W 72/30	(87) US2015066827	(51) H04W 74/08
H04W 48/08	28.07.2016	H04W 16/14
H04W 72/23	(22) 18.12.2015	(11) EP3834580
(11) EP2624605	(54) POWER SAVING CHANNEL ACCESS FOR WIRELESS DEVICES IN DENSE WIRELESS NETWORKS	(21) EP19850579.4
(21) EP13161738.3	(73) Intel Corporation	(47) 06.12.2023
(47) 06.12.2023	(72) GHOSH, Chittabrata	(87) CN2019100797
(22) 01.07.2009	KOJOKARO, Chen	20.02.2020
(54) PROVISION OF MBSFN AND UNICAST TRANSMISSION ACCORDING TO CELL TYPE	PERAHIA, Eldad	(22) 15.08.2019
(73) NEC Corporation	AZIZI, Shahrnaz	(54) NETWORK-ASSISTED CLEAR CHANNEL ASSESSMENT BANDWIDTH ADAPTATION MECHANISM
(72) Futaki, Hisashi	(31) 201514671350	(73) HUAWEI TECHNOLOGIES CO., LTD.
Lee, Jinsock	201562105634 P	(72) SALEM, Mohamed Adel
Hamabe, Kojiro	(32) 27.03.2015	ZHANG, Jiayin
(31) 2008172798	20.01.2015	(31) 201916539822
(32) 01.07.2008	(33) United States of America	201862719539 P
(33) Japan	United States of America	(32) 13.08.2019
(51) H04W 74/00	(51) H04W 74/04	17.08.2018
H04L 1/08	H04W 74/08	(33) United States of America
H04W 74/08	(11) EP3281480	United States of America
H04W 48/00	(21) EP16712616.8	(51) H04W 74/08
(11) EP3886524	(47) 06.12.2023	H04W 36/00
(21) EP21174310.9	(87) US2016022368	(11) EP3964014
(47) 06.12.2023	13.10.2016	(21) EP20724218.1
(22) 08.02.2016	(22) 14.03.2016	(47) 06.12.2023
(54) TERMINAL DEVICE, NETWORK NODE AND METHOD FOR RANDOM ACCESS IN COVERAGE ENHANCEMENT OPERATION	(54) DISTRIBUTED MECHANISM FOR MEDIUM RESERVATION AND PRIORITIZATION OF IOE COMMUNICATIONS	(87) IB2020054125
(73) Sony Group Corporation	(73) QUALCOMM Incorporated	05.11.2020
(72) ALNÄS, Svante	(72) GUPTA, Piyush	(22) 01.05.2020
NORD, Lars	LI, Junyi	(54) TWO-STEP CONTENTION-FREE RANDOM ACCESS
BERGGREN, Anders	(31) 201514684220	(73) Telefonaktiebolaget LM Ericsson (publ)
TRANG, Linh	(32) 10.04.2015	(72) RUNE, Johan
(51) H04W 74/00	(33) United States of America	DA SILVA, Icaro
H04W 74/08	(51) H04W 74/08	(31) 201962842510 P
H04W 72/12	(11) EP4032362	(32) 02.05.2019
(11) EP4040905	(21) EP20876563.6	(33) United States of America
(21) EP20871620.9	(47) 06.12.2023	(51) H04W 74/08
(47) 06.12.2023	(87) CN2020121807	H04W 74/00
(87) KR2020006586	22.04.2021	H04W 72/12
08.04.2021	(22) 19.10.2020	H04L 1/00
(22) 20.05.2020	(54) COMMUNICATION METHOD AND USER EQUIPMENT	H04W 28/02
(54) METHOD FOR PERFORMING RANDOM ACCESS CHANNEL PROCEDURE BY TERMINAL IN UNLICENSED BAND AND DEVICE THEREFOR	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(11) EP3881633
(73) LG Electronics Inc.	(72) ZHANG, Zhi	(21) EP20755828.9
(72) LEE, Jeongsu	(31) PCT/CN2019/112064	(47) 06.12.2023
YOON, Sukhyon	(32) 19.10.2019	(87) KR2020001794
	(33) World Intellectual Property Office (WIPO)	20.08.2020
	(51) H04W 74/08	(22) 07.02.2020
	H04W 16/14	(54) METHOD AND APPARATUS FOR HANDLING MSGA RETRANSMISSIONS DURING 2 STEP RANDOM ACCESS

<p>PROCEDURES IN WIRELESS COMMUNICATION SYSTEM (73) Samsung Electronics Co., Ltd. (72) AGIWAL, Anil JANG, Jaehyuk KIM, Soenghun INGALE, Mangesh Abhimanyu (31) 201931009602 201962805058 P (32) 12.03.2019 13.02.2019 (33) India United States of America</p> <hr/> <p>(51) H04W 74/08 H04W 84/12 (11) EP3169132 (21) EP15818368.1 (47) 06.12.2023 (87) JP2015063345 14.01.2016 (22) 08.05.2015 (54) INFORMATION PROCESSING DEVICE (73) Sony Group Corporation (72) ITAGAKI, Takeshi YAMAURA, Tomoya SAKODA, Kazuyuki SATO, Masanori (31) 2015002479 2015002478 2014142950 (32) 08.01.2015 08.01.2015 11.07.2014 (33) Japan Japan Japan</p> <hr/> <p>(51) H04W 74/08 H04W 84/12 (11) EP3876657 (21) EP21159998.0 (47) 06.12.2023 (22) 22.08.2017 (54) COMMUNICATION APPARATUS AND COMMUNICATION METHOD (73) Sony Group Corporation (72) Aio, Kosuke MA, Yuelin Morioka, Yuichi (31) 2016215482 (32) 02.11.2016 (33) Japan</p> <hr/> <p>(51) H04W 76/12 H04W 76/38 H04W 36/00 H04W 76/25 (11) EP3796739 (21) EP20205380.7 (47) 06.12.2023 (22) 04.04.2017 (54) PDU SESSIONS WITH VARIOUS TYPES OF SESSION CONTINUITY (73) Motorola Mobility LLC (72) SALKINTZIS, Apostolis (31) 201615090600 (32) 04.04.2016 (33) United States of America</p> <hr/> <p>(51) H04W 76/15 (11) EP3790353</p>	<p>(21) EP20194074.9 (47) 06.12.2023 (22) 02.09.2020 (54) SYSTEM AND METHOD FOR ENHANCED HIGH THROUGHPUT (EHT) STATIONS (73) Apple Inc. (72) KNECKT, Jarkko L. JAIN, Gaurav LIU, Yong JIANG, Jinjing WU, Tianyu YONG, Su Khiong LI, Guoqing DOMINGUEZ, Charles F. (31) 202016921276 201962896514 P (32) 06.07.2020 05.09.2019 (33) United States of America United States of America</p> <hr/> <p>(51) H04W 76/16 H04W 76/12 H04W 88/06 H04W 88/08 H04W 88/16 H04W 92/04 H04W 92/24 (11) EP4029308 (21) EP19790006.1 (47) 06.12.2023 (87) EP2019079038 18.03.2021 (22) 24.10.2019 (54) DETERMINATION OF THE RAT TYPE (73) Telefonaktiebolaget LM Ericsson (publ) (72) SANCHEZ VEGA, Veronica IHLAR, Marcus MUÑOZ DE LA TORRE ALONSO, Miguel Angel (31) 19382777 (32) 09.09.2019 (33) European Patent Office (EPO)</p> <hr/> <p>(51) H04W 76/19 H04W 76/30 H04W 76/38 H04W 76/27 (11) EP3843496 (21) EP21158821.5 (47) 06.12.2023 (22) 08.08.2012 (54) SUSPENDING A CONNECTION IN A WIRELESS COMMUNICATION SYSTEM (73) BlackBerry Limited (72) ANDERSON, Nicholas William BURBIDGE, Richard Charles YOUNG, Gordon Peter (31) 201161523016 P 201161523053 P 201161523039 P 201161523009 P 201161522998 P 201161523021 P (32) 12.08.2011 12.08.2011 12.08.2011 12.08.2011 12.08.2011</p>	<p>12.08.2011 (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) H04W 76/20 H04W 36/12 (11) EP3471503 (21) EP18199753.7 (47) 06.12.2023 (22) 10.10.2018 (54) 5G INTERNET OF THINGS DATA DELIVERY (73) InterDigital Patent Holdings, Inc. (72) SHI, Xiaoyan WANG, Guanzhou AHMAD, Saad (31) 201762572127 P (32) 13.10.2017 (33) United States of America</p> <hr/> <p>(51) H04W 84/12 H04W 4/50 H04L 61/5007 (11) EP4048021 (21) EP21158120.2 (47) 06.12.2023 (22) 19.02.2021 (54) METHODS AND DEVICES FOR VOICE OVER WIFI CALLS (73) Deutsche Telekom AG (72) JERBI, Walid SCHMIDT, Holger</p> <hr/> <p>(51) H04W 88/06 (11) EP3893596 (21) EP20748277.9 (47) 06.12.2023 (87) CN2020072943 06.08.2020 (22) 19.01.2020 (54) METHOD AND DEVICE FOR SENDING IN-DEVICE COEXISTENCE IDC INDICATION MESSAGE (73) Huawei Technologies Co., Ltd. (72) DING, Rentian KUANG, Yiru (31) 201910107615 (32) 02.02.2019 (33) China</p> <hr/> <p>(51) H05B 6/06 (11) EP4033858 (21) EP22152397.0 (47) 06.12.2023 (22) 20.01.2022 (54) INDUCTION HEATING APPARATUS AND METHOD FOR CONTROLLING THE SAME (73) LG Electronics Inc. (72) PARK, Wongyu YOON, Bada JEONG, Sihoon (31) 20220006854 20210008193 (32) 17.01.2022 20.01.2021 (33) Korea (Republic)</p>
---	---	---

Korea (Republic)	(51) H05B 47/155	(31) 201800009541
(51) H05B 6/10	H05B 47/125	(32) 17.10.2018
H05B 6/42	(11) EP4169356	(33) Italy
(11) EP4093153	(21) EP21731185.1	(51) H05H 1/24
(21) EP21175038.5	(47) 06.12.2023	B01J 7/00
(47) 06.12.2023	(87) EP2021065780	(11) EP3641506
(22) 20.05.2021	23.12.2021	(21) EP17924633.5
(54) DEVICE FOR INDUCTIVE HEATING OF METAL MATERIAL	(22) 11.06.2021	(47) 06.12.2023
(73) IAS GmbH	(54) CONTROLLING A PIXELATED LIGHTING DEVICE BASED ON A RELATIVE LOCATION OF A FURTHER LIGHT SOURCE	(87) JP2017032060
(72) Löbbbe, Dr. Christian Heinrich	(73) Signify Holding B.V.	14.03.2019
Passoni, Dr. Marco	(72) KRAJNC, Hugo, José	(22) 06.09.2017
Weckes, Dr. Jan	(31) 20181092	(54) ACTIVE GAS GENERATING DEVICE
(51) H05B 45/3578	(32) 19.06.2020	(73) TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION
H05B 45/48	(33) European Patent Office (EPO)	(72) ARITA, Ren
(11) EP3871471	(51) H05B 47/19	WATANABE, Kensuke
(21) EP19794532.2	(11) EP3175679	NISHIMURA, Shinichi
(47) 06.12.2023	(21) EP15719729.4	(51) H05H 1/24
(87) EP2019079099	(47) 06.12.2023	C02F 1/46
30.04.2020	(87) EP2015059874	(11) EP3796759
(22) 24.10.2019	04.02.2016	(21) EP18919361.8
(54) LED LAMP ARRANGEMENT WITH CONTROLLED POWER	(22) 05.05.2015	(47) 06.12.2023
(73) Silicon Hill B.V.	(54) CONTROLSYSTEM FOR A LIGHTSYSTEM AND ITS METHOD FOR CONFIGURATION OF IT AND BRINGING IT IN SERVICE	(87) KR2018005632
(72) ROY, Shounak	(73) Trilux GmbH & Co. KG	21.11.2019
FERRÉ VILA, Ramon	(72) MÜLLER, Sven	(22) 16.05.2018
RICHARDSON, Rosemary	(31) 102014110581	(54) UNDERWATER PLASMA GENERATING APPARATUS
(31) 201862749781 P	(32) 28.07.2014	(73) K Fusion Technology Inc.
(32) 24.10.2018	(33) Germany	(72) KWAK, Hon Kil
(33) United States of America	(51) H05G 2/00	(51) H05H 1/24
(51) H05B 47/105	(11) EP2735063	H01J 37/32
H05B 47/175	(21) EP12814173.6	(11) EP3596255
A01G 7/04	(47) 06.12.2023	(21) EP18767069.0
(11) EP4080997	(47) 06.12.2023	(47) 06.12.2023
(21) EP22169506.7	(87) US2012047483	(87) IL2018050304
(47) 06.12.2023	24.01.2013	20.09.2018
(22) 22.04.2022	(22) 19.07.2012	(22) 15.03.2018
(54) HORTICULTURAL LIGHTING SCENARIOS MANAGEMENT SYSTEM AND METHOD	(54) HIGH FLUX, NARROW BANDWIDTH COMPTON LIGHT SOURCES VIA EXTENDED LASER-ELECTRON INTERACTIONS	(54) DEVICE AND METHOD FOR TREATING LENSES
(73) Sollum Technologies Inc.	(73) Lawrence Livermore National Security, LLC	(73) Plasmatica Ltd.
(72) DUPRAS, Gabriel	(72) BARTY, Christopher	(72) LAM, Amnon
ROY-MOISAN, Francois	(31) 201213552610	SAGIV, Adam
POIRIER, Jacques	201161509479 P	(31) 201762471450 P
SMITH, Charles	(32) 18.07.2012	(32) 15.03.2017
BRUN, Louis	19.07.2011	(33) United States of America
MENARD, Patrick	(33) United States of America	(51) H05H 1/24
TREMBLAY, Marc	United States of America	H01J 37/32
(31) 202163201316 P	(51) H05H 1/24	(11) EP3930427
(32) 23.04.2021	(11) EP3868182	(21) EP20921011.1
(33) United States of America	(21) EP19804839.9	(47) 06.12.2023
(51) H05B 47/115	(47) 06.12.2023	(87) JP2020007951
H05B 47/19	(87) IB2019058851	02.09.2021
(11) EP3918883	23.04.2020	(22) 27.02.2020
(21) EP20702886.1	(22) 17.10.2019	(54) ACTIVE GAS GENERATION APPARATUS
(47) 06.12.2023	(54) METHOD FOR THE GENERATION UNDER DYNAMIC CONDITIONS OF AN ATMOSPHERIC PLASMA WITH A LOW OZONE CONTENT	(73) TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION
(87) GB2020050157	(73) PLUME S.R.L.	(72) ARITA, Ren
06.08.2020	(72) RICCARDI, Claudia	WATANABE, Kensuke
(22) 23.01.2020	DELL'ORTO, Elisa	(51) H05K 1/02
(54) AUTOMATION SYSTEM	DAGHETTA, Matteo	H05K 1/14
(73) Lightfi Limited		(11) EP3852505
(72) TAYLOR, Matthew William		(21) EP20152425.3
BAK, Alexey Olegovich		(47) 06.12.2023
AMRANIA, Hemmel		(22) 17.01.2020
(31) 201901292		
(32) 30.01.2019		
(33) United Kingdom		

(54) ELECTRONIC CONTROL UNIT	(33) France	(31) 2018245845
(73) Aptiv Technologies Limited	(51) H05K 5/02	(32) 27.12.2018
(72) Schrey, Moritz	(11) EP3335530	(33) Japan
Dittrich, Ralf	(21) EP16751285.4	(51) H05K 7/14
Herzogenrath, Pekka	(47) 06.12.2023	H01L 25/07
(51) H05K 3/34	(87) EP2016069003	H01L 27/02
B23K 1/00	16.02.2017	H02M 3/155
B23K 1/20	(22) 10.08.2016	(11) EP3344024
B23K 31/02	(54) SECURING FRAME FOR A USB	(21) EP17210537.1
H01L 23/12	CONNECTION	(47) 06.12.2023
B23K 101/40	(73) E.E.P.D Electronic Equipment Produktion	(22) 22.12.2017
B23K 101/42	& Distribution GmbH	(54) THREE-PHASE SWITCHING MODULE
B23K 1/008	(72) BLERSCH, Christian	(73) Commissariat à l'Energie Atomique et
H05K 3/24	(31) 102015113114	aux Energies Alternatives
(11) EP2950623	(32) 10.08.2015	(72) LEFEVRE, Guillaume
(21) EP14743400.5	(33) Germany	(31) 1663513
(47) 06.12.2023	(51) H05K 5/02	(32) 29.12.2016
(87) JP2014051581	H05K 7/20	(33) France
31.07.2014	H01L 23/34	(51) H05K 7/14
(22) 24.01.2014	H01L 23/367	H01R 9/26
(54) WIRING SUBSTRATE AND METHOD	H01L 23/373	H01R 4/64
FOR MANUFACTURING SAME	(11) EP3751970	(11) EP3930433
(73) Toppan Printing Co., Ltd.	(21) EP19750258.6	(21) EP21177860.0
National University Corporation Gunma	(47) 06.12.2023	(47) 06.12.2023
University	(87) CN2019074361	(22) 04.06.2021
(72) TSUCHIDA Tetsuyuki	15.08.2019	(54) CONFIGURABLE SAFETY GROUND
OKUBO Toshikazu	(22) 01.02.2019	TERMINALS FOR INDUSTRIAL
SHOHJI Ikuo	(54) HEAT-INSULATION DEVICE AND	APPLICATIONS
HIRATA Akihiro	ELECTRONIC PRODUCT	(73) Honeywell International Inc.
(31) 2013013244	(73) ZTE Corporation	(72) CHERIAN, Jaison
(32) 28.01.2013	(72) WU, Dianfeng	(31) 202117216888
(33) Japan	(31) 201810136695	202063042149 P
(51) H05K 3/46	(32) 09.02.2018	(32) 30.03.2021
H05K 3/42	(33) China	22.06.2020
(11) EP2974569	(51) H05K 7/14	(33) United States of America
(21) EP14763971.0	(11) EP3367766	United States of America
(47) 06.12.2023	(21) EP17189760.6	(51) H05K 13/04
(87) US2014030144	(47) 06.12.2023	(11) EP3471526
18.09.2014	(22) 07.09.2017	(21) EP16905387.3
(22) 17.03.2014	(54) SYMMETRICAL SLED BLIND MATING	(47) 06.12.2023
(54) SIMULTANEOUS AND SELECTIVE	IN UNSYMMETRICAL CHASSIS	(87) JP2016067493
WIDE GAP PARTITIONING OF VIA	PLACEMENT	21.12.2017
STRUCTURES USING PLATING	(73) Quanta Computer Inc.	(22) 13.06.2016
RESIST	(72) CHEN, Chao-Jung	(54) FEEDER MANAGEMENT METHOD
(73) Sanmina Corporation	TSORNG, Yaw-Tzong	AND FEEDER MANAGEMENT
(72) IKETANI, Steve	CHANG, Chun	APPARATUS
KERSTEN, Dale	NI, Hsiao-Tsu	(73) Fuji Corporation
(31) 201414205331	(31) 201715442223	(72) KATO, Daisuke
201361801134 P	(32) 24.02.2017	(51) H10B 12/00
(32) 11.03.2014	(33) United States of America	(11) EP3933904
15.03.2013	(51) H05K 7/14	(21) EP21773434.2
(33) United States of America	G01K 1/14	(47) 06.12.2023
United States of America	G01K 1/18	(87) CN2021079488
(51) H05K 5/00	H02M 7/48	14.10.2021
(11) EP3516937	H05K 1/02	(22) 08.03.2021
(21) EP17780474.7	H05K 7/20	(54) SEMICONDUCTOR STRUCTURE
(47) 06.12.2023	(11) EP3905864	AND MANUFACTURING METHOD
(87) FR2017052435	(21) EP19903892.8	THEREFOR
29.03.2018	(47) 06.12.2023	(73) Changxin Memory Technologies, Inc.
(22) 13.09.2017	(87) JP2019049937	(72) ZHU, Xiao
(54) AUTOMOTIVE COMPUTER HOUSING,	02.07.2020	(31) 202010267288
CORRESPONDING COMPUTER AND	(22) 19.12.2019	(32) 08.04.2020
VEHICLE	(54) ELECTRONIC DEVICE	(33) China
(73) Renault s.a.s	(73) Kabushiki Kaisha Toyota Jidoshokki	(51) H10B 41/10
(72) BARROIS, Denis	(72) TSUCHIYA Ryoto	H10B 41/27
MEDINA, Serge	KOBAYASHI Masayoshi	H10B 41/50
(31) 1659026	GOTO Tatsuya	H10B 43/10
(32) 26.09.2016	YAMAZAKI Kazuji	

H10B 43/27	(51) H10K 50/844
H10B 43/50	H10K 59/131
(11) EP3931869	H10K 77/10
(21) EP20926364.9	H10K 102/00
(47) 06.12.2023	(11) EP3910679
(87) CN2020086575	(21) EP19908939.2
28.10.2021	(47) 06.12.2023
(22) 24.04.2020	(87) CN2019125376
(54) THREE-DIMENSIONAL MEMORY	16.07.2020
DEVICES WITH DRAIN-SELECT-GATE	(22) 13.12.2019
CUT STRUCTURES AND METHODS	(54) FLEXIBLE SUBSTRATE AND METHOD
FOR FORMING THE SAME	FOR PREPARING SAME, AND DISPLAY
(73) Yangtze Memory Technologies Co., Ltd.	DEVICE
(72) WU, Jianzhong	(73) BOE Technology Group Co., Ltd.
XU, Zongke	(72) BAN, Shengguang
GENG, Jingjing	CAO, Zhanfeng
(51) H10B 43/20	WANG, Ke
H10B 41/20	(31) 201910023365
(11) EP3963628	(32) 10.01.2019
(21) EP19935539.7	(33) China
(47) 06.12.2023	(51) H10K 59/131
(87) CN2019093678	H10K 59/121
30.12.2020	(11) EP3188244
(22) 28.06.2019	(21) EP16204821.9
(54) THREE-DIMENSIONAL FLASH	(47) 06.12.2023
MEMORY DEVICE WITH INCREASED	(22) 16.12.2016
STORAGE DENSITY	(54) ORGANIC LIGHT EMITTING DIODE
(73) Yangtze Memory Technologies Co., Ltd.	DISPLAY DEVICE
(72) SHE, Min	(73) LG Display Co., Ltd.
TANG, Qiang	(72) CHOI, JeongHyeon
(51) H10B 43/27	PARK, JaeHee
H10B 41/27	HAN, Joonsoo
G11C 16/04	(31) 20150191375
H01L 21/28	(32) 31.12.2015
(11) EP3811408	(33) Korea (Republic)
(21) EP18934860.0	(51) H10N 30/20
(47) 06.12.2023	H10N 30/50
(87) CN2018107922	H10N 30/88
02.04.2020	(11) EP3817076
(22) 27.09.2018	(21) EP19824619.1
(54) SEMICONDUCTOR DEVICE AND	(47) 06.12.2023
METHOD OF FABRICATION THEREOF	(87) JP2019024726
(73) Yangtze Memory Technologies Co., Ltd.	02.01.2020
(72) ZHANG, Ruofang	(22) 21.06.2019
WANG, Enbo	(54) PIEZOELECTRIC ACTUATOR
YANG, Haohao	(73) Kyocera Corporation
XU, Qianbing	(72) SATOI, Shinsaku
HU, Yushi	(31) 2018123308
TAO, Qian	(32) 28.06.2018
(51) H10K 30/15	(33) Japan
H10K 30/81	
H10K 85/50	
H10K 71/60	
(11) EP3360173	
(21) EP16781169.4	
(47) 06.12.2023	
(87) GB2016053100	
13.04.2017	
(22) 05.10.2016	
(54) DEVICE ARCHITECTURE	
(73) Oxford University Innovation Limited	
(72) SNAITH, Henry James	
LEIJTENS, Tomas	
ALEXANDER-WEBBER, Jack	
HOERANTNER, Maximilian Tobias	
(31) 201517629	
(32) 06.10.2015	
(33) United Kingdom	

EP3

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

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

(51) A01B 63/111 G01B 21/04	(32) 11.03.2013 11.03.2013	(11) EP3501279 (21) EP19157786.5
(11) EP3609308 (21) EP18719961.7 (22) 11.04.2018	(33) United States of America European Patent Office (EPO)	(22) 08.07.2013 (54) PERFUSION APPARATUS WITH REDUCED PRESSURE FLUCTUATIONS, AND BUBBLE TRAP
(54) METHOD FOR ADJUSTING THE HEIGHT OF A WEAR TOOL AND CORRESPONDING AGRICULTURAL MACHINE	(47) 16.08.2023 (51) A01K 5/02	(73) Lifeline Scientific, Inc. (72) LOCKWOOD, Ross MONSON, Rodney Hal LOUIS, Jeffrey S.
(73) Kuhn SAS (72) POTIER, Philippe CITERNE, Sylvain NORTH, Julien	(11) EP3562300 (21) EP17825539.4 (22) 22.12.2017 (54) AN ANIMAL FEEDING DEVICE, A FOOD CONTAINER TO BE HOUSED THEREIN, AND A MILKING SYSTEM INCLUDING SUCH A FEEDING DEVICE	(72) STEINMAN, Christopher SHAPIRO, Evan David KRAVITZ, David WALKER, Rick W. STARK, John FERBER, Aaron Randall
(74) ir. H.A. Witmans c.s. (31) 1753200 (32) 12.04.2017 (33) France (47) 23.08.2023	(73) DeLaval Holding AB (72) JANISLOW, Marcin (74) ir. W.J.J.M. Kempes (31) 1651744 (32) 27.12.2016 (33) Sweden (47) 25.10.2023	(74) ir. A. Blokland c.s. (31) 201213545060 (32) 10.07.2012 (33) United States of America (47) 25.10.2023
(51) A01F 29/00 A01K 5/00 A01F 29/12	(51) A01M 7/00 (11) EP3482632 (21) EP18401087.4 (22) 30.10.2018	(51) A01N 25/06 A01N 59/14 (11) EP3892093 (21) EP19901477.0 (22) 26.12.2019
(11) EP3459347 (21) EP18196141.8 (22) 24.09.2018	(54) METHOD FOR APPLICATION OF A LIQUID TO BE SPRAYED	(54) SPRAYING AGENT COMPRISING PESTICIDE
(54) AGRICULTURAL DISTRIBUTOR DEVICE	(73) Amazonen-Werke H. Dreyer SE & Co. KG (72) Resch, Rainer (74) ir. W.J.J.M. Kempes (31) 102017126222 (32) 09.11.2017 (33) Germany (47) 11.10.2023	(73) Shikoku Cage Co., Ltd. (72) IKAWA, Shigeki (74) ir. W.J.J.M. Kempes (31) 2018246595 (32) 28.12.2018 (33) Japan (47) 25.10.2023
(73) Hartmann GmbH & Co. KG (72) Hartmann, Hans (74) ir. A.R. Aalbers (31) 102017122037 (32) 22.09.2017 (33) Germany (47) 06.09.2023	(51) A01M 23/38 G08B 21/22 A01M 23/02 A01M 23/16	(51) A21D 2/18 A23L 29/225 A23L 33/00 A23P 20/12 A23P 20/10 A23L 5/10
(51) A01G 17/08 B25C 5/02	(11) EP3782459 (21) EP20191958.6 (22) 20.08.2020	(11) EP3448159 (21) EP17721194.3 (22) 04.04.2017
(54) BINDING MACHINE	(54) REMOTE MONITORING OF LIVE CATCH RODENT TRAPS	(54) METHOD FOR PRODUCING UNFRIED NUGGET-LIKE PRODUCTS
(73) MAX CO., LTD. (72) TAKEMURA, Hajime (74) J.M.H. Duyver lic. (31) 2019153174 (32) 23.08.2019 (33) Japan (47) 18.10.2023	(73) Woodstream Corporation (72) ZIELINSKI, Todd M. KOZIAR, Peter, Jr. WANNINGER, Daniel J. JINNURI, Kalyan C. DALY, Thomas J., Jr. (74) dr. ir. G.J.C. Verdijck c.s. (31) 201815909225 201762466124 P (32) 01.03.2018 02.03.2017	(73) Roquette Frères (72) DUBAL, Edith DEDIEU, Géraldine (74) ir. W.J.J.M. Kempes (31) 1653805 (32) 28.04.2016 (33) France (47) 30.08.2023
(51) A01H 5/00 A01H 5/08 C12Q 1/68	(33) United States of America United States of America (47) 30.08.2023	(51) A22C 17/00 A22C 21/00 B02C 18/30 (11) EP4030918 (21) EP20797544.2
(11) EP2966988 (21) EP14708916.3 (22) 11.03.2014	(51) A01N 1/02 A61M 1/36	
(54) DARK STEM CUCUMBER PLANTS		
(73) Rijk Zwaan Zaadteelt en Zaadhandel B.V. (72) HAARING, Cornelis (74) dr. ir. G.J.C. Verdijck c.s. (31) 201313793008 13158611		

- (22) 09.09.2020
 (54) COMMINUTING BARREL FOR A CUTTING AND SEPARATING APPARATUS
 (73) SEPAgrind GmbH
 (72) VON DER WEIDEN, Helmut
 (74) dr. ir. G.J.C. Verdijck c.s.
 (31) 102019006557
 (32) 18.09.2019
 (33) Germany
 (47) 09.08.2023
 (51) A23K 10/30
 A23K 40/10
 (11) EP4061141
 (21) EP20811595.6
 (22) 20.11.2020
 (54) PROCESS FOR MAKING ANIMAL FEED MASH AGGLOMERATES, ANIMAL FEED MASH AGGLOMERATES AND USE OF GELATINISED STARCH
 (73) Forfarmers Corporate Services B.V.
 (72) VAN WESEL, Adrianus, Augustinus, Maria
 GAASENBEEK E/V GRAS, Annemieke, Claziena
 (74) ir. J.C. Volmer c.s.
 (31) 2024270
 (32) 20.11.2019
 (33) Netherlands
 (47) 04.10.2023
 (51) A23L 2/60
 A23L 27/30
 A23L 2/54
 (11) EP3504983
 (21) EP19153368.6
 (22) 30.12.2016
 (54) SWEETENING COMPOSITIONS
 (73) Red Bull GmbH
 (72) Nachbagauer, Josef
 Urban-Klik, Manfred
 Boehringer, Volker
 (74) dr. ir. G.J.C. Verdijck c.s.
 (47) 30.08.2023
 (51) A23L 27/23
 (11) EP4149283
 (21) EP21724698.2
 (22) 12.05.2021
 (54) PEA-DERIVED FLAVOURING MATERIAL
 (73) Unilever IP Holdings B.V.
 (72) BATENBURG, Amir Maximiliaan
 BOUKAMP, Martina
 CAMBEEN, Alphonsus Henricus
 Leonardus
 BOUWERS, Jantje
 WOLL, Karl Ludwig Wendelin
 (31) 20174379
 (32) 13.05.2020
 (33) European Patent Office (EPO)
 (47) 11.10.2023
 (51) A23L 27/30
 A23L 2/00
 A23L 2/52
 A23L 2/60
 A23L 27/00
 (11) EP3692811
 (21) EP19218671.6
 (22) 04.08.2017
- (54) SWEETENING COMPOSITIONS
 (73) PepsiCo, Inc.
 (72) Browne, Damian
 Zhang, Naijie
 Fang, Yuan
 (74) J.M.H. Duyver lic.
 (31) 201662377168 P
 201662370799 P
 (32) 19.08.2016
 04.08.2016
 (33) United States of America
 United States of America
 (47) 04.10.2023
 (51) A24C 5/32
 (11) EP4069001
 (21) EP21700250.0
 (22) 05.01.2021
 (54) CONVEYING DRUM FOR THE TOBACCO-PROCESSING INDUSTRY
 (73) Körber Technologies GmbH
 (72) JENDRIAN, Torsten
 HOFMANN, Nils
 MÖRKE, Torsten
 (74) ir. F.A. Geurts c.s.
 (31) 102020100437
 (32) 10.01.2020
 (33) Germany
 (47) 30.08.2023
 (51) A24F 40/465
 A24C 5/01
 A24D 1/00
 A24D 1/02
 A24D 1/20
 A24D 3/17
 A61M 15/06
 H05B 6/02
 H05B 6/10
 H05B 6/36
 H05B 6/44
 A24F 40/20
 A61M 15/00
 (11) EP3732936
 (21) EP19736197.5
 (22) 03.01.2019
 (54) HEAT-NOT-BURN DEVICE AND METHOD
 (73) CQENS TECHNOLOGIES INC.
 (72) BARTKOWSKI, William
 CROSBY, David
 CHONG, Alexander Chinhak
 WAYNE, David
 (74) dr. W.A.H.M. Van Borm
 (31) 201816022482
 201862613355 P
 (32) 28.06.2018
 03.01.2018
 (33) United States of America
 United States of America
 (47) 20.09.2023
 (51) A47J 31/46
 A47J 31/06
 (11) EP3893705
 (21) EP19821218.5
 (22) 10.12.2019
 (54) DISPENSING MODULE FOR A BEVERAGE PREPARATION MACHINE
 (73) Versuni Holding B.V.
 Koninklijke Douwe Egberts B.V.
- (72) NOORDHUIS, Joeke
 VAN TOOR, Johan
 (74) ir. H.A. Witmans c.s.
 (31) 2022165
 (32) 10.12.2018
 (33) Netherlands
 (47) 23.08.2023
 (51) A47L 11/08
 A47L 11/26
 A47L 11/40
 (11) EP3784102
 (21) EP19719613.2
 (22) 23.04.2019
 (54) FLOOR TREATMENT MACHINE
 (73) NUMATIC INTERNATIONAL LIMITED
 (72) WILTSHIRE, Simon
 (74) ir. H.J.G. Lips c.s.
 (31) 201806900
 (32) 27.04.2018
 (33) United Kingdom
 (47) 27.09.2023
 (51) A61B 1/04
 A61B 1/00
 A61B 1/018
 A61B 1/273
 (11) EP3735165
 (21) EP19703211.3
 (22) 04.01.2019
 (54) FLUOROPHORE IMAGING DEVICES, SYSTEMS, AND METHODS FOR AN ENDOSCOPIC PROCEDURE
 (73) Boston Scientific Scimed Inc.
 The Johns Hopkins University
 (72) POWERS, Jessica
 CALDWELL, Jacob
 CHO, Sungmin R.
 YAZDI, Youseph
 DURR, Nicholas J.
 PASRICHA, Pankaj J.
 WEILER, Chad
 NIMGAONKAR, Ashish
 (74) ir. A.R. Aalbers
 (31) 201862614266 P
 (32) 05.01.2018
 (33) United States of America
 (47) 13.09.2023
 (51) A61B 1/05
 (11) EP3756533
 (21) EP20186672.0
 (22) 27.06.2014
 (54) MULTIPLE VIEWING ELEMENTS ENDOSCOPE SYSTEM WITH MODULAR IMAGING UNITS
 (73) EndoChoice, Inc.
 (72) SALMAN, Golan
 WIETH, Stephan
 AIZENFELD, Amram
 GILREATH, Mark
 LEVIN, Victor
 DASCALO, Robby
 LEVI, Moshiko
 KIRMA, Yaniv
 LEVY, Avi
 AVRON, Jeruham
 KRIVOPISK, Leonid
 (74) ir. A.R. Aalbers
 (31) 201361840691 P
 (32) 28.06.2013

(33) United States of America	201862687014 P	(73) Hologic, Inc.
(47) 20.09.2023	(32) 12.02.2019	(72) DEFREITAS, Kenneth F.
(51) A61B 1/317	12.02.2019	STANGO, Tim
(11) EP3861922	12.02.2019	FARBIZIO, Tom
(21) EP18938666.7	12.12.2018	(74) drs. W.H.P. Derks
(22) 21.12.2018	12.12.2018	(31) 201962941395 P
(54) ENDOSCOPE FOR USE IN MULTI-CHANNEL MINIMALLY INVASIVE CHANNEL	12.12.2018	(32) 27.11.2019
(73) Dragon Crown Medical Co., Ltd.	12.12.2018	(33) United States of America
(72) YANG, Wenzhou	12.12.2018	(47) 23.08.2023
(74) dr. R.C. van Duijvenbode c.s.	12.12.2018	(51) A61B 17/072
(31) 201821789249 U	12.12.2018	A61B 17/068
(32) 01.11.2018	12.12.2018	A61B 17/115
(33) China	12.12.2018	A61B 17/00
(47) 18.10.2023	01.10.2018	(11) EP4023165
(51) A61B 5/00	19.06.2018	(21) EP20856206.6
G10K 11/178	(33) United States of America	(22) 27.08.2020
A61F 11/14	United States of America	(54) DRIVING MECHANISM FOR CLOSURE AND MEDICAL ANASTOMAT STAPLER COMPRISING SAME
A61F 11/08	United States of America	(73) Touchstone International Medical Science Co., Ltd.
A61F 11/06	United States of America	(72) SHAN, Teng
A61B 5/11	United States of America	(74) ir. J.C. Volmer c.s.
A61B 5/12	United States of America	(31) 201921425349 U
(11) EP3804355	United States of America	201910806837
(21) EP19847869.5	United States of America	(32) 29.08.2019
(22) 03.06.2019	United States of America	29.08.2019
(54) HEARING PROTECTION AND NOISE RECORDING SYSTEM AND METHOD	United States of America	(33) China
(73) Zeteo Tech, Inc.	United States of America	China
(72) MCLOUGHLIN, Michael	United States of America	(47) 27.09.2023
(74) ir. H.A. Witmans c.s.	United States of America	(51) A61B 17/11
(31) 201962856070 P	United States of America	A61F 2/06
201862679982 P	United States of America	A61B 17/34
(32) 02.06.2019	(47) 13.09.2023	(11) EP3737303
04.06.2018	(51) A61B 6/02	(21) EP19703219.6
(33) United States of America	A61B 5/00	(22) 10.01.2019
United States of America	A61B 5/055	(54) SYSTEMS FOR CONNECTING NON-ADHERENT STRUCTURES
(47) 25.10.2023	A61B 6/03	(73) Boston Scientific Scimed, Inc.
(51) A61B 5/11	A61B 8/00	(72) BARON, Todd
A61B 5/00	A61B 6/00	DESIMIO, Thomas
(11) EP3809966	A61B 8/08	WEITZNER, Barry
(21) EP19739754.0	G06T 15/08	DAYTON, Peter L.
(22) 13.06.2019	G16H 50/20	BANNON, Bryan
(54) EXTENDED REALITY VISUALIZATION OF RANGE OF MOTION	H04N 13/106	(74) ir. A.R. Aalbers
(73) Howmedica Osteonics Corp.	H04N 13/282	(31) 201862616217 P
(72) POLTARETSKYI, Sergii	H04N 13/341	(32) 11.01.2018
CARIOU, Damien	(11) EP2695579	(33) United States of America
MAILLÉ, Florence Delphine Muriel	(21) EP12768352.2	(47) 06.09.2023
SIMOES, Vincent Abel Maurice	(22) 06.04.2012	(51) A61B 17/22
CHAQUI, Jean	(54) MEDICAL IMAGE PROCESSING SYSTEM, MEDICAL IMAGE PROCESSING METHOD AND MEDICAL IMAGE PROCESSING PROGRAM	A61B 1/00
URVOY, Manuel Jean-Marie	(73) Toshiba Medical Systems Corporation	A61B 1/005
(74) ir. W.J.J.M. Kempes	(72) WAKAI, Satoshi	A61B 17/29
(31) 201962804383 P	KOKOJIMA, Yoshiyuki	A61B 17/3207
201962804402 P	(74) ir. H.A. Witmans c.s.	A61B 1/015
201962804392 P	(31) 2011086636	A61B 1/018
201862778791 P	(32) 08.04.2011	(11) EP3692933
201862778782 P	(33) Japan	(21) EP20167014.8
201862778796 P	(47) 20.09.2023	(22) 27.04.2017
201862778772 P	(51) A61B 10/00	(54) MEDICAL SYSTEMS AND DEVICES
201862778760 P	(11) EP4065000	(73) Boston Scientific Scimed, Inc.
201862778788 P	(21) EP20828452.1	(72) CHU, Michael, S.H
201862778778 P	(22) 25.11.2020	(74) ir. H.J.G. Lips c.s.
201862778797 P	(54) APPARATUS FOR REDUCING FLUID IN BIOPSY TISSUE HANDLING SYSTEM FOR IMPROVING IMAGING QUALITY	(31) 201662332682 P
201862778764 P		(32) 06.05.2016
201862778789 P		(33) United States of America
201862778774 P		(47) 27.09.2023
201862739406 P		(51) A61B 17/3207

A61B 17/11	(54) MEDICAL CONTROL DEVICE,	(32) 29.05.2018
A61M 25/09	CONTROL METHOD, PROGRAM AND	31.05.2017
A61B 17/22	MEDICAL CONTROL SYSTEM	(33) United States of America
A61B 17/00	(73) Sony Group Corporation	United States of America
A61B 17/32	(72) MITANI, Tetsuya	(47) 16.08.2023
A61B 90/00	KIDO, Chikako	<hr/>
A61B 17/34	YOSHIOKA, Keiichi	(51) A61F 2/24
A61M 25/10	ITO, Toshiki	A61M 25/00
(11) EP3903701	(74) ir. W.J.J.M. Kempes	A61M 25/01
(21) EP21175649.9	(31) 2015196415	(11) EP4003229
(22) 07.08.2009	(32) 02.10.2015	(21) EP20751293.0
(54) ENDOVASCULAR DEVICE WITH A	(33) Japan	(22) 23.07.2020
TISSUE PIERCING DISTAL PROBE	(47) 11.10.2023	(54) DEVICE FOR IMPLANTING A
(73) Boston Scientific Scimed, Inc.	<hr/>	PROSTHESIS FOR A HEART VALVE
(72) Olson, Matthew J.	(51) A61F 2/24	(73) Innovheart S.r.l.
Kugler, Chad John	(11) EP3193784	(72) RIGHINI, Giovanni
Robinson, David B.	(21) EP15778882.9	TRINH, Cindy
Olson, Ross A.	(22) 17.09.2015	SHIN, Dong Ik
Jacobs, Peter A.	(54) MEDICAL IMPLANT WITH SEALING	DENISON, Andy
(74) ir. A.R. Aalbers	RING	MAGRINI, Kevin
(31) 461261	(73) University of Zürich	(74) dr. ir. G.J.C. Verdijck c.s.
104868 P	(72) HOERSTRUP, Simon Philipp	(31) 201900015653
(32) 05.08.2009	WEBER, Benedikt	201916522164
13.10.2008	(74) ir. F.A. Geurts c.s.	(32) 05.09.2019
(33) United States of America	(31) 14185391	25.07.2019
United States of America	(32) 18.09.2014	(33) Italy
(47) 27.09.2023	(33) European Patent Office (EPO)	United States of America
<hr/>	(47) 16.08.2023	(47) 30.08.2023
(51) A61B 34/00	(51) A61F 2/24	(51) A61F 2/28
A61B 34/30	(11) EP4035628	A61F 2/30
(11) EP3463150	(21) EP22161811.9	A61F 2/36
(21) EP17807529.7	(22) 31.05.2018	A61F 2/38
(22) 02.06.2017	(54) SEALING MEMBER FOR PROSTHETIC	A61F 2/40
(54) CONTROL ARM FOR ROBOTIC	HEART VALVE	B29C 33/12
SURGICAL SYSTEMS	(73) Edwards Lifesciences Corporation	B29C 43/02
(73) Covidien LP	(72) HOANG, Lien Huong Thi	B29C 43/36
(72) CECIL, Cameron	NGUYEN, Son V.	A61B 17/56
(74) dr. R.C. van Duijvenbode c.s.	TRAN, Vivian	B29C 33/30
(31) 201662345537 P	JOSEPH, Russell T.	B29C 33/00
(32) 03.06.2016	SIRIMANNE, Dinesh L.	B29C 43/04
(33) United States of America	NGUYEN-THIEN-NHON, Diana	(11) EP3939546
(47) 27.09.2023	NGO, Hien Tran	(21) EP20186551.6
<hr/>	RUPP, Kevin D.	(22) 17.07.2020
(51) A61B 34/20	(74) ir. F.A. Geurts c.s.	(54) DEVICE AND METHOD FOR
H04N 13/332	(31) 201815991325	PRODUCING SPACERS
A61B 34/10	201762513348 P	(73) Heraeus Medical GmbH
A61B 90/00	(32) 29.05.2018	(72) Vogt, Sebastian Dr.
(11) EP3618748	31.05.2017	Kluge, Thomas Dr.
(21) EP18725660.7	(33) United States of America	(74) ir. W.J.J.M. Kempes
(22) 04.05.2018	United States of America	(47) 11.10.2023
(54) SURGICAL NAVIGATION SYSTEM	(47) 16.08.2023	<hr/>
(73) Stryker European Operations Limited	(51) A61F 2/24	(51) A61F 9/008
(72) ÖZBEK, Christopher	(11) EP4035629	(11) EP3852703
KOSMECKI, Bartosz	(21) EP22161819.2	(21) EP19769809.5
WINNE, Christian	(22) 31.05.2018	(22) 20.09.2019
(74) J.M.H. Duyver lic.	(54) SEALING MEMBER FOR PROSTHETIC	(54) METHOD AND DEVICE FOR
(31) 17169700	HEART VALVE	DETERMINING A MINIMUM VALUE OF
(32) 05.05.2017	(73) Edwards Lifesciences Corporation	LASER ENERGY NECESSARY FOR
(33) European Patent Office (EPO)	(72) HOANG, Lien Huong Thi	THE FORMATION OF A GAS BUBBLE
(47) 25.10.2023	NGUYEN, Son V.	(73) Keranova
<hr/>	NGO, Hien Tran	(72) BERNARD, Aurélien
(51) A61B 90/00	SIRIMANNE, Dinesh L.	BAUBEAU, Emmanuel
H04N 21/431	RUPP, Kevin D.	(74) J.M.H. Duyver lic.
H04N 21/436	TRAN, Vivian	(31) 1858534
A61B 1/00	JOSEPH, Russell T.	(32) 20.09.2018
G06F 3/0481	NGUYEN-THIEN-NHON, Diana	(33) France
G06F 3/0482	(74) ir. F.A. Geurts c.s.	(47) 20.09.2023
G16H 40/63	(31) 201815991325	<hr/>
(11) EP3342365	201762513348 P	(51) A61F 13/47
(21) EP16850939.6		A61F 13/49
(22) 16.08.2016		A61F 13/505

A61F 13/51	A61Q 19/00	(11) EP2916820
A61F 13/515	(11) EP3733157	(21) EP13852801.3
(11) EP3858313	(21) EP20170325.3	(22) 21.10.2013
(21) EP19886776.4	(22) 20.04.2020	(54) DELIVERY OF BIOLOGICALLY-ACTIVE AGENTS USING VOLATILE, HYDROPHOBIC SOLVENTS
(22) 20.11.2019	(54) COMPOSITION CONTAINING AT LEAST ONE CERAMIDE, AT LEAST ONE SPHINGOID BASE AND TRIETHYL CITRATE	(73) Rochal Technologies LLC
(54) ABSORBENT PAD FOR UNDERWEIGHT BABY	(73) Evonik Operations GmbH	(72) SALAMONE, Joseph Charles
(73) Unicharm Corporation	(72) Maczkiewitz, Ursula	CHEN, Xiaoyu
(72) YAMANAKA, Yasuhiro	Maus, Lisa	REILLY, Katelyn, Elizabeth
SAKAGUCHI, Satoru	Dietl, Claudia	SALAMONE, Ann, Beal
TSUJII, Maki	van Logchem, Monica Desiree	(74) J.M.H. Duyver lic.
(74) J.M.H. Duyver lic.	Mecking, Maria	(31) 201261723113 P
(31) 2018219679	Salmira-Petersen, Manuela	(32) 06.11.2012
(32) 22.11.2018	Blasko-Begoihn, Heike	(33) United States of America
(33) Japan	(74) ir. W.J.J.M. Kempes	(47) 11.10.2023
(47) 25.10.2023	(31) 19171845	(51) A61K 9/14
(51) A61H 9/00	(32) 30.04.2019	A61K 9/51
(11) EP3846765	(33) European Patent Office (EPO)	A61K 9/50
(21) EP19790445.1	(47) 30.08.2023	A61K 41/00
(22) 11.10.2019	(51) A61K 9/00	A61K 49/00
(54) DEVICE FOR DRY MASSAGE BY MEANS OF WATER JETS	C07K 16/00	(11) EP3790534
(73) JK-Holding GmbH	A61K 9/08	(21) EP19720106.4
(72) GERSTENMEIER, Jürgen	A61K 9/19	(22) 24.04.2019
(74) ir. H.Th. van den Heuvel c.s.	A61K 38/00	(54) NANOPARTICLE COMPRISING A BIO-RESORBABLE POLYESTER, A HYDROPHILIC POLYMER AND AN ACYLATED HUMAN LACTOFERRIN-DERIVED PEPTIDE
(31) 102018125146	A61K 39/00	(73) Evonik Operations GmbH
(32) 11.10.2018	A61K 47/02	(72) BENEDIKT, Anne
(33) Germany	A61K 47/18	GRIMM, Silko
(47) 27.09.2023	A61K 47/26	DIEKER, Jürgen
(51) A61K 8/02	A61K 39/395	NABBEFELD, Rike
A61K 8/19	(11) EP3443346	BARON VAN ASBECK, Alexander Henrik
A61Q 1/02	(21) EP17782960.3	ENGEL, Andrea
A61Q 1/12	(22) 11.04.2017	BROCK, Roland
(11) EP3501483	(54) USE OF AMINO ACIDS AS STABILIZING COMPOUNDS IN PHARMACEUTICAL COMPOSITIONS CONTAINING HIGH CONCENTRATIONS OF PROTEIN-BASED THERAPEUTIC AGENTS	(74) ir. W.J.J.M. Kempes
(21) EP18185612.1	(73) Medimmune, LLC	(31) 18171195
(22) 25.07.2018	(72) PATEL, Sajal, Manubhai CHOUDHARY, Sureshkumar, Bhanaram	(32) 08.05.2018
(54) DYNAMIC MAKE-UP PRODUCT	(74) ir. W.J.J.M. Kempes	(33) European Patent Office (EPO)
(73) HYDRAIN K S.r.l.	(31) 201662321895 P	(47) 30.08.2023
(72) D'Alessandri, Riccardo	(32) 13.04.2016	(51) A61K 31/202
(74) J.M.H. Duyver lic.	(33) United States of America	A61K 31/232
(31) 201700148041	(47) 30.08.2023	A61K 31/715
(32) 21.12.2017	(51) A61K 9/107	A23L 33/12
(33) Italy	A61K 36/886	A61P 17/00
(47) 13.09.2023	A61K 36/537	A61P 17/16
(51) A61K 8/02	A61K 36/534	A61P 27/00
A61K 8/26	A61K 45/06	A61P 37/08
A61K 8/34	A61K 47/34	A61P 43/00
A61K 8/81	A61K 47/06	A61K 31/66
A61K 8/891	A61K 47/20	A61P 11/06
A61K 8/36	A61K 31/155	A61P 35/00
A61K 8/73	A61K 31/37	(11) EP3581178
A61Q 19/00	A61K 31/395	(21) EP19183855.6
(11) EP3656369	A61K 31/4174	(22) 10.02.2006
(21) EP19210429.7	A61K 31/7036	(54) COMPOSITION CONTAINING DIHOMO-(GAMMA)-LINOLENIC ACID (DGLA) AS ACTIVE INGREDIENT
(22) 20.11.2019	A61K 33/30	(73) Suntory Holdings Limited
(54) COMPOSITION FOR IMPREGNATING PERSONAL CARE WIPES COMPRISING A LAYERED SILICATE	A61K 33/38	(72) KAWASHIMA, Hiroshi
(73) Arion Holding B.V.	A61P 1/08	TATEISHI, Norifumi
(72) Joosten, Erik	A61P 25/04	(74) ir. F.A. Geurts c.s.
De Kogel, Christina Emmerentia	A61P 31/00	(31) 2005133271
(74) dr. ir. G.J.C. Verdijk c.s.	A61P 31/04	2005133264
(31) 2022049	A61P 43/00	2005036235
(32) 22.11.2018		(32) 28.04.2005
(33) Netherlands		
(47) 30.08.2023		
(51) A61K 8/37		
A61K 8/68		

28.04.2005	(33) United States of America	(21) EP15788711.8
14.02.2005	(47) 16.08.2023	(22) 07.05.2015
(33) Japan	(51) A61K 35/17	(54) COMPOSITIONS AND METHODS FOR TREATING SKIN AND MUCOUS MEMBRANE DISEASES
Japan	A61K 31/454	
Japan	A61P 35/00	
(47) 30.08.2023	(11) EP3618842	(73) The Regents of the University of California
(51) A61K 31/435	(21) EP18730161.9	The United States Government as represented by the Department of Veterans Affairs
A61P 35/00	(22) 01.05.2018	
(11) EP3471722	(54) COMBINATION OF A CELL THERAPY AND AN IMMUNOMODULATORY COMPOUND	(72) KIM, Jenny, J.
(21) EP17813776.6	(73) Juno Therapeutics, Inc.	CHAMPER, Jackson
(22) 31.05.2017	(72) WORKS, Melissa	YU, Yang
(54) COMPOUNDS, COMPOSITIONS AND METHODS FOR PREVENTION AND/OR TREATMENT OF CANCER	PORTS, Michael	(74) dr. R.C. van Duijvenbode c.s.
(73) The Trustees of the University of Pennsylvania	JONES, Jon	(31) 201461989818 P
(72) RIDKY, Todd	KUGLER, David, G.	(32) 07.05.2014
WINKLER, Jeffrey	SONI, Neha	(33) United States of America
NATALE, Christopher	SALMON, Ruth	(47) 06.09.2023
(74) dr. R.C. van Duijvenbode c.s.	BATUREVYCH, Oleksandr	(51) A61K 35/744
(31) 201662367174 P	HAUSE, Ronald, James, Jr.	A61K 35/747
201662351599 P	JOHNSTONE, Timothy, G.	A61P 1/00
(32) 27.07.2016	(74) dr. R.C. van Duijvenbode c.s.	A61P 1/04
17.06.2016	(31) 201762596753 P	A61P 1/10
(33) United States of America	201762580433 P	A61P 1/12
United States of America	201762549390 P	A61K 36/8998
(47) 25.10.2023	201762538670 P	(11) EP3329927
(51) A61K 31/436	201762492947 P	(21) EP17198980.9
A61K 45/06	(32) 08.12.2017	(22) 16.11.2012
A61K 31/352	01.11.2017	(54) IBS TREATMENT WITH PROBIOTICS
A61P 35/00	23.08.2017	(73) Multigerm UK Enterprises Ltd.
(11) EP3641819	29.07.2017	(72) SMITH, Barry Edward
(21) EP18737374.1	01.05.2017	(74) dr. R.C. van Duijvenbode c.s.
(22) 21.06.2018	(33) United States of America	(31) 201121207
(54) USE OF CANNABIDIOL IN THE TREATMENT OF TUBEROUS SCLEROSIS COMPLEX	United States of America	201119774
(73) GW Research Limited	United States of America	(32) 09.12.2011
(72) BAZELOT, Michael	United States of America	16.11.2011
WILLIAMS, Claire	United States of America	(33) United Kingdom
DE SILVA SERRA, Ines	United States of America	United Kingdom
WHALLEY, Benjamin	(47) 18.10.2023	(47) 27.09.2023
TEE, Andrew	(51) A61K 35/17	(51) A61K 36/899
GRAY, Royston	A61P 35/00	A61K 36/15
HIND, William	C07K 14/36	A61K 36/42
(74) dr. A. Krebs	C07K 14/725	A61K 31/355
(31) 201710042	C07K 16/28	A61P 13/02
(32) 23.06.2017	C12N 5/00	A61P 13/10
(33) United Kingdom	C12N 5/0783	A61P 13/00
(47) 11.10.2023	(11) EP3877054	(11) EP3911347
(51) A61K 31/7024	(21) EP19835949.9	(21) EP20700172.8
A61K 35/742	(22) 05.11.2019	(22) 13.01.2020
A61P 31/04	(54) PROCESS FOR PRODUCING GENETICALLY ENGINEERED T CELLS	(54) COMPOSITION FOR FOR USE IN THE TREATMENT OF URINARY INCONTINENCE IN WOMEN
(11) EP3634444	(73) Juno Therapeutics, Inc.	(73) AXEEN PHARMA S.A.R.L.
(21) EP18813845.7	(72) COOPER, Sara	(72) MORRA, Sossio
(22) 06.06.2018	COSSETTE, Daniel	(74) ir. W.J.J.M. Kempes
(54) COMPOSITIONS FOR USE IN THE TREATMENT OF HELICOBACTER PYLORI	TEOH, Jeffrey	(31) 1900478
(73) Sami-Sabinsa Group Limited	LARSON, Ryan	(32) 18.01.2019
(72) MAJEED, Muhammed	(74) dr. R.C. van Duijvenbode c.s.	(33) France
NAGABHUSHANAM, Kalyanam	(31) 201962798457 P	(47) 04.10.2023
ARUMUGAM, Sivakumar	201862756571 P	(51) A61K 38/00
ALI, Furqan	(32) 29.01.2019	A61P 7/02
MAJEED, Shaheen	06.11.2018	(11) EP3936140
(74) dr. R.C. van Duijvenbode c.s.	(33) United States of America	(21) EP21173294.6
(31) 201762516066 P	United States of America	(22) 23.01.2018
(32) 06.06.2017	(47) 01.11.2023	(54) THROMBOLYTIC AGENT FOR THE TREATMENT OF THROMBOEMBOLISM
	(51) A61K 35/66	(73) Boston Scientific Scimed, Inc.
	A61K 35/74	(72) ALLEN, Lynn Gourley
	A61K 35/76	
	A61P 17/00	
	(11) EP3139939	

- (74) ir. A.R. Aalbers
(31) 201762449966 P
(32) 24.01.2017
(33) United States of America
(47) 30.08.2023
-
- (51) A61K 38/00
A61P 35/00
A61K 33/06
A61K 33/02
A61K 33/42
C01B 25/34
C07K 17/00
(11) EP3998075
(21) EP21210111.7
(22) 14.06.2018
(54) NH4MGPO4 X 6H2O,
(NH4)2MGH2(PO4)2 X 4H2O,
(NH4)2MG3(HPO4)4 X 8H2O AND
NH4MGPO4 X H2O ASSOCIATED OR
NOT TO HYDROLYTIC ENZYMES FOR
USE IN THE TREATMENT OF CANCER
(73) Universidade Estadual de Campinas -
Unicamp
(72) FAVARO, Wagner Jos
CABALLERO, Nelson Eduardo Duran
(74) dr. R.C. van Duijvenbode c.s.
(31) 102017012768
(32) 14.06.2017
(33) Brazil
(47) 25.10.2023
-
- (51) A61K 38/00
C07K 7/64
(11) EP3087087
(21) EP13820780.8
(22) 27.12.2013
(54) BETA-HAIRPIN PEPTIDOMIMETICS AS
SELECTIVE ELASTASE INHIBITORS
(73) Polyphor Ag
(72) GOMBERT, Frank Otto
OBRECHT, Daniel
SELLIER-KESSLER, Odile
(47) 21.07.2021
-
- (51) A61K 38/10
A61K 38/08
A61K 9/00
G02B 1/04
A61P 27/02
A61P 27/06
(11) EP3768296
(21) EP19714061.9
(22) 15.03.2019
(54) SAP AND PEPTIDOMIMETICS FOR
TREATMENT OF EYE DISEASE
(73) Arch Biosurgery, Inc.
(72) NORCHI, Terrence W.
ELLIS-BEHNKE, Rutledge
(74) ir. W.J.J.M. Kempes
(31) 201862647184 P
(32) 23.03.2018
(33) United States of America
(47) 06.09.2023
-
- (51) A61K 38/26
A61K 38/38
A61P 25/28
(11) EP3393496
(21) EP16880108.2
(22) 22.12.2016
- (54) LONG-ACTING GLP-1R AGONIST AS
A THERAPY OF NEUROLOGICAL AND
NEURODEGENERATIVE CONDITIONS
(73) The Johns Hopkins University
(72) YUN, Seung, Pil
LEE, Seulki
DAWSON, Ted, M.
SCULLY, Magdalena
DAWSON, Valina, L.
KO, Han, Seok
(74) ir. W.J.J.M. Kempes
(31) 201562387319 P
(32) 23.12.2015
(33) United States of America
(47) 11.10.2023
-
- (51) A61K 39/00
A61K 45/00
A61K 47/00
A61P 31/04
A61P 31/16
(11) EP3223846
(21) EP15862713.3
(22) 27.11.2015
(54) ADJUVANT COMPOSITIONS AND
RELATED METHODS
(73) Huvepharma, Inc.
(72) MILLER, Timothy J.
PFANNENSTIEL, Mary Ann
(74) J.M.H. Duyver lic.
(31) 201562137659 P
201462084698 P
(32) 24.03.2015
26.11.2014
(33) United States of America
United States of America
(47) 06.09.2023
-
- (51) A61K 39/00
C07K 7/06
A61K 38/08
A61P 25/00
(11) EP3388074
(21) EP18173825.3
(22) 23.02.2009
(54) MIMOTOPE
(73) AC Immune SA
(72) MANDLER, Markus
WENINGER, Harald
SANTIC, Radmila
KOPINITS, Edith
(74) dr. R.C. van Duijvenbode c.s.
(31) 2972008
(32) 22.02.2008
(33) Austria
(47) 23.08.2023
-
- (51) A61K 47/54
A61K 33/34
A61K 47/69
A61P 27/06
A61P 25/16
B82Y 5/00
(11) EP3886917
(21) EP19910313.6
(22) 28.06.2019
(54) COPPER NANOCLUSTERS,
COMPOSITION COMPRISING
THE SAME, AND TREATMENT OF
NEURODEGENERATIVE DISEASES
- (73) Wuhan Vast Conduct Science
Foundation Co., Ltd.
(72) CHANG, Baisong
SUN, Taolei
(74) dr. A. Krebs
(31) PCT/CN2019/071901
(32) 16.01.2019
(33) World Intellectual Property Office (WIPO)
(47) 23.08.2023
-
- (51) A61K 47/60
A61K 47/50
A61P 35/00
A61K 31/496
(11) EP3928835
(21) EP20861942.9
(22) 17.07.2020
(54) WATER-SOLUBLE POLYMERIC
DERIVATIVE OF VENETOCLAX
(73) Delta-Fly Pharma, Inc.
(72) ESHIMA, Kiyoshi
ISHIDA, Tatsuhiro
(74) dr. ir. F.M. van Bouwelen
(31) 2020084919
(32) 14.05.2020
(33) Japan
(47) 25.10.2023
-
- (51) A61M 1/16
A61B 5/1455
A61B 5/00
A61M 1/36
G01N 21/25
G01N 21/85
(11) EP4126102
(21) EP21721602.7
(22) 31.03.2021
(54) BLOOD FILTERING MACHINE
PROVIDED WITH A MEASURING
SYSTEM COMPRISING OPTICAL
SENSORS
(73) Medica S.p.A.
(72) MOLINARI, Riccardo
BAGNOLI, Davide
(74) ir. J.C. Volmer c.s.
(31) 202000006706
(32) 31.03.2020
(33) Italy
(47) 27.09.2023
-
- (51) A61M 3/02
(11) EP3439714
(21) EP17718459.5
(22) 07.04.2017
(54) FECAL COLLECTION DEVICE
(73) Hollister Incorporated
(72) CULLUM, Malford, E.
HENRY, Jerome, A.
(74) ir. W.J.J.M. Kempes
(31) 201662320002 P
(32) 08.04.2016
(33) United States of America
(47) 08.11.2023
-
- (51) A61M 15/00
(11) EP3762077
(21) EP19709685.2
(22) 06.03.2019
(54) INHALER
(73) Astrazeneca AB
(72) INGRAM, Simon
HURLSTONE, Chris

DAINTREY, Joe	(21) EP19729892.0	C07K 19/00
KARLSSON, Martin	(22) 24.04.2019	C07K 16/28
BERRY, Simon	(54) STIMULATION WAVEFORMS WITH	C07K 14/725
CEREDA, Valerio, Lelio	HIGH-AND LOW-FREQUENCY	(11) EP3362472
CHRISTOFFERSON, Jake	ASPECTS IN AN IMPLANTABLE	(21) EP16856410.2
ISAACS, Warren	STIMULATOR DEVICE	(22) 17.10.2016
HALKET, Andrew	(73) Boston Scientific Neuromodulation	(54) COMPOSITIONS AND METHODS FOR
DUCCE, Rune	Corporation	INHIBITION OF LINEAGE SPECIFIC
LEEDER, Charlotte	(72) MARNFELDT, Goran, N.	ANTIGENS
TRENEMAN, Bill	GURURAJ, Kiran, K.	(73) The Trustees of Columbia University in
(74) ir. W.J.J.M. Kempes	CARBUNARU, Rafael	the City of New York
(31) 201862639704 P	(74) ir. A.R. Aalbers	(72) MUKHERJEE, Siddhartha
(32) 07.03.2018	(31) 201862670551 P	BOROT, Florence
(33) United States of America	(32) 11.05.2018	MAHMOOD ALI, Abdullah
(47) 20.09.2023	(33) United States of America	(74) J.M.H. Duyver lic.
(51) A61M 16/06	(47) 30.08.2023	(31) 201562242685 P
A61M 11/06	(51) A61N 1/36	(32) 16.10.2015
(11) EP4037745	A61B 5/24	(33) United States of America
(21) EP20799863.4	A61B 5/00	(47) 30.08.2023
(22) 28.09.2020	A61N 1/05	(51) A61P 37/06
(54) NASAL CANNULA WITH INTEGRATED	(11) EP3870274	A61P 37/04
NEBULIZER	(21) EP19876581.0	A61P 35/02
(73) SunMed Group Holdings, LLC	(22) 22.10.2019	A61P 13/12
(72) VARGA, Christopher M.	(54) DEVICE FOR CONTROLLED NEURAL	A61P 7/06
(74) dr. R.C. van Duijvenbode c.s.	STIMULATION	A61P 7/04
(31) 201962908512 P	(73) Saluda Medical Pty Ltd	B01L 3/00
(32) 30.09.2019	(72) PARKER, John Louis	C12M 3/06
(33) United States of America	GORMAN, Robert Bruce	C12N 5/077
(47) 23.08.2023	(74) ir. W.J.J.M. Kempes	A61P 35/00
(51) A61M 60/17	(31) 2018904011	A61K 35/28
A61M 60/268	(32) 23.10.2018	A61P 7/00
A61M 60/295	(33) Australia	A01N 1/02
A61M 60/427	(47) 13.09.2023	(11) EP3354343
A61M 60/497	(51) A61P 7/00	(21) EP18154384.4
A61M 60/837	A61P 9/00	(22) 31.05.2012
A61M 60/843	A61P 19/10	(54) METHODS AND USES FOR EX VIVO
A61M 60/861	A61P 25/00	TISSUE CULTURE SYSTEMS
A61M 60/869	A61P 25/28	(73) Children's Medical Center, Corp.
A61M 60/894	C07C 229/08	President and Fellows of Harvard
(11) EP4010043	C07D 475/04	College
(21) EP20754364.6	A61K 31/519	(72) MAMMOTO, Akiko
(22) 13.07.2020	(11) EP3817814	SPINA, Catherine
(54) CARDIAC CHAMBER PROSTHESIS	(21) EP19737497.8	INGBER, Donald
AND RELATED CARDIAC ASSISTANCE	(22) 02.07.2019	TORISAWA, Yusuke
SYSTEM	(54) CRYSTALLINE SALTS OF 5-METHYL-	MAMMOTO, Tadanori
(73) Romano, Salvatore	(6S)-TETRAHYDROFOLIC ACID AND L-	HAMILTON, Geraldine
(72) Romano, Salvatore	VALINE ETHYL ESTER	(74) J.M.H. Duyver lic.
(74) ir. W.J.J.M. Kempes	(73) Merck Patent GmbH	(31) 201261601745 P
(31) 201900011640	(72) MOSER, Rudolf	201161492609 P
(32) 12.07.2019	BOEHNI STAMM, Ruth	(32) 22.02.2012
(33) Italy	BLATTER, Fritz	02.06.2011
(47) 30.08.2023	SZELAGIEWICZ, Martin	(33) United States of America
(51) A61N 1/05	GROEHN, Viola	United States of America
(11) EP3383479	(74) ir. H.A. Witmans c.s.	(47) 06.09.2023
(21) EP16871140.6	(31) 18182281	(51) A63F 13/24
(22) 21.11.2016	(32) 06.07.2018	A63F 13/21
(54) HAEMORRHAGE AVOIDING	(33) European Patent Office (EPO)	A63F 13/213
MICROELECTRODE	(47) 20.09.2023	A63F 13/214
(73) Neuronano AB	(51) A61P 35/00	G06F 3/0338
(72) SCHOUENBORG, Jens	A61P 35/02	(11) EP3741438
MOHAMMED, Mohsin	C07K 14/705	(21) EP20186228.1
(74) dr. A. Ellens c.s.	A61P 43/00	(22) 11.07.2013
(31) 1500491	C12N 5/0789	(54) OPERATING DEVICE
(32) 30.11.2015	A61K 35/12	(73) Sony Interactive Entertainment Inc.
(33) Sweden	A61K 39/00	(72) IGARASHI, Takeshi
(47) 13.09.2023	C07K 16/30	ENOMOTO, Kazuyoshi
(51) A61N 1/36	A61K 35/28	AOKI, Toshimasa
(11) EP3755426	A61K 35/17	MORITA, Masaho

(74) ir. W.J.J.M. Kempes	(74) J.M.H. Duyver lic.	(31) 20171182
(31) 2013029458	(31) 201762561987 P	(32) 23.04.2020
2012228481	(32) 22.09.2017	(33) European Patent Office (EPO)
(32) 18.02.2013	(33) United States of America	(47) 27.09.2023
15.10.2012	(47) 30.08.2023	(51) B01J 12/00
(33) Japan	(51) B01D 63/02	C10L 3/12
Japan	B01D 63/04	C10G 3/00
(47) 30.08.2023	C02F 3/12	C07C 1/20
(51) A63F 13/355	(11) EP4017618	B01J 19/30
A63F 13/35	(21) EP20767976.2	B01J 8/04
A63F 13/352	(22) 19.08.2020	(11) EP3705178
(11) EP3606628	(54) POTTING SYSTEM WITH POTTING	(21) EP19020106.1
(21) EP18716456.1	UNIT HAVING COMPRESSION SEAL	(22) 06.03.2019
(22) 20.03.2018	(73) Oxymem Limited	(54) METHOD AND SYSTEM FOR THE
(54) SYSTEMS AND METHODS FOR USING	(72) SYRON, Eoin	PRODUCTION OF OLEFINS FROM
A DISTRIBUTED GAME ENGINE	BYRNE, Wayne	OXYGENATES
(73) Sony Interactive Entertainment America	LYNCH, Donal	(73) L'AIR LIQUIDE, SOCIÉTÉ ANONYME
LLC	HEFFERNAN, Barry	POUR L'ÉTUDE ET L'EXPLOITATION
(72) COLENBRANDER, Roelof, Roderick	(74) ir. H.A. Witmans c.s.	DES PROCÉDÉS GEORGES CLAUDE
(74) ir. W.J.J.M. Kempes	(31) 19193478	(72) JANKO, Lutz
(31) 201715477341	(32) 23.08.2019	GORNY, Martin
(32) 03.04.2017	(33) European Patent Office (EPO)	HAAG, Stéphane
(33) United States of America	(47) 23.08.2023	AHLERS, Bernd
(47) 13.09.2023	(51) B01F 23/231	(74) ir. W.J.J.M. Kempes
(51) A63G 7/00	B01F 23/2361	(47) 30.08.2023
(11) EP3574967	B01F 23/236	(51) B01J 19/00
(21) EP18175006.8	B01F 35/60	(11) EP3960286
(22) 30.05.2018	(11) EP3571152	(21) EP20192920.5
(54) RETENTION DEVICE FOR SECURING	(21) EP17892101.1	(22) 26.08.2020
A USER DURING A RIDE	(22) 16.03.2017	(54) METHOD AND APPARATUS FOR
(73) Raw Tex International Establishment	(54) CARBONATION MACHINE WITH	ANALYZING SOLIDS
(72) Ryffel, Martin	PNEUMATICALLY OPERATED VALVE	(73) HTE GmbH The High Throughput
(74) ir. W.J.J.M. Kempes	AND METHOD OF OPERATION	Experimentation Company
(47) 16.08.2023	(73) SodaStream Industries Ltd.	(72) REINING, Sven
(51) B01D 15/36	(72) WAISMAN, Alon	SCHULZ, Christian
C07K 16/00	(74) J.M.H. Duyver lic.	TROTUS, Ioan-Teodor
C07K 1/18	(31) 201715407327	SCHUNK, Stephan A
C07K 14/705	(32) 17.01.2017	WITTICH, Knut
C07K 14/715	(33) United States of America	DEJMEK, Michael
C07K 1/22	(47) 23.08.2023	HANF, Schirin
C07K 16/06	(51) B01J 8/00	(74) ir. W.J.J.M. Kempes
B01D 15/18	B01J 8/06	(47) 16.08.2023
B01D 15/38	B01J 19/08	(51) B01L 3/00
A61P 17/06	(11) EP4139036	G01N 33/487
A61P 19/02	(21) EP21722142.3	(11) EP3717122
A61P 29/00	(22) 22.04.2021	(21) EP18811633.9
(11) EP3395423	(54) REACTOR AND METHOD FOR	(22) 23.11.2018
(21) EP18168494.5	PERFORMING A CHEMICAL	(54) MICROFLUIDIC DEVICE
(22) 11.03.2014	REACTION	(73) Oxford Nanopore Technologies plc
(54) REMOVAL OF LEAKED AFFINITY	(73) Linde GmbH	(72) WATERMAN, David
PURIFICATION LIGAND	BASF SE	(74) dr. W.A.H.M. Van Borm
(73) Amgen Inc.	(72) HOFSTÄTTER, Martin	(31) 201719855
(72) TREJO, Samuel Ray	ZELLHUBER, Mathieu	(32) 29.11.2017
BRAKE, Robert Perry	REISER, Peter	(33) United Kingdom
(74) dr. R.C. van Duijvenbode c.s.	KIESE, Georg	(47) 16.08.2023
(31) 201361785038 P	ZIEGLER, Christian	(51) B04B 1/08
(32) 14.03.2013	STEGEMANN, Robert	B04B 7/02
(33) United States of America	AENGENHEISTER, Jens	B04B 7/08
(47) 20.09.2023	FEIGL, Jürgen	B04B 9/04
(51) B01D 53/26	WELLENHOFER, Anton	B04B 9/12
F24F 3/14	DELHOMME-NEUDECKER, Clara	B04B 11/02
(11) EP3669128	SHUSTOV, Andrey	(11) EP3717132
(21) EP18857866.0	JENNE, Eric	(21) EP18804286.5
(22) 24.09.2018	KOCHENDÖRFER, Kiara Aenne	(22) 15.11.2018
(54) AIR-WATER EXTRACTION SYSTEM	LAIB, Heinrich	(54) SEPARATOR
(73) Skyre, Inc.	KÜHN, Heinz-Jürgen	(73) GEA Mechanical Equipment GmbH
(72) MOLTER, Trent	JACOB, Reiner	(72) GÖHMANN, Rüdiger
PRESTON, Joshua	(74) ir. W.J.J.M. Kempes	(74) dr. R.C. van Duijvenbode c.s.

(31) 102017128027	(73) Ottobock SE & Co. KGaA	B33Y 30/00
(32) 27.11.2017	(72) KROLL-ORYWAHL, Olaf	(11) EP3946862
(33) Germany	HARDT, Alexander	(21) EP20716406.2
(47) 06.09.2023	(74) dr. R.C. van Duijvenbode c.s.	(22) 25.03.2020
(51) B04B 5/12	(31) 102018119755	(54) METHOD FOR PRODUCING A
B01D 45/14	(32) 14.08.2018	BUILDING COMPONENT, SYSTEM
B01D 47/16	(33) Germany	FOR PRODUCING A BUILDING
B01D 50/40	(47) 27.09.2023	COMPONENT AND BUILDING
(11) EP3171960	(51) B25J 9/00	COMPONENT
(21) EP15741295.8	(11) EP4067009	(73) Putzmeister Engineering GmbH
(22) 20.07.2015	(21) EP21166466.9	(72) HÄFNER, Jens
(54) CENTRIFUGAL ABATEMENT	(22) 31.03.2021	HUTH, Tobias
SEPARATOR	(54) DEVICE FOR SUPPORTING AT LEAST	MÖGLE, Peter
(73) Edwards Limited	ONE UPPER ARM	KASTEN, Knut
(72) SEELEY, Andrew James	(73) Ottobock SE & Co. KGaA	(74) ir. F.A. Geurts c.s.
(74) ir. F.A. Geurts c.s.	(72) MERKER, Maximilian Anton	(31) 102019204230
(31) 201412878	SCHWEDHELM, Pascal	(32) 27.03.2019
(32) 21.07.2014	MIZERA, Oliver	(33) Germany
(33) United Kingdom	KÄSMANN, Simon	(47) 06.09.2023
(47) 06.09.2023	RÖSCHEL, Fabienne	(51) B29C 45/14
(51) B05B 3/04	KROLL-ORYWAHL, Olaf	B29C 44/12
(11) EP3888796	BORNMANN, Jonas	A42C 2/00
(21) EP21175971.7	MLADEK, Markus	B29C 31/00
(22) 05.11.2018	VOGEL, Carsten	B29K 25/00
(54) ROTARY JET NOZZLE ASSEMBLY FOR	FINKE, Lars Benjamin	B29L 31/48
PRESSURE CLEANING DEVICES	SCHIRRMESTER, Benjamin	B29C 44/34
(73) P.A. S.p.A.	BREMER, Michael	B29C 44/44
(72) BENETTI, Arnaldo	TÜTTEMANN, Markus	(11) EP4023411
(74) dr. A. Ellens c.s.	LANZINGER, Michael	(21) EP21218174.7
(47) 30.08.2023	(74) dr. R.C. van Duijvenbode c.s.	(22) 29.12.2021
(51) B05B 17/08	(47) 06.09.2023	(54) MOLD FOR THE MANUFACTURE OF
B05B 3/06	(51) B25J 19/00	SPORTING HELMETS, IN PARTICULAR
B05B 1/22	B25J 9/08	CYCLING HELMETS AND RELATIVE
B05B 9/04	H02G 11/00	PROCESS FOR MOLDING SUCH
(11) EP3791964	(11) EP3738729	SPORTING HELMETS
(21) EP19800147.1	(21) EP20163126.4	(73) KASK S.p.A.
(22) 12.04.2019	(22) 13.03.2020	(72) GOTTI, Angelo
(54) FOUNTAIN DEVICE	(54) RETRACTION SYSTEM FOR AN	(74) J.M.H. Duyver lic.
(73) Tsurumi Manufacturing Co., Ltd.	INDUSTRIAL ROBOT	(31) 202000032948
(72) TANAKA, Shizuo	(73) Sumcab Specialcable GmbH	(32) 31.12.2020
(74) dr. R.C. van Duijvenbode c.s.	(72) SCHÜTZ, Lothar	(33) Italy
(31) 2018090842	(74) ir. W.J.J.M. Kempes	(47) 16.08.2023
(32) 09.05.2018	(31) 102019112401	(51) B29C 48/05
(33) Japan	(32) 13.05.2019	B29C 48/68
(47) 08.11.2023	(33) Germany	B29C 64/321
(51) B22D 41/24	(47) 30.08.2023	B29C 64/343
B22D 41/34	(51) B26D 1/18	B29C 64/209
B22D 41/38	B26D 3/00	B29C 48/53
(11) EP3930941	B26D 5/28	B29C 48/505
(21) EP20706745.5	(11) EP3835014	B29C 48/02
(22) 27.02.2020	(21) EP20204247.9	B29C 48/80
(54) SLIDING GATE VALVE COMPRISING A	(22) 28.10.2020	B29C 48/30
CARRIAGE	(54) METHOD OF CUTTING A STRIP	B29C 48/875
(73) Vesuvius Group (SA)	OF MATERIAL WITH A PLURALITY	(11) EP3463799
(72) BUTTS, Jeffrey	OF RUBBERIZED STEEL CORD	(21) EP16778189.7
QUINN, Jason	FILAMENTS	(22) 27.05.2016
(74) dr. ir. G.J.C. Verdijck c.s.	(73) Continental Reifen Deutschland GmbH	(54) SYSTEM FOR THE ADDITIVE
(31) 19160063	(72) Feiler, Nikolaj	MANUFACTURE OF METAL PARTS
(32) 28.02.2019	Berndt, Malte	(73) AIM3D GmbH
(33) European Patent Office (EPO)	Ridder, Jörn	(72) LIEBERWIRTH, Clemens
(47) 30.08.2023	(74) ir. W.J.J.M. Kempes	SEITZ, Hermann
(51) B25J 9/00	(31) 102019219571	(74) ir. H.A. Witmans c.s.
(11) EP3837094	(32) 13.12.2019	(47) 13.09.2023
(21) EP19749636.7	(33) Germany	(51) B29C 64/10
(22) 25.07.2019	(47) 11.10.2023	B29C 64/393
(54) DEVICE FOR SUPPORTING AT LEAST	(51) B28B 1/00	B33Y 50/02
ONE ARM OF A USER	E04G 21/04	(11) EP3822063
	B28B 23/00	(21) EP19209200.5

- (22) 14.11.2019
(54) QUALITY MONITORING ON 3D PRINTERS
(73) manroland Goss web systems GmbH
grapho metronic Mess- und Regeltechnik GmbH
(72) Kratochwill, Jürgen
Schönert, Michael
(74) dr. ir. G.J.C. Verdijck c.s.
(47) 27.09.2023
(51) B29D 30/06
(11) EP3717220
(21) EP18816254.9
(22) 27.11.2018
(54) MOULDING ELEMENTS COMPRISING A PARTICULAR ASSEMBLY MEANS
(73) Compagnie Générale des Etablissements Michelin
(72) BARDIN, Damien
CHIGROS, Pierre
(74) ir. W.J.J.M. Kempes
(31) 1771286
(32) 30.11.2017
(33) France
(47) 30.08.2023
(51) B29D 30/06
(11) EP3727820
(21) EP18826423.8
(22) 28.11.2018
(54) SIPE BLADE ASSEMBLY
(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN
(72) CHIGROS, Pierre
BARDIN, Damien
(74) ir. W.J.J.M. Kempes
(31) 1762364
(32) 18.12.2017
(33) France
(47) 30.08.2023
(51) B29D 30/06
B29C 33/44
(11) EP3983212
(21) EP20742806.1
(22) 12.06.2020
(54) TWO-PART MOULD FOR VULCANISING TYRES
(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN
(72) FERRI, Johan
LEPRETRE, Jérôme
(74) ir. W.J.J.M. Kempes
(31) 1906357
(32) 14.06.2019
(33) France
(47) 30.08.2023
(51) B29D 30/24
B29D 30/32
(11) EP4007694
(21) EP20756929.4
(22) 28.07.2020
(54) EXPANDABLE DRUM FOR SHAPING PNEUMATIC TYRES THAT COMPRISES A PARALLELOGRAM-TYPE EXPANDER DEVICE FOR RETAINING THE BEAD WIRE
(73) Compagnie Générale des Etablissements Michelin
(72) TORRES-CASTELLANO, Miguel
(74) ir. W.J.J.M. Kempes
(31) 1908823
(32) 01.08.2019
(33) France
(47) 30.08.2023
(51) B32B 37/18
B65H 5/30
B32B 38/14
(11) EP3895894
(21) EP21167824.8
(22) 12.04.2021
(54) SHEET SEPARATION DEVICE, SHEET LAMINATOR, IMAGE FORMING APPARATUS, AND IMAGE FORMING SYSTEM
(73) Ricoh Company, Ltd.
(72) ASANO, Sho
SUZUKI, Yoshito
AKIYAMA, Joji
HARAGUCHI, Yohsuke
NOZAKI, Wataru
TAKAHASHI, Wataru
FURUHASHI, Tomohiro
MONMA, Shinya
(74) ir. H.A. Witmans c.s.
(31) 2020072999
(32) 15.04.2020
(33) Japan
(47) 23.08.2023
(51) B33Y 10/00
B33Y 70/00
C08K 3/36
C08G 18/81
C08G 18/75
C08G 18/42
C08G 18/24
C08F 290/06
B33Y 80/00
C08K 3/04
(11) EP4076959
(21) EP20816491.3
(22) 04.12.2020
(54) ADDITIVE MANUFACTURING PROCESS WITH A COMPOSITION COMPRISING POLYESTERS
(73) Evonik Operations GmbH
(72) BLÉGER, David
ALTENBUCHNER, Peter
SPYROU, Emmanouil
PASTOR, Thomas
WILKES, Marie-Theres
WUNNICKE, Odo
WILLY, Benjamin
DIMMERLING, Maik
BÜHNING, Kim
ZATOCIL, Christiane
GOLLAN, Elke
(74) ir. W.J.J.M. Kempes
(31) 19216942
(32) 17.12.2019
(33) European Patent Office (EPO)
(47) 27.09.2023
(51) B41C 1/05
(11) EP4031374
(21) EP20736258.3
(22) 19.06.2020
(54) PRINTING PLATE AND POLYMERIC COATING MATERIAL FOR SAME
(73) Maschinenfabrik Kaspar Walter GmbH & Co. KG
Leibniz-Institut für Oberflächenmodifizierung e.V.
(72) HELMSTEDT, Ulrike
FREYER, Annette
HERRNBERGER, Helmut
FECHNER, Oliver
GSCHOSSMANN, Christoph
(74) ir. H.J.G. Lips c.s.
(31) 102019124814
(32) 16.09.2019
(33) Germany
(47) 13.09.2023
(51) B41F 13/54
B41F 13/56
B41F 13/58
B41F 13/60
B41F 17/02
B65H 45/06
B65H 45/08
B65H 45/10
B65H 35/02
B65H 35/04
(11) EP2308681
(21) EP10008872.3
(22) 26.08.2010
(54) FORMAT-VARIABLE APPARATUS FOR CUTTING PRINTED PRODUCTS AS WELL AS FOLDING APPARATUS AND PRINTING PRESS WITH SUCH APPARATUS
(73) manroland Goss web systems GmbH
(72) Keilhau, Theo
Schnell, Helmut
(74) dr. ir. G.J.C. Verdijck c.s.
(31) 102009039278
(32) 28.08.2009
(33) Germany
(47) 04.10.2023
(51) B41M 5/382
C23C 14/04
C23C 14/28
(11) EP3812161
(21) EP20203543.2
(22) 23.10.2020
(54) METHOD AND DEVICE FOR COATING A SUBSTRATE, BLANK AND PACKAGE
(73) Mayr-Melnhof Karton AG
(72) THEIS, Uwe
VORENKAMP, Harman
(74) J.M.H. Duyver lic.
(31) 102019128820
(32) 25.10.2019
(33) Germany
(47) 27.09.2023
(51) B42D 25/36
B42D 25/369
B42D 25/382
B42D 25/387
B42D 25/351
B42D 25/29
B42D 25/45
D21H 19/02
D21H 19/36
D21H 19/66
D21H 19/80
(11) EP4037913

(21) EP20786454.7	HU, Shoufeng	Netherlands
(22) 28.09.2020	GUO, Zheng-Wen	(47) 13.09.2023
(54) METHOD FOR PRODUCING A SECURITY PAPER AND SECURITY PAPER OBTAINABLE BY SAID METHOD	(74) ir. A.R. Aalbers (31) 201911103663 201910742073 (32) 12.11.2019 12.08.2019 (33) China China	(51) B63H 21/21 (11) EP3945016 (21) EP21188718.7 (22) 30.07.2021 (54) DEVICE FOR PRESETTING THE SPEED RANGE OF A BOAT
(73) Giesecke+Devrient Currency Technology GmbH	(47) 20.09.2023	(73) Torqeedo GmbH
(72) PFEIFFER, Matthias BICHLMEIER, Stefan DREXLER, Astrid MENGEL, Christoph	(51) B62M 9/12 (11) EP3868641 (21) EP21020077.0 (22) 17.02.2021	(72) Despineux, Frank Müller, Moritz (74) dr. R.C. van Duijvenbode c.s. (31) 102020120323 (32) 31.07.2020 (33) Germany
(74) ir. W.J.J.M. Kempes (31) 102019006890 (32) 02.10.2019 (33) Germany (47) 18.10.2023	(54) BICYCLE REAR WHEEL PINION ASSEMBLY AND MODULAR SYSTEM FOR PRODUCING BICYCLE REAR WHEEL PINION ASSEMBLIES	(47) 25.10.2023
(51) B60D 1/06 (11) EP3659833 (21) EP20152669.6 (22) 24.01.2014	(73) SRAM Deutschland GmbH (72) Rohmer, Jakob Vonend, Andreas (74) ir. W.J.J.M. Kempes (31) 102021000448 102020001147 (32) 29.01.2021 22.02.2020 (33) Germany Germany	(51) B65B 11/32 B29C 65/80 B65B 25/00 B65B 51/14 B65B 57/00 B29C 65/00 B65B 65/00 B65B 57/02 (11) EP3868674 (21) EP20212831.0 (22) 09.12.2020 (54) METHOD AND DEVICE FOR INDIVIDUALLY PACKAGING AND GROUP-SEALING SMALL ITEMS SUCH AS CHOCOLATE PIECES OR BARS
(54) TRAILER COUPLING AND LOAD SUPPORT DEVICE FOR A TRAILER COUPLING	(74) ir. F.A. Geurts c.s. (31) 102013100780 (32) 25.01.2013 (33) Germany (47) 16.08.2023	(73) Theegarten-Pactec GmbH & Co. KG (72) Oehlert, Volker Ehlert, Sebastian Fuchs, Ingolf (74) dr. R.C. van Duijvenbode c.s. (31) 102020202207 (32) 20.02.2020 (33) Germany (47) 18.10.2023
(73) ACPs Automotive GmbH (72) Rimmelpacher, Bernhard Kadnikov, Aleksej Gentner, Wolfgang	(47) 30.08.2023	(51) B65B 19/22 B65B 43/42 B65B 7/20 (11) EP3717361 (21) EP18816452.9 (22) 27.11.2018 (54) SYSTEM AND METHOD FOR OPTIMIZING THE HEIGHT OF A BOX FOR SHIPPING
(74) ir. F.A. Geurts c.s. (31) 102013100780 (32) 25.01.2013 (33) Germany (47) 16.08.2023	(51) B63B 21/50 B63B 22/02 (11) EP3746357 (21) EP18830945.4 (22) 07.12.2018 (54) SYSTEM AND METHOD FOR TEMPORARILY CONNECTING AN UNDERWATER STATION AND A SURFACE FACILITY	(73) Saipem S.p.A. (72) FILIPPI, Alessandro RADICIONI, Alessandro MORESCHI, Giovanni (74) ir. F.A. Geurts c.s. (31) 201800002120 (32) 29.01.2018 (33) Italy (47) 18.10.2023
(51) B60D 1/54 (11) EP3736145 (21) EP20172986.0 (22) 05.05.2020	(73) Brink Towing Systems B.V. (72) BOVENKAMP, Bas Kasper EISING, Frederik Jacob (74) ir. W.J.J.M. Kempes (31) 1950560 (32) 09.05.2019 (33) Sweden (47) 01.11.2023	(51) B62B 3/06 (11) EP3538414 (21) EP17822046.3 (22) 07.11.2017 (54) PALLET TRUCK
(54) RETRACTABLE TOWING HOOK ARRANGEMENT	(73) Ravas Europe B.V. (72) VAN DEN BERG, Niels (74) drs. A.A. Jilderda (31) 2017784 (32) 14.11.2016 (33) Netherlands (47) 16.08.2023	(73) Ranpak Corp. (72) SIA, Jean-Yves PARISSE, Remi KLARNER, Uwe (74) J.M.H. Duyver lic. (31) 201762591004 P (32) 27.11.2017 (33) United States of America (47) 27.09.2023
(51) B62B 7/06 (11) EP3833592 (21) EP20756845.2 (22) 12.08.2020	(51) B63B 35/44 E21B 41/10 E21B 19/00 (11) EP3755618 (21) EP19716250.6 (22) 14.02.2019 (54) VESSEL AND METHOD FOR PERFORMING SUBSEA WELLBORE RELATED ACTIVITIES, E.G. WORKOVER ACTIVITIES, WELL MAINTENANCE, INSTALLING AN OBJECT ON A SUBSEA WELL BORE	(51) B65D 5/28 B65D 5/42 B65D 5/50 B65D 5/54 B65D 5/32 B65D 75/32 B65D 75/36 B65D 5/02 (11) EP3736221 (21) EP19172849.2
(54) UNLOCK DEVICE AND STROLLER	(73) Wonderland Switzerland AG (72) ZHENG, Leilei WANG, Er-Xue SUN, Mingxing	

(22) 06.05.2019	(72) ARMANDO, Massimo	(47) 23.08.2023
(54) BRUSH PRODUCT PACKAGING DEVICE AND TRAY PACKAGING FOR HOLDING AT LEAST TWO BRUSH PRODUCT PACKAGING DEVICES	(74) dr. W.A.H.M. Van Borm (31) 201900020346 (32) 05.11.2019 (33) Italy (47) 23.08.2023	(51) B65H 51/10 B65H 51/32 B29C 64/321 B29C 64/118 B29C 64/209 B33Y 10/00 B33Y 30/00 B33Y 40/00
(73) Trisa Holding AG	(51) B65F 1/16 B65F 1/14 B65F 1/06	(11) EP3921262 (21) EP19809147.2 (22) 28.10.2019 (54) DEVICE AND METHOD OF FEEDING A THERMOPLASTIC FILAMENT
(72) Häfliger, Andreas Fischer, Herbert Röthlisberger-Büchli, Thomas	(11) EP2918518 (21) EP15157649.3 (22) 04.03.2015 (54) Trash can assembly	(73) Industriële Constructies Symons BVBA (72) PALMAERS, Jonathan (74) dr. ir. G.J.C. Verdijck c.s.
(74) ir. W.J.J.M. Kempes	(73) Simplehuman LLC (72) Sandor, Joseph Yang, Frank Chang, Di-Fong	(31) 201805836 (32) 29.11.2018 (33) Belgium (47) 16.08.2023
(47) 23.08.2023	(74) ir. J.D. de Zeeuw (31) 201461983305 P 201461953485 P (32) 23.04.2014 14.03.2014 (33) United States of America United States of America (47) 23.08.2023	(51) B66B 9/08 A61G 5/10 (11) EP3770098 (21) EP20173474.6 (22) 07.05.2020 (54) STAIRLIFT AND METHOD FOR OPERATING SAME
(51) B65D 33/25	(51) B65G 15/16 A22C 17/00 B07C 5/02 B07C 5/36 B65G 29/02 B65G 47/14 B65G 47/244 B65G 47/31 B65G 47/32 B65G 47/82 B65G 47/252 A22C 11/00	(73) Framo Morat GmbH & Co. KG (72) Kuster, Holger Uysal, Bahtiyar (74) ir. H.A. Witmans c.s. (31) 102019119770 (32) 22.07.2019 (33) Germany (47) 13.09.2023
(11) EP4036026	(11) EP4121374 (21) EP21711873.6 (22) 16.03.2021 (54) COMPACT ORIENTING AND TRANSFERRING DEVICE FOR UNITARY ELONGATED FOOD PRODUCTS AND OPERATING METHOD THEREOF	(51) B66C 1/66 F16G 15/08 F16G 15/12 F16G 15/00 F16G 13/12 (11) EP4126742 (21) EP21727380.4 (22) 12.05.2021 (54) ATTACHMENT POINT
(21) EP20913597.9	(73) Metalquimia, SAU (72) LAGARES GAMERO, Josep SCALERANDI, Federico	(73) J.D. Theile GmbH & Co. KG (72) MÜER, Bernd (74) dr. W.A.H.M. Van Borm (31) 202020102887 U (32) 20.05.2020 (33) Germany (47) 06.09.2023
(22) 02.04.2020	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B66C 13/46 B66C 19/02 (11) EP4038010 (21) EP20789649.9 (22) 02.10.2020 (54) SPREADER POSITION CONTROL
(54) SEALING BAG WITH REMINDING FUNCTION	(74) ir. W.J.J.M. Kempes (31) 202010035424 (32) 14.01.2020 (33) China (47) 18.10.2023	(73) Cargotec Finland Oy (72) KOUHIA, Jyrki LUKKALA, Jyri ASIKAINEN, Mikko TUULKARI, Tomi (74) dr. ir. G.J.C. Verdijck c.s.
(73) Shenzhen Juyi Fii Co., Ltd.	(51) B65D 81/26 (11) EP4163223 (21) EP22197952.9 (22) 27.09.2022 (54) PACKAGING FOR PACKAGING FRESH FOOD PRODUCTS TENDING TO EXUD LIQUIDS	(31) 20195848 (32) 04.10.2019 (33) Finland (47) 10.10.2019
(72) LIU, Fengling WANG, Guorui	(73) Groupe Guillin (72) VAUTRIN, Olivier (74) ir. W.J.J.M. Kempes (31) 2110714 (32) 11.10.2021 (33) France (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(74) J.M.H. Duyver lic.	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(31) 202010035424	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(32) 14.01.2020	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(33) China	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(47) 18.10.2023	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(51) B65D 81/26	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(11) EP4163223	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(21) EP22197952.9	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(22) 27.09.2022	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(54) PACKAGING FOR PACKAGING FRESH FOOD PRODUCTS TENDING TO EXUD LIQUIDS	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(73) Groupe Guillin	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(72) VAUTRIN, Olivier	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(74) ir. W.J.J.M. Kempes	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(31) 2110714	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(32) 11.10.2021	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(33) France	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(47) 27.09.2023	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(51) B65D 83/38	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
B05B 9/04	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
B21D 22/28	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
B21D 51/26	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
B65D 1/02	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(11) EP3733554	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(21) EP18894886.3	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(22) 30.03.2018	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(73) Daiwa Can Company	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(72) NOTO Shigeru	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
NABETA, Chiharu	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
OHNO, Hiroyuki	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(74) dr. R.C. van Duijvenbode c.s.	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(31) 2017252945	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(32) 28.12.2017	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(33) Japan	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(47) 01.11.2023	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(51) B65F 1/16	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(11) EP4054957	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(21) EP20817065.4	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38 B05B 9/04 B21D 22/28 B21D 51/26 B65D 1/02 (11) EP3733554 (21) EP18894886.3 (22) 30.03.2018 (54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY
(22) 05.11.2020	(74) ir. W.J.J.M. Kempes (31) 20382201 (32) 17.03.2020 (33) European Patent Office (EPO) (47) 27.09.2023	(51) B65D 83/38

(47) 16.08.2023	C03C 10/00	(33) Korea (Republic)
(51) B66C 23/68	(11) EP3107871	(47) 13.09.2023
B66C 23/82	(21) EP15705614.4	(51) C04B 28/06
(11) EP3650395	(22) 20.02.2015	C04B 38/10
(21) EP18845664.4	(54) HIGHLY HOMOGENEOUS GLASS- CERAMIC COMPONENT	C04B 103/48
(22) 03.08.2018	(73) SCHOTT AG	(11) EP4118056
(54) RISING AND FALLING BODY OF WORK MACHINE AND METHOD FOR STORING RISING AND FALLING BODY OF WORK MACHINE	(72) JEDAMZIK, Ralf FADERL, Johann LIFKA, Thomas GRÜN, Steffen	(21) EP20710893.7
(73) Kobelco Construction Machinery Co., Ltd.	(74) ir. W.J.J.M. Kempes	(22) 10.03.2020
(72) KURIHARA, Shingo	(31) 102014211700	(54) PROCESSES FOR PRODUCING FOAMED CONCRETE
(74) dr. R.C. van Duijvenbode c.s.	102014002253	(73) Wacker Chemie AG
(31) 2017158135	(32) 18.06.2014	(72) BRUMMER, Josef
(32) 18.08.2017	21.02.2014	BIENERTH, Holger
(33) Japan	(33) Germany	ZEH, Harald
(47) 01.11.2023	Germany	EDER, Klaus-Jürgen
(51) C01B 39/46	(47) 30.08.2023	(74) ir. W.J.J.M. Kempes
B01J 29/72	(51) C03C 3/097	(47) 11.10.2023
C01B 39/02	C03C 3/11	(51) C07C 2/32
(11) EP3466879	C03C 10/00	C07C 2/36
(21) EP17810200.0	(11) EP4059903	C07C 11/02
(22) 01.06.2017	(21) EP22162007.3	C07C 11/08
(54) CHABAZITE ZEOLITE WITH HIGH HYDROTHERMAL RESISTANCE AND METHOD FOR PRODUCING SAME	(22) 15.03.2022	(11) EP3562799
(73) JGC Catalysts and Chemicals Ltd.	(54) GLASS CERAMIC HAVING SPECIFIC THERMAL EXPANSION CHARACTERISTICS	(21) EP17832164.2
(72) NAKASHIMA, Akira	(73) SCHOTT AG	(22) 22.12.2017
TSURUTA, Shunji	(72) MITRA, Ina	(54) ETHYLENE OLIGOMERIZATION PROCESSES
YAMAGUCHI, Yoko	(74) ir. W.J.J.M. Kempes	(73) Chevron Phillips Chemical Company LP
(74) dr. R.C. van Duijvenbode c.s.	(31) 102021134308	(72) BISCHOF, Steven M.
(31) 2016205715	102021106419	SNELL, Ryan W.
2016113524	(32) 22.12.2021	NETEMEYER, Eric J.
(32) 20.10.2016	16.03.2021	SUTHERLAND, Jamie N.
07.06.2016	(33) Germany	SYDORA, Orson L.
(33) Japan	Germany	SMALL, Brooke L.
Japan	(47) 30.08.2023	MILNER, Matthew F.
(47) 01.11.2023	(51) C03C 17/36	KREISCHER, Bruce E.
(51) C02F 1/00	(11) EP4058417	KNUDSEN, Ron D.
C02F 1/28	(21) EP20811061.9	FISHER, William J.
C02F 1/52	(22) 13.11.2020	(74) ir. C.G.C. Veldman-Dijkers
C02F 103/12	(54) COATED GLASS SUBSTRATE	(31) 201615394411
C02F 11/12	(73) Pilkington Group Limited	201615394317
C02F 1/66	(72) YEATES, Rachel	(32) 29.12.2016
B28C 5/42	SAVAGE, Philip	29.12.2016
B03B 9/06	PATRICKSON, Charlie James	(33) United States of America
C02F 9/00	(74) ir. W.J.J.M. Kempes	United States of America
(11) EP3208240	(31) 201916515	(47) 23.08.2023
(21) EP17156120.2	(32) 13.11.2019	(51) C07C 7/04
(22) 14.02.2017	(33) United Kingdom	C07C 15/067
(54) DEVICE AND METHOD FOR TREATING CEMENT-CONTAINING WASTEWATER ON A VESSEL	(47) 27.09.2023	C08J 11/12
(73) DEME Offshore BE N.V.	(51) C03C 21/00	C08L 25/06
(72) Duyck, Mathieu Antoine	C03C 19/00	C10B 53/07
Hendrickx, Jan Pieter Maria	(11) EP3901112	(11) EP3908563
(74) dr. ir. G.J.C. Verdijck c.s.	(21) EP21168124.2	(21) EP20700195.9
(31) 201605113	(22) 13.04.2021	(22) 07.01.2020
(32) 17.02.2016	(54) GLASS ARTICLE AND DISPLAY DEVICE INCLUDING THE SAME	(54) PROCESS FOR DE-POLYMERIZATION OF STYRENIC MONOMER- CONTAINING POLYMERS AND FOR RETRIEVAL OF STYRENIC MONOMERS
(33) Belgium	(73) Samsung Display Co., Ltd.	(73) INEOS Styrolution Group GmbH
(47) 16.08.2023	(72) Shim, Gyu In	(72) KERSCHBAUMER, Hannes
(51) C03B 32/02	Kim, Seung	VERSWYVEL, Michiel
G02B 7/18	Kang, Byung Hoon	INGHELBRECHT, Petra
C03C 1/00	Park, Young Ok	URQUHART, Thad
G03F 1/22	Sung, Su Jin	SCHEDL, Andreas
G03F 1/60	(74) dr. R.C. van Duijvenbode c.s.	CUETOS, Ricardo
C03C 3/097	(31) 20200044473	WILHELMUS, Bianca
	(32) 13.04.2020	COCHRAN, Thomas W.
		SCHMIDT, Hans-Werner

SHON, KyungHo	A61P 25/00	(33) Korea (Republic)
KOLB, Tristan	(11) EP3557998	(47) 13.09.2023
WONG, Tim	(21) EP17883239.0	(51) C07D 493/04
KATHMANN, Jens	(22) 22.12.2017	C07H 13/06
DE VET, Walter	(54) COMPOUNDS, COMPOSITIONS AND METHODS OF USE	C08G 63/48
ABBOUD, Mohammed	(73) Aquinnah Pharmaceuticals Inc.	C08K 5/053
NIESSNER, Norbert	(72) BURNETT, Duane, A.	C08K 5/092
BROWN, Timothy A.	VACCA, Joseph, P.	C09D 167/08
SCHWABEN, Hans-Dieter	(74) ir. W.J.J.M. Kempes	C08G 63/668
(74) dr. R.C. van Duijvenbode c.s.	(31) 201762560493 P	(11) EP3856746
(31) 19150515	201662438836 P	(21) EP19867701.5
(32) 07.01.2019	(32) 19.09.2017	(22) 20.09.2019
(33) European Patent Office (EPO)	23.12.2016	(54) CYCLIC ETHER- AND HYDROXYL-CONTAINING COMPOSITIONS USEFUL FOR PRODUCING FAST DRY ALKYD POLYMERS AND METHODS FOR MAKING SUCH CYCLIC ETHER- AND HYDROXYL-CONTAINING COMPOSITIONS
(47) 06.09.2023	(33) United States of America	(73) Arkema Inc.
(51) C07C 55/20	United States of America	(72) KIM, Kyu-Jun
A23L 29/30	(47) 16.08.2023	(74) dr. R.C. van Duijvenbode c.s.
A23L 33/125	(51) C07D 403/12	(31) 201862737160 P
A61K 31/194	C07D 401/14	(32) 27.09.2018
A61K 47/12	C07D 405/14	(33) United States of America
(11) EP3891121	C07D 413/14	(47) 23.08.2023
(21) EP19892699.0	A61K 31/4418	(51) C07F 3/02
(22) 05.12.2019	A61K 31/505	B01J 31/00
(54) SEBACIC ACID COMPOSITIONS AND METHODS FOR TASTE MODULATION	A61K 31/506	C08F 4/08
(73) International Flavors & Fragrances Inc.	A61K 31/513	(11) EP3619219
(72) WU, Hou	A61K 31/5377	(21) EP15753336.5
JOHN, Thumpalasserill, V.	A61K 31/55	(22) 12.08.2015
LI, Xiaodong	C07D 401/04	(54) LOW-VISCOSITY SOLUTIONS OF ALKALINE-EARTH METAL ALKOXIDES IN APROTIC SOLVENTS, METHOD FOR THE PRODUCTION OF SAME AND USE FOR THE PRODUCTION OF ZIEGLER-NATTA CATALYSTS
HUBER, Michelle, Eve	C07D 403/14	(73) Albemarle Germany GmbH
(74) ir. W.J.J.M. Kempes	C07D 413/12	(72) STOLL, Armin
(31) 201862776150 P	C07D 495/04	KIEFER, Florian
(32) 06.12.2018	A61P 25/28	WIETELMANN, Ulrich
(33) United States of America	(11) EP3377484	EMMEL, Ute
(47) 30.08.2023	(21) EP16805251.2	(74) ir. H.A. Witmans c.s.
(51) C07C 67/08	(22) 16.11.2016	(31) 102014224139
C07C 69/593	(54) METHODS FOR TREATING MULTIPLE SCLEROSIS USING PYRIMIDINE AND PYRIDINE COMPOUNDS WITH BTK INHIBITORY ACTIVITY	102014216067
C07C 69/602	(73) Merck Patent GmbH	102014215919
C07C 69/44	(72) DELLOVADE, Tammy	(32) 26.11.2014
C07C 51/377	(74) ir. H.A. Witmans c.s.	13.08.2014
C07C 55/14	(31) 201562256199 P	12.08.2014
(11) EP3782976	(32) 17.11.2015	(33) Germany
(21) EP19192802.7	(33) United States of America	Germany
(22) 21.08.2019	(47) 06.09.2023	Germany
(54) SUSTAINABLE PROCESS FOR PRODUCING MUCONIC, HEXENEDIOIC AND ADIPIC ACID (AND THEIR ESTERS) FROM ALDARIC ACIDS BY HETEROGENEOUS CATALYSIS	(51) C07D 493/04	(47) 01.11.2023
(73) Kemijski Institut	A61K 31/352	(51) C07K 11/02
(72) HOCEVAR, Brigita	A61K 31/353	C07D 295/145
LIKOZAR, Blaz	A61P 3/04	C07D 309/06
GRILC, Miha	(11) EP4023651	A01N 43/72
(74) J.M.H. Duyver lic.	(21) EP22153273.2	A61P 33/00
(47) 18.10.2023	(22) 29.06.2017	A61P 33/10
(51) C07C 233/79	(54) OPTICALLY ACTIVE PYRANOCHROMENYL PHENOL DERIVATIVE AND PHARMACEUTICAL COMPOSITION COMPRISING SAME	(11) EP3397638
C07D 209/42	(73) Glaceum, Inc.	(21) EP16829348.8
C07D 213/81	(72) YOO, Sang Ku	(22) 14.12.2016
C07D 235/24	KIM, Ji Young	(54) ANTHELMINTIC DEPSIPEPTIDE COMPOUNDS
C07D 401/12	KANG, Ku Suk	(73) Boehringer Ingelheim Vetmedica GmbH
C07D 403/12	KIM, Jin Young	(72) LEE, Hyoung, Ik
C07D 405/12	JO, In Geun	LE HIR DE FALLOIS, Loic
C07D 409/12	CHUNG, Jin Wook	
C07D 413/12	LIM, Jeong Ho	
C07D 471/04	(74) ir. H.A. Witmans c.s.	
C07D 491/048	(31) 20160081674	
A61K 31/505	(32) 29.06.2016	
A61P 25/16		

LONG, Alan	(33) United Kingdom	(11) EP3004179
MENG, Charles	(47) 11.10.2023	(21) EP14736001.0
PACOFISKY, Gregory	(51) C07K 16/28	(22) 29.05.2014
(74) ir. H.A. Witmans c.s.	A61K 39/395	(54) PROCESS FOR PRODUCING LOW
(31) 201562272040 P	A61P 35/00	ENDOTOXIN CHITOSAN
(32) 28.12.2015	(11) EP3710484	(73) Medtrade Products Limited
(33) United States of America	(21) EP18892518.4	(72) HARDY, Craig
(47) 23.08.2023	(22) 19.12.2018	HOGGARTH, Andrew
(51) C07K 16/24	(54) ANTIBODIES BINDING CTLA-4 AND	GLADMAN, June
A61P 1/00	USES THEREOF	(74) ir. H.J.G. Lips c.s.
(11) EP3430043	(73) Harbour Biomed (Shanghai) Co., Ltd	(31) 201309607
(21) EP17710748.9	(72) SHEN, Yuqiang	(32) 29.05.2013
(22) 16.03.2017	HE, Yun	(33) United Kingdom
(54) ANTI-TNFALPHA-ANTIBODIES AND	DRABEK, Dubravka	(47) 23.08.2023
FUNCTIONAL FRAGMENTS THEREOF	ZHAO, Jiuqiao	(51) C08F 6/00
(73) Tillotts Pharma AG	RONG, Yiping	C08L 23/10
(72) MEYER, Sebastian	VAN HAPEREN, Marinus (Rien)	C08L 23/12
FURRER, Esther Maria	GAN, Xin	B29B 9/16
GUNDE, Tea	GROSVELD, Frank	(11) EP3647328
(74) J.M.H. Duyver lic.	JANSSENS, Rick	(21) EP18203757.2
(31) 16160907	(74) J.M.H. Duyver lic.	(22) 31.10.2018
(32) 17.03.2016	(31) 201762607917 P	(54) REDUCTION IN VOC AND FOG
(33) European Patent Office (EPO)	(32) 20.12.2017	VALUES OF POLYPROPYLENE
(47) 30.08.2023	(33) United States of America	GRADES BY AERATION
(51) C07K 16/28	(47) 25.10.2023	(73) Borealis AG
A61K 39/395	(51) C07K 16/28	(72) BORAGNO, Luca
A61K 39/00	C07K 16/40	HUBER, Jürgen
(11) EP3380522	(11) EP3362475	GALGALI, Girish Suresh
(21) EP16810195.4	(21) EP16779112.8	FUCHS, Andreas
(22) 23.11.2016	(22) 11.10.2016	ENGLEDER, Stefanie
(54) ANTIBODY MOLECULES TO APRIL	(54) CD73 BLOCKING AGENTS	(74) drs. O. Griebing
AND USES THEREOF	(73) Innate Pharma	(47) 06.09.2023
(73) Visterra, Inc.	Centre Léon Bérard	(51) C08F 110/06
(72) WOLLACOTT, Andrew, M.	(72) CAUX, Christophe	B29C 48/385
RAMAKRISHNAN, Boopathy	GAUTHIER, Laurent	B29C 48/275
VISWANATHAN, Karthik	GOURDIN, Nicolas	C08K 5/01
MYETTE, James, R.	MENETRIER-CAUX, Christine	C08L 23/12
SHRIVER, Zachary, Holmes	PATUREL, Carine	B29B 7/74
ADARI-HALL, Hedy	PERROT, Ivan	C08J 11/04
BABCOCK, Gregory	(74) ir. W.J.J.M. Kempes	C08K 3/34
(74) dr. R.C. van Duijvenbode c.s.	(31) 201562240112 P	B29C 48/02
(31) 201662422848 P	201562240101 P	B29C 45/00
201662399087 P	(32) 12.10.2015	B29B 17/00
201662313684 P	12.10.2015	(11) EP4079488
201562259897 P	(33) United States of America	(21) EP21169607.5
(32) 16.11.2016	United States of America	(22) 21.04.2021
23.09.2016	(47) 30.08.2023	(54) POLYOLEFIN COMPOSITION
25.03.2016	(51) C08B 37/00	COMPRISING POLYPROPYLENE
25.11.2015	C08B 37/08	HOMOPOLYMER AND RECYCLED
(33) United States of America	(11) EP4048706	PLASTIC MATERIAL
United States of America	(21) EP20800019.0	(73) Borealis AG
United States of America	(22) 19.10.2020	(72) KAHLEN, Susanne Margarete
United States of America	(54) PROCESS FOR THE PURIFICATION	BRAUN, Hermann
(47) 08.11.2023	OF HYALURONIC ACID SODIUM SALT,	LEHNER, Gisela Karin
(51) C07K 16/28	CONDUCTED IN ORGANIC SOLVENT	BACHTROD, Quang Manfred
A61K 39/395	(73) BMG Pharma S.p.A.	(74) ir. H.A. Witmans c.s.
A61P 35/00	(72) PICOTTI, Fabrizio	(47) 11.10.2023
(11) EP3323834	SECHI, Alessandra	(51) C08F 251/02
(21) EP17195987.7	GIANNI, Rita	C09D 4/06
(22) 05.09.2012	STUCCHI, Luca	C08L 51/02
(54) ANTI-CD40 ANTIBODIES, USES AND	(74) dr. R.C. van Duijvenbode c.s.	(11) EP4061864
METHODS	(31) 201900019724	(21) EP20803119.5
(73) Alligator Bioscience AB	(32) 24.10.2019	(22) 04.11.2020
(72) ELLMARK, Peter Bo Joakim	(33) Italy	(54) ONE COMPONENT (1K) ANAEROBIC
DAHLÉN, Eva Maria	(47) 11.10.2023	CURABLE COMPOSITION
(74) ir. W.J.J.M. Kempes	(51) C08B 37/08	(73) Henkel AG & Co. KGaA
(31) 201115280	A61L 15/28	(72) TRIVEDI, Krupal
(32) 05.09.2011	A61K 31/722	KHANDAGALE, Prasad

SHAH, Jayesh P	C08F 6/00	(51) C09J 7/10
GHULE, Namdev	B29B 17/02	C09J 7/30
(74) dr. R.C. van Duijvenbode c.s.	(11) EP3317334	C09J 4/00
(31) 201941046835	(21) EP16734833.3	C09J 11/06
(32) 18.11.2019	(22) 23.06.2016	H01L 21/301
(33) India	(54) METHOD FOR PURIFYING	H01L 21/52
(47) 18.10.2023	CONTAMINATED POLYMERS	H01L 21/60
(51) C08G 64/34	(73) The Procter & Gamble Company	C09J 7/20
(11) EP2794719	(72) LAYMAN, John, Moncrief	C09J 179/00
(21) EP12859891.9	SCHONEMANN, Hans	H01L 23/00
(22) 20.12.2012	WILLIAMS, Kara	(11) EP3187557
(54) METHODS FOR POLYMER SYNTHESIS	GUNNERSON, Maggie	(21) EP15835827.5
(73) SAUDI ARAMCO TECHNOLOGIES	(74) ir. W.J.J.M. Kempes	(22) 10.08.2015
COMPANY	(31) 201562186493 P	(54) ADHESIVE FILM AND
(72) ALLEN, Scott, D.	(32) 30.06.2015	SEMICONDUCTOR PACKAGE USING
SIMONEAU, Christopher, A.	(33) United States of America	ADHESIVE FILM
KEEFE, William, D.	(47) 18.10.2023	(73) Furukawa Electric Co., Ltd.
CONUEL, Jeff, R.	(51) C08L 51/08	(72) AOYAMA, Masami
(74) mr. R. Zwamborn	C08L 67/04	KIRIKAE, Noriyuki
(31) 201161577800 P	(11) EP3820941	(74) ir. H.A. Witmans c.s.
(32) 20.12.2011	(21) EP19736410.2	(31) 2014176257
(33) United States of America	(22) 11.07.2019	(32) 29.08.2014
(47) 23.08.2023	(54) A GRAFTED POLYLACTIC ACID	(33) Japan
(51) C08G 65/26	(73) BYK-Chemie GmbH	(47) 13.09.2023
(11) EP4097168	(72) PIESTERT, Frederik	(51) C10G 3/00
(21) EP21706130.8	RAPTHEL, Inno	C10G 45/58
(22) 27.01.2021	GIESEN, Patricia	C10G 45/06
(54) ALKYLENE OXIDE POLYMERIZATION	KRÖLLER, Thorsten	C10G 45/08
USING ALUMINUM COMPOUNDS AND	BACHMANN, Lisa	C10G 45/10
CYCLIC AMIDINES	RAPTHEL, Andre	C10G 45/12
(73) Dow Global Technologies LLC	(74) ir. W.J.J.M. Kempes	C10M 109/02
(72) CANDIA, Sandra Varinia Bernales	(31) 18183553	C10G 65/04
BELOWICH, Matthew E.	(32) 13.07.2018	C10N 20/00
ROSEN, Mari S.	(33) European Patent Office (EPO)	C10N 30/00
YONKEY, Matthew M.	(47) 13.09.2023	(11) EP3461875
BABB, David A.	(51) C09D 5/00	(21) EP18174013.5
KEATON, Richard J.	C09D 7/45	(22) 12.12.2006
BÉDARD, Anne-Catherine	C09D 7/63	(54) PROCESS FOR PRODUCING A
CUMMINS, Clark H.	C09K 23/56	HYDROCARBON COMPONENT
(74) ir. W.J.J.M. Kempes	C08K 5/1545	(73) Neste Oyj
(31) 202062968227 P	C09D 5/02	(72) MYLLYOJA, Jukka
(32) 31.01.2020	C09D 7/61	KOIVUSALMI, Eija
(33) United States of America	C08K 3/00	SELIN, Johan-Fredrik
(47) 25.10.2023	C09D 123/08	MOILANEN, Juha
(51) C08G 65/40	C09D 131/04	AALTO, Pekka
(11) EP3526275	(11) EP4015584	JAKKULA, Juha
(21) EP17790983.5	(21) EP21213075.1	(74) dr. R.C. van Duijvenbode c.s.
(22) 10.10.2017	(22) 08.12.2021	(31) 20055666
(54) BLOCKY POLY(ETHER ETHER	(54) USE OF RHAMNOLIPIDS AND /	74903605 P
KETONE) COPOLYMERS AND	OR SOPHOROLIPIDS FOR	(32) 12.12.2005
CORRESPONDING SYNTHESIS	INCREASING THE YIELD AND / OR	12.12.2005
METHODS AND ARTICLES	FOR MAINTAINING THE APPLICATION	(33) Finland
(73) Virginia Tech Intellectual Properties, Inc.	PROPERTIES OF COATING	United States of America
Solvay Specialty Polymers Italy S.p.A.	COMPOSITIONS	(47) 23.08.2023
(72) ANDERSON, Lindsey	(73) Evonik Operations GmbH	(51) C10G 47/06
TALLEY, Samantha	(72) Silber, Stefan	B01J 27/043
YUAN, Xijing	Cavaleiro, Pedro	C10G 19/02
BRANHAM, Kelly D.	Blei, Marco	C10G 45/02
MOORE, Robert B.	Jansen, Claudia	C10G 59/02
JEOL, Stéphane	Allef, Petra	C10G 67/10
APOSTOLO, Marco	Reuter, Ellen	C10G 67/14
ROLLER, David B.	Roland, Katrin	(11) EP3464515
(74) ir. W.J.J.M. Kempes	Mergenthaler, Jochen	(21) EP16903333.9
(31) 201662406634 P	(74) ir. W.J.J.M. Kempes	(22) 26.05.2016
(32) 11.10.2016	(31) 20214082	(54) PROCESS FOR REMOVING
(33) United States of America	(32) 15.12.2020	OXYGENATES FROM HYDROCARBON
(47) 30.08.2023	(33) European Patent Office (EPO)	STREAMS
(51) C08J 11/08	(47) 30.08.2023	(73) Fluor Technologies Corporation

(72) DIERICKX, Jan	C12N 9/24	KIM, Sol
(74) J.M.H. Duyver lic.	C12N 9/26	JANG, Jae Woo
(31) 201615164576	(11) EP3121270	(74) dr. R.C. van Duijvenbode c.s.
(32) 25.05.2016	(21) EP16186616.5	(31) 20170103795
(33) United States of America	(22) 29.06.2012	(32) 16.08.2017
(47) 30.08.2023	(54) CLEANING COMPOSITIONS	(33) Korea (Republic)
(51) C11D 1/10	COMPRISING AMYLASE VARIANTS	(47) 01.11.2023
C11D 1/28	REFERENCE TO A SEQUENCE	(51) C12N 15/90
C11D 1/37	LISTING	C12N 15/88
C11D 3/20	(73) The Procter & Gamble Company	C12N 15/89
C11D 3/43	(72) SOUTER, Philip Frank	C12N 15/873
C11D 17/00	LARSEN, Signe Eskildsen	C12N 15/85
(11) EP3559182	SKJOET, Michael	C12N 5/16
(21) EP17832279.8	RASMUSSEN, Frank Winther	A01K 67/02
(22) 21.12.2017	BJOERNVAD, Mads	A01K 67/027
(54) DETERGENT COMPOSITION	OEBRO, Jens	C12N 15/87
(73) Hypred	TOSCANO, Miguel Duarte Guilherme	C12N 15/113
(72) BAILLEUL, Anthony	Pereira	(11) EP3460065
(74) ir. A. Blokland c.s.	ANDERSEN, Carsten	(21) EP18187574.1
(31) 1663328	CHRISTIANSEN, Liv Spaangner	(22) 19.04.2013
(32) 23.12.2016	BEIER, Lars	(54) CELL TRANSFECTION METHOD
(33) France	JOHANSEN, Annette Helle	(73) Commonwealth Scientific and Industrial
(47) 25.10.2023	KAASGAARD, Svend	Research Organisation
(51) C11D 3/386	SEVNDSEN, Allan	Aviagen
(11) EP3357994	BEWICK, Lindsay Suzanne	(72) TYACK, Scott, Geoffrey
(21) EP18154223.4	JACKSON, Michelle	(74) ir. H.A. Witmans c.s.
(22) 30.01.2018	FRIIS, Esben Peter	(31) 2013204327
(54) CLEANING COMPOSITIONS	(74) ir. W.J.J.M. Kempes	201361783823 P
COMPRISING AMYLASE VARIANTS	(31) 11172288	201261636331 P
(73) The Procter & Gamble Company	(32) 30.06.2011	(32) 12.04.2013
(72) SAINATHAN, Rajendra Kulothungan	(33) European Patent Office (EPO)	14.03.2013
DAMAGER, Iben	(47) 01.11.2023	20.04.2012
IYER, Padma Venkatachalam	(51) C12N 15/52	(33) Australia
GHADIYARAM, Chakshumathi	C12N 9/02	United States of America
ANDERSEN, Carsten	(11) EP2951286	United States of America
(74) ir. W.J.J.M. Kempes	(21) EP14745530.7	(47) 23.08.2023
(31) 201711003745	(22) 30.01.2014	(51) C12P 7/06
(32) 01.02.2017	(54) RECOMBINANT MICROORGANISMS	C12P 7/14
(33) India	COMPRISING NADPH DEPENDENT	C12P 19/14
(47) 01.11.2023	ENZYMES AND METHODS OF	A23K 10/38
(51) C12N 5/078	PRODUCTION THEREOF	B01D 3/00
C12N 5/10	(73) LanzaTech NZ, Inc.	(11) EP4028534
C12N 9/22	(72) MUELLER, Alexander	(21) EP20776005.9
C12N 15/09	KOEPKE, Michael	(22) 09.09.2020
C12N 15/66	(74) dr. R.C. van Duijvenbode c.s.	(54) METHOD FOR INCREASING BACKSET
C12N 15/90	(31) 201361828675 P	RECYCLE IN DRY GRIND ALCOHOL
A61K 31/713	201361758441 P	PRODUCTION
A61K 35/761	(32) 29.05.2013	(73) Danisco US Inc.
A61K 38/46	30.01.2013	(72) DEMARTINI, Jaclyn Diana
A61K 38/42	(33) United States of America	SHARMA, Vivek
C07K 14/725	United States of America	SHETTY, Jayarama K.
C12N 15/10	(47) 13.09.2023	CHOTANI, Gopal K.
C12N 15/86	(51) C12N 15/70	LATONE, Jacob Andrew
(11) EP3583203	C12N 15/77	(74) ir. W.J.J.M. Kempes
(21) EP18755081.9	C12N 15/81	(31) 201962900325 P
(22) 15.02.2018	C12N 9/88	(32) 13.09.2019
(54) DONOR REPAIR TEMPLATES	C12P 13/00	(33) United States of America
MULTIPLEX GENOME EDITING	(11) EP3670661	(47) 04.10.2023
(73) 2seventy bio, Inc.	(21) EP18846387.1	(51) C12Q 1/34
(72) ASTRAKHAN, Alexander	(22) 13.08.2018	G01N 30/88
LEE, Baekseung	(54) MICROORGANISM PRODUCING	G01N 33/66
(74) dr. R.C. van Duijvenbode c.s.	MYCOSPORINE-LIKE AMINO ACID	G01N 33/68
(31) 201762459203 P	AND MICOSPORINE-LIKE AMINO ACID	G01N 30/74
(32) 15.02.2017	PRODUCTION METHOD USING SAME	(11) EP3540071
(33) United States of America	(73) CJ Cheiljedang Corporation	(21) EP19155593.7
(47) 01.11.2023	(72) LEE, Kyusung	(22) 19.11.2015
(51) C12N 9/28	SEOK, Jong-cheol	(54) QUANTITATION OF GLYCAN MOIETY
C11D 3/386	LEE, Joo Hee	IN RECOMBINANT GLYCOPROTEINS

(73) Amgen Inc.	(73) FUJIFILM Corporation	(73) I4F LICENSING NV
(72) CHEMMALIL, Letha	(72) MOCHIZUKI, Yoshihiko	(72) PERRA, Antonio Giuseppe
(74) ir. W.J.J.M. Kempes	SEKI, Tomokazu	(74) ir. H.Th. van den Heuvel c.s.
(31) 201462082014 P	(74) ir. H.A. Witmans c.s.	(47) 16.08.2023
(32) 19.11.2014	(31) 2019178295	(51) E04H 1/00
(33) United States of America	(32) 30.09.2019	E04H 1/12
(47) 06.09.2023	(33) Japan	E04H 3/00
(51) C12Q 1/6827	(47) 23.08.2023	E06B 11/08
C12Q 1/6858	(51) C25B 1/04	G07C 9/00
(11) EP3449019	(11) EP3575439	(11) EP2862988
(21) EP17790615.3	(21) EP18745271.9	(21) EP14186842.2
(22) 29.04.2017	(22) 26.01.2018	(22) 15.09.2005
(54) MULTIPLEXED OPTIMIZED MISMATCH AMPLIFICATION (MOMA)-TARGET NUMBER	(54) ELECTROLYTIC BATH, ELECTROLYSIS DEVICE, ELECTROLYSIS METHOD, AND METHOD FOR PRODUCING HYDROGEN	(54) Containerized access control unit
(73) The Medical College of Wisconsin, Inc.	(73) Asahi Kasei Kabushiki Kaisha	(73) Modular Security Systems, Inc.
(72) MITCHELL, Aoy, Tomita	(72) HOTTA Shinya	(72) Rhett Slagel, Robert
STAMM, Karl	YOKOTA Masahisa	(74) dr. W.A.H.M. Van Borm
(74) ir. W.J.J.M. Kempes	FUJIMOTO Norikazu	(31) 992126
(31) 201662330053 P	KOMURA Ryo	(32) 19.11.2004
(32) 29.04.2016	UCHINO Yousuke	(33) United States of America
(33) United States of America	SUZUKI Yusuke	(47) 06.09.2023
(47) 23.08.2023	(74) J.M.H. Duyver lic.	(51) E21B 29/00
(51) C12Q 1/6844	(31) 2017012551	E21B 29/10
(11) EP3899037	2017012548	E21B 43/11
(21) EP19842471.5	(32) 26.01.2017	(11) EP3828377
(22) 18.12.2019	26.01.2017	(21) EP20217069.2
(54) METHODS FOR IMPROVING POLYNUCLEOTIDE CLUSTER CLONALITY PRIORITY	(33) Japan	(22) 15.03.2011
(73) Illumina, Inc.	Japan	(54) SECTION MILL AND METHOD FOR ABANDONING A WELLBORE
(72) GUO, Minghao	(47) 25.10.2023	(73) Weatherford Technology Holdings, LLC
FISHER, Jeffrey S.	(51) C25D 3/12	(72) BAILEY, Thomas F
(74) ir. W.J.J.M. Kempes	C25D 3/16	BRUNNERT, David J
(31) 201862782279 P	(11) EP3712302	BANSAL, Ram K
(32) 19.12.2018	(21) EP20161027.6	ANTOINE, Andrew
(33) United States of America	(22) 04.03.2020	SEGURA, Richard J
(47) 18.10.2023	(54) ELECTROLYTIC NICKEL PLATING COMPOSITION AND ELECTROLYTIC NICKEL PLATING METHOD USING THE SAME COMPOSITION	(74) ir. H.A. Witmans c.s.
(51) C21D 8/02	(73) RIAG Oberflächentechnik AG	(31) 38362710 P
C23C 2/12	(72) Egli, André	31395610 P
C22C 38/02	(74) drs. O. Griebing	(32) 16.09.2010
C22C 38/04	(31) 102019107416	15.03.2010
C22C 38/06	(32) 22.03.2019	(33) United States of America
(11) EP3899066	(33) Germany	United States of America
(21) EP18842729.8	(47) 20.09.2023	(47) 16.08.2023
(22) 18.12.2018	(51) E01H 5/06	(51) E21B 33/129
(54) A PRESS HARDENED PART WITH HIGH RESISTANCE TO DELAYED FRACTURE AND A MANUFACTURING PROCESS THEREOF	(11) EP4036311	(11) EP4074940
(73) ArcelorMittal	(21) EP22153207.0	(21) EP22178108.1
(72) REMY, Blandine	(22) 25.01.2022	(22) 10.07.2020
STUREL, Thierry	(54) SNOW-REMOVAL TRAILER WITH SECURE DRAWBAR LOCKING	(54) DOWNHOLE ANCHOR WITH STRENGTHENED SLIPS FOR WELL TOOL
LUCAS, Emmanuel	(73) SOVIAR	(73) Weatherford Technology Holdings, LLC
BOI, Gianni	(72) BENEDETTI, Michel	(72) SCRUGGS, Justin R.
(74) dr. R.C. van Duijvenbode c.s.	(74) ir. W.J.J.M. Kempes	(74) ir. H.A. Witmans c.s.
(47) 04.10.2023	(31) 2100790	(31) 201916509643
(51) C23C 16/455	(32) 28.01.2021	(32) 12.07.2019
C23C 16/513	(33) France	(33) United States of America
C23C 16/40	(47) 27.09.2023	(47) 30.08.2023
C23C 16/503	(51) E04F 15/02	(51) E21B 47/10
C23C 16/515	E04F 15/04	(11) EP3500728
H01J 37/32	E04F 15/10	(21) EP16730183.7
H05H 1/24	(11) EP3918148	(22) 08.06.2016
(11) EP4039849	(21) EP19721154.3	(54) METHODS OF USING CARBON QUANTUM DOTS TO ENHANCE PRODUCTIVITY OF FLUIDS FROM WELLS
(21) EP20870690.3	(22) 30.01.2019	(73) Baker Hughes Holdings LLC
(22) 04.09.2020	(54) PANEL AND COVERING COMPRISING THE SAME	(72) GUPTA, D.V. Satyanarayana
(54) FILM FORMING DEVICE		MURUGESAN, Sankaran
		KHABASHEKU, Valery N.

KUZNETSOV, Oleksandr SURESH, Radhika (74) ir. W.J.J.M. Kempes (31) 201615172335 201514739629 (32) 03.06.2016 15.06.2015 (33) United States of America United States of America (47) 18.10.2023	(54) METHOD FOR ASSEMBLING WIND POWER GENERATOR BY USING INSTALLATION SHIP FOR FLOATING- TYPE OFFSHORE WIND POWER GENERATION (73) ACE E&T (ENGINEERING & TECHNOLOGY) (72) KIM, Day Hwan KIM, Soo Han (74) mr. ir. J. van Breda c.s. (31) 20210125573 (32) 23.09.2021 (33) Korea (Republic) (47) 08.11.2023	(54) CONNECTION OF AT LEAST TWO COMPONENTS OF A FAN AND METHOD TO CONNECT THE TWO COMPONENTS TO ONE ANOTHER (73) EBM-Papst Mulfingen GmbH&CO. KG (72) HAMMEL, Christian RÜCKERT, Christian (74) ir. F.A. Geurts c.s. (31) 102019214087 (32) 16.09.2019 (33) Germany (47) 30.08.2023
(51) F02G 1/04 (11) EP3099917 (21) EP15701523.1 (22) 27.01.2015 (54) A COMPRESSOR TRAIN WITH A STIRLING ENGINE (73) Nuovo Pignone Tecnologie - S.r.l. (72) BUFFA, Francesco SANTINI, Marco BAGAGLI, Riccardo TOGNARELLI, Leonardo (74) ir. W.J.J.M. Kempes (31) FI20140017 (32) 29.01.2014 (33) Italy (47) 11.10.2023	(31) 20210125573 (32) 23.09.2021 (33) Korea (Republic) (47) 08.11.2023	(51) F16B 2/08 B60K 15/067 B60K 15/07 (11) EP3379091 (21) EP18160966.0 (22) 09.03.2018 (54) MOUNTING DEVICE FOR A CLAMP (73) MAN Truck & Bus SE (72) Vogt, Moritz Ferwagner, Alexander Knebel, Sebastian (74) ir. A. Blokland c.s. (31) 102017002885 (32) 25.03.2017 (33) Germany (47) 20.09.2023
(51) F02P 15/00 H01T 13/04 H01T 13/06 H01T 13/08 F02F 7/00 H01F 38/12 F02P 3/02 F02P 7/00 F02P 13/00 (11) EP3789608 (21) EP20178659.7 (22) 08.06.2020 (54) COMBUSTION ENGINE (73) MAN Energy Solutions SE (72) Dirumdam, Björn Ruschkowski, Johannes (74) dr. ir. G.J.C. Verdijck c.s. (31) 102019123721 (32) 04.09.2019 (33) Germany (47) 27.09.2023	(51) F04B 39/06 B01D 53/06 B01D 53/26 F04C 29/00 F04C 29/04 (11) EP3959444 (21) EP20726238.7 (22) 20.04.2020 (54) COMPRESSOR INSTALLATION AND METHOD FOR DELIVERING A COMPRESSED GAS (73) ATLAS COPCO AIRPOWER, naamloze vennootschap (72) VAN NEDERKASSEL, Frederik POTTERS, Tom (74) dr. R.C. van Duijvenbode c.s. (31) 201905376 201962837762 P (32) 12.06.2019 24.04.2019 (33) Belgium United States of America (47) 20.09.2023	(51) F16B 2/08 F16L 3/123 H02G 3/32 F16B 5/06 (11) EP3665395 (21) EP18752700.7 (22) 31.07.2018 (54) CLIP FOR FASTENING A PIPE- SHAPED OR TUBE-SHAPED OBJECT (73) NORMA Germany GmbH (72) GEPPERT, Helmut SCHMIDT, Frank LANTSMANN, Natan SOMMER, Michael (74) ir. J.C. Volmer c.s. (31) 102017118047 (32) 08.08.2017 (33) Germany (47) 06.09.2023
(51) F03D 1/00 F03D 80/70 F03D 80/50 (11) EP3263888 (21) EP16177271.0 (22) 30.06.2016 (54) METHOD OF HANDLING A WIND TURBINE ROTOR BLADE PITCH BEARING UNIT (73) Siemens Gamesa Renewable Energy A/ S (72) Ebbesen, Henning Laursen, Christian (74) ir. W.J.J.M. Kempes (47) 04.10.2023	(31) 201905376 201962837762 P (32) 12.06.2019 24.04.2019 (33) Belgium United States of America (47) 20.09.2023	(51) F16C 17/18 F16C 33/04 (11) EP3794241 (21) EP19756420.6 (22) 03.07.2019 (54) ARTICULATED COMPONENT AND MECHANICAL SYSTEM COMPRISING SUCH A COMPONENT (73) HYDROMECHANIQUE ET FROTTEMENT (72) PROST, Fabrice PAVALLIER, Pierrick (74) ir. H.A. Witmans c.s. (31) 1856323 (32) 10.07.2018 (33) France (47) 25.10.2023
(51) F03D 13/10 B63B 35/00 B63B 35/44 (11) EP4155536 (21) EP22192269.3 (22) 26.08.2022	(47) 08.11.2023	(51) F16D 41/24 B62M 11/06 F16D 41/26 F16D 41/30 F16H 3/091

(11) EP3759372	B32B 5/02	(54) MULTI-COMPARTMENT TRANSPORT
(21) EP19709649.8	(11) EP4063707	REFRIGERATION SYSTEM WITH
(22) 28.02.2019	(21) EP21163967.9	ECONOMIZER
(54) CLUTCH ASSEMBLY AND	(22) 22.03.2021	(73) Carrier Corporation
TRANSMISSION UNIT FOR A MUSCLE-	(54) LINING HOSE	(72) SENF, JR., Raymond L.
POWERED VEHICLE	(73) Rädlinger primus line GmbH	STOCKBRIDGE, Michael
(73) Pinion GmbH	(72) Rädlinger, Werner	(74) J.M.H. Duyver lic.
(72) SCHMITZ, Michael	(74) J.M.H. Duyver lic.	(31) 201514794339
(74) ir. A.R. Aalbers	(47) 16.08.2023	(32) 08.07.2015
(31) 102018104692	(51) F21S 8/06	(33) United States of America
(32) 01.03.2018	F21V 8/00	(47) 08.11.2023
(33) Germany	F21V 19/00	(51) F26B 15/12
(47) 16.08.2023	F21V 21/104	F26B 21/02
(51) F16G 11/06	F21V 21/112	F26B 23/02
(11) EP3670961	F21V 23/00	(11) EP3730884
(21) EP18214573.0	F21Y 113/20	(21) EP20179791.7
(22) 20.12.2018	F21Y 115/10	(22) 20.10.2016
(54) A ROPE CONNECTOR FOR	(11) EP3800395	(54) TREATMENT SYSTEM AND METHOD
CONNECTING PREPARED ENDS	(21) EP19864908.9	FOR TREATING WORKPIECES
OF TWO ROPE SEGMENTS, A	(22) 26.09.2019	(73) Dürr Systems AG
ROPE EXTENSION SYSTEM AND A	(54) ILLUMINATION DEVICE AND LAMP	(72) Iglauer, Oliver
HOISTING SYSTEM COMPRISING	(73) Opplé Lighting Co., Ltd.	Woll, Kevin
SUCH ROPE CONNECTOR	Suzhou Opplé Lighting Co., Ltd.	Wieland, Dietmar
(73) Grant Prideco, Inc.	(72) WANG, Xiaolei	(74) ir. W.J.J.M. Kempes
(72) Røsok, Nils Øystein	QIAO, Shengyu	(31) 102015224916
Strand, Thor	(74) J.M.H. Duyver lic.	(32) 10.12.2015
(74) ir. A. Blokland c.s.	(31) 201821570066 U	(33) Germany
(47) 01.11.2023	201811122456	(47) 27.09.2023
(51) F16K 11/07	(32) 26.09.2018	(51) F28F 3/08
G01N 3/12	26.09.2018	F24F 12/00
F16K 1/32	(33) China	F28F 3/10
G01M 3/02	China	F28D 21/00
(11) EP3875815	(47) 11.10.2023	F28D 9/00
(21) EP21169427.8	(51) F21S 8/08	F28F 9/00
(22) 20.12.2012	(11) EP3305034	(11) EP3730892
(54) HOSE TEST SYSTEM AND METHOD	(21) EP16728894.3	(21) EP20180081.0
(73) Gates Corporation	(22) 03.06.2016	(22) 04.03.2014
(72) COOK, Colin Donald	(54) IMPROVEMENTS IN OR RELATING TO	(54) MEMBRANE-INTEGRATED ENERGY
(74) dr. R.C. van Duijvenbode c.s.	LUMINAIRES	EXCHANGE ASSEMBLY
(31) 20116157772 P	(73) Schreder	(73) Nortek Air Solutions Canada, Inc.
(32) 20.12.2011	(72) PAPOULAR, André	(72) ERB, Blake Norman
(33) United States of America	(74) J.M.H. Duyver lic.	HANSON, Stephen
(47) 25.10.2023	(31) 201505349	AFSHIN, Mohammad
(51) F16L 37/23	(32) 05.06.2015	(74) ir. J.D. de Zeeuw
F16L 55/00	(33) Belgium	(31) 201414190715
G01K 11/12	(47) 30.08.2023	201361783048 P
G01K 13/02	(51) F24F 13/02	(32) 26.02.2014
G01K 1/14	F16L 21/035	14.03.2013
(11) EP3805625	F16L 21/08	(33) United States of America
(21) EP19202012.1	(11) EP3945260	United States of America
(22) 08.10.2019	(21) EP20188414.5	(47) 13.09.2023
(54) COUPLING SYSTEM FOR HOSE AND /	(22) 29.07.2020	(51) G01C 21/20
OR PIPE LINES AND METHOD FOR	(54) CONNECTION ELEMENT FOR	(11) EP3983753
HANDLING A COUPLING SYSTEM FOR	CONNECTING WITH RECTANGULAR	(21) EP20750837.5
HOSE AND / OR PIPE LINES	DUCTING COMPONENTS	(22) 10.06.2020
(73) Lüdecke GmbH	(73) DEC Technologies B.V.	(54) DYNAMIC AIRCRAFT ROUTING
(72) SCHNELLINGER, Reinhold	(72) GÜL, Sıraç	(73) Joby Aero, Inc.
WEISS, Sebastian	DE GOEIJ, Theodorus Anthonius	(72) VILLA, Ian Andreas
(74) ir. W.J.J.M. Kempes	(74) ir. F.A. Geurts c.s.	PREVOT, Thomas
(47) 13.09.2023	(47) 23.08.2023	MUELLER, Eric
(51) F16L 55/165	(51) F25D 29/00	BOSSON, Christabelle
B32B 1/08	F25B 41/345	(74) ir. H.A. Witmans c.s.
B32B 27/12	F25B 5/02	(31) 201916437745
B32B 27/30	(11) EP3320277	(32) 11.06.2019
B32B 27/32	(21) EP16757992.9	(33) United States of America
B32B 27/34	(22) 07.07.2016	(47) 23.08.2023
B32B 27/36		(51) G01C 21/32
B32B 27/40		(11) EP3660457

(21) EP19211762.0	(21) EP17714173.6	20160175951
(22) 27.11.2019	(22) 27.03.2017	(32) 31.01.2017
(54) METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR REDUCING REDUNDANT DATA UPLOADS	(54) APPARATUS AND METHOD FOR PREPARING A SAMPLE MATERIAL	21.12.2016
(73) HERE Global B.V.	(73) FLSmith A/S	(33) Korea (Republic)
(72) Dousse, Olivier	(72) TEUTENBERG, Reinhard	Korea (Republic)
Nagy, Akos	(74) J.M.H. Duyver lic.	(47) 16.08.2023
(74) ir. W.J.J.M. Kempes	(31) 102016205243	(51) G01N 33/569
(31) 201816203910	(32) 30.03.2016	(11) EP4004547
(32) 29.11.2018	(33) Germany	(21) EP21717462.2
(33) United States of America	(47) 18.10.2023	(22) 13.04.2021
(47) 04.10.2023	(51) G01N 1/40	(54) METHODS FOR DETECTING THE PRESENCE OF CORONAVIRUS- SPECIFIC ANTIBODIES IN A SUBJECT
(51) G01F 1/58	G01N 31/00	(73) (INSERM) Institut National de la Santé et de la Recherche Médicale
(11) EP3640604	G01N 31/22	Université de Rouen Normandie
(21) EP19199472.2	(11) EP3839501	Centre Hospitalier Universitaire de Rouen
(22) 25.09.2019	(21) EP19894137.9	(72) BOYER, Olivier
(54) MAGNETIC-INDUCTIVE FLOW RATE MEASURING DEVICE, MAGNETIC CIRCUIT DEVICE AND METHOD FOR PRODUCING SAME	(22) 27.11.2019	DROUOT, Laurent
(73) Krohne AG	(54) METHOD AND DEVICE FOR ISOLATING AND ANALYZING TARGET SUBSTANCE IN SOLUTION	(74) ir. F.A. Geurts c.s.
(72) Neven, Joseph	(73) Mitsui Mining & Smelting Co., Ltd.	(31) 20305614
(74) ir. W.J.J.M. Kempes	BL Tec K.K.	20315157
(31) 102018125865	(72) YOSHINAGA, Fumihito	(32) 09.06.2020
(32) 18.10.2018	KOYANAGI, Atsumi	14.04.2020
(33) Germany	NISHIMURA, Takashi	(33) European Patent Office (EPO)
(47) 16.08.2023	ISHIHARA, Yoza	European Patent Office (EPO)
(51) G01J 3/50	NAGAOKA, Makoto	(47) 11.10.2023
G01J 1/02	HATAMOTO, Shunichi	(51) G01R 33/50
G01J 3/02	KUMAGAI, Makiko	G01R 33/56
(11) EP3385687	(74) ir. W.J.J.M. Kempes	G01R 33/44
(21) EP16870499.7	(31) 2018226851	G01R 33/58
(22) 22.11.2016	(32) 03.12.2018	(11) EP3844516
(54) OPTICAL DEVICE FOR MEASUREMENT	(33) Japan	(21) EP19783141.5
(73) Konica Minolta, Inc.	(47) 06.09.2023	(22) 28.08.2019
(72) KADOWAKI, Yutaka	(51) G01N 27/02	(54) MAGNETIC RESONANCE IMAGING BASED ON TRANSIENT RESPONSE SIGNALS
KOSAKA, Akira	G01N 33/24	(73) Erasmus University Rotterdam Medical Center
(74) dr. ir. F.M. van Bouwelen	(11) EP3872483	(72) KOTEK, Gyula
(31) 2015233288	(21) EP19877043.0	HERNÁNDEZ TAMAMES, Juan Antonio
(32) 30.11.2015	(22) 18.10.2019	(74) ir. H.A. Witmans c.s.
(33) Japan	(54) SOIL EVALUATION SENSOR, SOIL EVALUATION SYSTEM, ELECTRODE FOR SOIL EVALUATION SENSOR, AND DEVICE FOR OBTAINING IMPEDANCE CHARACTERISTIC OF SOIL	(31) 18191501
(47) 25.10.2023	(73) National University Corporation Shizuoka University	(32) 29.08.2018
(51) G01L 1/24	(72) FUTAGAWA, Masato	(33) European Patent Office (EPO)
B61K 9/08	(74) dr. ir. F.M. van Bouwelen	(47) 30.08.2023
G01M 11/08	(31) 2018198529	(51) G01V 1/145
G01M 17/10	(32) 22.10.2018	(11) EP3097437
(11) EP4098987	(33) Japan	(21) EP15704629.3
(21) EP22174514.4	(47) 18.10.2023	(22) 21.01.2015
(22) 20.05.2022	(51) G01N 33/48	(54) OPERATIONAL CONTROL IN A SEISMIC SOURCE
(54) MEASURING WHEEL SET	G01N 33/50	(73) BP Corporation North America Inc.
(73) Deutsche Bahn AG	G06Q 50/22	(72) HARPER, Mark Francis Lucien
(72) Brodtka, Andreas	(11) EP3561507	DELLINGER, Joseph Anthony
Ruberg, Lennart	(21) EP17861188.5	(74) ir. F.A. Geurts c.s.
Schwabe, Olaf	(22) 24.11.2017	(31) 201461929656 P
Meyer, Philipp	(54) DIAGNOSTIC APPARATUS AND DIAGNOSTIC METHOD FOR MEASUREMENTS ON SALIVA	(32) 21.01.2014
(74) J.M.H. Duyver lic.	(73) Dongwoon Anatech Co., Ltd.	(33) United States of America
(31) 102021114425	(72) SHIN, Ik Soo	(47) 06.09.2023
(32) 04.06.2021	WOO, Hee Jae	(51) G01V 1/40
(33) Germany	JANG, In Su	(11) EP3769128
(47) 18.10.2023	KIM, Dong Cheol	(21) EP19715997.3
(51) G01N 1/28	(74) dr. R.C. van Duijvenbode c.s.	(22) 08.03.2019
B03C 1/28	(31) 20170013783	(54) DETERMINING ANISOTROPY FOR A BUILD SECTION OF A WELLBORE
G01N 33/20		(73) Chevron U.S.A. Inc.
G01N 23/20		
(11) EP3436795		

(72) HORNE, Stephen Allan	(11) EP3611545	201920810445 U
(74) dr. R.C. van Duijvenbode c.s.	(21) EP18785229.8	201910465513
(31) 201815926700	(22) 15.03.2018	(32) 30.05.2019
(32) 20.03.2018	(54) MANUFACTURING METHOD FOR	30.05.2019
(33) United States of America	OPTICAL FIBER CABLE AND	30.05.2019
(47) 08.11.2023	MANUFACTURING DEVICE FOR	30.05.2019
(51) G01V 99/00	OPTICAL FIBER CABLE	(33) China
G06F 111/10	(73) Fujikura Ltd.	China
(11) EP3759527	(72) TOMIKAWA, Kouji	China
(21) EP19712067.8	OSATO, Ken	China
(22) 27.02.2019	SATO, Shinnosuke	(47) 01.11.2023
(54) LOCATING NEW HYDROCARBON	(74) dr. R.C. van Duijvenbode c.s.	(51) G03B 21/20
FIELDS AND PREDICTING	(31) 2017080438	(11) EP4078290
RESERVOIR PERFORMANCE FROM	(32) 14.04.2017	(21) EP21811572.3
HYDROCARBON MIGRATION	(33) Japan	(22) 21.10.2021
(73) Saudi Arabian Oil Company	(47) 27.09.2023	(54) PROJECTION SYSTEM AND
(72) DOGRU, Ali, Haydar	(51) G02B 21/32	METHOD WITH ADJUSTABLE
(74) ir. H.A. Witmans c.s.	B82Y 35/00	ANGLE ILLUMINATION USING LENS
(31) 201815907828	(11) EP3008506	DECENTRATION
(32) 28.02.2018	(21) EP14737025.8	(73) Dolby Laboratories Licensing Corporation
(33) United States of America	(22) 11.06.2014	(72) WAINWRIGHT, Nathan Shawn
(47) 23.08.2023	(54) MOLECULAR MANIPULATION SYSTEM	HENNIGAN, Darren
(51) G02B 5/18	AND METHOD	JACKSON, John David
G02B 6/10	(73) LUMICKS CA Holding B.V.	(74) J.M.H. Duyver lic.
G02B 27/01	(72) PETERMAN, Erwin Johannes Gerard	(31) 202063104845 P
G02B 27/42	WUITE, Gijs Jan Lodewijk	(32) 23.10.2020
G02B 26/10	SITTERS, Gerrit	(33) United States of America
(11) EP3359990	KAMSMA, Douwe	(47) 27.09.2023
(21) EP16854353.6	(74) ir. H.A. Witmans c.s.	(51) G03F 7/20
(22) 06.10.2016	(31) 2010960	G03F 9/00
(54) VIRTUAL/AUGMENTED REALITY	(32) 12.06.2013	H05K 3/00
SYSTEM HAVING REVERSE ANGLE	(33) Netherlands	(11) EP2684096
DIFFRACTION GRATING	(47) 20.09.2023	(21) EP12755025.9
(73) Magic Leap, Inc.	(51) G02B 27/01	(22) 06.03.2012
(72) EDWIN, Lionel Ernest	G02B 27/00	(54) TOOL TO WORKPIECE ALIGNMENT
YEOH, Ivan L.	G02B 5/18	METHOD AND SYSTEM
WELCH, William Hudson	G02B 1/00	(73) Chime Ball Technology Co., Ltd.
CHENG, Hui-Chuan	(11) EP3871032	(72) DOHSE, Hans
TINCH, David	(21) EP19748904.0	(74) mr. ir. J. van Breda c.s.
(31) 201562238052 P	(22) 24.07.2019	(31) 201113041622
(32) 06.10.2015	(54) DEVICE FOR AUGMENTED REALITY	(32) 07.03.2011
(33) United States of America	OR VIRTUAL REALITY DISPLAY	(33) United States of America
(47) 20.09.2023	(73) Snap Inc.	(47) 13.09.2023
(51) G02B 6/00	(72) VALERA, Mohmed Salim	(51) G03G 9/087
G02B 6/10	FOX, Sofia	(11) EP3213150
G02F 1/065	PHELAN, Ciaran	(21) EP15854366.0
G02B 7/00	ALEXEEV, Arseny	(22) 08.10.2015
G02B 27/01	(74) J.M.H. Duyver lic.	(54) TONER, TONER ACCOMMODATING
F21V 8/00	(31) 201817310	UNIT, AND IMAGE FORMING
G02B 27/00	(32) 24.10.2018	APPARATUS
(11) EP3874305	(33) United Kingdom	(73) Ricoh Company, Ltd.
(21) EP19879571.8	(47) 18.10.2023	(72) NAKAYAMA, Shinya
(22) 30.10.2019	(51) G02F 1/155	SANTO, Hideyuki
(54) POLYMER EYEPIECE ASSEMBLIES	G02F 1/161	NAGATA, Kohsuke
FOR AUGMENTED AND MIXED	H04M 1/02	AMEMORI, Suzuka
REALITY SYSTEMS	G02F 1/157	YAMADA, Hiroshi
(73) Magic Leap, Inc.	(11) EP3754421	SUGIMOTO, Tsuyoshi
(72) BHAGAT, Sharad D.	(21) EP20177481.7	CHIBA, Ryuta
PEROZ, Christophe	(22) 29.05.2020	(74) ir. H.A. Witmans c.s.
JONES, William K., Jr.	(54) ELECTROCHROMIC DEVICE	(31) 2015185840
DENG, Xiaopei	AND ELECTRONIC APPARATUS	2014221459
CHANG, Chieh	COMPRISING THE SAME	(32) 18.09.2015
LI, Ling	(73) GUANGDONG OPPO MOBILE	30.10.2014
(31) 201862752838 P	TELECOMMUNICATIONS CORP., LTD.	(33) Japan
(32) 30.10.2018	(72) YANG, Xin	Japan
(33) United States of America	(74) ir. W.J.J.M. Kempes	(47) 23.08.2023
(47) 20.09.2023	(31) 201920802996 U	(51) G03G 15/00
(51) G02B 6/44	201910464864	G03G 15/08

(11) EP3762782	(73) Pegatron Corporation	G06F 1/30
(21) EP19852615.4	(72) LIN, Chuan-Yuan	G06F 1/32
(22) 25.02.2019	WANG, Hui-Chen	G06F 1/3234
(54) DEVELOPMENT CARTRIDGE WITH DEVELOPER INLET FOR REFILLING DEVELOPER AND CAP SEALING DEVELOPER INLET	HSIEH, I-Tien	(11) EP3237993
(73) Hewlett-Packard Development Company, L.P.	WU, Hung-Yun	(21) EP15873883.1
(72) JANG, Hojin	(74) ir. A.R. Aalbers	(22) 12.10.2015
PARK, Jong-Hyun	(31) 110117950	(54) SYSTEMS AND METHODS FOR CORE DROOP MITIGATION BASED ON LICENSE STATE
PARK, Jong-Hwa	(32) 18.05.2021	(73) Intel Corporation
KIM, Daeho	(33) Taiwan, Chinese Taipei	(72) HAIDER, Nazar S.
KWON, Seil	(47) 13.09.2023	MULLA, Dean
(74) ir. W.J.J.M. Kempes	(51) G06F 1/16	CHU, Allen W.
(31) 20180098848	A61B 5/00	(74) ir. W.J.J.M. Kempes
(32) 23.08.2018	(11) EP3451117	(31) 201414581781
(33) Korea (Republic)	(21) EP18191526.5	(32) 23.12.2014
(47) 18.10.2023	(22) 29.08.2018	(33) United States of America
(51) G03G 21/16	(54) WEARABLE ELECTRONIC DEVICE WITH ELECTRODES FOR SENSING BIOLOGICAL PARAMETERS	(47) 30.08.2023
G03G 21/18	(73) Apple Inc.	(51) G06F 1/3287
G03G 15/08	(72) HARRISON-NOONAN, Tobias J.	G11C 5/14
(11) EP3754430	PANDYA, Sameer	H03K 17/10
(21) EP20189862.4	De Jong, Erik G.	H03K 17/16
(22) 22.08.2016	WITTENBERG, Michael B.	H03K 19/00
(54) DEVELOPING CARTRIDGE	CARDINALI, Steven P.	H03K 19/0175
(73) BROTHER KOGYO KABUSHIKI KAISHA	ROACH, Steven Colin	(11) EP3602761
(72) YOKOI, Junichi	CLAVELLE, Adam T.	(21) EP18771236.9
ITABASHI, Nao	MELCHER, Martin	(22) 22.02.2018
(74) dr. R.C. van Duijvenbode c.s.	ZHANG, Zhipeng	(54) POWER GATE RAMP-UP CONTROL APPARATUS
(47) 18.10.2023	(74) ir. A.R. Aalbers	(73) INTEL Corporation
(51) G03H 1/08	(31) 201862644886 P	(72) MOZAK, Christopher
G03H 1/22	201762554196 P	KILADA, Eliyah
(11) EP3885841	(32) 19.03.2018	(74) ir. W.J.J.M. Kempes
(21) EP21155772.3	05.09.2017	(31) 201715466688
(22) 08.02.2021	(33) United States of America	(32) 22.03.2017
(54) PROJECTION	United States of America	(33) United States of America
(73) Dualitas Ltd.	(47) 23.08.2023	(47) 06.09.2023
(72) Christmas, Jamieson	(51) G06F 1/16	(51) G06F 3/0481
(74) J.M.H. Duyver lic.	G06F 3/041	(11) EP3835932
(31) 202004305	(11) EP3056967	(21) EP20187320.5
(32) 25.03.2020	(21) EP16155858.0	(22) 04.01.2015
(33) United Kingdom	(22) 16.02.2016	(54) METHOD, APPARATUS, AND TERMINAL FOR PROCESSING NOTIFICATION INFORMATION
(47) 25.10.2023	(54) DISPLAY DEVICE	(73) HUAWAI TECHNOLOGIES CO., LTD.
(51) G05D 1/02	(73) Samsung Display Co., Ltd.	(72) LI, Xiaojuan
G06Q 10/08	(72) SOHN, Jiwon	WANG, Yahui
(11) EP4066077	NA, Hyun Jae	JING, Hao
(21) EP20833987.9	KIM, Cheolkyu	FU, Dian
(22) 24.11.2020	AHN, Soonsung	(74) ir. W.J.J.M. Kempes
(54) METHOD AND CONTROL ARRANGEMENT FOR OPERATING AN AUTONOMOUS AGRICULTURAL VEHICLE	CHOI, Sangkyu	(47) 25.10.2023
(73) DeLaval Holding AB	KO, Gwang-bum	(51) G06F 3/12
(72) BRINK, Marek	(74) ir. H.A. Witmans c.s.	(11) EP3374851
JAKLIK, Bartlomiej	(31) 20150023580	(21) EP16795311.6
SLUSARCZYK, Bartlomiej	(32) 16.02.2015	(22) 11.11.2016
(74) ir. W.J.J.M. Kempes	(33) Korea (Republic)	(54) METHOD FOR INPUTTING PRINT DATA FOR PRINTING ON A PRINT OBJECT BY MEANS OF A PRINTER, AND PRINTING SYSTEM HAVING AT LEAST TWO PRINTERS
(31) 1951367	(47) 23.08.2023	(73) Phoenix Contact GmbH & Co. KG
(32) 28.11.2019	(51) G06F 1/16	(72) ISAAK, Peter
(33) Sweden	H10K 50/86	SCHIERHOLZ, Albrecht
(47) 25.10.2023	(11) EP3657296	(31) 102015119681
(51) G06F 1/16	(21) EP19193592.3	(32) 13.11.2015
(11) EP4092506	(22) 26.08.2019	(33) Germany
(21) EP22165003.9	(54) DISPLAY DEVICE	(47) 01.11.2023
(22) 29.03.2022	(73) Samsung Display Co., Ltd.	(51) G06F 3/12
(54) ELECTRONIC DEVICE WITH CAMERA ANTI-PEEPING STRUCTURE	(72) Shin, Jaiku	
	(74) dr. R.C. van Duijvenbode c.s.	
	(31) 20180105953	
	(32) 05.09.2018	
	(33) Korea (Republic)	
	(47) 04.10.2023	
	(51) G06F 1/26	

(11) EP3818435	SEO, Jungmin	G11C 7/02
(21) EP19739726.8	YANG, Seungjun	G11C 7/04
(22) 27.06.2019	KIM, Byeonghui	G11C 7/10
(54) PRINT SERVER, IMAGE FORMING APPARATUS, METHOD OF CONTROLLING PRINTING OPERATION AND RECORDING MEDIUM	(74) ir. H.A. Witmans c.s.	H01L 27/06
(73) Ricoh Company, Ltd.	(31) 20190178994	(11) EP3901778
(72) TANAKA, Kensuke	(32) 31.12.2019	(21) EP20216297.0
(74) ir. H.A. Witmans c.s.	(33) Korea (Republic)	(22) 22.12.2020
(31) 2018127068	(47) 23.08.2023	(54) STACKED MEMORY DEVICE WITH END TO END DATA BUS INVERSION
(32) 03.07.2018	(51) G06F 12/0862	(73) INTEL Corporation
(33) Japan	G06F 12/06	(72) LANKA, Narasimha
(47) 11.10.2023	G06F 12/02	BAINS, Kuljit
(51) G06F 7/58	G06F 12/0804	SESHAN, LakshmiPriya
(11) EP3770751	G06F 12/0875	(74) ir. W.J.J.M. Kempes
(21) EP20186101.0	G06F 12/0893	(31) 202016854280
(22) 16.07.2020	G06F 12/0895	(32) 21.04.2020
(54) HIGH SPEED ENCRYPTION KEY GENERATING ENGINE	G06F 12/12	(33) United States of America
(73) PUFsecurity Corporation	G06F 12/128	(47) 30.08.2023
(72) Yang, Ching-Sung	G06F 9/38	(51) G06F 18/213
Wu, Meng-Yi	G06F 9/30	G06F 18/2413
(74) ir. A.R. Aalbers	G06F 7/58	(11) EP3528166
(31) 201962878725 P	G06F 9/50	(21) EP18157358.5
(32) 25.07.2019	G06F 15/173	(22) 19.02.2018
(33) United States of America	G06F 16/2453	(54) APPARATUS AND METHOD FOR CLASSIFYING A MOTION OF A MOVABLE PERSONAL APPLIANCE
(47) 18.10.2023	G06F 16/245	(73) Braun GmbH
(51) G06F 9/30	G06F 16/27	(72) MAO, Xiaole
G06F 9/38	(11) EP3938894	SHERMAN, Faiz Feisal
G06F 13/16	(21) EP20718902.8	(74) ir. W.J.J.M. Kempes
(11) EP3394761	(22) 14.03.2020	(47) 18.10.2023
(21) EP15911124.4	(54) MULTI-TILE MEMORY MANAGEMENT FOR DETECTING CROSS TILE ACCESS, PROVIDING MULTI-TILE INFERENCE SCALING, AND PROVIDING OPTIMAL PAGE MIGRATION	(51) G06F 21/32
(22) 24.12.2015	(73) INTEL Corporation	(11) EP3881204
(54) CONFLICT MASK GENERATION	(72) KOKER, Altug	(21) EP19836000.0
(73) Intel Corporation	PANNEER, Selvakumar	(22) 07.11.2019
(72) JIN, Jun	MACPHERSON, Mike	(54) FACE RECOGNITION IN NOISY ENVIRONMENTS
OULD-AHMED-VALL, Elmoustapha	MAIYURAN, Subramaniam	(73) Microsoft Technology Licensing, LLC
(74) ir. W.J.J.M. Kempes	MISTRY, Nilay	(72) GIAIMO, Edward C., III
(47) 30.08.2023	SHAH, Ankur	HASSAN, Amer A.
(51) G06F 9/38	STRIRAMASSARMA, Lakshminarayanan	(74) dr. R.C. van Duijvenbode c.s.
G06F 9/30	SURTI, Prasoonkumar	(31) 201816191057
G06F 8/41	APPU, Abhishek	(32) 14.11.2018
(11) EP3916544	ANDREI, Valentin	(33) United States of America
(21) EP20208434.9	GALOPPO VON BORRIES, Nicolas	(47) 18.10.2023
(22) 18.11.2020	GEORGE, Varghese	(51) G06F 21/32
(54) ORDERING OF SHADER CODE EXECUTION	ANANTARAMAN, Aravindh	(11) EP3881205
(73) INTEL Corporation	TANGRI, Saurabh	(21) EP19836002.6
(72) RUDNICKI, Rafal	OULD-AHMED-VALL, Elmoustapha	(22) 07.11.2019
SZYMANSKI, Przemyslaw	RANGANATHAN, Vasanth	(54) FACE RECOGNITION IN NOISY ENVIRONMENTS
(74) ir. W.J.J.M. Kempes	ASHBAUGH, Ben	(73) Microsoft Technology Licensing, LLC
(31) 202016885003	RAY, Joydeep	(72) HASSAN, Amer A.
(32) 27.05.2020	(74) ir. W.J.J.M. Kempes	GIAIMO, Edward C., III
(33) United States of America	(31) 201962819361 P	PEREZ NAFARRATE, Carlos A.
(47) 30.08.2023	201962819337 P	(74) dr. R.C. van Duijvenbode c.s.
(51) G06F 12/02	201962819435 P	(31) 201816191079
G06N 3/045	(32) 15.03.2019	(32) 14.11.2018
G06N 3/04	15.03.2019	(33) United States of America
G06N 3/08	(33) United States of America	(47) 18.10.2023
(11) EP3846037	United States of America	(51) G06F 21/57
(21) EP20217489.2	United States of America	G06F 21/72
(22) 29.12.2020	United States of America	(11) EP3161716
(54) STORAGE DEVICE CONFIGURED TO SUPPORT MULTI-STREAMS AND OPERATION METHOD THEREOF	(47) 30.08.2023	(21) EP15812809.0
(73) Samsung Electronics Co., Ltd.	(51) G06F 13/16	(22) 25.06.2015
(72) JUNG, Kibeen	G11C 5/06	(54) MANAGEMENT OF AUTHENTICATED VARIABLES
		(73) Intel Corporation

- (72) ZIMMER, Vincent J.
ADAMS, Nicholas J.
MUDUSURU, Giri P.
ROSENBAUM, Lee G.
ROTHMAN, Michael A.
- (74) ir. W.J.J.M. Kempes
(31) 201414317909
(32) 27.06.2014
(33) United States of America
(47) 30.08.2023
-
- (51) G06N 3/04
G06F 9/48
G06N 3/063
H03K 19/177
G06F 9/30
G06F 9/38
G06N 3/044
G06N 3/045
G06N 3/08
H03K 19/17796
(11) EP3566184
(21) EP18709852.0
(22) 22.02.2018
(54) HARDWARE NODE WITH POSITION-DEPENDENT MEMORIES FOR NEURAL NETWORK PROCESSING
(73) Microsoft Technology Licensing, LLC
(72) FOWERS, Jeremy
BURGER, Douglas C.
CHUNG, Eric S.
(74) J.M.H. Duyver lic.
(31) 201715637426
201762465063 P
(32) 29.06.2017
28.02.2017
(33) United States of America
United States of America
(47) 18.10.2023
-
- (51) G06N 3/065
G06N 3/044
(11) EP3963512
(21) EP19817090.4
(22) 17.11.2019
(54) DECODING SYSTEM AND PHYSICAL LAYOUT FOR ANALOG NEURAL MEMORY IN DEEP LEARNING ARTIFICIAL NEURAL NETWORK
(73) Silicon Storage Technology, Inc.
(72) PHAM, Hien
TRAN, Han
NGUYEN, Kha
HONG, Stanley
TRINH, Stephen
VU, Thuan
LY, Anh
TRAN, Hieu Van
(74) ir. H.Th. van den Heuvel c.s.
(31) 201916503355
201962840318 P
(32) 03.07.2019
29.04.2019
(33) United States of America
United States of America
(47) 30.08.2023
-
- (51) G06N 10/20
G06N 10/40
G06F 7/501
(11) EP3811300
- (21) EP19733348.7
(22) 07.06.2019
(54) PARALLEL MULTI-QUBIT OPERATIONS ON A UNIVERSAL ION TRAP QUANTUM COMPUTER
(73) University of Maryland, College Park
IonQ, Inc.
(72) FIGGATT, Caroline
OSTRANDER, Aaron
LINKE, Norbert M.
LANDSMAN, Kevin A.
ZHU, Daiwei
MASLOV, Dmitri
MONROE, Christopher
(74) dr. R.C. van Duijvenbode c.s.
(31) 201916433950
201862682677 P
(32) 06.06.2019
08.06.2018
(33) United States of America
United States of America
(47) 06.09.2023
-
- (51) G06N 10/40
G06N 10/70
(11) EP3707648
(21) EP18811417.7
(22) 07.11.2018
(54) QUANTUM NETWORK NODE AND PROTOCOLS WITH MULTIPLE QUBIT SPECIES
(73) University of Maryland, College Park
(72) MONROE, Christopher
INLEK, Ismail Volkan
LICHTMAN, Martin
SOSNOVA, Ksenia
CROCKER, Clayton
(74) dr. R.C. van Duijvenbode c.s.
(31) 201816182219
201862694604 P
201762582529 P
(32) 06.11.2018
06.07.2018
07.11.2017
(33) United States of America
United States of America
United States of America
(47) 27.09.2023
-
- (51) G06Q 40/02
G06Q 20/32
G06Q 20/34
G07F 7/08
(11) EP3511895
(21) EP19150714.4
(22) 08.01.2019
(54) UTILIZING A TRANSACTION CARD TO PROVIDE SECONDARY AUTHENTICATION FOR ACCESSING A SECURE APPLICATION WITH A USER DEVICE
(73) Capital One Services, LLC
(72) ZARAKAS, James
JOHNSON, Molly
PERRY, Robert
LOCKE, Tyler
KOEPEL, Adam
(74) dr. R.C. van Duijvenbode c.s.
(31) 201815867233
(32) 10.01.2018
- (33) United States of America
(47) 23.08.2023
-
- (51) G06T 3/40
G06T 11/60
G06F 16/54
(11) EP4040376
(21) EP20902823.2
(22) 11.12.2020
(54) PICTURE PROCESSING METHOD AND APPARATUS, AND ELECTRONIC DEVICE AND STORAGE MEDIUM
(73) Honor Device Co., Ltd.
(72) HU, Liang
ZHANG, Yundie
(74) ir. W.J.J.M. Kempes
(31) 201911304930
(32) 17.12.2019
(33) China
(47) 08.11.2023
-
- (51) G06T 7/60
(11) EP3146507
(21) EP15744993.5
(22) 20.05.2015
(54) SYSTEM AND METHOD FOR VALVE QUANTIFICATION
(73) Materialise NV
(72) PIAZZA, Nicolo
VERSCHUEREN, Peter
PIETILA, Todd
(74) dr. ir. G.J.C. Verdijk c.s.
(31) 201462001016 P
(32) 20.05.2014
(33) United States of America
(47) 04.10.2023
-
- (51) G06V 10/44
G06V 10/50
G06V 40/18
(11) EP3809310
(21) EP18927060.6
(22) 18.09.2018
(54) METHOD AND ELECTRONIC DEVICE FOR DETECTING OPEN AND CLOSED STATES OF EYES
(73) Honor Device Co., Ltd.
(72) JIANG, Yongtao
LI, Hongbao
GAO, Wenmei
DONG, Chen
(74) ir. W.J.J.M. Kempes
(31) 201810776284
(32) 16.07.2018
(33) China
(47) 08.11.2023
-
- (51) G06V 10/70
(11) EP3550471
(21) EP19166907.6
(22) 02.04.2019
(54) METHOD, APPARATUS, AND SYSTEM FOR DETERMINING POLYLINE HOMOGENEITY
(73) HERE Global B.V.
(72) GUPTA, Himaanshu
KWANT, Richard
LAWLOR, David
CHEN, Zhanwei
MITTAL, Anish
(74) ir. A. Blokland c.s.
(31) 201815946364

(32) 05.04.2018	(11) EP3639247	G11C 16/04
(33) United States of America	(21) EP18737354.3	G11C 16/10
(47) 04.10.2023	(22) 18.06.2018	G11C 16/26
(51) G06V 20/69	(54) VENDING MACHINES	G11C 16/34
(11) EP2973217	(73) Davitt, Maxwell Paul	(11) EP3703056
(21) EP14722003.2	(72) Davitt, Maxwell Paul	(21) EP20154192.7
(22) 10.03.2014	(74) dr. R.C. van Duijvenbode c.s.	(22) 28.01.2020
(54) SYSTEM AND METHOD FOR REVIEWING AND ANALYZING CYTOLOGICAL SPECIMENS	(31) 201709632	(54) PROGRAM SUSPEND-RESUME TECHNIQUES IN NON-VOLATILE STORAGE
(73) Hologic, Inc.	(32) 16.06.2017	(73) Intel Corporation
(72) LUDLOW, Eileen KAUFMAN, Howard, B.	(33) United Kingdom	(72) D'ALESSANDRO, Andrea DONATI, Giacomo MOSCHIANO, Violante
(74) J.M.H. Duyver lic.	(47) 16.08.2023	(74) ir. W.J.J.M. Kempes
(31) 201361787975 P	(51) G07F 17/00	(31) 201916287863
(32) 15.03.2013	B65B 35/02	(32) 27.02.2019
(33) United States of America	B65B 5/10	(33) United States of America
(47) 25.10.2023	A61J 3/00	(47) 30.08.2023
(51) G07B 15/06	G07F 11/44	(51) G11C 16/08
(11) EP3136351	B65D 83/04	G11C 16/10
(21) EP15465532.8	G07F 11/00	G11C 16/16
(22) 26.08.2015	(11) EP3610468	G11C 16/24
(54) ROAD TOLL SYSTEM, ON-BOARD UNIT AND METHOD FOR OPERATING AN ON-BOARD UNIT	(21) EP18706983.6	G11C 16/26
(73) Continental Automotive Technologies GmbH	(22) 15.02.2018	G11C 16/04
(72) Pascu, Daniel-Adrian Soare, Sorin Stan, Silviu Botiz, Ciprian Vasile Aldea-Ungurean, Doru Mudra, Iosif	(54) STORAGE CONTAINER FOR A STORAGE AND DISPENSING STATION	H01L 29/423
(74) ir. W.J.J.M. Kempes	(73) Becton Dickinson Rowa Germany GmbH	H01L 29/788
(47) 11.10.2023	(72) GROSS, Dietmar	H10B 41/30
(51) G07C 9/00	(74) J.M.H. Duyver lic.	(11) EP4046158
H04L 9/40	(31) 17166081	(21) EP20718030.8
(11) EP3776496	(32) 11.04.2017	(22) 12.03.2020
(21) EP18717917.1	(33) European Patent Office (EPO)	(54) FOUR GATE, SPLIT-GATE FLASH MEMORY ARRAY WITH BYTE ERASE OPERATION
(22) 12.04.2018	(47) 18.10.2023	(73) Silicon Storage Technology Inc.
(54) SECURE DEVICE OPERATION USING TRANSFERRED CODE MODULES	(51) G10L 21/003	(72) LIANG, Hsuan WU, Man Tang YANG, Jeng-Wei CHANG, Lihsin TRAN, Hieu Van DO, Nhan
(73) Telefonaktiebolaget LM Ericsson (publ)	G06F 40/42	(74) ir. H.Th. van den Heuvel c.s.
(72) PERSSON, Per HOLMBERG, Torgny ANGELSMARK, Ola	G06N 3/045	(31) 202016784183
(74) ir. A. Blokland c.s.	G06N 3/047	201962914799 P
(47) 11.10.2023	G06N 3/088	(32) 06.02.2020
(51) G07C 9/00	G06N 3/04	14.10.2019
H04W 4/02	G10L 25/30	(33) United States of America United States of America
B60R 25/24	(11) EP3855340	(47) 30.08.2023
(11) EP3496054	(21) EP20217111.2	(51) G16B 20/00
(21) EP18210668.2	(22) 23.12.2020	G16B 30/00
(22) 06.12.2018	(54) CROSS-LINGUAL VOICE CONVERSION SYSTEM AND METHOD	G16B 40/00
(54) SECURE SEAMLESS ACCESS CONTROL	(73) TMRW Foundation IP SARL	C12Q 1/6869
(73) Carrier Corporation	(72) Yerli, Cevat	G16B 40/10
(72) Kuenzi, Adam Purdue, Adam	(74) ir. J.C. Volmer c.s.	G16B 20/20
(74) dr. R.C. van Duijvenbode c.s.	(31) 201962955227 P	(11) EP3653731
(31) 201762596139 P	(32) 30.12.2019	(21) EP19216343.4
(32) 08.12.2017	(33) United States of America	(22) 27.12.2016
(33) United States of America	(47) 30.08.2023	(54) METHOD FOR PERFORMING GENOTYPING ANALYSIS
(47) 23.08.2023	(51) G10L 21/02	(73) Limagrain Europe
(51) G07F 11/44	H04R 1/10	(72) DUMAS, Anne-Valérie CHAUVET, Stéphanie GUILLOUD, Sandra MARTINANT, Jean-Pierre COLLANGE, Guillaume
G07F 17/00	G10L 21/0208	(74) ir. W.J.J.M. Kempes
A23G 9/28	G10L 21/034	(31) 201911359322
	G10L 21/0216	(32) 25.12.2019
	(11) EP4021008	(33) China
	(21) EP20907146.3	(47) 18.10.2023
	(22) 09.11.2020	(51) G11C 11/56
	(54) VOICE SIGNAL PROCESSING METHOD AND DEVICE	
	(73) Honor Device Co., Ltd.	
	(72) ZHANG, Xianchun ZHONG, Jinyun	
	(74) ir. W.J.J.M. Kempes	

- (51) G16B 20/10
G16B 20/20
G16B 25/10
G16B 30/10
G16B 30/20
- (11) EP2948886
(21) EP14703701.4
(22) 21.01.2014
- (54) METHODS AND PROCESSES FOR NON-INVASIVE ASSESSMENT OF GENETIC VARIATIONS
- (73) Sequenom, Inc.
(72) DECIU, Cosmin
DZAKULA, Zeljko
- (74) ir. W.J.J.M. Kempes
(31) 201313933935
201313779638
201361756953 P
- (32) 02.07.2013
27.02.2013
25.01.2013
- (33) United States of America
United States of America
United States of America
- (47) 23.08.2023
- (51) G16H 50/20
G16H 50/30
- (11) EP3123381
(21) EP15768735.1
(22) 27.03.2015
- (54) COMPOSITIONS AND METHODS RELATED TO DIAGNOSIS OF PROSTATE CANCER
- (73) Opko Diagnostics, LLC
(72) STEINMILLER, David
LOVGREN, Timo
SCARDINO, Peter, T.
LINDER, Vincent
PETTERSSON, Kim
VICKERS, Andrew, J.
LILJA, Hans
- (74) ir. W.J.J.M. Kempes
(31) 201461972099 P
(32) 28.03.2014
(33) United States of America
- (47) 11.10.2023
- (51) H01F 27/02
H01F 37/00
H02H 9/08
H02J 3/18
H02M 1/00
- (11) EP3764376
(21) EP19185742.4
(22) 11.07.2019
- (54) COMPENSATION DEVICE FOR POWER SUPPLY NETWORKS
- (73) Siemens Energy Global GmbH & Co. KG
(72) KULKARNI, Shashank
LABINSKY, Robert
AMBEKAR, Sarvesh
- (74) dr. R.C. van Duijvenbode c.s.
(47) 30.08.2023
- (51) H01L 25/075
H01L 33/62
H01L 33/54
H01L 33/00
- (11) EP3826065
(21) EP19836967.0
- (22) 13.05.2019
- (54) DISPLAY DEVICE AND METHOD FOR MANUFACTURING DISPLAY DEVICE
- (73) Samsung Display Co., Ltd.
(72) CHANG, Chongsup
KIM, Hyunae
HEO, Eui Kang
- (74) ir. H.A. Witmans c.s.
(31) 20180083236
(32) 18.07.2018
(33) Korea (Republic)
(47) 23.08.2023
- (51) H01M 4/131
H01M 4/36
H01M 10/0525
H01M 10/0565
H01M 10/0569
- (11) EP3439096
(21) EP16897207.3
(22) 14.11.2016
- (54) COMPOSITE ELECTROLYTE FOR SECONDARY BATTERY, HAVING MULTI-LAYER STRUCTURE
- (73) Seven King Energy Co., Ltd.
(72) KIM, Jae-Kwang
(74) ir. H.A. Witmans c.s.
(31) 20160036894
(32) 28.03.2016
(33) Korea (Republic)
(47) 11.10.2023
- (51) H01M 4/36
H01M 4/525
H01M 4/505
H01M 10/052
C01G 53/00
H01M 4/131
H01M 4/1391
H01M 10/0525
H01M 4/02
- (11) EP3712990
(21) EP19747241.8
(22) 01.02.2019
- (54) CATHODE ACTIVE MATERIAL FOR SECONDARY BATTERY, PREPARATION METHOD THEREFOR, AND LITHIUM SECONDARY BATTERY COMPRISING SAME
- (73) LG Energy Solution, Ltd.
(72) PARK, Sung Bin
PARK, Young Uk
KIM, Dong Hwi
LEE, Dong Hun
YOO, Tae Gu
JUNG, Wang Mo
- (74) dr. ir. F.M. van Bouwelen
(31) 20180013114
(32) 01.02.2018
(33) Korea (Republic)
(47) 25.10.2023
- (51) H01M 4/92
H01M 8/10
H01M 4/88
C09C 1/56
C09C 3/10
- (11) EP3536664
(21) EP17887671.0
(22) 22.12.2017
- (54) METHOD FOR MANUFACTURING ELECTRODE, ELECTRODE MANUFACTURED THEREBY, MEMBRANE-ELECTRODE ASSEMBLY COMPRISING SAME ELECTRODE, AND FUEL CELL INCLUDING SAME MEMBRANE-ELECTRODE ASSEMBLY
- (73) Kolon Industries, Inc.
(72) KIM, Hyeong-su
KIM, Jung-Ho
(74) dr. R.C. van Duijvenbode c.s.
(31) 20170000025
20160181590
(32) 02.01.2017
28.12.2016
(33) Korea (Republic)
Korea (Republic)
(47) 01.11.2023
- (51) H01M 8/04007
H01M 8/04089
H01M 8/2432
H01M 8/2457
H01M 8/2475
F28D 21/00
H01M 8/12
- (11) EP3811447
(21) EP19824836.1
(22) 25.06.2019
- (54) ELECTROCHEMICAL ASSEMBLY INCLUDING HEAT EXCHANGER
- (73) Saint-Gobain Ceramics&Plastics, Inc.
Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
- (72) FELDMAN, Brian, P.
PIETRAS, John, D.
TAKAGI, Yuto
KUSNEZOFF, Mihails
MEGEL, Stefan
SCHNETTER, Jens
- (74) ir. W.J.J.M. Kempes
(31) 201862689335 P
(32) 25.06.2018
(33) United States of America
(47) 20.09.2023
- (51) H01M 50/204
(11) EP3544079
(21) EP17870830.1
(22) 07.11.2017
- (54) POWER BATTERY BASE CARRIER AND POWER BATTERY MODULE
- (73) BYD Company Limited
(72) ZHU, Yan
ZHENG, Weixin
ZHU, Jianhua
ZENG, Yi
- (74) ir. W.J.J.M. Kempes
(31) 201611014965
(32) 18.11.2016
(33) China
(47) 25.10.2023
- (51) H01Q 1/24
H01Q 1/36
H01Q 9/42
H01Q 1/44
H04M 1/02
- (11) EP3483982
(21) EP18205238.1
(22) 08.11.2018

(54) MIDDLE FRAME ASSEMBLY AND ELECTRONIC DEVICE	(47) 06.09.2023	(31) 2015052304
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(51) H02J 7/00	(32) 16.03.2015
(72) Yang, Jing	H02H 5/04	(33) Japan
CHEN, Qianqiang	H02H 9/04	(47) 18.10.2023
ZENG, Yongdong	H02H 7/18	(51) H02K 3/50
TAN, Wei	(11) EP3920362	H02K 1/14
(74) ir. W.J.J.M. Kempes	(21) EP20749257.0	H02K 7/18
(31) 201711105665	(22) 14.01.2020	(11) EP3868000
(32) 10.11.2017	(54) CHARGING CIRCUIT AND ELECTRONIC DEVICE	(21) EP19746036.3
(33) China	(73) VIVO MOBILE COMMUNICATION CO., LTD.	(22) 17.07.2019
(47) 01.11.2023	(72) Li, Zhendong	(54) STATOR FOR AN ELECTRICAL MACHINE, WIND TURBINE AND METHOD FOR MANUFACTURING A STATOR
(51) H01Q 21/06	(74) J.M.H. Duyver lic.	(73) Siemens Gamesa Renewable Energy A/S
H01Q 1/38	(31) 201910098936	(72) JENSEN, Simon Vyff
H01Q 1/22	(32) 31.01.2019	THOMSEN, Thyge Skovbjerg
H01Q 15/08	(33) China	(74) ir. W.J.J.M. Kempes
H01Q 19/06	(47) 25.10.2023	(31) 18208952
(11) EP2754205	(51) H02J 50/00	(32) 28.11.2018
(21) EP11871913.7	H01F 38/14	(33) European Patent Office (EPO)
(22) 08.09.2011	H02J 7/02	(47) 06.09.2023
(54) OVERLAPPED AND STAGGERED ANTENNA ARRAYS	(11) EP3316448	(51) H02M 1/32
(73) Intel Corporation	(21) EP16814764.3	H02H 9/08
(72) REFAELI, Itsik	(22) 27.06.2016	H02J 3/36
SOVER, Ra'anana	(54) WIRELESS POWER RECEPTION APPARATUS	H02M 7/483
(74) ir. W.J.J.M. Kempes	(73) Scramoge Technology Limited	H02H 7/122
(47) 04.10.2023	(72) SONG, Ji Yeon	H02M 7/757
(51) H01R 13/62	LEE, Sang Won	(11) EP3639353
H01R 13/639	KIM, So Yeon	(21) EP17749161.0
H01R 12/72	BAE, Seok	(22) 28.07.2017
H01R 12/85	YEOM, Jai Hoon	(54) IMPEDANCE FOR AC FAULT CURRENT HANDLING FOR HVDC CONVERTER
(11) EP3394934	(74) ir. W.J.J.M. Kempes	(73) Siemens Energy Global GmbH & Co. KG
(21) EP16879740.5	(31) 20150090740	(72) BALKENOHL, Michael
(22) 22.11.2016	(32) 25.06.2015	BURKHARDT, Matthias
(54) UNIVERSAL LINEAR EDGE CONNECTOR	(33) Korea (Republic)	PRIETO GOMEZ, Juan Fernando
(73) Intel Corporation	(47) 30.08.2023	(74) dr. R.C. van Duijvenbode c.s.
(72) LIU, Kuang	(51) H02K 1/14	(47) 30.08.2023
MOHAMMAD, Feroz	H02K 15/02	(51) H02M 1/32
XIE, Hong	(11) EP3642937	H02M 1/36
MURTAGIAN, Gregorio	(21) EP18727187.9	H02M 7/487
TRAN, Donald T.	(22) 14.05.2018	H02M 7/483
NEKKANTY, Srikant	(54) SEGMENTED STATOR FOR A DIRECT DRIVE ELECTRICAL GENERATOR	(11) EP3958452
CHAWLA, Gaurav	(73) Siemens Gamesa Renewable Energy A/S	(21) EP21192336.2
MEYYAPPAN, Karumbu	(72) THOMAS, Arwyn	(22) 20.08.2021
AOKI, Russell S.	AZAR, Ziad	(54) NEUTRAL-POINT-CLAMPED THREE-LEVEL CIRCUIT AND CONTROL METHOD
(74) ir. W.J.J.M. Kempes	(74) ir. W.J.J.M. Kempes	(73) Delta Electronics (Shanghai) Co., Ltd.
(31) 201514757626	(31) 102017212250	(72) ZHU, Xuancai
(32) 23.12.2015	(32) 18.07.2017	XU, Feidong
(33) United States of America	(33) Germany	ZHENG, Weiyi
(47) 20.09.2023	(47) 13.09.2023	WEI, Qikang
(51) H02J 3/38	(51) H02K 1/27	(74) ir. W.J.J.M. Kempes
(11) EP3629439	H02K 21/14	(31) 202010848293
(21) EP18838910.0	H02K 29/03	(32) 21.08.2020
(22) 24.07.2018	H02K 1/24	(33) China
(54) METHOD FOR CONTROLLING PHOTOVOLTAIC POWER GENERATION, AND PHOTOVOLTAIC POWER GENERATION SYSTEM	(11) EP3273573	(47) 25.10.2023
(73) Huawei Digital Power Technologies Co., Ltd.	(21) EP16764775.9	(51) H03M 13/11
(72) GU, Guilei	(22) 08.03.2016	H04L 1/00
GAO, Yongbing	(54) ROTOR FOR ROTATING ELECTRICAL MACHINE	(11) EP4050804
(74) ir. W.J.J.M. Kempes	(73) KABUSHIKI KAISHA TOYOTA	(21) EP22168348.5
(31) 201710633242	JIDOSHOKKI	(22) 22.06.2018
(32) 28.07.2017	(72) TOIDA, Naotaka	(54) METHOD AND APPARATUS FOR CHANNEL ENCODING AND
(33) China	KUSADOME, Taizo	
	SHIMOGAWA, Motoki	
	(74) J.M.H. Duyver lic.	

DECODING IN COMMUNICATION OR BROADCASTING SYSTEM	(72) LIU, Xing	BEALE, Martin Warwick
(73) Samsung Electronics Co., Ltd.	GAO, Bo	(74) ir. W.J.J.M. Kempes
(72) MYUNG, Seho	HAO, Peng	(31) 16154582
KIM, Kyungjoong	ZHANG, Junfeng	(32) 05.02.2016
AHN, Seokki	BI, Feng	(33) European Patent Office (EPO)
JEONG, Hongsil	(74) ir. A.R. Aalbers	(47) 11.10.2023
JANG, Min	(31) 201610669806	(51) H04L 5/00
(74) dr. R.C. van Duijvenbode c.s.	(32) 12.08.2016	(11) EP3437239
(31) 20170151743	(33) China	(21) EP17718186.4
20170080773	(47) 01.11.2023	(22) 30.03.2017
20170079497	(51) H04B 7/06	(54) METHOD OF TRANSMISSION OF CSI-RS AND BASE STATION
(32) 14.11.2017	H04W 16/00	(73) NTT DOCOMO, INC.
26.06.2017	H04L 5/00	(72) KAKISHIMA, Yuichi
23.06.2017	H04W 74/08	NAGATA, Satoshi
(33) Korea (Republic)	(11) EP3652975	NA, Chongning
Korea (Republic)	(21) EP18733048.5	(74) dr. ir. F.M. van Bouwelen
Korea (Republic)	(22) 25.05.2018	(31) 201662316261 P
(47) 04.10.2023	(54) RESOURCE PARTITIONING IN A WIRELESS BACKHAUL NETWORK	(32) 31.03.2016
(51) H03M 13/27	(73) Qualcomm Incorporated	(33) United States of America
H04L 1/00	(72) LI, Junyi	(47) 25.10.2023
(11) EP3761513	ABEDINI, Navid	(51) H04L 5/00
(21) EP20192403.2	SUBRAMANIAN, Sundar	(11) EP3566363
(22) 05.06.2007	HAMPEL, Karl Georg	(21) EP17818099.8
(54) TRANSMITTER WITH AN INTERLEAVER DEVICE AND RECEIVER FOR A SIGNAL GENERATED BY THE TRANSMITTER	CEZANNE, Juergen	(22) 13.12.2017
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	ISLAM, Muhammad Nazmul	(54) FLEXIBLE INDICATION OF TRANSMISSION TIMING
(72) Eberlein, Ernst	(74) dr. R.C. van Duijvenbode c.s.	(73) Nokia Technologies Oy
Breiling, Marco	(31) 201815988844	(72) TIROLA, Esa Tapani
Keip, Cedric	201762530623 P	YE, Sigen
Stadali, Holger	(32) 24.05.2018	PEDERSEN, Klaus Ingemann
Heuberger, Albert	10.07.2017	BRAUN, Volker
(74) ir. F.A. Geurts c.s.	(33) United States of America	PIRSKANEN, Juho Mikko Oskari
(31) 102006026895	United States of America	(74) ir. W.J.J.M. Kempes
(32) 09.06.2006	(47) 25.10.2023	(31) 201762444089 P
(33) Germany	(51) H04B 15/04	(32) 09.01.2017
(47) 16.08.2023	(11) EP3342069	(33) United States of America
(51) H04B 7/04	(21) EP16754020.2	(47) 18.10.2023
H04L 27/36	(22) 25.07.2016	(51) H04L 5/00
H03F 3/195	(54) SHIELDING VIA DISPLAY CHASSIS	(11) EP3738256
H04B 1/04	(73) Microsoft Technology Licensing, LLC	(21) EP19701278.4
H04B 7/0413	(72) HUSTON, David J.	(22) 11.01.2019
H03F 1/32	BUXTON, Bert B.	(54) CONFIGURATION OF PERIODIC SIGNALS IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM
H03F 3/24	BONICATTO, James M.	(73) Telefonaktiebolaget LM Ericsson (publ)
H03F 3/68	(74) dr. R.C. van Duijvenbode c.s.	(72) FALAHATI, Sorour
(11) EP3791481	(31) 201514835450	OVESJÖ, Fredrik
(21) EP18938513.1	(32) 25.08.2015	BALDEMAIR, Robert
(22) 31.10.2018	(33) United States of America	(74) ir. A. Blokland c.s.
(54) SYSTEM AND METHOD FOR ADAPTIVE FILTERING	(47) 18.10.2023	(31) 201862616793 P
(73) Telefonaktiebolaget LM Ericsson (publ)	(51) H04L 1/1829	(32) 12.01.2018
(72) CAO, Haiying	(11) EP3641179	(33) United States of America
GAO, Hao	(21) EP17913507.4	(47) 25.10.2023
LIU, Sheng	(22) 16.06.2017	(51) H04L 5/00
(74) ir. A. Blokland c.s.	(54) HARQ FEEDBACK METHOD AND DEVICE, USER EQUIPMENT, AND BASE STATION	(11) EP3740011
(47) 04.10.2023	(73) Beijing Xiaomi Mobile Software Co., Ltd.	(21) EP18899523.7
(51) H04B 7/06	(72) ZHOU, Juejia	(22) 20.11.2018
H04L 5/00	(74) J.M.H. Duyver lic.	(54) METHOD AND DEVICE FOR RECEIVING AND SENDING REFERENCE SIGNAL, AND COMPUTER-READABLE STORAGE MEDIUM
(11) EP3500004	(47) 25.10.2023	(73) ZTE Corporation
(21) EP17838384.0	(51) H04L 5/00	(72) JIANG, Chuangxin
(22) 03.05.2017	(11) EP3400672	WANG, Yuxin
(54) INFORMATION TRANSMISSION METHOD AND DEVICE BASED ON SWEEPING BLOCK	(21) EP17702411.4	LI, YuNgok
(73) ZTE Corporation	(22) 03.02.2017	LU, Zhaohua
	(54) COMMUNICATIONS DEVICES, INFRASTRUCTURE EQUIPMENT AND METHODS	
	(73) Sony Group Corporation	
	(72) WONG, Shin Horn	

ZHANG, Shujuan	202117508614	(47) 04.10.2023
(74) ir. A. Blokland c.s.	202117508596	(51) H04L 49/00
(31) 201810032694	202117235544	(11) EP3704602
(32) 12.01.2018	(32) 05.04.2022	(21) EP17929786.6
(33) China	15.03.2022	(22) 24.10.2017
(47) 25.10.2023	22.10.2021	(54) HARDWARE ASSISTED VIRTUAL SWITCH
(51) H04L 5/00	22.10.2021	(73) INTEL Corporation
H04L 1/1829	20.04.2021	(72) DALY, Daniel, P
H04L 1/08	(33) United States of America	ROBERTS, Martin
H04W 72/04	United States of America	WANG, Jian
H04W 72/044	United States of America	ROGERS, Gerald, Alan
(11) EP3726768	United States of America	CHIEN, Shih-Wei
(21) EP20166275.6	United States of America	LIANG, Cunming
(22) 27.03.2020	(47) 30.08.2023	(74) ir. W.J.J.M. Kempes
(54) METHOD AND APPARATUS FOR TRANSMITTING DATA	(51) H04L 45/00	(47) 06.09.2023
(73) Samsung Electronics Co., Ltd.	H04L 51/00	(51) H04L 65/61
(72) Sun, Feifei	H04L 9/08	H04L 65/60
Yi, Wang	H04W 84/18	H04L 65/80
Fu, Jingxing	H04L 67/12	H04W 4/80
(74) dr. R.C. van Duijvenbode c.s.	H04L 9/32	H04W 8/24
(31) 201911084069	H04L 9/40	H04W 24/02
201910252095	H04L 69/165	H04W 88/08
(32) 07.11.2019	H04L 67/00	H04L 65/65
29.03.2019	H04W 12/069	H04L 65/75
(33) China	H04W 24/04	H04W 4/18
China	H04W 24/10	H04W 4/02
(47) 08.11.2023	H04W 52/02	H04W 84/12
(51) H04L 9/06	H04W 76/10	H04W 84/18
H04L 9/08	H04W 76/14	(11) EP3474577
G06F 9/30	(11) EP3905600	(21) EP17306442.9
G06F 9/38	(21) EP21180151.9	(22) 20.10.2017
(11) EP3737031	(22) 23.06.2014	(54) BLUETOOTH DEVICE, METHOD AND COMPUTER PROGRAM FOR CONTROLLING A PLURALITY OF WIRELESS AUDIO DEVICES WITH A BLUETOOTH DEVICE
(21) EP20176663.1	(54) EFFICIENT COMMUNICATION FOR DEVICES OF A HOME NETWORK	(73) Google LLC
(22) 25.03.2008	(73) Google LLC	(72) GIRARDIER, Thomas
(54) FLEXIBLE ARCHITECTURE AND INSTRUCTION FOR ADVANCED ENCRYPTION STANDARD (AES)	(72) LOGUE, Jay D.	GOUPY, Julien
(73) INTEL Corporation	HARDISON, Osborne B.	NALLATAMBY, Vincent
(72) FEGHALI, Wajdi K.	NEELEY, Matthew G.	(74) dr. R.C. van Duijvenbode c.s.
GOPAL, Vinodh	BOROSS, Christopher A.	(47) 23.08.2023
DIXON, Martin	SCHULTZ, Richard J.	(51) H04L 67/104
CHENNUPATY, Srinivas	ERICKSON, Grant M.	H04W 76/14
RAGHUNANDAN, Makaram	SMITH, Zachary B.	H04W 8/00
GUERON, Shay	GUJJARU, Sunny P.	H04W 36/00
KOUNAVIS, Michael	(74) dr. R.C. van Duijvenbode c.s.	H04W 84/12
(74) ir. W.J.J.M. Kempes	(31) 201313926335	H04W 80/06
(31) 729199	(32) 25.06.2013	(11) EP3427537
(32) 28.03.2007	(33) United States of America	(21) EP17763727.9
(33) United States of America	(47) 30.08.2023	(22) 17.02.2017
(47) 30.08.2023	(51) H04L 45/48	(54) TRANSITIONING FROM AN INFRASTRUCTURE BASED WIRELESS CONNECTION TO A PEER TO PEER (P2P) WIRELESS CONNECTION
(51) H04L 9/40	H04L 45/00	(73) INTEL Corporation
G06F 21/55	H04L 41/0895	(72) LIN, Xintian E.
(11) EP4080822	H04L 41/0816	HANSEN, Carl C.
(21) EP22169106.6	H04L 43/10	HUANG, Gary C.
(22) 20.04.2022	H04L 101/622	RAJAMANI, Krishnan
(54) METHODS AND SYSTEMS FOR EFFICIENT THREAT CONTEXT-AWARE PACKET FILTERING FOR NETWORK PROTECTION	H04L 41/0806	(74) ir. W.J.J.M. Kempes
(73) Centripetal Limited	(11) EP3777056	(31) 201615067972
(72) MOORE, Sean	(21) EP19849739.8	(32) 11.03.2016
ROGERS, Jonathan R.	(22) 09.08.2019	(33) United States of America
MUTOLO, Vincent	(54) METHOD AND APPARATUS FOR PROVIDING 5G ETHERNET SERVICE	(47) 30.08.2023
GEREMIA, Peter	(73) Samsung Electronics Co., Ltd.	(51) H04L 67/1097
(74) ir. W.J.J.M. Kempes	(72) LEE, Jicheol	H04L 69/321
(31) 202217713827	MOON, Sangjun	
202217695047	BAEK, Youngkyo	
	(74) dr. R.C. van Duijvenbode c.s.	
	(31) 20180094631	
	(32) 13.08.2018	
	(33) Korea (Republic)	

H04L 69/22	(21) EP20193661.4	(22) 10.09.2019
(11) EP3706394	(22) 20.05.2016	(54) VIDEO DECODING METHOD, AND VIDEO DECODER
(21) EP20156095.0	(54) DEVICES, METHODS, AND GRAPHICAL USER INTERFACES FOR PROVIDING AND INTERACTING WITH NOTIFICATIONS	(73) HUAWEI TECHNOLOGIES CO., LTD.
(22) 07.02.2020	(73) Apple Inc.	(72) CHEN, Huanbang
(54) WRITES TO MULTIPLE MEMORY DESTINATIONS	(72) Lee, Woo-Ram	YANG, Haitao
(73) Intel Corporation	Karunamuni, Chanaka G.	(74) ir. W.J.J.M. Kempes
(72) HEFTY, Mark Sean	Yang, Lawrence	(31) 201811053068
DAVIS, Arlin R.	Lemay, Stephen O.	(32) 10.09.2018
(74) ir. W.J.J.M. Kempes	Dascola, Jonathan P.	(33) China
(31) 201916726676	Foss, Christopher Patrick	(47) 01.11.2023
201962813534 P	(74) ir. A. Blokland c.s.	(51) H04N 19/46
(32) 24.12.2019	(31) 201562172186 P	H04N 19/51
04.03.2019	(32) 07.06.2015	H04N 19/513
(33) United States of America	(33) United States of America	H04N 19/463
United States of America	(47) 04.10.2023	H04N 19/91
(47) 06.09.2023	(51) H04N 5/222	(11) EP3809703
(51) H04L 67/141	H04N 25/40	(21) EP20205284.1
H04L 67/5681	(11) EP3707892	(22) 18.06.2009
(11) EP3860093	(21) EP18796483.8	(54) VIDEO ENCODING
(21) EP21153965.5	(22) 09.11.2018	(73) Kabushiki Kaisha Toshiba
(22) 02.12.2016	(54) OBTAINING IMAGE DATA OF AN OBJECT IN A SCENE	(72) ASAKA, Saori
(54) ACCELERATING CONNECTIONS TO A HOST SERVER	(73) Nederlandse Organisatie voor toegepast-natuurwetenschappelijk Onderzoek TNO	CHUJOH, Takeshi
(73) ViaSat Inc.	Koninklijke KPN N.V.	WATANABE, Takashi
(72) LEPESKA, Peter	(72) VAN DER STAP, Nanda	TANIZAWA, Akiyuki
TSILLAS, Demetrios James	GUNKEL, Simon	WADA, Naofumi
(74) dr. W.A.H.M. Van Borm	PRINS, Martin	YASUDA, Goki
(31) 201562263241 P	TER HAAR, Frank	(74) ir. H.A. Witmans c.s.
(32) 04.12.2015	STOKKING, Hans Maarten	(47) 13.09.2023
(33) United States of America	(74) ir. W.J.J.M. Kempes	(51) H04N 19/467
(47) 16.08.2023	(31) 17201151	H04N 19/48
(51) H04M 1/02	(32) 10.11.2017	H04N 19/33
H01Q 1/24	(33) European Patent Office (EPO)	H04N 19/60
H04B 7/06	(47) 16.08.2023	H04N 19/18
(11) EP3993368	(51) H04N 19/117	(11) EP4049452
(21) EP20830933.6	H04N 19/593	(21) EP20800273.3
(22) 11.06.2020	H04N 19/80	(22) 23.10.2020
(54) DISPLAY MODULE AND MOBILE TERMINAL	(11) EP3847815	(54) EMBEDDING DATA WITHIN TRANSFORMED COEFFICIENTS USING BIT PARTITIONING OPERATIONS
(73) VIVO MOBILE COMMUNICATION CO., LTD.	(21) EP19859474.9	(73) V-Nova International Limited
(72) JIAN, Xianjing	(22) 13.09.2019	(72) CICCARELLI, Lorenzo
ZHU, Lijun	(54) METHOD AND APPARATUS FOR PREDICTION	FERRARA, Simone
WANG, Yijin	(73) HUAWEI TECHNOLOGIES CO., LTD.	MEARDI, Guido
(74) J.M.H. Duyver lic.	(72) CHEN, Jianle	(74) J.M.H. Duyver lic.
(31) 201910562658	FILIPPOV, Alexey Konstantinovich	(31) 202001408
(32) 26.06.2019	RUFITSKIY, Vasily Alexeevich	202000430
(33) China	(74) ir. W.J.J.M. Kempes	201915553
(47) 25.10.2023	(31) 201962822868 P	202062984261 P
(51) H04M 1/02	201962822775 P	(32) 31.01.2020
H04M 1/18	201862731970 P	12.01.2020
(11) EP4054158	(32) 23.03.2019	25.10.2019
(21) EP20880429.4	22.03.2019	02.03.2020
(22) 27.10.2020	16.09.2018	(33) United Kingdom
(54) ELECTRONIC DEVICE	(33) United States of America	United Kingdom
(73) Vivo Mobile Communication Co., Ltd.	United States of America	United Kingdom
(72) Li, Jin	United States of America	United States of America
(74) J.M.H. Duyver lic.	(47) 08.11.2023	(47) 13.09.2023
(31) 201911053904	(51) H04N 19/13	(51) H04N 19/51
(32) 31.10.2019	H04N 19/176	H04N 19/105
(33) China	H04N 19/61	H04N 19/107
(47) 25.10.2023	H04N 19/537	H04N 19/56
(51) H04M 1/72403	H04N 19/91	H04N 19/503
H04M 1/67	(11) EP3843398	H04N 19/52
G06F 3/0488	(21) EP19860657.6	(11) EP3629583
H04W 4/14		(21) EP19208547.0
(11) EP3787269		(22) 29.05.2012

(54) VIDEO DECODING METHOD, VIDEO DECODING DEVICE	(22) 27.03.2019	(21) EP20724258.7
(73) Sun Patent Trust	(54) HEARING PROTECTOR WITH SPECTACLES	(22) 09.04.2020
(72) NISHI, Takahiro	(73) Pfanner Schutzbekleidung GmbH	(54) RANGING MEASUREMENTS FOR SPATIALLY-AWARE USER INTERFACE OF A MOBILE DEVICE
TANIKAWA, Kyoko	(72) PFANNER, Anton	(73) Apple Inc.
SUGIO, Toshiyasu	(74) ir. A. Blokland c.s.	(72) WERNER, Benjamin A.
SASAI, Hisao	(31) 102018107957	LEDVINA, Brent M.
SHIBAHARA, Youji	(32) 04.04.2018	MCCRACKEN, Merrick K.
MATSUNOBU, Toru	(33) Germany	(74) ir. A.R. Aalbers
(74) ir. W.J.J.M. Kempes	(47) 16.08.2023	(31) 201916573422
(31) 201161491381 P	(51) H04W 4/40	201962843944 P
(32) 31.05.2011	H04W 8/30	(32) 17.09.2019
(33) United States of America	H04L 1/08	06.05.2019
(47) 25.10.2023	H04W 76/14	(33) United States of America
(51) H04N 21/43	H04W 4/70	United States of America
H04N 21/436	H04W 72/02	(47) 25.10.2023
H04N 21/442	H04W 92/18	(51) H04W 8/24
H04N 21/64	(11) EP4040815	H04W 12/06
(11) EP3357252	(21) EP22165583.0	H04W 60/00
(21) EP16775950.5	(22) 28.03.2019	H04W 8/18
(22) 23.09.2016	(54) ENHANCED QUALITY OF SERVICE FOR V2X	H04W 88/14
(54) TIME-SYNCHRONIZED, MULTIZONE MEDIA STREAMING	(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	(11) EP3794855
(73) Google LLC	(72) Roth-Mandutz, Elke	(21) EP19847633.5
(72) MACLELLAN, Tavis A.	Hassan Hussein, Khaled Shawky	(22) 02.08.2019
LYON, Richard F.	Bhadauria, Shubhangi	(54) DEVICE AND METHOD FOR PROVIDING UE RADIO CAPABILITY TO CORE NETWORK OF MOBILE COMMUNICATION SYSTEM
GETREUER, Pascal T.	Leyh, Martin	(73) Samsung Electronics Co., Ltd.
MACKAY, Kenneth J.	(74) ir. F.A. Geurts c.s.	(72) KIM, Sunghoon
KIM, Byungchul	(31) 18165235	BENNETT, Andrew
SHEKEL, Tomer	(32) 29.03.2018	(74) dr. R.C. van Duijvenbode c.s.
KUNG, Chien-Jung	(33) European Patent Office (EPO)	(31) 20190048730
RIFKIN, Ryan M.	(47) 04.10.2023	20190020755
GNEGJ, Chet N.	(51) H04W 4/40	20180135192
(74) dr. R.C. van Duijvenbode c.s.	H04W 72/04	20180093843
(31) 201562233972 P	H04W 4/30	(32) 25.04.2019
(32) 28.09.2015	H04W 4/00	21.02.2019
(33) United States of America	H04W 28/04	06.11.2018
(47) 06.09.2023	(11) EP3741092	10.08.2018
(51) H04N 21/81	(21) EP18935023.4	(33) Korea (Republic)
A61B 5/378	(22) 28.09.2018	Korea (Republic)
G16H 50/30	(54) CONTROL CHANNEL STRUCTURE DESIGN TO SUPPORT V2X TRAFFIC	Korea (Republic)
G16H 50/20	(73) Nokia Technologies Oy	Korea (Republic)
G16H 40/63	(72) LI, Dong	(47) 25.10.2023
G06T 5/00	WILDSCHEK, Torsten	(51) H04W 8/26
G06F 1/16	LIU, Yong	H04J 11/00
A61B 5/00	(74) ir. W.J.J.M. Kempes	H04W 24/02
G06F 3/01	(47) 13.09.2023	H04W 92/20
A61N 1/05	(51) H04W 4/80	(11) EP3860179
A61M 21/00	(11) EP4024917	(21) EP19867726.2
(11) EP3520428	(21) EP20860850.5	(22) 26.09.2019
(21) EP17856983.6	(22) 04.09.2020	(54) INTERFERENCE CONTROL METHOD AND APPARATUS, RESPONSE MESSAGE SENDING METHOD AND APPARATUS, RESPONSE MESSAGE FORWARDING METHOD AND APPARATUS, COMMUNICATION DEVICE, AND COMMUNICATION SYSTEM
(22) 10.08.2017	(54) BLUETOOTH CONNECTION METHOD AND ELECTRONIC DEVICE	(73) ZTE Corporation
(54) METHODS AND APPARATUS FOR IDENTIFYING POTENTIALLY SEIZURE-INDUCING VIRTUAL REALITY CONTENT	(73) Huawei Technologies Co., Ltd.	(72) GAO, Yin
(73) Intel Corporation	(72) LU, Junfeng	LIU, Yang
(72) RAMAPRAKASH, Nishanth	ZHU, Yuhong	LI, Dapeng
RAO, Sreenidhi Koti Ananda	ZHANG, Jingjing	(74) ir. A. Blokland c.s.
(74) ir. W.J.J.M. Kempes	NI, Guanjun	(31) 201811126942
(31) 201615279820	(74) ir. W.J.J.M. Kempes	(32) 26.09.2018
(32) 29.09.2016	(31) 201910844436	
(33) United States of America	(32) 06.09.2019	
(47) 06.09.2023	(33) China	
(51) H04R 1/10	(47) 08.11.2023	
A61F 11/14	(51) H04W 4/80	
(11) EP3777228	H04W 12/00	
(21) EP19715033.7	(11) EP3949464	

(33) China	H04W 16/14	(73) Orange
(47) 25.10.2023	H04W 16/32	(72) DAOUD TRIKI, Khadija
(51) H04W 16/28	H04W 88/10	MOUQUET, Antoine
H04W 68/00	H04W 92/20	(74) ir. W.J.J.M. Kempes
H04W 72/04	(11) EP3691329	(31) 1357002
H04B 7/00	(21) EP18861739.3	(32) 16.07.2013
(11) EP3496444	(22) 12.09.2018	(33) France
(21) EP17837048.2	(54) BASE STATION AND MEASUREMENT	(47) 30.08.2023
(22) 03.08.2017	CAPABILITY DETERMINATION	(51) H04W 52/02
(54) USER TERMINAL, WIRELESS	METHOD	H04W 68/00
BASE STATION, AND WIRELESS	(73) NTT DOCOMO, INC.	(11) EP3834501
COMMUNICATION METHOD	(72) KAI, Kenji	(21) EP19779144.5
(73) NTT DOCOMO, INC.	MATSUKAWA, Ryusuke	(22) 12.08.2019
(72) TAKEDA, Kazuki	MIN, Tianyang	(54) WAKE-UP SIGNAL CONFIGURATION
TAKEDA, Kazuaki	TAKAHASHI, Hideaki	(73) TELEFONAKTIEBOLAGET LM
KAKISHIMA, Yuichi	HAPSARI, Wuri Andarmawanti	ERICSSON (PUBL)
NAGATA, Satoshi	(74) dr. ir. F.M. van Bouwelen	(72) ÅSTRÖM, Magnus
HARADA, Hiroki	(31) 2017187255	HÖGLUND, Andreas
(74) dr. ir. F.M. van Bouwelen	(32) 27.09.2017	WALLÉN, Anders
(31) 2016154017	(33) Japan	(74) ir. A. Blokland c.s.
(32) 04.08.2016	(47) 25.10.2023	(31) 201862717516 P
(33) Japan	(51) H04W 36/00	(32) 10.08.2018
(47) 25.10.2023	H04W 36/14	(33) United States of America
(51) H04W 24/08	(11) EP3823332	(47) 04.10.2023
H04W 48/16	(21) EP20760150.1	(51) H04W 52/02
H04W 74/08	(22) 18.02.2020	H04W 76/27
H04W 16/14	(54) COMMUNICATION METHOD AND	H04L 5/00
H04L 5/00	APPARATUS	H04L 1/00
(11) EP3818768	(73) HUAWEI TECHNOLOGIES CO., LTD.	(11) EP3836637
(21) EP19848297.8	(72) ZHU, fangyuan	(21) EP19847267.2
(22) 08.08.2019	LI, Yan	(22) 12.08.2019
(54) METHOD AND USER EQUIPMENT	NI, Hui	(54) STATE DETERMINING AND STATE
FOR PERFORMING RANDOM	(74) ir. W.J.J.M. Kempes	INDICATION IN A WIRELESS
ACCESS CHANNEL PROCEDURE FOR	(31) 201910244735	NETWORK
UNLICENSED OPERATION	201910123356	(73) ZTE Corporation
(73) Samsung Electronics Co., Ltd.	(32) 28.03.2019	(72) HAN, Xianghui
(72) SINGH, Abhishek Kumar	18.02.2019	HAO, Peng
AGIWAL, Anil	(33) China	ZHANG, Chenchen
DEOGUN, Pravjyot Singh	China	LIANG, Yachao
NIGAM, Anshuman	(47) 27.09.2023	HE, Haigang
(74) dr. R.C. van Duijvenbode c.s.	(51) H04W 36/02	LIU, Xing
(31) 201841029871	H04W 80/02	(74) ir. A.R. Aalbers
201841029871	H04W 36/00	(31) 201810911007
(32) 06.08.2019	H04L 47/34	(32) 10.08.2018
08.08.2018	(11) EP3684105	(33) China
(33) India	(21) EP18877976.3	(47) 01.11.2023
India	(22) 28.10.2018	(51) H04W 64/00
(47) 04.10.2023	(54) DATA PROCESSING METHOD AND	(11) EP3585113
(51) H04W 24/10	DEVICE, AND COMPUTER STORAGE	(21) EP19181292.4
H04B 17/327	MEDIUM	(22) 19.06.2019
H04B 17/336	(73) Huawei Technologies Co., Ltd.	(54) COMMUNICATION SYSTEM AND HEAD
H04B 17/382	(72) YAO, Chuting	MOUNTED DISPLAY
(11) EP3860197	XU, Haibo	(73) HTC Corporation
(21) EP19864056.7	LI, Bingzhao	(72) Wu, Chun-Yih
(22) 22.08.2019	CAO, Zhenzhen	Kuo, Yen-Liang
(54) CSI REPORT REPORTING METHOD,	WANG, Jian	(74) dr. R.C. van Duijvenbode c.s.
TERMINAL DEVICE AND NETWORK	(74) ir. W.J.J.M. Kempes	(31) 201862686692 P
DEVICE	(31) 201711140791	(32) 19.06.2018
(73) VIVO MOBILE COMMUNICATION CO.,	(32) 16.11.2017	(33) United States of America
LTD.	(33) China	(47) 27.09.2023
(72) SONG, Yang	(47) 06.09.2023	(51) H04W 72/04
SUN, Peng	(51) H04W 48/18	H04L 5/00
(74) J.M.H. Duyver lic.	(11) EP4007375	(11) EP3413654
(31) 201811126469	(21) EP21217375.1	(21) EP17747022.6
(32) 26.09.2018	(22) 15.07.2014	(22) 06.02.2017
(33) China	(54) SELECTION OF AN ACCESS	(54) METHOD AND DEVICE FOR
(47) 18.10.2023	NETWORK CONDITIONED BY	TRANSMITTING INFORMATION
(51) H04W 36/00	CELLULAR ACCESS TECHNOLOGY	(73) ZTE Corporation

(72) FANG, Huiying DAI, Bo XIA, Shuqiang ZHANG, Wen	(32) 10.07.2015 (33) United Kingdom (47) 06.09.2023	(51) H04W 88/08 H04J 3/14 (11) EP3552355 (21) EP17822559.5 (22) 01.12.2017 (54) METHOD AND APPARATUS FOR LATENCY MONITORING
(74) ir. A.R. Aalbers (31) 201610089499 201610082888	(51) H04W 74/08 (11) EP3911103 (21) EP19938222.7 (22) 19.07.2019	(54) METHOD AND APPARATUS FOR LATENCY MONITORING
(32) 17.02.2016 05.02.2016	(54) WIRELESS COMMUNICATION METHOD, TERMINAL DEVICE, AND NETWORK DEVICE	(73) Telefonaktiebolaget LM Ericsson (publ) (72) RUFFINI, Stefano STRACCA, Stefano
(33) China China	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(74) dr. R.C. van Duijvenbode c.s. (31) 201662430607 P (32) 06.12.2016 (33) United States of America (47) 01.11.2023
(47) 01.11.2023	(72) SHI, Cong (74) ir. W.J.J.M. Kempes (47) 11.10.2023	(31) 201662430607 P (32) 06.12.2016 (33) United States of America (47) 01.11.2023
(51) H04W 72/04 H04L 5/00 H04W 72/542	(51) H04W 74/08 H04W 74/00 (11) EP3876656 (21) EP19939114.5 (22) 31.07.2019	(51) H10K 59/70 G09F 9/35 H01L 25/075 H01L 25/16 G09F 9/33 G09G 3/3208 G09G 3/32 G09G 3/3233 H10K 59/121
(11) EP3836669 (21) EP18929761.7 (22) 10.08.2018	(54) INFORMATION TRANSMISSION METHOD AND ELECTRONIC APPARATUS	(11) EP3905226 (21) EP18944800.4 (22) 28.12.2018 (54) DISPLAY
(54) METHOD AND APPARATUS FOR SENDING INFORMATION	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(73) Honor Device Co., Ltd. (72) JIA, Yanfeng (74) ir. W.J.J.M. Kempes (47) 18.10.2023
(73) Beijing Xiaomi Mobile Software Co., Ltd. (72) ZHOU, Juejia (74) J.M.H. Duyver lic. (47) 18.10.2023	(72) WU, Zuomin (74) ir. W.J.J.M. Kempes (47) 11.10.2023	(73) Honor Device Co., Ltd. (72) JIA, Yanfeng (74) ir. W.J.J.M. Kempes (47) 18.10.2023
(51) H04W 72/12 H04W 88/06	(51) H04W 76/10 H04W 48/12 H04L 41/0806	(51) H10K 85/60 C09K 11/06 H10K 50/11 H10K 50/16
(11) EP3796748 (21) EP18924191.2 (22) 29.06.2018	(11) EP3844997 (21) EP18762518.1 (22) 31.08.2018	(11) EP3309235 (21) EP16807721.2 (22) 27.05.2016
(54) METHOD FOR PERFORMING COMMUNICATION SERVICE BY USING MULTIPLE MODEMS	(54) TECHNIQUE FOR TIME-SENSITIVE NETWORKING OVER A RADIO ACCESS NETWORK	(54) ORGANIC LIGHT EMITTING ELEMENT HAVING HIGH EFFICIENCY
(73) HUAWEI TECHNOLOGIES CO., LTD. (72) LI, Jifeng (74) ir. W.J.J.M. Kempes (47) 08.11.2023	(73) Telefonaktiebolaget LM Ericsson (publ) (72) MUNZ, Hubertus DUDDA, Torsten PATEL, Dhruvin	(73) SFC Co., Ltd. (72) PARK, Young-Hwan KIM, Si-In YOON, Seo-Yeon CHA, Soon-Wook CHOI, Sung-Keun
(51) H04W 72/21 H04W 74/08	(74) ir. A. Blokland c.s. (47) 25.10.2023	(74) dr. R.C. van Duijvenbode c.s. (31) 20150083304 (32) 12.06.2015 (33) Korea (Republic) (47) 18.10.2023
(11) EP3416446 (21) EP18178094.1 (22) 15.06.2018	(51) H04W 76/25 H04W 76/27 (11) EP3485695 (21) EP17839843.4 (22) 10.08.2017	(31) 20150083304 (32) 12.06.2015 (33) Korea (Republic) (47) 18.10.2023
(54) DEVICE AND METHOD OF HANDLING A SCHEDULING REQUEST	(54) CONTROLLING A USER EQUIPMENT	
(73) HTC Corporation (72) WU, Chih-Hsiang (74) dr. R.C. van Duijvenbode c.s. (31) 201816006798 201762519886 P (32) 12.06.2018 15.06.2017	(73) Samsung Electronics Co., Ltd. (72) KE, Xiaowan WANG, Hong XU, Lixiang	
(33) United States of America United States of America (47) 27.09.2023	(74) dr. R.C. van Duijvenbode c.s. (31) 201710301927 201610875897 201610666351 201610666103	
(51) H04W 72/566 H04W 84/12	(32) 02.05.2017 30.09.2016 12.08.2016 12.08.2016	
(11) EP3694286 (21) EP20167344.9 (22) 08.07.2016	(33) China China China China	
(54) TRIGGER FRAMES ADAPTED TO PACKET-BASED POLICIES IN AN 802.11 NETWORK	(47) 04.10.2023	
(73) Canon Kabushiki Kaisha (72) VIGER, Pascal NEZOU, Patrice GUIGNARD, Romain BARON, Stéphane		
(74) J.M.H. Duyver lic. (31) 201512130		

EP4

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

(51) A01G 18/60	A61K 31/4995	Japan
(11) EP3581022	A61K 45/06	Japan
(21) EP19179667.1	A61P 27/02	(47) 04.03.2020
(22) 12.06.2019	A61P 11/02	(51) C07C 273/16
(54) DEVICE FOR DELIVERING AT LEAST A LAYER OF COMPOST AND CASING SOIL TO A SHELVING FOR GROWING MUSHROOMS	A61P 25/02	C01C 1/12
(73) Lemmen, Jacobus Alexander Jozef Van Doremaele, Marcus Gerardus Maria	A61K 9/00	C05C 3/00
(74) ir. M. van der Velden	A61K 9/08	C05C 9/00
(72) Lemmen, Jacobus Alexander Jozef Van Doremaele, Marcus Gerardus Maria	(11) EP3209295	(11) EP2477961
(31) 2021123	(21) EP15852340.7	(21) EP10740669.6
(32) 14.06.2018	(22) 19.10.2015	(22) 10.08.2010
(33) Netherlands	(54) METHODS OF TREATING OCULAR CONDITIONS	(54) REMOVAL OF UREA AND AMMONIA FROM EXHAUST GASES
(47) 25.11.2020	(73) Oyster Point Pharma, Inc.	(73) Stamicarbon B.V.
(51) A24F 47/00	(74) ir. W.J.J.M. Kempes	(72) MEESEN, Jozef Hubert
(11) EP2493341	(72) ACKERMANN, Douglas Michael, Jr.	ORFANIDIS, Pantelis
(21) EP10781821.3	LOUDIN, James	(31) 09170447
(22) 26.10.2010	MANDELL, Kenneth J.	(32) 16.09.2009
(54) A SMOKING SYSTEM HAVING A LIQUID STORAGE PORTION AND IMPROVED AIRFLOW CHARACTERISTICS	(31) 201562100844 P	(33) European Patent Office (EPO)
(73) Philip Morris Products S.A.	201462066280 P	(47) 20.04.2016
(72) THORENS, Michel	(32) 07.01.2015	(51) C08F 210/16
FLICK, Jean-Marc	20.10.2014	C08F 4/659
COCHAND, Olivier, Yves	(33) United States of America	(11) EP3320004
DUBIEF, Flavien	United States of America	(21) EP16739324.8
(31) 09252490	(47) 09.12.2020	(22) 28.06.2016
(32) 27.10.2009	(51) B22F 3/105	(54) ZIEGLER-NATTA-METALLOCENE DUAL CATALYST SYSTEMS WITH ACTIVATOR-SUPPORTS
(33) European Patent Office (EPO)	C22C 1/04	(73) Chevron Phillips Chemical Company LP
(47) 17.07.2013	C22C 9/00	(74) drs. C.M.A. Quintelier
(51) A61F 13/49	B33Y 70/00	(72) DING, Errun
A61F 13/496	B22F 3/24	TSO, Chung, C.
A61F 13/532	C22F 1/08	YU, Youlu
A61F 13/533	C22C 9/06	YANG, Qing
(11) EP3244853	B33Y 80/00	BUCK, Richard, M.
(21) EP16701371.3	B22F 10/20	(31) 201562189770 P
(22) 05.01.2016	(11) EP3315229	(32) 08.07.2015
(54) ABSORBENT PANT WITH ADVANTAGEOUSLY-CHANNELED ABSORBENT CORE STRUCTURE AND BULGE-REDUCING FEATURES	(21) EP17198275.4	(33) United States of America
(73) The Procter & Gamble Company	(22) 25.10.2017	(47) 12.08.2020
(72) NISHIKAWA, Masaharu	(54) USE OF A COPPER ALLOY POWDER, METHOD OF PRODUCING ADDITIVELY-MANUFACTURED ARTICLE, AND ADDITIVELY- MANUFACTURED ARTICLE	
LAVON, Gary Dean	(73) Daihen Corporation	
(31) 201514598783	Osaka Research Institute of Industrial Science and Technology	
(32) 16.01.2015	(74) mr.ir. F.N. Ferro	
(33) United States of America	(72) Tsubota, Ryusuke	
(47) 16.09.2020	Oka, Yohei	
(51) A61K 31/55	Okamoto, Akira	
A61K 31/436	Nakamoto, Takayuki	
A61K 38/13	Sugahara, Takahiro	
A61K 31/439	Shinomiya, Naruaki	
A61K 31/4427	Takemura, Mamoru	
A61K 31/4985	Uchida, Sohei	
A61K 31/4439	(31) 2017193374	
	2017111709	
	2016208895	
	(32) 03.10.2017	
	06.06.2017	
	25.10.2016	
	(33) Japan	

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) A61K 9/19	(11) EP3417905	(72) FISCHER, Oliver
A61K 38/12	(21) EP18182632.2	HOFER, Robert
A61P 31/04	(22) 20.01.2006	HAIDER, Alexander
A61K 9/08	(54) APPLICATOR FOR INSERTING AN	CHRISTANDL, Josef
A61K 38/00	IMPLANT	CHRISTANDL, Dieter
A61K 47/18	(73) Merck Sharp & Dohme B.V.	(74) dr. W.A.H.M. Van Borm
A61K 47/26	(72) Jansen, Willem	(31) 102015122091
C07K 11/02	Tak, Maurice Petrus Wilhelmus	(32) 17.12.2015
A61P 17/00	Vertegaal, Hendricus Johannes	(33) Germany
A61P 31/00	Van Der Graaf, Iris Epkjen Hobo	(47) 18.12.2019
(11) EP2504353	(74) ir. H.A. Witmans c.s.	(51) F41G 3/26
(21) EP10832379.1	(31) 05100418	G09B 9/00
(22) 23.11.2010	(32) 24.01.2005	G09B 9/04
(54) LIPOPEPTIDE COMPOSITIONS AND	(33) European Patent Office (EPO)	(11) EP3397919
RELATED METHODS	(47) 16.09.2020	(21) EP16809886.1
(73) Cubist Pharmaceuticals LLC	(51) C08L 5/16	(22) 16.12.2016
(72) SUN, Sophie	C08B 37/16	(54) TURRET SIMULATION METHOD AND
NAIK, Gaauri	(11) EP3380554	DEVICE
O'CONNOR, Sandra	(21) EP16822270.1	(73) CMI Defence S.A.
(74) ir. H.A. Witmans c.s.	(22) 24.11.2016	(72) CLERMONT, Bernard
(31) 263784 P	(54) CRYSTALLINE FORMS OF PER-	BALTHASART, Pierre
(32) 23.11.2009	CHLORO-GAMMA-CYCLODEXTRINES	BASTIAENS, Patrice
(33) United States of America	(73) Fresenius Kabi iPSUM S.r.l.	(74) ir. W.J.J.M. Kempes
(47) 11.07.2018	(72) LAHIRI, Saswata	(31) 201505852
(51) A61K 9/20	RICCI, Antonio	(32) 30.12.2015
A61K 45/06	REDDY, Shridhar	(33) Belgium
A61K 31/443	KUMAR, Nitin	(47) 16.10.2019
A61K 31/47	ZANON, Jacopo	
(11) EP2914248	SINGH, Govind	
(21) EP13792149.0	SINGH, Madan	
(22) 01.11.2013	CABRI, Walter	
(54) PHARMACEUTICAL COMPOSITIONS	SHELKE, Shivaji Haribhau	
FOR THE TREATMENT OF CFTR	(31) 3842DE2015	
MEDIATED DISEASES	(32) 25.11.2015	
(73) Vertex Pharmaceuticals Incorporated	(33) India	
(72) MOORE, Michael, Douglas	(47) 10.06.2020	
VERWIJS, Marinus, Jacobus	(51) E02F 1/00	
KARKARE, Radhika	E02F 3/88	
(74) dr. R.C. van Duijvenbode c.s.	E02F 5/28	
(31) 201361840668 P	(11) EP2141288	
201361824005 P	(21) EP08159701.5	
201361770668 P	(22) 04.07.2008	
201261728328 P	(54) Method for delivering large quantities of	
201261721622 P	under water soil to a reclamation area	
(32) 28.06.2013	(73) Oldendorff Carriers GmbH & Co. KG	
16.05.2013	Dredging International Asia Pacific Pte.	
28.02.2013	Ltd.	
20.11.2012	(72) Van Wellen, Erik	
02.11.2012	Rosenstock, Mark	
(33) United States of America	(74) dr. ir. G.J.C. Verdijck c.s.	
United States of America	(47) 14.09.2011	
United States of America	(51) F41A 21/32	
United States of America	(11) EP3390953	
United States of America	(21) EP16779134.2	
(47) 05.09.2018	(22) 12.10.2016	
(51) A61M 37/00	(54) FIREARM	
A61M 31/00	(73) Christandl, Dieter	

SPC

Ingeschreven en verleende certificaten.

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

(21) 350111

(22) 28.11.2023

(11) 350111

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

(68) EP2485592

(54) SYNERGISTIC FUNGICIDAL
MIXTURES FOR FUNGAL CONTROL IN
CEREALS

(92) 16560 N 09.08.2023

(94) 1826

(95) Prothioconazole, fenpicoxamide

(93) 2210013 14.04.2021

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) EP3656543

(51) B29C 64/393

A43B 23/02

B29C 70/68

B29C 64/106

(00) 04/23

25.01.2023

(11) EP3936738

(51) F16G 11/02

E01D 22/00

F16G 11/04

E01D 19/16

(00) 07/23

15.02.2023

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) EP1755674

(51) C07K 16/18

(00) 41/15

07.10.2015

(11) EP1879612

(51) A61K 38/08

A61K 39/00

A61K 39/12

(00) 20/21

19.05.2021

(00) 29.11.2023

(00) Positive

(11) EP2298374

(51) A61M 1/10

A61M 1/12

(11) EP3033058

(51) A61F 13/00

A61F 13/02

A61F 13/06

A61F 13/10

A61F 13/14

A61F 13/20

(11) EP3071521

(51) G01N 33/00

G06Q 10/08

C01B 32/50

(00) 08/23

22.02.2023

(00) 30.11.2023

(00) Positive

(11) EP3304628

(51) H01M 8/04089

H01M 8/04119

H01M 8/0432

H01M 8/04791

H01M 8/1018

(11) EP3397919

(51) F41G 3/26

G09B 9/00

G09B 9/04

(00) 35/20

26.08.2020

(00) 29.11.2023

(00) Positive

(11) EP3416736

(51) B01D 53/32

F24C 15/20

(11) EP3475408

(51) C12M 1/04

C12M 1/107

C12M 1/16

C12N 11/14

C12P 5/02

(11) EP3585720

(51) B66F 9/22

F16F 9/512

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

(11) 2034838
(00) 30.11.2023
(51) G06V 10/40
G06V 10/764

(11) EP2477961
(51) C07C 273/16
C01C 1/12
C05C 3/00
C05C 9/00

(11) EP2493341
(51) A24F 47/00

(11) EP3209295
(51) A61K 31/55
A61K 31/436
A61K 38/13
A61K 31/439
A61K 31/4427
A61K 31/4985
A61K 31/4439
A61K 31/4995
A61K 45/06
A61P 27/02
A61P 11/02
A61P 25/02
A61K 9/00
A61K 9/08

(11) EP3244853
(51) A61F 13/49
A61F 13/496
A61F 13/532
A61F 13/533

(11) EP3315229
(51) B22F 3/105
C22C 1/04
C22C 9/00
B33Y 70/00
B22F 3/24
C22F 1/08
C22C 9/06
B33Y 80/00
B22F 10/20

(11) EP3320004
(51) C08F 210/16
C08F 4/659

(11) EP3581022
(51) A01G 18/60

VRV

Verval of nietigverklaring.

Contains data concerning lapse or annulment.

(11) 1024914	(00) NP lapsed	(00) NP lapsed
(00) 01.12.2023	(11) 1043235	(11) 2008644
(00) Patent Expired	(00) 01.05.2023	(00) 01.05.2023
(11) 1025905	(00) NP lapsed	(00) NP lapsed
(00) 01.05.2023	(11) 1043614	(11) 2010555
(00) NP lapsed	(00) 01.05.2023	(00) 01.05.2023
(11) 1026041	(00) NP lapsed	(00) NP lapsed
(00) 01.05.2023	(11) 1043616	(11) 2010641
(00) NP lapsed	(00) 01.05.2023	(00) 01.05.2023
(11) 1028823	(00) NP lapsed	(00) NP lapsed
(00) 01.05.2023	(11) 1043618	(11) 2010650
(00) NP lapsed	(00) 01.05.2023	(00) 01.05.2023
(11) 1028824	(00) NP lapsed	(00) NP lapsed
(00) 01.05.2023	(11) 1043640	(11) 2010675
(00) NP lapsed	(00) 01.05.2023	(00) 01.05.2023
(11) 1028847	(00) NP lapsed	(00) NP lapsed
(00) 01.05.2023	(11) 2000061	(11) 2010676
(00) NP lapsed	(00) 01.05.2023	(00) 01.05.2023
(11) 1033463	(00) NP lapsed	(00) NP lapsed
(00) 01.05.2023	(11) 2001458	(11) 2010680
(00) NP lapsed	(00) 01.05.2023	(00) 01.05.2023
(11) 1033754	(00) NP lapsed	(00) NP lapsed
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(11) 2025393	(11) EP1431322	(11) EP1560704
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(11) 2025394	(11) EP1431641	(11) EP1566996
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(11) 2025400	(11) EP1449897	(11) EP1567092
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(11) EP1755152	(11) EP1860086	(11) EP1874875
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(11) EP2294066	(11) EP2380518	(11) EP2413894
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2296514	(11) EP2380519	(11) EP2413899
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2297089	(11) EP2380526	(11) EP2414369
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2307420	(11) EP2380871	(11) EP2415011
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2307694	(11) EP2381550	(11) EP2415029
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2310002	(11) EP2382852	(11) EP2416708
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023

(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2416795	(11) EP2422340	(11) EP2433938
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2416859	(11) EP2422355	(11) EP2435186
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2416865	(11) EP2422425	(11) EP2437424
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2417052	(11) EP2422480	(11) EP2437689
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2417153	(11) EP2422554	(11) EP2438450
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2417169	(11) EP2424452	(11) EP2444019
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2417206	(11) EP2424520	(11) EP2450869
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2417518	(11) EP2424578	(11) EP2453432
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2418305	(11) EP2424779	(11) EP2457999
(00) 01.05.2023	(00) 01.05.2023	(00) 07.12.2023
(00) EPV lapsed	(00) EPV lapsed	(00) Patent Expired
(11) EP2419104	(11) EP2425267	(11) EP2458652
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2419259	(11) EP2425664	(11) EP2472331
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2419447	(11) EP2425668	(11) EP2480876
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2419478	(11) EP2425780	(11) EP2484204
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2420031	(11) EP2426133	(11) EP2503398
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2420097	(11) EP2426237	(11) EP2508397
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2421380	(11) EP2427275	(11) EP2508592
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2421533	(11) EP2427337	(11) EP2508612
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2421597	(11) EP2427803	(11) EP2515019
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2421635	(11) EP2429302	(11) EP2515622
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2422048	(11) EP2429310	(11) EP2517675
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2422075	(11) EP2430871	(11) EP2517929
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2422127	(11) EP2433010	(11) EP2517930
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023

(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2520265	(11) EP2558636	(11) EP2563536
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2520952	(11) EP2558866	(11) EP2563591
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2521002	(11) EP2559121	(11) EP2563608
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2521003	(11) EP2559167	(11) EP2563690
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2522308	(11) EP2559297	(11) EP2563698
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2522570	(11) EP2559815	(11) EP2563803
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2527668	(11) EP2560472	(11) EP2563824
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2540037	(11) EP2560525	(11) EP2563834
(00) 02.08.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP2553977	(11) EP2560604	(11) EP2563966
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2555553	(11) EP2560658	(11) EP2563967
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2555611	(11) EP2560765	(11) EP2564165
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2555803	(11) EP2560768	(11) EP2564239
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2556063	(11) EP2560849	(11) EP2564529
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2556091	(11) EP2560899	(11) EP2564531
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2556680	(11) EP2561015	(11) EP2565190
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2556704	(11) EP2561077	(11) EP2567199
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2558052	(11) EP2561151	(11) EP2567523
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2558148	(11) EP2561675	(11) EP2569914
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2558231	(11) EP2562155	(11) EP2573176
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2558389	(11) EP2563262	(11) EP2578924
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2558425	(11) EP2563387	(11) EP2578925
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2558511	(11) EP2563506	(11) EP2580337
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023

(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP2580554	(11) EP2656944	(11) EP2694484
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2586605	(11) EP2656987	(11) EP2694640
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2588247	(11) EP2657008	(11) EP2694752
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2589709	(11) EP2657127	(11) EP2694928
(00) 02.08.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP2591480	(11) EP2657873	(11) EP2694960
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2593150	(11) EP2657943	(11) EP2694993
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2594780	(11) EP2658242	(11) EP2695264
(00) 02.08.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP2604502	(11) EP2658282	(11) EP2695902
(00) 02.08.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2604517	(11) EP2663076	(11) EP2696690
(00) 02.08.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP2618517	(11) EP2664434	(11) EP2696727
(00) 02.08.2023	(00) 01.05.2023	(00) 01.05.2023
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(11) EP2634692	(11) EP2668229	(11) EP2696878
(00) 01.05.2023	(00) 22.09.2023	(00) 01.05.2023
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(11) EP2642967	(11) EP2669549	(11) EP2697176
(00) 02.08.2023	(00) 01.05.2023	(00) 01.05.2023
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(11) EP2647387	(11) EP2671505	(11) EP2697207
(00) 01.05.2023	(00) 02.08.2023	(00) 01.05.2023
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(11) EP2647606	(11) EP2674474	(11) EP2697244
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2648018	(11) EP2682123	(11) EP2697290
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2648395	(11) EP2683926	(11) EP2697341
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2650602	(11) EP2687107	(11) EP2697344
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2653044	(11) EP2687212	(11) EP2697410
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2653056	(11) EP2687250	(11) EP2697470
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2653761	(11) EP2692737	(11) EP2697478
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2653879	(11) EP2693874	(11) EP2698027
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2654032	(11) EP2693911	(11) EP2698381
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023

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(11) EP2699194	(11) EP2703907	(11) EP2718540
(00) 01.05.2023	(00) 02.08.2023	(00) 01.05.2023
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(11) EP2699203	(11) EP2704825	(11) EP2729664
(00) 01.05.2023	(00) 02.08.2023	(00) 02.08.2023
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(11) EP2699340	(11) EP2705014	(11) EP2732099
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
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(11) EP2699590	(11) EP2705134	(11) EP2743963
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2699598	(11) EP2705174	(11) EP2745129
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2699612	(11) EP2705722	(11) EP2747165
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023
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(11) EP2699613	(11) EP2706071	(11) EP2747331
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2699619	(11) EP2706072	(11) EP2748924
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2699620	(11) EP2706680	(11) EP2749159
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2699919	(11) EP2707132	(11) EP2749362
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2700113	(11) EP2707439	(11) EP2749710
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2700196	(11) EP2707690	(11) EP2757473
(00) 01.05.2023	(00) 02.08.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2700863	(11) EP2708584	(11) EP2759340
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2701322	(11) EP2710337	(11) EP2763734
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2701632	(11) EP2710631	(11) EP2764662
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2701854	(11) EP2711922	(11) EP2765403
(00) 01.05.2023	(00) 02.08.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2701922	(11) EP2712229	(11) EP2769308
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
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(11) EP2701948	(11) EP2712230	(11) EP2786926
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2702245	(11) EP2712318	(11) EP2789401
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2702247	(11) EP2713736	(11) EP2789793
(00) 01.05.2023	(00) 02.08.2023	(00) 01.05.2023
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(11) EP2702546	(11) EP2714472	(11) EP2790133
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2702939	(11) EP2715199	(11) EP2790420
(00) 02.08.2023	(00) 01.05.2023	(00) 01.05.2023

(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2792822	(11) EP2817798	(11) EP2836816
(00) 01.05.2023	(00) 12.10.2023	(00) 01.05.2023
(00) EPV lapsed	(00) European Patent got Revoked	(00) EPV lapsed
(11) EP2793058	(11) EP2824660	(11) EP2837156
(00) 01.05.2023	(00) 02.08.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP2796197	(11) EP2826448	(11) EP2837708
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2796288	(11) EP2828337	(11) EP2838392
(00) 01.05.2023	(00) 02.08.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP2796333	(11) EP2833749	(11) EP2838690
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2796447	(11) EP2833985	(11) EP2838808
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2796730	(11) EP2834022	(11) EP2838870
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(11) EP2797034	(11) EP2834144	(11) EP2839245
(00) 02.08.2023	(00) 01.05.2023	(00) 01.05.2023
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(11) EP2797228	(11) EP2834253	(11) EP2839600
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(11) EP2797305	(11) EP2834307	(11) EP2840028
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(11) EP2799326	(11) EP2834520	(11) EP2840083
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
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(11) EP2799511	(11) EP2834673	(11) EP2840596
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
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(11) EP2799649	(11) EP2834949	(11) EP2840900
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(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2803264	(11) EP2834953	(11) EP2841268
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(11) EP2803407	(11) EP2834964	(11) EP2841363
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(11) EP2804174	(11) EP2835204	(11) EP2841465
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(11) EP2805768	(11) EP2836200	(11) EP2841498
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(11) EP2807922	(11) EP2836440	(11) EP2841501
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
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(11) EP2808251	(11) EP2836530	(11) EP2841517
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2814118	(11) EP2836729	(11) EP2841522
(00) 02.08.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP2817193	(11) EP2836808	(11) EP2841565
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(00) 01.05.2023	(00) 02.08.2023	(00) 02.08.2023
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(11) EP2841573	(11) EP2850802	(11) EP2901958
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(11) EP2841589	(11) EP2854325	(11) EP2903453
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(11) EP2841684	(11) EP2854558	(11) EP2908579
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(11) EP2841685	(11) EP2856990	(11) EP2908580
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2841818	(11) EP2857459	(11) EP2912519
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023
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(11) EP2841843	(11) EP2857929	(11) EP2913902
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(11) EP2841916	(11) EP2858687	(11) EP2919865
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(11) EP2842380	(11) EP2860181	(11) EP2926483
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(11) EP2842436	(11) EP2860212	(11) EP2926951
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
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(11) EP2842531	(11) EP2864837	(11) EP2929340
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(11) EP2842532	(11) EP2865009	(11) EP2930195
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(11) EP2844324	(11) EP2868160	(11) EP2932956
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(11) EP2844473	(11) EP2869668	(11) EP2933547
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
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(11) EP2844505	(11) EP2875984	(11) EP2934197
(00) 01.05.2023	(00) 02.08.2023	(00) 02.08.2023
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(11) EP2844632	(11) EP2876957	(11) EP2934540
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(11) EP2844694	(11) EP2883522	(11) EP2937221
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(11) EP2845021	(11) EP2883636	(11) EP2937300
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(11) EP2845394	(11) EP2883847	(11) EP2937309
(00) 01.05.2023	(00) 06.07.2023	(00) 02.08.2023
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(11) EP2937773	(11) EP2963300	(11) EP2984698
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(11) EP2939038	(11) EP2965096	(11) EP2984869
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(11) EP2939563	(11) EP2968347	(11) EP2984886
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(11) EP2956255	(11) EP2984067	(11) EP2989086
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(11) EP3085312	(11) EP3092888	(11) EP3128302
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3085336	(11) EP3094926	(11) EP3128631
(00) 01.05.2023	(00) 02.08.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3085520	(11) EP3095752	(11) EP3128969
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3085521	(11) EP3098511	(11) EP3128979
(00) 02.08.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP3085522	(11) EP3100587	(11) EP3129184
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023

(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3129419	(11) EP3134020	(11) EP3137836
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3129661	(11) EP3134141	(11) EP3137848
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3129718	(11) EP3134294	(11) EP3137855
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3130039	(11) EP3134407	(11) EP3137868
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3130049	(11) EP3134483	(11) EP3138234
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3130154	(11) EP3134492	(11) EP3138239
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3130166	(11) EP3134518	(11) EP3138270
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3130778	(11) EP3134588	(11) EP3138341
(00) 02.08.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP3130809	(11) EP3134659	(11) EP3139239
(00) 02.08.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP3131496	(11) EP3134686	(11) EP3139607
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3131658	(11) EP3135020	(11) EP3140349
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3131890	(11) EP3135021	(11) EP3140981
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3131902	(11) EP3135065	(11) EP3142218
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3131981	(11) EP3136022	(11) EP3143593
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3131992	(11) EP3137032	(11) EP3144785
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3132034	(11) EP3137172	(11) EP3144945
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3132263	(11) EP3137210	(11) EP3145656
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3132651	(11) EP3137223	(11) EP3145746
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3133108	(11) EP3137390	(11) EP3146811
(00) 02.08.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3133121	(11) EP3137408	(11) EP3147738
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3133923	(11) EP3137457	(11) EP3148424
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3134013	(11) EP3137768	(11) EP3149383
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3149508	(11) EP3190943	(11) EP3227934
(00) 02.08.2023	(00) 02.08.2023	(00) 02.08.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3149866	(11) EP3193186	(11) EP3228277
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3151451	(11) EP3193759	(11) EP3228278
(00) 01.05.2023	(00) 02.08.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3152026	(11) EP3196168	(11) EP3228519
(00) 02.08.2023	(00) 02.08.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3152392	(11) EP3196861	(11) EP3228563
(00) 02.08.2023	(00) 02.08.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3154544	(11) EP3197513	(11) EP3228703
(00) 02.08.2023	(00) 02.08.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3155523	(11) EP3199977	(11) EP3228961
(00) 02.08.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3156608	(11) EP3200126	(11) EP3229500
(00) 02.08.2023	(00) 02.08.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3159352	(11) EP3200691	(11) EP3230478
(00) 02.08.2023	(00) 02.08.2023	(00) 02.08.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3159983	(11) EP3201972	(11) EP3230802
(00) 02.08.2023	(00) 02.08.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3163863	(11) EP3203750	(11) EP3230971
(00) 02.08.2023	(00) 02.08.2023	(00) 02.08.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3164776	(11) EP3205083	(11) EP3231014
(00) 01.05.2023	(00) 02.08.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3170949	(11) EP3205529	(11) EP3231390
(00) 01.05.2023	(00) 02.08.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3179964	(11) EP3208606	(11) EP3231695
(00) 02.08.2023	(00) 02.08.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3181825	(11) EP3215168	(11) EP3231780
(00) 02.08.2023	(00) 02.08.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3182409	(11) EP3217323	(11) EP3231814
(00) 01.05.2023	(00) 02.08.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3183295	(11) EP3222517	(11) EP3232717
(00) 02.08.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP3187099	(11) EP3223346	(11) EP3235389
(00) 02.08.2023	(00) 02.08.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3187290	(11) EP3223901	(11) EP3235456
(00) 02.08.2023	(00) 02.08.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3189124	(11) EP3226283	(11) EP3235457
(00) 02.08.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP3189601	(11) EP3226809	(11) EP3235734
(00) 02.08.2023	(00) 02.08.2023	(00) 02.08.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3190095	(11) EP3227010	(11) EP3235805
(00) 02.08.2023	(00) 02.08.2023	(00) 01.05.2023

(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3235833	(11) EP3246882	(11) EP3269881
(00) 01.05.2023	(00) 02.08.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3235966	(11) EP3247556	(11) EP3270147
(00) 01.05.2023	(00) 02.08.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3238647	(11) EP3248521	(11) EP3270504
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3238683	(11) EP3249383	(11) EP3274821
(00) 01.05.2023	(00) 02.08.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3239089	(11) EP3249691	(11) EP3274972
(00) 01.05.2023	(00) 02.08.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3239415	(11) EP3252105	(11) EP3276507
(00) 01.05.2023	(00) 02.08.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3239430	(11) EP3254504	(11) EP3277210
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3239452	(11) EP3254943	(11) EP3277406
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3239679	(11) EP3255353	(11) EP3277929
(00) 01.05.2023	(00) 02.08.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3240242	(11) EP3257627	(11) EP3278040
(00) 01.05.2023	(00) 02.08.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3240516	(11) EP3258229	(11) EP3279918
(00) 02.08.2023	(00) 02.08.2023	(00) 02.08.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3241813	(11) EP3259702	(11) EP3280417
(00) 01.05.2023	(00) 02.08.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3242652	(11) EP3260382	(11) EP3280447
(00) 02.08.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP3243165	(11) EP3263293	(11) EP3280463
(00) 02.08.2023	(00) 02.08.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3243493	(11) EP3264665	(11) EP3280469
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3243942	(11) EP3264806	(11) EP3280675
(00) 02.08.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP3243986	(11) EP3264994	(11) EP3280864
(00) 01.05.2023	(00) 02.08.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3244086	(11) EP3265514	(11) EP3280967
(00) 01.05.2023	(00) 02.08.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3244818	(11) EP3266667	(11) EP3281182
(00) 02.08.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP3245538	(11) EP3266931	(11) EP3281344
(00) 02.08.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP3245750	(11) EP3268632	(11) EP3281347
(00) 02.08.2023	(00) 02.08.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3246203	(11) EP3268768	(11) EP3281387
(00) 01.05.2023	(00) 02.08.2023	(00) 01.05.2023

(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3281448	(11) EP3285576	(11) EP3288699
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3281449	(11) EP3285624	(11) EP3288713
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3281465	(11) EP3285625	(11) EP3288725
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3281985	(11) EP3285657	(11) EP3288899
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3282124	(11) EP3285777	(11) EP3288976
(00) 02.08.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP3282839	(11) EP3286002	(11) EP3288979
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3282864	(11) EP3286016	(11) EP3289220
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3283064	(11) EP3286095	(11) EP3289410
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3283149	(11) EP3286106	(11) EP3289660
(00) 02.08.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP3283518	(11) EP3286173	(11) EP3289694
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3283590	(11) EP3286317	(11) EP3289731
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3283608	(11) EP3286386	(11) EP3289810
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3283719	(11) EP3286482	(11) EP3289902
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3283801	(11) EP3286485	(11) EP3291079
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3283853	(11) EP3286589	(11) EP3291653
(00) 02.08.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3283878	(11) EP3286967	(11) EP3291654
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3283922	(11) EP3287443	(11) EP3291912
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3283986	(11) EP3288380	(11) EP3292026
(00) 02.08.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP3284031	(11) EP3288483	(11) EP3292600
(00) 02.08.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3284291	(11) EP3288502	(11) EP3294046
(00) 01.05.2023	(00) 01.05.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3284298	(11) EP3288575	(11) EP3295267
(00) 01.05.2023	(00) 01.05.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3284795	(11) EP3288695	(11) EP3295475
(00) 02.08.2023	(00) 01.05.2023	(00) 02.08.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3298334	(11) EP3313648	(11) EP3335235
(00) 01.05.2023	(00) 02.08.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3298663	(11) EP3314174	(11) EP3336247
(00) 01.05.2023	(00) 02.08.2023	(00) 01.05.2023
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3298849	(11) EP3314524	(11) EP3337256
(00) 01.05.2023	(00) 02.08.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3299492	(11) EP3315538	(11) EP3338118
(00) 02.08.2023	(00) 02.08.2023	(00) 02.08.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3300351	(11) EP3316015	(11) EP3338123
(00) 02.08.2023	(00) 02.08.2023	(00) 02.08.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3300680	(11) EP3317343	(11) EP3338384
(00) 01.05.2023	(00) 02.08.2023	(00) 02.08.2023
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3301159	(11) EP3318268	(11) EP3340970
(00) 02.08.2023	(00) 01.05.2023	(00) 02.08.2023
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(11) EP3306180	(11) EP3330257	(11) EP3344289
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(11) EP3307050	(11) EP3330628	(11) EP3346914
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(11) EP3369505	(11) EP3384799	(11) EP3392835
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(11) EP3370381	(11) EP3384816	(11) EP3393083
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(11) EP3371399	(11) EP3385243	(11) EP3395244
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(11) EP4067942	(11) EP4098555	(11) EP4161942
(00) 02.08.2023	(00) 02.08.2023	(00) 02.08.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP4069561	(11) EP4101846	(11) EP4167198
(00) 02.08.2023	(00) 02.08.2023	(00) 02.08.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP4069922	(11) EP4103650	
(00) 02.08.2023	(00) 02.08.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP4070031	(11) EP4105122	
(00) 02.08.2023	(00) 02.08.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP4071044	(11) EP4105682	
(00) 02.08.2023	(00) 02.08.2023	

VRB

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

(11) 2023197
(48) 06.12.2023
(00) Onvolledig Octrooibewijs
(51) A23J 1/00
A23J 3/14

CO

Ingeschreven overdrachten.

Contains data concerning registered assignments or change of owners.

(71) Waltr Holding B.V.	(51) C02F 3/08	(00) 29.11.2023
(73) Waltr Holding B.V.	C02F 3/10	(51) H04N 1/60
(11) 1039733	C02F 3/22	(00) Change of owner(s) name
(00) 29.11.2023	C02F 3/28	(71) Cicor Digital Elektronik GmbH
(51) E02D 37/00	C02F 3/30	(73) Cicor Digital Elektronik GmbH
(00) Assignment	(00) Assignment	(11) EP3417204
(71) ECO3 BV	(71) ECO3 BV	(00) 28.11.2023
(73) ECO3 BV	(73) ECO3 BV	(51) F21V 23/00
(11) EP1788444	(11) EP2755088	F21K 9/20
(00) 29.11.2023	(00) 29.11.2023	(00) Change of owner(s) name
(51) G03F 7/20	(51) G03F 7/30	(71) ECO3 BV
G03F 7/32	(00) Change of owner(s) name	(73) ECO3 BV
(00) Change of owner(s) name	(71) ECO3 BV	(11) EP3182206
(71) ECO3 BV	(73) ECO3 BV	(00) 29.11.2023
(73) ECO3 BV	(11) EP3055838	(51) G03F 7/20
(11) EP1788434	(00) 29.11.2023	(00) Change of owner(s) name
(00) 29.11.2023	(51) G06T 11/60	(71) Lignum Technologies AG
(51) G03F 7/085	(00) Change of owner(s) name	(73) Lignum Technologies AG
G03F 7/11	(71) Herbstreith & Fox GmbH & Co. KG	(11) EP3500535
G03F 7/32	Pektin#Fabriken	(00) 29.11.2023
(00) Change of owner(s) name	(73) Herbstreith & Fox GmbH & Co. KG	(51) C03C 25/50
(71) ECO3 BV	Pektin#Fabriken	(00) Change of owner(s) name
(73) ECO3 BV	(11) EP2447442	(71) LUKKA POLAND SPÓŁKA
(11) EP1826021	(00) 10.11.2023	Z OGRANICZONĄ
(00) 29.11.2023	(51) E04F 15/02	ODPOWIEDZIALNOŚCIĄ
(51) B41C 1/10	E04F 15/06	(73) LUKKA POLAND SPÓŁKA
B41N 3/03	E04F 17/00	Z OGRANICZONĄ
(00) Change of owner(s) name	E04H 3/24	ODPOWIEDZIALNOŚCIĄ
(71) ECO3 BV	(00) Change of Legal Entity	(11) EP3579496
(73) ECO3 BV	(71) ECO3 BV	(00) 15.11.2023
(11) EP1749240	(73) ECO3 BV	(51) H04L 9/32
(00) 29.11.2023	(11) EP3181357	(00) Change of owner(s) name
(51) G03F 7/09	(00) 29.11.2023	(71) ECO3 BV
(00) Change of owner(s) name	(51) B41C 1/00	(73) ECO3 BV
(71) Nippon Steel Corporation	B41N 1/12	(11) EP3243668
(73) Nippon Steel Corporation	G03F 7/00	(00) 29.11.2023
(11) EP2623221	G03F 7/20	(51) B41M 5/00
(00) 10.11.2023	B29C 67/00	G06K 15/02
(51) B21B 45/02	(00) Change of owner(s) name	H04N 1/405
B21B 39/08	(71) SEGULA ENGINEERING	B42D 25/337
(00) Assignment	(73) SEGULA ENGINEERING	(00) Change of owner(s) name
(71) Takeda Pharmaceutical Company	(11) EP3303825	(71) Lignum Technologies AG
Limited	(00) 29.11.2023	(73) Lignum Technologies AG
(73) Takeda Pharmaceutical Company	(51) E02B 9/06	(11) EP3127711
Limited	F03B 3/10	(00) 29.11.2023
(11) EP1986612	F03B 13/06	(51) B44C 5/04
(00) 27.11.2023	(00) Merge	(00) Change of owner(s) name
(51) A61K 9/00	(71) Cicor Digital Elektronik GmbH	(71) stylecats GmbH
A61K 9/19	(73) Cicor Digital Elektronik GmbH	(73) stylecats GmbH
A61K 38/47	(11) EP3268662	(11) EP3586614
A61K 47/10	(00) 28.11.2023	(00) 29.11.2023
A61K 47/12	(51) F21S 8/08	(51) A01K 15/02
A61K 47/20	F21V 15/01	A47F 5/04
A61K 47/26	F21V 31/00	(00) Assignment
A61P 43/00	F21W 131/103	(71) Lignum Technologies AG
(00) Assignment	F21V 29/70	(73) Lignum Technologies AG
(71) ASSENTOFT HOLDING PDN ApS	F21Y 115/10	(11) EP3576961
(73) ASSENTOFT HOLDING PDN ApS	(00) Change of owner(s) name	(00) 29.11.2023
(11) EP2785654	(71) ECO3 BV	(51) B05D 1/36
(00) 27.11.2023	(73) ECO3 BV	B05D 1/40
	(11) EP2817957	B05D 3/06

B05D 7/00	B05D 7/00	(00) 29.11.2023
B05D 7/04	B05D 7/04	(51) B33Y 80/00
B29C 71/02	B29C 71/02	B29C 64/124
B29K 27/06	B29K 27/06	B29C 64/245
B44C 5/04	(00) Change of owner(s) name	B29C 64/264
E04F 15/10	(71) ECO3 BV	B29C 64/336
(00) Change of owner(s) name	(73) ECO3 BV	(00) Change of owner(s) name
(71) Lignum Technologies AG	(11) EP3120293	(71) ECO3 BV
(73) Lignum Technologies AG	(00) 29.11.2023	(73) ECO3 BV
(11) EP3576962	(51) G06K 7/10	(11) EP3558678
(00) 29.11.2023	G06K 19/06	(00) 29.11.2023
(51) B05D 3/06	(00) Change of owner(s) name	(51) B33Y 80/00
B44C 5/04	(71) JOHN COCKERILL DEFENSE S.A.	B29C 64/124
E04F 15/10	(73) JOHN COCKERILL DEFENSE S.A.	B29C 64/245
(00) Change of owner(s) name	(11) EP3397919	B29C 64/336
(71) R3Vox Ltd.	(00) 12.01.2023	(00) Change of owner(s) name
(73) R3Vox Ltd.	(51) F41G 3/26	(71) ECO3 BV
(11) EP3362817	G09B 9/00	(73) ECO3 BV
(00) 28.06.2023	G09B 9/04	(11) EP3495891
(51) G01S 15/89	(00) Change of owner(s) name	(00) 29.11.2023
G01S 7/534	(71) ECO3 BV	(51) G03F 7/20
G01S 15/32	(73) ECO3 BV	G03F 7/40
(00) Assignment	(11) EP3576398	(00) Change of owner(s) name
(71) Lignum Technologies AG	(00) 29.11.2023	(71) ECO3 BV
(73) Lignum Technologies AG	(51) H04N 1/60	(73) ECO3 BV
(11) EP3398790	(00) Change of owner(s) name	(11) EP3608721
(00) 29.11.2023	(71) ECO3 BV	(00) 29.11.2023
(51) B44C 5/04	(73) ECO3 BV	(51) G03F 7/20
B05D 7/00	(11) EP3570204	(00) Change of owner(s) name
B32B 27/08	(00) 29.11.2023	(71) HAYASHIBARA CO., LTD.
B32B 27/32	(51) G06K 7/10	(73) HAYASHIBARA CO., LTD.
C09D 11/10	G06K 19/06	(11) EP3127428
E04F 15/10	(00) Change of owner(s) name	(00) 29.11.2023
B05D 1/28	(71) ECO3 BV	(51) A21D 2/26
(00) Change of owner(s) name	(73) ECO3 BV	A21D 2/18
(71) Lignum Technologies AG	(11) EP3272109	A23L 29/10
(73) Lignum Technologies AG	(00) 29.11.2023	(00) Assignment
(11) EP3090814	(51) H04N 1/32	(71) Lignum Technologies AG
(00) 29.11.2023	(00) Change of owner(s) name	(73) Lignum Technologies AG
(51) B05D 7/08	(71) ECO3 BV	(11) EP3828004
B32B 7/02	(73) ECO3 BV	(00) 29.11.2023
B32B 21/02	(11) EP3701710	(51) B44C 5/04
B32B 21/08	(00) 29.11.2023	B05D 3/06
B32B 27/30	(51) H04N 1/405	E04F 15/10
B05D 3/06	B41M 1/04	B05D 1/40
B05D 5/06	B41M 1/06	B05D 1/36
B05D 7/06	B41J 2/205	B05D 7/00
B44C 1/00	B41C 1/02	B05D 7/04
E04C 2/20	B41C 1/10	B29C 71/02
E04C 2/30	B41M 3/00	B29K 27/06
E04B 2/00	B41N 1/12	(00) Change of owner(s) name
E04B 5/02	B41N 1/22	(71) Superstream Oy
B05D 7/00	(00) Change of owner(s) name	(73) Superstream Oy
E04F 13/08	(71) Lignum Technologies AG	(11) EP2762402
E04F 13/16	(73) Lignum Technologies AG	(00) 27.11.2023
E04F 15/02	(11) EP3802034	(51) B63H 20/00
E04F 15/10	(00) 29.11.2023	B63H 20/28
(00) Change of owner(s) name	(51) B27N 3/00	(00) Assignment
(71) Lignum Technologies AG	B27N 3/04	(71) ROSEN 2 Holding AG
(73) Lignum Technologies AG	B27N 3/06	(73) ROSEN 2 Holding AG
(11) EP3828003	B27N 3/12	(11) EP3769050
(00) 29.11.2023	B27N 3/20	(00) 28.11.2023
(51) B44C 5/04	B27N 7/00	(51) G01F 1/66
B05D 3/06	(00) Change of owner(s) name	G01F 1/667
E04F 15/10	(71) ECO3 BV	G01N 29/024
B05D 1/40	(73) ECO3 BV	(00) Assignment
B05D 1/36	(11) EP3558646	

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) EP4000159	(11) EP2039022	(11) EP3868464
(11) EP3852853	(11) EP4015402	(11) EP3989720
(11) EP3472096	(11) EP4071408	(11) EP3975709
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(11) EP4157723	

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).

(11) EP3514565

(00) 29.11.2023

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.

(11) EP3514565

(00) 30.11.2023

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).