



Rijksdienst voor Ondernemend
Nederland

Nederland

De industriële eigendom

Inleiding

Hoofdblad

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

Bijblad

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

Abonnementsprijzen per (kalender)jaar:

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

Bezoekadres: **Octrooicentrum Nederland**

Prinses Beatrixlaan 2

2595 AL Den Haag

Postadres

Postbus 10366

2501 HJ Den Haag

Telefoon: 088-0426656

Bankrekeningnummer:

Voor taksen en depotrekeningen:

ING 0705001296

Iban: NL41INGB070500129

BIC: INGBNL2A

Introduction

Patent Bulletin

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

Official Journal

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

Subscription rates per calendar year:

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

Visiting address: **Netherlands Patent Office**

Prinses Beatrixlaan 2

2595 AL Den Haag

Postadress

Post Office Box: 10366

2501 HJ Den Haag

Telephone: +31(0)88 0426656

Account:

Fees, deposit accounts:

ING 0705001296

Iban: NL41INGB070500129

BIC: INGBNL2A

Inhoudsopgave	Blz. Content	Page
Rubriek NP1 Bevat gegevens betreffende octrooiaanvragen die zijn ingeschreven op grond van de Octrooiwet 1995.	8 Heading NP1 Contains data concerning Netherlands patent applications which have been entered in the patent register under the Patents Act 1995.	8
Rubriek NP2 Bevat gegevens betreffende ingeschreven en verleende octrooien op grond van de Octrooiwet 1995.	12 Heading NP2 Contains data concerning Netherlands patents which have been entered in the patent register under the Patents Act 1995.	12
Rubriek NP3 Bevat gegevens betreffende Nederlandse octrooien na gedeeltelijke afstand conform artikel 63 van de Octrooiwet 1995.	15 Heading NP3 Contains data concerning Netherlands patents after partial renunciation confirm Article 63 of the Patents Act 1995.	15
Rubriek EP1 Bevat gegevens betreffende vertaalde conclusies van Europese octrooiaanvragen.	16 Heading EP1 Contains data concerning translations of the conclusions of European patent applications.	16
Rubriek EP2 Bevat gegevens betreffende voor Nederland verleende Europese octrooien.	17 Heading EP2 Contains data concerning European patents granted for The Netherlands.	17
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.	154 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.	154
Rubriek EP4 Bevat gegevens betreffende voor Nederland verleende gewijzigde Europese octrooien.	185 Heading EP4 Contains data concerning European patents granted in amended form for the Netherlands.	185
Rubriek EP5 Bevat gegevens betreffende voor Nederland verleende gewijzigde	187 Heading EP5 Contains data concerning European patents granted in amended form for	187

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	188Heading SPC Contains data concerning applications for- or granted Supplementary Protection Certificates.	188
Rubriek VB1 Bevat gegevens betreffende rechten waarvoor een verzoek of bezwaarschrift is ingediend conform de Octrooiwet 1995.	189Heading VB1 Contains data concerning requests and notices of opposition under the General administrative law.	189
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.	190Heading 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.	190
Rubriek MED Bevat gegevens betreffende overige mededelingen.	191Heading MED Contains data concerning other communications.	191
Rubriek VRV Bevat gegevens betreffende verval of nietigverklaring.	192Heading VRV Contains data concerning lapse or annulment.	192
Rubriek VRB Bevat gegevens betreffende verbeteringen op eerdere publicaties.	212Heading VRB Contains data concerning corrections on earlier publications.	212
Rubriek CO Bevat gegevens betreffende wijzigingen in het octrooiregister.	213Heading CO Contains data concerning changes in the Netherland patent register.	213
Rubriek TVH Bevat gegevens betreffende topografieën van halfgeleiderproducten.	226Heading TVH Contains data concerning depots of original topographies of semi-conductor products.	226

Rubriek UP1 Bevat gegevens over Europese octrooien met geregistreerde eenheidswerking.	227Heading UP1 Contains data concerning European patents with registered Unitary Effect.	227
Rubriek UP2 Bevat gegevens over Europese octrooien met geregistreerd verzoek ex. artikel 52a (herstel recht op validatie).	228Heading UP2 Contains data concerning European patents with registered request ex article 52a (restoration of validation right).	228
Rubriek UP3 Bevat gegevens over Europese octrooien met geaccepteerd verzoek ex. artikel 52a (herstel recht op validatie) en complete validatie.	229Heading UP3 Contains data concerning European patents with accepted ex article 52a (restoration of validation right) and validation completed.	229
Rubriek UP4 Bevat gegevens over Europese octrooien met geaccepteerd verzoek ex. artikel 52a (herstel recht op validatie) en geen complete validatie.	230Heading UP4 Contains data concerning European patents with accepted request ex article 52a (restoration of validation right) and incomplete validation.	230
Rubriek UP5 Bevat gegevens over Europese octrooien met afgewezen verzoek ex. artikel 52a (herstel recht op validatie).	231Heading UP5 Contains data concerning European patents with rejected request ex article 52a (restoration of validation right).	231
Rubriek UP6 Bevat gegevens over Europese octrooien met ingetrokken verzoek ex. artikel 52a (herstel recht op validatie).	232Heading UP6 Contains data concerning European patents with withdrawn request ex article 52a (restoration of validation right).	232

Overzicht van Inid codes

INID CODES

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

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

INID CODES

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

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

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

Rubrieken/Headings

NP1

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

(51) A01G 9/02 A01G 9/04 A01G 27/02	(71) Tropical Crops Genetic Resources Institute, Chinese Academy of Tropical Agricultural Sciences	Yingbo Zhang (31) 202111522569.0 (32) 14.12.2021 (33) China
(21) 2032170 (22) 15.06.2022	(74) dr. R.C. van Duijvenbode c.s.	
(54) PLANTENPOT MET NAUW AANSLUITENDE WATEROPVANGPOT	(72) Yingying Zhang	(51) A01K 67/027 C07K 14/005 C12N 15/85
(71) The Pots Company NV	Yinghua Chen	(21) 2030466
(74) ir. J.P.E. Brants	Yingbo Zhang	(22) 07.01.2022
(72) Nicolaes Devriendt Delphine Bossuwe Emmanuel Devriendt	Kai Wang	(54) CONSTRUCTION METHOD OF CONDITIONAL OVEREXPRESSION MODEL OF GENETIC LOCUS- SPECIFIC INSERTION GENE
(41) 21.12.2022	Xiaolu Chen	(71) Qingdao University
(31) 2021/5470	Dan Wang	Qingdao WanMing BioCell
(32) 15.06.2021	Lingliang Guan	Pharmaceuticals Co.,Ltd
(33) Belgium	Yulan Li	(74) ir. M.B. Plaggenborg
(51) A01G 9/02 B29C 43/00 B29C 45/00 B29C 51/00	Qian Jiang	(72) Yunyang Wang
(21) 2032169	Zhenxia Chen	Yashuo Wang
(22) 15.06.2022	Yongfeng Xiao	Bin Wang
(54) WERKWIJZE VOOR HET VERKRIJGEN VAN EEN PLANTENPOT UIT GERECYCLEERDE POLYMEREN	Ping Yu	Zhifei Wang
(71) The Pots Company NV	Chao Yuan	Xianjuan Zhang
(74) ir. J.P.E. Brants	Xiaoli Xie	(31) 202110693413.2
(72) Nicolaes Devriendt Delphine Bossuwe Emmanuel Devriendt	Xueting Luo	(32) 22.06.2021
(41) 21.12.2022	Xingfei Li	(33) China
(31) 2021/5469	Mei Huang	(51) A23D 7/005 A23D 7/015 A23L 29/206
(32) 15.06.2021	Wanyun Shen	(21) 2028464
(33) Belgium	Xuan Hu	(22) 16.06.2021
(51) A01G 17/02 A01N 63/38 C12N 1/14	Fulai Yu	(54) Kokosvrij smeerbaar vetproduct
(21) 2028483	(31) 202111522786X	(71) Smilde Foods B.V.
(22) 18.06.2021	(32) 14.12.2021	Smilde Bakery B.V.
(54) Werkwijze voor het bestrijden van schimmels bij de wijnbouw	(33) China	(74) ir. H.A. Witmans c.s.
(71) Josephus Franciscus Dymphina Cornelis Clarijs Johannes Albertus Laurentius Clarijs	(51) A01H 4/00 C12N 5/04	(72) Lore Denise Stormink
(74) ir. A. Blokland c.s.	(21) 2033416	(41) 21.12.2022
(72) Johannes Albertus Laurentius Clarijs	(22) 28.10.2022	(51) A23L 13/60 A23L 13/40 A23L 5/10 A23L 11/45 A22C 13/00
(41) 27.12.2022	(54) A METHOD FOR OBTAINING ADVENTITIOUS BUDS OF TETRAPLOID BLUMEA BALSAMIFERA (L.) DC.	(21) 2032099
(51) A01H 4/00 C12N 5/04	(71) Tropical Crops Genetic Resources Institute, Chinese Academy of Tropical Agricultural Sciences	(22) 08.06.2022
(21) 2033408	(74) dr. R.C. van Duijvenbode c.s.	(54) ROAST SAUSAGE CRISP CHIP AND PROCESSING METHOD THEREOF
(22) 28.10.2022	(72) Zhenxia Chen	(71) Anhui Science and Technology University
(54) A ONE-STEP CULTURE METHOD FOR INDUCING THE DIFFERENTIATION OF BLUMEA BALSAMIFERA (L.) DC. ROOT CELLS TO PRODUCE ADVENTITIOUS BUDS	(72) Yingying Zhang	(74) ir. W.J.J.M. Kempes
	Xiaolu Chen	(72) Jingjun Li
	Mei Huang	Haibo Zheng
	Yulan Li	Guo Han
	Wanyun Shen	Jialong Xu
	Yongfeng Xiao	Jiajun Xu
	Yinghua Chen	(31) 202110698004.1
	Ping Yu	(32) 23.06.2021
	Kai Wang	(33) China
	Fulai Yu	(51) A61G 12/00 A61B 50/10
	Xueting Luo	
	Chao Yuan	
	Dan Wang	
	Lingliang Guan	
	Xiaoli Xie	
	Xingfei Li	
	Qian Jiang	

(21) 2032255	Paulus Bernardus Hendrikus Hendrixx	(74) drs. C.M.A. Quintelier
(22) 22.06.2022	(41) 21.12.2022	(72) Ling Guo
(54) Ward trolley, in particular medical and nursing trolley	(51) B08B 15/00	Wei Shi
(71) Optiplan Gesellschaft für optische Planungsgeräte mit beschränkter Haftung	F01N 13/08	Siping Zhou
(74) ir. H.A. Witmans c.s.	B25B 13/50	(31) 2021106681162
(72) Kai Wagner	(21) 2028465	(32) 16.06.2021
Sabine Lerner	(22) 16.06.2021	(33) China
(31) 20 2021 103 339.8	(54) Device for internal gripping of an exhaust pipe	(51) B65D 85/32
(32) 22.06.2021	(71) Plymovent Group B.V.	(21) 2029392
(33) Germany	(74) dr. R.C. van Duijvenbode c.s.	(22) 13.10.2021
(51) A61K 31/405	(72) Sebastiaan Wilhelmus Kohne	(54) PACKAGING UNIT FROM A MOULDED PULP MATERIAL WITH A SELF-ALIGNING ELEMENT AND METHOD FOR MANUFACTURING SUCH PACKAGING UNIT
A61K 31/4439	Jasper Ebbinghe	(71) Huhtamaki Molded Fiber Technology B.V.
A61K 31/726	Ragheed Shamoon	(74) dr. ir. G.J.C. Verdijck c.s.
A61K 31/737	(41) 21.12.2022	(72) Jelder Gerhard Jan van der Meij
A61K 45/06	(51) B28B 17/00	Hendrik Freerk Kloosterman
A61P 3/00	B28B 1/50	Roelof de Haan
A61P 9/00	B28B 23/02	(41) 21.12.2022
A61P 25/00	(21) 2031702	(31) 2028445
(21) 2028476	(22) 26.04.2022	(32) 14.06.2021
(22) 17.06.2021	(54) AUTOMATIC HANGING WORKSTATION FOR PRODUCING AERATED PLATE	(33) Netherlands
(54) PHARMACEUTICAL COMPOSITION FOR INCREASING MITOCHONDRIAL ACTIVITY AND/OR IMPROVING ADIPONECTIN PRODUCTION	(71) Yantai jutong Intelligent Equipment Co.,Ltd.	(51) B65G 67/22
(71) Logick Energetics B.V.	(74) dr. J. van Straaten	B65G 69/04
(74) drs. P.A. van Essen c.s.	(72) Fujia Li	B65G 69/20
(72) Clemens Waltherus Gerardus Maria Löwik	Xuncheng Wang	(21) 2030444
(41) 27.12.2022	Mingming Wang	(22) 06.01.2022
(51) A62C 35/13	Guangzong Wang	(54) A MOVABLE TYPE UNLOADING AND CURING DEVICE FOR BENZOXAZINE RESIN PRODUCTION
A62C 3/16	(31) 202110660009.5	(71) Puyang Enying Polymer Materials Co.,Ltd.
(21) 2032207	(32) 15.06.2021	(74) ir. W.J.J.M. Kempes
(22) 17.06.2022	(33) China	(72) Hongshui Wang
(54) Automatic communication system for local suppression of rising temperature or fire extinguishing in electrical equipment connected to a power supply	(51) B62J 11/00	Dongfeng Zhang
(71) ASES GROUP, s.r.o.	B62J 17/08	Yuhui Li
(74) dr. ir. G.J.C. Verdijck c.s.	(21) 1044070	Hongshi Tang
(72) Peter Roncák	(22) 18.06.2021	Yuansheng Zhang
Marek Duda	(54) Screen attachment to a bicycle	Bo Yang
(31) 2021-309	(71) ir. Harry Roelof Wassink	(31) 202110693381.6
(32) 19.06.2021	(72) ir. Harry Roelof Wassink	(32) 22.06.2021
(33) Czech Republic	(41) 27.12.2022	(33) China
(51) B01D 53/08	(51) B63B 35/26	(51) C02F 3/32
B01D 46/32	B63B 27/28	C12N 1/12
(21) 2028473	(21) 2030222	C12N 1/20
(22) 17.06.2021	(22) 22.12.2021	C02F 3/30
(54) GAS TREATMENT DEVICE	(54) DEVICE FOR INTRODUCING FISH FRY INTO CABIN BREEDING FACTORY SHIP	(21) 2028485
(71) Greensanesolution B.V.	(71) Fishery Machinery and Instrument Research Institute, Chinese Academy of Fishery Sciences	(22) 18.06.2021
(74) ir. J.C. Volmer c.s.	(74) ir. W.J.J.M. Kempes	(54) Photogranule
(72) Willem Adriaan de Vos	(72) Bin Zhang	(71) Nederlands Instituut voor Ecologie (NIOO-KNAW)
Henry Staal	Qingwei Wang	Koninklijke Nederlandse Akademie van Wetenschappen
Jan Muis	Chuntao Zhang	(74) dr. A. Ellens c.s.
(41) 27.12.2022	(31) 202110662514.3	(72) Tânia Vasconcelos Fernandes
(51) B07C 5/342	(32) 15.06.2021	Lukas Trebuch
(21) 2028466	(33) China	(51) C02F 9/14
(22) 16.06.2021	(51) B65D 65/46	(21) 2030545
(54) METHODS OF SORTING MATTHIOLA SEEDS	B65D 65/02	(22) 13.01.2022
(71) SeedX Technologies Inc.	(21) 2028861	(54) RURAL WASTEWATER AO TREATMENT DEVICE AND RURAL WASTEWATER TREATMENT SYSTEM
Sakata Holland B.V.	(22) 28.07.2021	(71) NANJING INSTITUTE OF ENVIRONMENTAL SCIENCES, MINISTRY OF ECOLOGY AND
(74) ir. J.C. Volmer c.s.	(54) ENVIRONMENTALLY FRIENDLY COATING FLOWER SLEEVE PAPER, FLOWER SLEEVE, MANUFACTURING METHOD AND APPLICATION	
(72) Sharon Ayal	(71) Wuhan Eudeco Co., Ltd	
Elad Carmon		

- ENVIRONMENT OF THE PEOPLE'S
REPUBLIC OF CHINA
(74) drs. P.A. van Essen c.s.
(72) Fuquan Peng
Xiang Zhu
Longmian Wang
Qingqing Pang
(31) 202110636825.2
(32) 08.06.2021
(33) China

(51) C07C 67/08
C07C 69/618
(21) 2030248
(22) 22.12.2021
(54) APPLICATION OF ACIDIC IONIC
LIQUID CATALYZING THE REACTION
OF CINNAMIC ACID AND BENZYL
ALCOHOL TO PREPARE BENZYL
CINNAMIC ACID AND METHOD FOR
PREPARING BENZYL CINNAMATE
(71) Henan University of Technology
(74) ir. M.B. Plaggenborg
(72) Liya Tian
Qian Yu
Yanxia Zhou
Xiaowei Chen
Shangde Sun
(31) 202110683897.2
(32) 21.06.2021
(33) China

(51) C08K 9/12
C08K 7/02
(21) 2030250
(22) 22.12.2021
(54) OIL-CONTAINING FIBER-POLYMER
SELF-LUBRICATING COMPOSITE
MATERIAL AND PREPARATION
METHOD THEREOF
(71) Lanzhou Institute of Chemical Physics,
Chinese Academy of Sciences
(74) ir. M.B. Plaggenborg
(72) Feng Zhou
Rui Guo
Xiaolong Wang
Xing Xu
Hongling Qin
(31) 202110695362.7
(32) 23.06.2021
(33) China

(51) C12N 1/14
A01N 63/30
B09C 1/10
(21) 2029615
(22) 03.11.2021
(54) GLOMUS VERSIFORME,
COMPOSITION FOR SALINE-
ALKALI LAND REMEDIATION AND
METHOD FOR SALINE-ALKALI LAND
REMEDICATION
(71) RESEARCH INSTITUTE OF FORESTRY
CHINESE ACADEMY OF FORESTRY
(74) ir. W.J.J.M. Kempes
(72) Jincheng Xing
Qian Zhang
Haishui Yang
Qixiang Sun
Jianmin Chu
Jia Guo
- Mingqian Zhang
(41) 21.12.2022
(31) 202110659213.5
(32) 15.06.2021
(33) China

(51) D06M 13/285
D06M 13/432
D06M 13/44
D06M 15/423
D06M 15/431
D03D 15/208
D03D 15/283
(21) 2028484
(22) 18.06.2021
(54) Flame Retardant Fabric Comprising
Cotton Alternative
(71) Ten Cate Protect B.V.
(74) dr. R.C. van Duijvenbode c.s.
(72) André Aelredus Laurentius van Rijn
Gerrit Beert van Dijk
Simone Christina Frederique Karkdijk
(41) 27.12.2022

(51) D21G 1/00
D21G 3/02
G06F 17/00
(21) 2029727
(22) 12.11.2021
(54) EQUATION-FREE FAULT INVERSION
METHOD FOR CONTROLLABLE
MEDIUM-AND-HIGH CALENDER
(71) ZAOZHUANG UNIVERSITY
SHANDONG MINGYUAN INTELLIGENT
EQUIPMENT CO., LTD.
(74) ir. H.Th. van den Heuvel c.s.
(72) Haiming Wang
Hongchun Qu
Zhihao Cao
Anming Hu
Guanghui Liu
Chuandong Song
Zhenfeng Jiang
(31) 202110682900.9
(32) 18.06.2021
(33) China

(51) E01B 7/00
E01B 31/17
(21) 2032181
(22) 16.06.2022
(54) Grinding trolley
(71) MECNO SERVICE S.R.L.
(74) ir. A. Blokland c.s.
(72) Claudio Favaron
(31) 102021000015734
(32) 16.06.2021
(33) Italy

(51) F24D 10/00
(21) 2028469
(22) 17.06.2021
(54) Aansluitmodule voor het energetisch
koppelen van een warmtenet aan een
warm water voorzieningssysteem van
een bouwwerk, ook in combinatie met
een bouwwerk.
(71) Ennatuurlijk B.V.
(74) ir. A. Blokland c.s.
(72) Coert Erwin Daane
(41) 27.12.2022
- (51) G01N 3/08
G01N 23/2251
G01N 15/10
(21) 2033674
(22) 05.12.2022
(54) EXPERIMENTAL METHOD OF
SIMULATING THE EVOLUTION OF
SHALE MICROSTRUCTURE UNDER
TECTONIC STRESS
(71) CHENGDU UNIVERSITY OF
TECHNOLOGY
(74) ir. M.B. Plaggenborg
(72) Xinhui Xie
Ziyun Zheng
Hucheng Deng
Meiyan Fu
Dong Wu
Ruixue Li
(31) 202210783321.8
(32) 05.07.2022
(33) China

(51) G01N 15/06
E02F 3/90
G01F 1/66
G01F 1/74
G01N 22/04
(21) 2028468
(22) 16.06.2021
(54) System for measuring of a concentration
parameter of a flow of a solid/liquid
mixture
(71) IHC Holland IE B.V.
(74) dr. R.C. van Duijvenbode c.s.
(72) Jacob Osnabrugge
Bram Bryan Visser
Krzysztof Stanislaw Zych
(41) 21.12.2022

(51) G01N 21/64
G01N 21/359
G01N 33/24
(21) 2031045
(22) 23.02.2022
(54) CALIBRATION METHOD FOR
REDUCING EFFECT OF SOIL TYPE
ON FLUORESCENCE INTENSITY
OF POLYCYCLIC AROMATIC
HYDROCARBONS
(71) Tianjin Agricultural College
(74) ir. J.C. Volmer c.s.
(72) Renjie Yang
Haixue Liu
Guimei Dong
Shaocai Li
Tao Lei
Wenbi Zhu

(51) G05D 1/02
(21) 2028482
(22) 18.06.2021
(54) Werkwijze voor het voorkomen van een
vastloop-situatie in een systeem voor het
transporteren van producten
(71) Vanderlande Industries B.V.
(74) ir. A. Blokland c.s.
(72) Karlijn Johanna Catharina Fransen
Michel Adriaan Reniers
(41) 27.12.2022

(51) G05F 1/67
(21) 2028470

(22) 17.06.2021	(51) G07F 17/00	(33) United States of America
(54) DC-DC converter with dynamic MPPT	(21) 2028490	(51) H01L 27/108
(71) Nowi Energy B.V.	(22) 20.06.2021	H01R 12/73
(74) ir. A. Blokland c.s.	(54) Container for medicine units and device	(21) 2031930
(72) Gustavo Campos Martins	for filling such machine and medicine unit	(22) 18.05.2022
Luc van Wietmarschen	delivery device	(54) DUAL IN-LINE MEMORY MODULE
Samaneh Babayan Mashhadi	(71) DD Innovations B.V.	(DIMM) SOCKET THAT PREVENTS
Mohammadjavad Dezyani	(74) ir. M. van der Velden	IMPROPER DIMM RELEASE
(41) 27.12.2022	(72) Dennis Raymond Bijlsma	(71) Intel Corporation
(51) G06F 1/18	(41) 27.12.2022	(74) dr. A. Krebs
(21) 2031894	(51) G07F 17/00	(72) Xiang Li
(22) 17.05.2022	G07F 11/72	George Vergis
(54) DIMM SOCKET WITH SEATING FLOOR	B65B 5/00	(31) 17/352,211
TO MEET BOTH LONGER LENGTH	(21) 2028765	(32) 18.06.2021
EDGE CONTACTS AND SHORTER	(22) 16.07.2021	(33) United States of America
LENGTH EDGE CONTACTS	(54) Device for filling a medicine-unit	(51) H02K 49/10
(71) Intel Corporation	container for use in a medicine unit	F16H 1/32
(74) dr. A. Krebs	dispensing device, assembly of such	(21) 2032217
(72) George Vergis	device and a container and method for	(22) 20.06.2022
Xiang Li	cleaning such device	(54) Low-Speed High-Torque Nutation Direct
(31) 17/351,556	(71) DD Innovations B.V.	Driver And Working Method Thereof
(32) 18.06.2021	(74) ir. M. van der Velden	(71) Fuzhou University
(33) United States of America	(72) Dennis Raymond Bijlsma	(74) dr. T. Wittop Koning PhD
(51) G06F 9/48	(41) 27.12.2022	(72) Jiaxin Ding
(21) 2031965	(31) 2028491	Ligang Yao
(22) 23.05.2022	(32) 20.06.2021	Jinglin Liu
(54) APPARATUS, ARTICLES OF	(33) Netherlands	Zhenya Wang
MANUFACTURE, AND METHODS FOR	(51) G10K 11/178	Zetong Xie
MANAGING PROCESSING UNITS	(21) 2028463	Bingbing Jia
(71) Intel Corporation	(22) 16.06.2021	Gaosong Li
(74) dr. A. Krebs	(54) Active sound-cancellation system for an	(31) 202110686248.8
(72) Karan Puttannaiah	open fluid-duct	(32) 21.06.2021
Rajesh Poornachandran	(71) Novio Sound B.V.	(33) China
Kaushik Balasubramanian	(74) drs. P.A. van Essen c.s.	
(31) 202141028125	(72) Arthur Berkhoff	
202141036070	David Bradford	
17/645,742	(41) 21.12.2022	
17/560,025	(51) H01L 23/52	
63/222,938	(21) 2031856	
17/559,730	(22) 13.05.2022	
17/558,284	(54) PACKAGE SUBSTRATE WITH GLASS	
(32) 23.06.2021	CORE HAVING VERTICAL POWER	
10.08.2021	PLANES FOR IMPROVED POWER	
22.12.2021	DELIVERY	
22.12.2021	(71) Intel Corporation	
16.07.2021	(74) dr. A. Krebs	
22.12.2021	(72) Neelam Phrabu Gaunkar	
21.12.2021	Telesphor Kamgaing	
(33) India	Aleksander Aleksov	
India	Georgios Dogiamis	
United States of America	Veronica Strong	
United States of America	(31) 17/349,697	
United States of America	(32) 16.06.2021	
United States of America	(33) United States of America	
United States of America	(51) H01L 27/02	
(51) G06F 21/75	(21) 2031953	
(21) 2031597	(22) 20.05.2022	
(22) 14.04.2022	(54) QUASI-MONOLITHIC HIERARCHICAL	
(54) INTEGRATED CIRCUIT SIDE-CHANNEL	INTEGRATION ARCHITECTURE	
MITIGATION MECHANISM	(71) Intel Corporation	
(71) Intel Corporation	(74) dr. A. Krebs	
(74) dr. A. Krebs	(72) Julien Sebot	
(72) Anatoli Bolotov	Adel A. Elsherbini	
Oleg Rodionov	Johanna Swan	
Mikhail Grinchuk	Shawna M. Liff	
(31) 17/354,138	(31) 17/354,773	
(32) 22.06.2021	(32) 22.06.2021	
(33) United States of America		

NP2

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

(51) A01G 9/02	A47H 13/02	(54) METHODS OF SORTING MATTHIOLA SEEDS
A01G 9/04	A47H 13/14	(73) SeedX Technologies Inc.
A01G 27/02	A47H 15/02	Sakata Holland B.V.
(11) 2032170	B63B 17/02	(72) Sharon Ayal
(47) 21.12.2022	(11) 2028232	Elad Carmon
(22) 15.06.2022	(47) 22.12.2022	Paulus Bernardus Hendrikus Hendrikk
(54) PLANTENPOT MET NAUW AANSLUITENDE WATEROPVANGPOT	(22) 18.05.2021	(74) ir. J.C. Volmer c.s.
(73) The Pots Company NV	(54) A drapery system as well as a yacht comprising a cockpit cover provided with at least one such drapery system	(51) B08B 15/00
(72) Nicolaes Devriendt	(73) Vlootbeek Beheer B.V.	F01N 13/08
Delphine Bossuwe	(72) Gerardus Jozef Eduard Houben	B25B 13/50
Emmanuel Devriendt	(74) ir. C.G.C. Veldman-Dijkers	(11) 2028465
(74) ir. J.P.E. Brants	(51) A61K 31/405	(47) 21.12.2022
(31) 2021/5470	A61K 31/4439	(22) 16.06.2021
(32) 15.06.2021	A61K 31/726	(54) Device for internal gripping of an exhaust pipe
(33) Belgium	A61K 31/737	(73) Plymovent Group B.V.
(51) A01G 9/02	A61K 45/06	(72) Sebastiaan Wilhelmus Kohne
B29C 43/00	A61P 3/00	Jasper Ebbinghe
B29C 45/00	A61P 9/00	Ragheed Shmoon
B29C 51/00	A61P 25/00	(74) dr. R.C. van Duijvenbode c.s.
(11) 2032169	(11) 2028476	(51) B62J 11/00
(47) 21.12.2022	(47) 27.12.2022	B62J 17/08
(22) 15.06.2022	(22) 17.06.2021	(11) 1044070
(54) WERKWIJZE VOOR HET VERKRIJGEN VAN EEN PLANTENPOT UIT GERECYCLEERDE POLYMEREN	(54) PHARMACEUTICAL COMPOSITION FOR INCREASING MITOCHONDRIAL ACTIVITY AND/OR IMPROVING ADIPONECTIN PRODUCTION	(47) 27.12.2022
(73) The Pots Company NV	(73) Logick Energetics B.V.	(22) 18.06.2021
(72) Nicolaes Devriendt	(72) Clemens Waltherus Gerardus Maria Löwik	(54) Screen attachment to a bicycle
Delphine Bossuwe	(74) drs. P.A. van Essen c.s.	(73) ir. Harry Roelof Wassink
Emmanuel Devriendt	(51) A61M 5/31	(72) ir. Harry Roelof Wassink
(74) ir. J.P.E. Brants	A61M 5/30	(51) B65D 85/32
(31) 2021/5469	(11) 2030567	(11) 2029392
(32) 15.06.2021	(47) 22.12.2022	(47) 21.12.2022
(33) Belgium	(22) 17.01.2022	(22) 13.10.2021
(51) A01G 17/02	(54) PNEUMATIC NEEDLELESS SYRINGE	(54) PACKAGING UNIT FROM A MOULDED PULP MATERIAL WITH A SELF-ALIGNING ELEMENT AND METHOD FOR MANUFACTURING SUCH PACKAGING UNIT
A01N 63/38	(73) Songyu Zhang	(73) Huhtamaki Molded Fiber Technology B.V.
C12N 1/14	(72) Songyu Zhang	(72) Jelmer Gerhard Jan van der Meij
(11) 2028483	Shuai Zhang	Hendrik Freerk Kloosterman
(47) 27.12.2022	Chao Wei	Roelof de Haan
(22) 18.06.2021	Xingwan Chen	(74) dr. ir. G.J.C. Verdijk c.s.
(54) Werkwijze voor het bestrijden van schimmels bij de wijnbouw	(74) ir. W.J.J.M. Kempes	(31) 2028445
(73) Josephus Franciscus Dymphina Cornelis Clarijs	(51) B01D 53/08	(32) 14.06.2021
Johannes Albertus Laurentius Clarijs	B01D 46/32	(33) Netherlands
(72) Johannes Albertus Laurentius Clarijs	(11) 2028473	(51) C02F 3/32
(74) ir. A. Blokland c.s.	(47) 27.12.2022	C12N 1/12
(51) A23D 7/005	(22) 17.06.2021	C12N 1/20
A23D 7/015	(54) GAS TREATMENT DEVICE	C02F 3/30
A23L 29/206	(73) Greensaneresolution B.V.	(11) 2028485
(11) 2028464	(72) Willem Adriaan de Vos	(47) 27.12.2022
(47) 21.12.2022	Henry Staal	(22) 18.06.2021
(22) 16.06.2021	Jan Muis	(54) Photogranule
(54) Kokosvrij smeerbaar vetproduct	(74) ir. J.C. Volmer c.s.	(73) Nederlands Instituut voor Ecologie (NIOO-KNAW)
(73) Smilde Foods B.V.	(51) B07C 5/342	Koninklijke Nederlandse Akademie van Wetenschappen
Smilde Bakery B.V.	(11) 2028466	(72) Tânia Vasconcelos Fernandes
(72) Lore Denise Stormink	(47) 21.12.2022	Lukas Trebuch
(74) ir. H.A. Witmans c.s.	(22) 16.06.2021	
(51) A47H 5/032		

- (74) dr. A. Ellens c.s.
 (51) C02F 9/00
 (11) 2031521
 (47) 22.12.2022
 (22) 06.04.2022
 (54) DEVICE FOR REMOVAL OF NITROGEN FROM COKING WASTEWATER BY ANAMMOX AND TREATMENT METHOD THEREFOR
 (73) BEIJING JIAOTONG UNIVERSITY
 (72) Anming Yang
 Hong Yao
 Liru Fan
 (74) ir. M.B. Plaggenborg
 (51) C12N 1/14
 A01N 63/30
 B09C 1/10
 (11) 2029615
 (47) 21.12.2022
 (22) 03.11.2021
 (54) GLOMUS VERSIFORME, COMPOSITION FOR SALINE-ALKALI LAND REMEDIATION AND METHOD FOR SALINE-ALKALI LAND REMEDIATION
 (73) RESEARCH INSTITUTE OF FORESTRY CHINESE ACADEMY OF FORESTRY
 (72) Jincheng Xing
 Qian Zhang
 Haishui Yang
 Qixiang Sun
 Jianmin Chu
 Jia Guo
 Mingqian Zhang
 (74) ir. W.J.J.M. Kempes
 (83) 14546
 15.08.2017
 China General Microbiological Culture Collection Center (CGMCC)
 Institute of Microbiology, Chinese Academy of Sciences, No. 1 West Beichen Road, Chaoyang District, Beijing 100 101, China
 (31) 202110659213.5
 (32) 15.06.2021
 (33) China
 (51) C12N 11/10
 C12N 11/14
 C12N 1/20
 B09C 1/10
 C09K 17/40
 (11) 2029992
 (47) 22.12.2022
 (22) 01.12.2021
 (54) NANOCOMPOSITE FOR MICROBIAL REMEDIATION AND PREPARATION METHOD AND USE THEREOF
 (73) INSTITUTE OF SOIL SCIENCE, CHINESE ACADEMY OF SCIENCES
 (72) Tingyu Mao
 Yongming Luo
 Wenjie Ren
 Ying Teng
 (74) ir. M.B. Plaggenborg
 (51) C12Q 1/6806
 C12Q 1/6876
 (11) 2029947
 (47) 22.12.2022
- (22) 29.11.2021
 (54) KIT AND METHOD FOR AMPLIFYING FULL-LENGTH mRNA SEQUENCE OF GYPA, GYPB AND GYPE GENE
 (73) Shenzhen Blood Center (Shenzhen Institute of Transfusion Medicine)
 (72) Yanlian Liang
 Xiongchi Tang
 Yunping Xu
 Pingping Sun
 Fan Wu
 Jianwei Ren
 Fuling Zhong
 Yuqing Su
 Long Peng
 Shuang Liang
 (74) ir. W.J.J.M. Kempes
 (51) C12R 1/865
 C12P 7/10
 C12N 1/36
 C12N 15/01
 C12N 1/18
 (11) 2030489
 (47) 22.12.2022
 (22) 10.01.2022
 (54) C6/C5 CO-FERMENTATION SACCHAROMYCES CEREVISIAE CAPABLE OF RELIEVING ANTAGONISM BETWEEN HIGH XYLOSE UTILIZATION AND HIGH ROBUSTNESS AND USE THEREOF
 (73) Qilu University of Technology
 (72) Xiaoming Bao
 Jianzhi Zhao
 Fangqing Wei
 Menglei Li
 Hongxing Li
 Zailu Li
 (74) ir. W.J.J.M. Kempes
 (51) D06M 13/285
 D06M 13/432
 D06M 13/44
 D06M 15/423
 D06M 15/431
 D03D 15/208
 D03D 15/283
 (11) 2028484
 (47) 27.12.2022
 (22) 18.06.2021
 (54) Flame Retardant Fabric Comprising Cotton Alternative
 (73) Ten Cate Protect B.V.
 (72) André Aelredus Laurentius van Rijn
 Gerrit Beert van Dijk
 Simone Christina Frederique Karkdijk
 (74) dr. R.C. van Duijvenbode c.s.
 (51) F03B 17/04
 (11) 1044177
 (47) 22.12.2022
 (22) 09.06.2021
 (54) Draairad in vloestofkolom
 (62) 1044056 (09.06.2021)
 (73) T. Kömcü
 (72) Tancel Kömcü
 (51) F24D 10/00
 (11) 2028469
 (47) 27.12.2022
 (22) 17.06.2021
- (54) Aansluitmodule voor het energetisch koppelen van een warmtenet aan een warm water voorzieningssysteem van een bouwwerk, ook in combinatie met een bouwwerk.
 (73) Ennatuurlijk B.V.
 (72) Coert Erwin Daane
 (74) ir. A. Blokland c.s.
 (51) G01B 11/24
 G01T 1/167
 (11) 2029605
 (47) 22.12.2022
 (22) 03.11.2021
 (54) METHOD FOR DETECTING CONTENT DISTRIBUTION OF DEUTERIUM IN TUNGSTEN WITH RADIO-FREQUENCY GLOW DISCHARGE OPTICAL EMISSION SPECTROMETER
 (73) LANZHOU INSTITUTE OF CHEMICAL PHYSICS, CHINESE ACADEMY OF SCIENCES
 (72) Peng Wang
 Li Qiao
 Liqiang Chai
 (74) ir. W.J.J.M. Kempes
 (51) G01N 15/06
 E02F 3/90
 G01F 1/66
 G01F 1/74
 G01N 22/04
 (11) 2028468
 (47) 21.12.2022
 (22) 16.06.2021
 (54) System for measuring of a concentration parameter of a flow of a solid/liquid mixture
 (73) IHC Holland IE B.V.
 (72) Jacob Osnabrugge
 Bram Bryan Visser
 Krzysztof Stanislaw Zych
 (74) dr. R.C. van Duijvenbode c.s.
 (51) G01N 33/543
 G01N 33/547
 G01N 33/68
 (11) 2030971
 (47) 22.12.2022
 (22) 16.02.2022
 (54) KIT FOR DETECTING DUST MITE COMPONENT-SPECIFIC ANTIBODIES
 (73) Hangzhou Zheda Dixun Biological Gene Engineering Co., Ltd.
 (72) Shandong Wu
 Huahao Shen
 Yi Liu
 Wei Lei
 Zhoujie Wu
 Suling Xu
 Puyang Xu
 Weiyue Cai
 Mingzhi Zhu
 Xukai Yang
 Yifei Wang
 Xiandong Zhou
 (74) ir. M.B. Plaggenborg
 (31) 202110409090.X
 (32) 16.04.2021
 (33) China
 (51) G01V 3/12

- G01S 13/88
 (11) 2030049
 (47) 22.12.2022
 (22) 07.12.2021
 (54) A METHOD AND DEVICE FOR LOCATING A TECTONIC-ALTERED ROCK TYPE GOLD DEPOSIT
 (73) Institute of Geology and Geophysics, Chinese Academy of Science
 (72) Xue Guoqiang
 Zhou Nannan
 Liu Hongtao
 Zhang Shun
-
- (51) G05D 1/02
 (11) 2028482
 (47) 27.12.2022
 (22) 18.06.2021
 (54) Werkwijze voor het voorkomen van een vastloop-situatie in een systeem voor het transporteren van producten
 (73) Vanderlande Industries B.V.
 (72) Karlijn Johanna Catharina Fransen
 Michel Adriaan Reniers
 (74) ir. A. Blokland c.s.
-
- (51) G05F 1/67
 (11) 2028470
 (47) 27.12.2022
 (22) 17.06.2021
 (54) DC-DC converter with dynamic MPPT
 (73) Nowi Energy B.V.
 (72) Gustavo Campos Martins
 Luc van Wietmarschen
 Samaneh Babayan Mashhadi
 Mohammadjavad Dezyani
 (74) ir. A. Blokland c.s.
-
- (51) G07F 17/00
 (11) 2028490
 (47) 27.12.2022
 (22) 20.06.2021
 (54) Container for medicine units and device for filling such machine and medicine unit delivery device
 (73) DD Innovations B.V.
 (72) Dennis Raymond Bijlsma
 (74) ir. M. van der Velden
-
- (51) G07F 17/00
 G07F 11/72
 B65B 5/00
 (11) 2028765
 (47) 27.12.2022
 (22) 16.07.2021
 (54) Device for filling a medicine-unit container for use in a medicine unit dispensing device, assembly of such device and a container and method for cleaning such device
 (73) DD Innovations B.V.
 (72) Dennis Raymond Bijlsma
 (74) ir. M. van der Velden
 (31) 2028491
 (32) 20.06.2021
 (33) Netherlands
-
- (51) G10K 11/178
 (11) 2028463
 (47) 21.12.2022
 (22) 16.06.2021
 (54) Active sound-cancellation system for an open fluid-duct
 (73) Novio Sound B.V.
 (72) Arthur Berkhoff
 David Bradford
 (74) drs. P.A. van Essen c.s.

NP3

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

EP1

Vertaalde conclusies van Europese octrooiaanvragen.

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

EP2

Voor Nederland verleende Europese octrooien.

Contains data concerning European patents granted for The Netherlands.

(51) A01B 1/02	(51) A01H 3/00	(22) 24.04.2020
(11) EP3725140	A01H 5/10	(54) AUTOMATED LITTER DEVICE
(21) EP20168962.7	C07K 14/415	(73) Automated Pet Care Products, LLC
(47) 28.12.2022	C12N 15/29	(72) BAXTER, Brad
(22) 09.04.2020	(11) EP3116301	SMITH, Jason
(54) SHOVEL SPADE FOR PICKING UP, LOOSENING AND/OR REMOVING MATERIALS	(21) EP15761575.8	WEIHMAN, Jason
(73) TurfPro Maschinen und Motorgeräte GmbH	(47) 28.12.2022	(31) 202062982865 P
(72) Hainzl, Olaf	(87) IL2015050252	201962837965 P
(31) 102019109510	17.09.2015	(32) 28.02.2020
(32) 10.04.2019	(22) 10.03.2015	24.04.2019
(33) Germany	(54) MELON PLANTS WITH ENHANCED FRUIT YIELDS	(33) United States of America
(51) A01G 2/38	(73) The State of Israel, Ministry of Agriculture & Rural Development, Agricultural Research Organization (ARO) (Volcani Center)	United States of America
(11) EP3272206	(72) TADMOR, Yaakov	(51) A01K 7/02
(21) EP15885550.2	BURGER, Yosef	A01K 63/04
(47) 28.12.2022	MEIR, Ayala	F04B 23/02
(87) JP2015079058	SAAR, Uzi	F04D 13/02
22.09.2016	BAUMKOLER, Fabian	F03B 13/00
(22) 14.10.2015	SCHAFFER, Arthur A.	H02K 11/00
(54) GRAFTING METHOD	KATZIR, Nurit	(11) EP3520607
(73) NATIONAL AGRICULTURE AND FOOD RESEARCH ORGANIZATION	OZ, Ido	(21) EP19155355.1
(72) NAKAYAMA, Natsuki	LAVEE, Tamar	(47) 28.12.2022
YOSHINAGA, Keita	(31) 201461950315 P	(22) 04.02.2019
NGUYEN, Loan Thi Thanh	(32) 10.03.2014	(54) WATER PUMP AND AQUARIUM EQUIPMENT COMPRISING THE WATER PUMP
(31) 2015056453	(33) United States of America	(73) Guangdong Boyu Group Co., Ltd
(32) 19.03.2015	(51) A01H 5/08	(72) YU, Youkai
(33) Japan	A01H 6/82	YU, Bingyan
(51) A01G 9/04	A23L 19/00	YU, Jianqin
A01G 9/02	C07K 14/415	(31) 201821922602 U
(11) EP3930445	C12N 15/82	201820911537 U
(21) EP20701421.8	(11) EP3405024	201810602021
(47) 28.12.2022	(21) EP17741188.1	201820219475 U
(87) EP2020051060	(47) 28.12.2022	201810117782
03.09.2020	(87) IL2017050078	(32) 21.11.2018
(22) 16.01.2020	27.07.2017	12.06.2018
(54) PLANT POT SAUCER	(22) 19.01.2017	12.06.2018
(73) Leikermoser, Dieter	(54) PARTHENO-CARPIC PLANTS AND METHODS OF PRODUCING SAME	06.02.2018
Reiser, Stephan	(73) The State of Israel - Ministry of Agriculture & Rural Development, Agricultural Research Organization (ARO) (Volcani Center)	06.02.2018
(72) Leikermoser, Dieter	(72) BARG, Rivka	(33) China
Reiser, Stephan	SALTS, Yehiam	China
(31) 202019101074 U	KLAP, Chen	China
(32) 25.02.2019	ARAZI, Itzhak	China
(33) Germany	YESHAYAHOU, Ester	China
(51) A01G 9/22	BOLGER, Anthony	(51) A01K 23/00
(11) EP3911146	SHABTAI, Sara	A61F 13/514
(21) EP20701281.6	(31) 201662281227 P	A61F 13/15
(47) 28.12.2022	(32) 21.01.2016	(11) EP3741209
(87) EP2020051050	(33) United States of America	(21) EP20174313.5
23.07.2020	(51) A01K 1/01	(47) 28.12.2022
(22) 16.01.2020	A01K 1/00	(2) 13.05.2020
(54) ENERGY SAVING GREENHOUSE SCREEN	(11) EP3945792	(54) DISPOSABLE DIAPER FOR PET AND METHOD FOR MANUFACTURING DISPOSABLE DIAPER FOR PET
(73) AB Ludvig Svensson	(21) EP20727432.5	(73) Unicharm Corporation
(72) WIDÉN, Sara	(47) 28.12.2022	(72) KOMATSUBARA, Daisuke
ASPLUND, Daniel	(87) US2020029776	(31) 2019203994
(31) 1950063	29.10.2020	2019094869
(32) 18.01.2019		(32) 11.11.2019
(33) Sweden		20.05.2019
		(33) Japan

Japan	(21) EP18199807.1	(54) POTATO-BASED NUTRITIONAL
(51) A01N 1/02	(47) 28.12.2022	RECOMBINANT RICE FORMULA AND
(11) EP3673734	(22) 11.10.2018	PREPARATION METHOD THEREFOR
(21) EP20158886.0	(54) METHODS OF ANIMAL ANAESTHESIA	(73) Shenyang Normal University
(47) 28.12.2022	USING GAS RECIRCULATION	(72) XIAO, Zhigang
(22) 20.11.2014	(73) L'AIR LIQUIDE, SOCIETE ANONYME	YANG, Qingyu
(54) KIT FOR EX-VIVO CONDITIONING AND	POUR L'ETUDE ET L'EXPLOITATION	WANG, Lishuang
PURIFICATION OF AN EXPLANTED	DES PROCEDES GEORGES CLAUDE	DUAN, Yumin
ORGAN	(72) COUSIN, Franck	TAO, Liwei
(73) Aferetica S.r.l.	TAYLOR, Bob	WANG, Na
(72) RIMONDI, Stefano	CHARVE, Etienne	SHEN, Yuguang
(31) TO20130944	(31) 1759716	WANG, Peng
(32) 20.11.2013	(32) 17.10.2017	(31) 201810587048
(33) Italy	(33) France	(32) 06.06.2018
(51) A01N 59/16	(51) A23D 9/00	(33) China
A01N 25/02	A23D 9/007	(51) A23L 27/30
A01N 25/08	A23D 9/06	(11) EP2826386
C09D 5/02	C11B 5/00	(21) EP14184562.8
C09J 11/04	(11) EP3282858	(47) 28.12.2022
(11) EP3534712	(21) EP16726943.0	(22) 16.06.2010
(21) EP17867592.2	(47) 28.12.2022	(54) Stevia composition comprising
(47) 28.12.2022	(87) IB2016052162	rebaudioside A and D
(87) US2017058211	20.10.2016	(73) Sweet Green Fields International Co.,
11.05.2018	(22) 15.04.2016	Limited
(22) 25.10.2017	(54) EDIBLE OIL COMPOSITION,	(72) Shi, Jingang
(54) ANTIMICROBIAL AGENT FOR	PARTICULARLY FOR USE IN FRYING	Feng, Yunlong
COATINGS AND FINISHES	AND COOKING FOOD	Zhao, Chenghai
(73) SWIMC LLC	(73) Olitalia S.r.l.	Wang, Hansheng
(72) BARICOS, Cynthia, D.	(72) BALLOTTA, Vaimer	(31) 296107 P
DONLON, Jacob, S.	MINGIONE, Silvia	266728 P
GELLING, Victoria, J.	(31) MO20150082	187470 P
(31) 201662417193 P	(32) 16.04.2015	(32) 19.01.2010
(32) 03.11.2016	(33) Italy	04.12.2009
(33) United States of America	(51) A23G 1/40	16.06.2009
(51) A21B 5/02	A23G 1/56	(33) United States of America
A21B 1/26	A23D 7/005	United States of America
A21B 1/42	(11) EP3629752	United States of America
(11) EP3544437	(21) EP18808706.8	(51) A23L 27/30
(21) EP17800553.4	(47) 28.12.2022	A23L 27/00
(47) 28.12.2022	(87) AU2018050525	A23L 2/00
(87) EP2017079994	06.12.2018	A23L 2/60
31.05.2018	(22) 30.05.2018	(11) EP3766362
(22) 22.11.2017	(54) FOOD PRODUCT	(21) EP20170361.8
(54) BAKING DEVICE WITH A COOLED	(73) The Princeton Group Inc - C40917	(47) 28.12.2022
LONGITUDINAL BRACE	(72) TEW, Samuel Beng	(22) 03.10.2016
(73) Haas Food Equipment GmbH	HANNA, Mark Anthony	(54) METHOD OF PRODUCTION OF
(72) SACHSENHOFER, Johann	(31) 2017902052	STEVIOL GLYCOSIDE SWEETENERS
SÜSS, Daniel	(32) 30.05.2017	WITH IMPROVED FLAVOR PROFILES
JIRASCHEK, Stefan	(33) Australia	(73) The Coca-Cola Company
(31) 16455006	(51) A23L 7/143	PureCircle Sdn Bhd
(32) 22.11.2016	A23L 7/17	(72) PRAKASH, Indra
(33) European Patent Office (EPO)	A23L 7/191	JETTI, Rajesh
(51) A21D 13/00	A23L 19/15	TAN, Colin
A23P 20/12	A23L 33/125	MA, Gil
(11) EP2878209	A23L 33/12	MARKOSYAN, Avetik
(21) EP13195215.2	A23L 33/21	(31) 201562266174 P
(47) 28.12.2022	A23L 7/10	201562236362 P
(22) 30.11.2013	A23L 29/10	(32) 11.12.2015
(54) Process for the preparation of	A23L 29/256	02.10.2015
consumable compositions	A23L 33/10	(33) United States of America
(73) Symrise AG	A23L 33/14	United States of America
(72) Barnekow, Sylvia	(11) EP3741220	(51) A23N 1/00
Batalia, Martina	(21) EP19814704.3	A23N 1/02
Lindner, Ingo	(47) 28.12.2022	(11) EP3876756
(51) A22B 3/00	(87) CN2019089319	(21) EP19821199.7
A61D 7/04	12.12.2019	(47) 28.12.2022
(11) EP3473287	(22) 30.05.2019	(87) IB2019059621
		14.05.2020

(22) 08.11.2019	(22) 29.12.2020	(33) Japan
(54) MACHINE FOR EXTRACTING PUREE, OR JUICE, FROM FOOD PRODUCTS OF VEGETABLE OR ANIMAL ORIGIN, AND METHOD FOR WASHING SUCH MACHINE	(54) CARTRIDGE AND AEROSOL-GENERATING APPARATUS COMPRISING SAME	(51) A24F 40/53
(73) Bertocchi, Alessandro	(73) KT&G Corporation	A24F 40/65
(72) Bertocchi, Alessandro	(72) KI, Sung Jong	H04M 1/72412
(31) 201800010169	KIM, Young Joong	(11) EP3759897
(32) 08.11.2018	PARK, In Su	(21) EP19704811.9
(33) Italy	LEE, John Tae	(47) 28.12.2022
(51) A23P 10/00	JUNG, Sun Hwan	(87) EP2019053493
A23L 3/36	JEOUNG, Eun Mi	29.08.2019
A23L 3/005	(31) 20200023008	(22) 13.02.2019
A23L 3/365	(32) 25.02.2020	(54) SMOKING SUBSTITUTE DEVICE
(11) EP3466280	(33) Korea (Republic)	(73) Nerudia Ltd.
(21) EP17803122.5	(51) A24F 40/46	(72) FARD, Daniel
(47) 28.12.2022	A24F 40/70	TALBOT, Oliver
(87) KR2017005557	(11) EP3694358	(31) 201803024
30.11.2017	(21) EP18789349.0	(32) 26.02.2018
(22) 26.05.2017	(47) 28.12.2022	(33) United Kingdom
(54) METHOD FOR PREPARING PROCESSED FOOD	(87) EP2018077806	(51) A24F 40/53
(73) Cj Cheiljedang Corporation	18.04.2019	A61M 11/04
(72) CHO, Won Il	(22) 11.10.2018	A24F 40/465
LEE, Nam Ju	(54) FOLDED HEATER FOR ELECTRONIC VAPING DEVICE	A24F 40/20
LEE, Jong Il	(73) Philip Morris Products S.A.	(11) EP3731675
KANG, Dae Ik	(72) CROWE, William J.	(21) EP18833438.7
KIM, Seung Chul	DENDY, Charles L.	(47) 28.12.2022
KIM, Tae Hyeong	NEWCOMB, Christopher Ryan	(87) EP2018097072
PARK, Hee Joon	RUBLI, David	04.07.2019
CHOI, Yoon Jung	SUNDAR, Rangaraj S.	(22) 28.12.2018
(31) 20160065031	TUCKER, Christopher S.	(54) HEATING ASSEMBLY FOR A VAPOUR GENERATING DEVICE
(32) 26.05.2016	WEIGENSBERG, Isaac	(73) JT International SA
(33) Korea (Republic)	(31) 201715729909	(72) GILL, Mark
(51) A24B 15/30	(32) 11.10.2017	(31) 107147310
(11) EP3766364	(33) United States of America	17211201
(21) EP19806082.4	(51) A24F 40/46	(32) 27.12.2018
(47) 28.12.2022	A24F 40/85	29.12.2017
(87) CN2019088838	A24F 40/20	(33) Taiwan, Province of China
05.12.2019	(11) EP3806674	European Patent Office (EPO)
(22) 28.05.2019	(21) EP19731664.9	(51) A41D 19/00
(54) TOBACCO HUMECTANT, AND PREPARATION METHOD THEREFOR AND USE THEREOF	(47) 28.12.2022	(11) EP3977883
(73) China Tobacco Yunnan Industrial Co., Ltd	(87) EP2019065461	(21) EP20199187.4
(72) HAN, Jingmei	19.12.2019	(47) 28.12.2022
SHANG, Shanzhai	(54) AEROSOL-GENERATING DEVICE WITH PYROCATALYTIC MATERIAL	(22) 30.09.2020
WANG, Ru	(73) Philip Morris Products S.A.	(54) METHOD OF MANUFACTURING A GLOVE AND A GLOVE
LEI, Ping	(72) DESNERCK, Simon	(73) HOFLER OY
LI, Zhiqiang	VANCRAYNEST, Louis-Philippe	(72) LYYTINEN, Sami
WANG, Chengya	VAN LANCKER, Pieter	LYYTINEN, Tiia
SUN, Zhiyong	(31) 18177754	(51) A41F 1/00
CHEN, Yongkuan	(32) 14.06.2018	A44B 99/00
(31) 201810554378	(33) European Patent Office (EPO)	(11) EP3515224
(32) 01.06.2018	(51) A24F 40/51	(21) EP17783730.9
(33) China	A24F 40/57	(47) 28.12.2022
(51) A24F 40/46	A61M 11/04	(87) EP2017073898
A24F 40/465	G05D 23/19	29.03.2018
A24F 40/10	G05D 23/24	(22) 21.09.2017
A24F 40/42	(11) EP3815555	(54) CLOSURE DEVICE FOR CONNECTING TWO PARTS
A24F 40/51	(21) EP20204364.2	(73) Fidlock GmbH
H05B 6/10	(47) 28.12.2022	(72) HILLER, Lasse
(11) EP3892124	(22) 28.10.2020	BOTKUS, Breido
(21) EP20873339.4	(54) CONTROL DEVICE OF AEROSOL INHALER	FIEDLER, Joachim
(47) 28.12.2022	(73) JAPAN TOBACCO INC.	(31) 102016218267
(87) KR2020019301	(72) Marubashi, Keiji	(32) 22.09.2016
02.09.2021	(31) 2019195600	(33) Germany
	(32) 28.10.2019	(51) A42B 3/26
		A61F 9/02
		B08B 1/00

(11) EP3996538	(32) 27.05.2020	(11) EP3782504
(21) EP19739265.7	(33) Italy	(21) EP20184876.9
(47) 28.12.2022	(51) A43B 13/18	(47) 28.12.2022
(87) EP2019068515	A43B 13/26	(22) 09.07.2020
14.01.2021	A43D 86/00	(54) STORAGE BOX AND ELECTRONIC
(22) 10.07.2019	A43B 1/00	DEVICE
(54) A FILM ROLL, AND A FILM ADVANCE	A43B 13/22	(73) GUANGDONG OPPO MOBILE
SYSTEM AND PROTECTIVE	B29D 35/06	TELECOMMUNICATIONS CORP., LTD.
GOGGLES COMPRISING SUCH A FILM	B29D 35/12	(72) LIU, Jia
ROLL	A43B 13/14	(31) 201921347660 U
(73) Visiedge AB	A43B 13/16	(32) 19.08.2019
(72) GUSTAFSSON, André	(11) EP3476238	(33) China
(51) A43B 1/04	(21) EP18211880.2	(51) A45D 1/02
A43B 5/02	(47) 28.12.2022	F24C 3/14
A43B 7/20	(22) 26.02.2008	A45D 1/28
A43B 23/02	(54) ARTICLE OF FOOTWEAR HAVING A	A45D 2/00
A43B 23/04	POLYGON LUG SOLE PATTERN	F23K 5/00
(11) EP3905914	(73) NIKE Innovate C.V.	F23D 14/28
(21) EP19839788.7	(72) HATFIELD, Tobie	F23D 14/62
(47) 28.12.2022	AVAR, Eric	(11) EP3922128
(87) US2019068674	HOFFER, Kevin	(21) EP21188349.1
09.07.2020	(31) 89212907 P	(47) 28.12.2022
(22) 27.12.2019	(32) 28.02.2007	(22) 01.04.2016
(54) UPPER STRUCTURE OF AN ARTICLE	(33) United States of America	(54) PORTABLE HEATING SYSTEM
OF FOOTWEAR INCLUDING A CUFF	(51) A44B 11/25	(73) Schawbel Technologies LLC
MEMBER	A44B 11/26	(72) Winkler, Karl
(73) NIKE Innovate C.V.	A41F 9/00	Gibson, Mark
(72) COOPER, Aaron AC	A45F 5/02	(31) 201562158826 P
(31) 201862786708 P	(11) EP3716808	201562142866 P
(32) 31.12.2018	(21) EP18807277.1	(32) 08.05.2015
(33) United States of America	(47) 28.12.2022	03.04.2015
(51) A43B 5/02	(87) EP2018081792	(33) United States of America
A43B 5/00	06.06.2019	United States of America
A43B 23/08	(22) 19.11.2018	(51) A45D 1/06
A43B 5/18	(54) TOOL BELT	A45D 1/04
(11) EP3373761	(73) Husqvarna AB	A45D 20/10
(21) EP16864810.3	(72) HEINEMARK, Carl	A45D 20/12
(47) 28.12.2022	ARVIDSSON, Mikael	A45D 20/50
(87) US2016060745	(31) 1751470	(11) EP3941307
18.05.2017	(32) 30.11.2017	(21) EP20709668.6
(22) 06.11.2016	(33) Sweden	(47) 28.12.2022
(54) AN ARTICLE OF FOOTWEAR	(51) A44C 5/18	(87) GB2020050444
DESIGNED TO IMPART CONTROLLED	A44C 5/24	01.10.2020
SPIN ON A BALL WHEN KICKED WITH	(11) EP3669693	(22) 25.02.2020
THE TOES	(21) EP18215267.8	(54) A HAIR STYLING APPLIANCE
(73) Fraser, Neil Richard	(47) 28.12.2022	(73) DYSON TECHNOLOGY LIMITED
(72) Fraser, Neil Richard	(22) 21.12.2018	(72) BEAUMONT, Rory
(31) 201662287941 P	(54) CLASP AND ATTACHMENT SYSTEM	COURTNEY, Stephen
201562254819 P	(73) Patek Philippe SA Genève	BALLARATI, Maurizio
(32) 28.01.2016	(72) Le Gall, Eric	HUGHES, Alexander
13.11.2015	(51) A45C 5/03	COULTON, Robert
(33) United States of America	A45C 5/00	(31) 201903959
United States of America	A45C 13/00	(32) 22.03.2019
(51) A43B 5/04	A45C 13/36	(33) United Kingdom
A63C 9/08	A45F 3/04	(51) A45D 20/12
A63C 9/085	(11) EP3219223	(11) EP3995032
A63C 9/086	(21) EP15201778.6	(21) EP21175459.3
(11) EP3915423	(47) 28.12.2022	(47) 28.12.2022
(21) EP21175727.3	(22) 21.12.2015	(22) 21.05.2021
(47) 28.12.2022	(54) CARRYING CASE	(54) WIRELESS BLOW DRYER
(22) 25.05.2021	(73) Kabushiki Kaisha Topcon	(73) Shenzhen Carku Technology Co., Limited
(54) FRONT INSERT FOR A SKI	(72) AOKI, Takeo	(72) LEI, Yun
MOUNTAINEERING SKI BOOT, FOR	(31) 2015166171	LIU, Chuwei
HOOKING THE SKI BOOT TO A SKI	(32) 25.08.2015	ZHANG, Yubin
MOUNTAINEERING BINDING	(33) Japan	(31) 202022593049 U
(73) ATK SPORTS S.R.L.	(51) A45C 13/10	202011251313
(72) INDULTI, Davide	A45C 11/00	(32) 10.11.2020
(31) 202000012502		10.11.2020

(33) China	(11) EP4041025	Dewert, Eckhart
China	(21) EP20776185.9	(31) 102017126092
(51) A45D 40/00	(47) 28.12.2022	102017122499
B65D 77/04	(87) EP2020077150	(32) 08.11.2017
B65D 81/32	15.04.2021	27.09.2017
B65D 81/38	(22) 28.09.2020	(33) Germany
(11) EP3939472	(54) A TOOTHBRUSH	Germany
(21) EP21171972.9	(73) Unilever IP Holdings B.V.	(51) A47F 3/04
(47) 28.12.2022	(72) NEELY, Deborah, Elizabeth	(11) EP2944230
(22) 04.05.2021	(31) 19201797	(21) EP15175394.4
(54) GLASS CONTAINER	(32) 07.10.2019	(47) 28.12.2022
(73) Bormioli Luigi S.p.A.	(33) European Patent Office (EPO)	(22) 24.09.2012
(72) FAVA, Emanuela	(51) A47B 57/40	(54) REFRIGERATED SALES CABINET
UGOLOTTI, Luca	(11) EP3552518	(73) Carrier Corporation
SANCHEZ GARCIA, Alberto Juan	(21) EP19168846.4	(72) Mille, Sophie
(31) 202000017410	(47) 28.12.2022	Wang, Zheng Yu
(32) 17.07.2020	(22) 12.04.2019	(51) A47F 3/04
(33) Italy	(54) SHELVING	F25D 23/08
(51) A45D 40/04	(73) Grima S.R.L.	F25D 23/02
A45D 40/06	(72) MONTALBETTI, Marco	(11) EP2770882
(11) EP3297492	(31) 201800004428	(21) EP12778620.0
(21) EP16733135.4	(32) 12.04.2018	(47) 28.12.2022
(47) 28.12.2022	(33) Italy	(87) EP2012004218
(87) FR2016051145	(51) A47B 96/20	02.05.2013
24.11.2016	E05D 15/40	(22) 09.10.2012
(22) 13.05.2016	E05F 1/10	(54) REFRIGERATING AND/OR FREEZING
(54) MECHANICAL RETAINING MEANS OF	(11) EP3833222	APPLIANCE
A COSMETICS CASE	(21) EP19752464.8	(73) REHAU Industries SE & Co. KG
(73) Reboul S.A.S.	(47) 28.12.2022	(72) OTT, Michael
(72) VACHERON, Frédéric	(87) EP2019071040	(31) 202011051763 U
DOMY, Michel	13.02.2020	(32) 26.10.2011
(31) 1554421	(22) 05.08.2019	(33) Germany
(32) 18.05.2015	(54) METHOD FOR PRODUCING A WALL	(51) A47F 11/04
(33) France	FOR A PIECE OF FURNITURE	A47G 1/02
(51) A45D 40/06	(73) ambigence GmbH & Co. KG	A45D 44/00
(11) EP3878311	(72) ANDSCHUS, Stefan	(11) EP3518710
(21) EP21161533.1	(31) 102018119539	(21) EP17771475.5
(47) 28.12.2022	(32) 10.08.2018	(47) 28.12.2022
(22) 09.03.2021	(33) Germany	(87) EP2017074469
(54) LIPSTICK MACHINE FOR LIPS	(51) A47C 3/025	05.04.2018
(73) Lumson S.p.A.	A63F 13/285	(22) 27.09.2017
(72) MORETTI, Matteo	A63F 13/90	(54) APPARATUS AND METHOD FOR
(31) 202000005209	G06F 3/01	SUPPORTING AT LEAST ONE USER
(32) 11.03.2020	(11) EP3883429	IN PERFORMING A PERSONAL CARE
(33) Italy	(21) EP19850771.7	ACTIVITY
(51) A45F 3/16	(47) 28.12.2022	(73) Koninklijke Philips N.V.
A45F 3/18	(87) HU2019050052	(72) LAWRENSON, Matthew, John
A45F 3/20	28.05.2020	GEURTS, Lucas, Jacobus, Franciscus
B65D 21/08	(22) 20.11.2019	BUIL, Vincentius, Paulus
(11) EP3456219	(54) COLLAPSIBLE HANGING CHAIR	(31) 16190721
(21) EP18186457.0	AND VIRTUAL REALITY SIMULATOR	(32) 27.09.2016
(47) 28.12.2022	COMPRISING SUCH HANGING CHAIR	(33) European Patent Office (EPO)
(22) 06.03.2013	(73) Szabolcs, János	(51) A47G 7/04
(54) FLEXIBLE CONTAINER	(72) Szabolcs, János	A47G 7/08
(73) Hydrapak LLC	(31) 1800395	A47G 29/20
(72) Lyon, Matthew J.	(32) 22.11.2018	A01G 9/02
Lopez, Samuel M.	(33) Hungary	A47G 29/14
(31) 201261668918 P	(51) A47C 23/06	A47G 29/30
201261658562 P	A47C 31/12	(11) EP3801140
201261607507 P	A47C 20/04	(21) EP19737188.3
(32) 06.07.2012	A61H 15/00	(47) 28.12.2022
12.06.2012	(11) EP3704993	(87) GB2019051474
06.03.2012	(21) EP20165962.0	05.12.2019
(33) United States of America	(47) 28.12.2022	(22) 30.05.2019
United States of America	(22) 02.08.2018	(54) PARCEL STORAGE BOX
United States of America	(54) SUPPORT DEVICE	(73) Parcercert Limited
(51) A46B 5/00	(73) de Werth Group AG	(72) PILLMAN, Lauren Elizabeth
	(72) Schneider, Johannes	CHAPMAN, Luke Adam

(31) 201808775	(11) EP3945964	(22) 10.03.2020
(32) 30.05.2018	(21) EP20712976.8	(54) MODULAR SEAT/BED CONVERSION
(33) United Kingdom	(47) 28.12.2022	ASSEMBLY FOR RECREATIONAL
(51) A47G 23/02	(87) EP2020058322	VEHICLE
(11) EP3190932	01.10.2020	(73) Storyteller Overland, LLC
(21) EP15787439.7	(22) 25.03.2020	(72) HUNTER, Jeffrey
(47) 28.12.2022	(54) FLOATING PARTICLES REMOVAL	FREYERMUTH, Dan
(87) DE2015100392	WITHIN A FOOD FRYER	DONALDSON, Adam
17.03.2016	(73) GEA Food Solutions Bakel B.V.	ISBELL, Mark
(22) 14.09.2015	(72) VAN GERWEN, Hendrikus Petrus	LANG, Brent
(54) DRINKING VESSEL COMPRISING A	Gerardus	SLATER, Dave
COMPENSATING BODY	(31) 19165227	(31) 201962816571 P
(73) iuvas medical GmbH	(32) 26.03.2019	(32) 11.03.2019
(72) FEHRENBACH, David	(33) European Patent Office (EPO)	(33) United States of America
DENEMEC, Sinan	(51) A47J 43/04	(51) A47L 5/24
KNOBLAUCH, Moritz	A47J 43/07	A47L 9/16
(31) 202014104460 U	(11) EP3329816	A47L 9/28
202014007466 U	(21) EP16832363.2	A47L 5/12
(32) 18.09.2014	(47) 28.12.2022	A47L 9/10
13.09.2014	(87) ES2016000083	A47L 9/14
(33) Germany	09.02.2017	A47L 9/24
Germany	(22) 22.07.2016	A47L 9/32
(51) A47J 31/00	(54) COOKING APPLIANCE FOR	(11) EP3641611
(11) EP3344096	PROCESSING FOOD	(21) EP18732144.3
(21) EP16775874.7	(73) Sammic, S.L.	(47) 28.12.2022
(47) 28.12.2022	(72) GOGORZA SEGUROLA, Aitor	(87) GB2018051654
(87) NL2016050612	CHEN, Chao	27.12.2018
09.03.2017	(31) 201500579	(22) 15.06.2018
(22) 01.09.2016	(32) 31.07.2015	(54) A SURFACE CLEANING APPARATUS
(54) DISPENSING DEVICE FOR	(33) Spain	(73) Techronic Floor Care Technology Limited
DISPENSING A HOT DRINK	(51) A47J 43/046	(72) POUGHIER, Simon Matthew
(73) Quooker International B.V.	(11) EP3386360	HOLMES, Darren
(72) PETERI, Niels Theodoor	(21) EP16819999.0	WATERS, Richard
(31) 2015386	(47) 28.12.2022	JAANUS, Anna
(32) 01.09.2015	(87) FR2016053283	CASELLA, Jose
(33) Netherlands	15.06.2017	(31) 201720294
(51) A47J 31/06	(22) 08.12.2016	201720282
A47J 31/44	(54) FOOD PREPARATION DEVICE	PCT/GB2017/051788
(11) EP2918197	(73) ADIAMAS	PCT/GB2017/051786
(21) EP15157119.7	(72) HERAULT, Erwan	(32) 05.12.2017
(47) 28.12.2022	RONZE, Fabien	05.12.2017
(22) 02.03.2015	JANVIER, Patrick	19.06.2017
(54) Filter holder assembly, filter holder coffee	MONDIERE, Julien	19.06.2017
machine and discharge insert	(31) 1562124	(33) United Kingdom
(73) WMF GmbH	(32) 10.12.2015	United Kingdom
(72) Göltenboth, Frank	(33) France	World Intellectual Property Office (WIPO)
(31) 102014204487	(51) A47J 43/07	World Intellectual Property Office (WIPO)
(32) 11.03.2014	(11) EP3774010	(51) A47L 9/10
(33) Germany	(21) EP19709726.4	A47L 9/16
(51) A47J 31/44	(47) 28.12.2022	(11) EP3443879
A47J 31/40	(87) EP2019055920	(21) EP17782680.7
(11) EP3764857	03.10.2019	(47) 28.12.2022
(21) EP19709881.7	(22) 08.03.2019	(87) KR2017004012
(47) 28.12.2022	(54) MIXING TOOL FOR A FOOD	19.10.2017
(87) EP2019055486	PREPARATION APPLIANCE	(22) 13.04.2017
19.09.2019	(73) SEB S.A.	(54) DUST COLLECTOR
(22) 06.03.2019	(72) GASC, Stéphanie	(73) LG Electronics Inc.
(54) METHOD AND DEVICE FOR	BERTRAND, Nicolas	(72) HYUN, Kietak
PRODUCING MILK-AIR EMULSIONS	BESSE, Aurélie	AHN, Hyukjin
(73) Melitta Professional Coffee Solutions	(31) 1852704	LEE, Hyungsoon
GmbH & Co. KG	(32) 28.03.2018	(31) 20160045744
(72) DIESTER, Thomas	(33) France	(32) 14.04.2016
BUCHHOLZ, Bernd	(51) A47K 3/32	(33) Korea (Republic)
(31) 102018106032	B60R 15/02	(51) A47L 9/19
(32) 15.03.2018	B60P 3/34	A47L 9/20
(33) Germany	(11) EP3954260	(11) EP3485783
(51) A47J 37/12	(21) EP21197493.6	(21) EP18203154.2
	(47) 28.12.2022	(47) 28.12.2022

(22) 29.10.2018	(47) 28.12.2022	(21) EP18808069.1
(54) FLOOR VACUUM CLEANER AND METHOD FOR OPERATING A FLOOR VACUUM CLEANER	(87) JP2017039124 01.02.2018	(47) 28.12.2022
(73) BSH Hausgeräte GmbH	(22) 30.10.2017	(87) GB2018053300 23.05.2019
(72) Hassfurter, Stefan Kirsch, Veronika Rheinsberg, Christopher	(54) CONNECTOR DEVICE FOR ENDOSCOPES	(22) 14.11.2018
(31) 102017220313	(73) FUJIFILM Corporation	(54) MULTIFUNCTIONAL VISUALIZATION INSTRUMENT
(32) 15.11.2017	(72) YAMADA, Hideyuki	(73) Covidien AG
(33) Germany	KUWAE, Toshiharu	(72) INGLIS, Peter Douglas Colin
(51) A47L 9/32	TORISAWA, Nobuyuki	MCGRATH, Matthew John Ross
A47L 9/16	DEJIMA, Takumi	NG, Michael
A47L 9/22	(31) 201762552399 P	YANG, Hua
A47L 9/28	(32) 31.08.2017	MAY, Rhea Marie
A47L 5/24	(33) United States of America	GANO, Andrew J
A47L 5/26	(51) A61B 1/00	(31) 201816188749 201862674728 P 201862636534 P 201762586231 P
A47L 5/22	G06F 13/38	(32) 13.11.2018
(11) EP3491990	G06F 13/42	22.05.2018
(21) EP17834417.2	A61B 3/00	28.02.2018
(47) 28.12.2022	(11) EP3863497	15.11.2017
(87) JP2017027063 01.02.2018	(21) EP19773466.8	(33) United States of America
(22) 26.07.2017	(47) 28.12.2022	United States of America
(54) ELECTRIC CLEANER	(87) EP2019076255 16.04.2020	United States of America
(73) Toshiba Lifestyle Products & Services Corporation	(22) 27.09.2019	United States of America
(72) ABE, Yusuke	(54) SYSTEM FOR CONTROLLING AT LEAST ONE EYESIGHT TESTING DEVICE AND ASSOCIATED METHOD	(51) A61B 3/10
MACHIDA, Yukio	(73) Siview SAS	G01B 9/02
MANO, Fumiki	(72) GUILLEMAIN, Nathalie	G01B 9/02015
SHINAGAWA, Naoko	(31) 1859396	G01B 9/02091
SHIMIZU, Takayoshi	(32) 10.10.2018	(11) EP3742956
(31) 2016148828	(33) France	(21) EP19701842.7
(32) 28.07.2016	(51) A61B 1/005	(47) 28.12.2022
(33) Japan	A61M 25/01	(87) EP2019051816 01.08.2019
(51) A47L 15/42	A61B 1/00	(22) 25.01.2019
A47L 15/00	(11) EP3824794	(54) METHOD FOR GENERATING A TWO-DIMENSIONAL INTERFEROGRAM USING A MICHELSON-TYPE FREE BEAM INTERFEROMETER
(11) EP3434168	(21) EP19210433.9	(73) Visotec GmbH
(21) EP17183487.2	(47) 28.12.2022	(72) MÜNST, Michael
(47) 28.12.2022	(22) 20.11.2019	SUDKAMP, Helge
(22) 27.07.2017	(54) HANDLE FOR ENDSCOPE, ENDSCOPE COMPRISING SUCH A HANDLE AND METHOD FOR ARRANGING SUCH A HANDLE ON AN ENDSCOPE	KOCH, Peter
(54) DISHWASHER, METHOD OF OPERATING A DISHWASHER, AND COMPUTER PROGRAM	(73) ATMOS MedizinTechnik GmbH & Co. KG	HÜTTMANN, Gereon
(73) Vestel Elektronik Sanayi ve Ticaret A.S.	(72) Maik, Greiser	(31) 102018101768
(72) ÖZEL, Ahmet	(51) A61B 1/018	(32) 26.01.2018
(51) A61B 1/00	A61B 1/00	(33) Germany
A61B 1/31	A61B 17/00	(51) A61B 3/10
(11) EP3478150	(11) EP3324821	G02C 7/04
(21) EP18759231.6	(21) EP16816038.0	G02C 7/08
(47) 28.12.2022	(47) 28.12.2022	G06F 3/044
(87) CN2018085972 28.03.2019	(87) US2016063129 26.05.2017	G02C 11/00
(22) 08.05.2018	(22) 21.11.2016	G06F 3/01
(54) ENDOSCOPIC SYSTEM	(54) ACTUATION HANDLE FOR ACCESSORY DEVICES	(11) EP3491460
(73) Bio-Medical Engineering (HK) Limited	(73) Boston Scientific Scimed, Inc.	(21) EP17745546.6
(72) YEUNG, Chung Kwong LAM, Wing Fai	(72) YEE, Catherine, Shimin	(47) 28.12.2022
(31) 201815972094	RYAN, Shawn	(87) US2017040270 01.02.2018
201715710555	MAY, Norman	(22) 30.06.2017
(32) 04.05.2018	SUON, Naroun	(54) DEVICE SYSTEM AND METHOD FOR DETECTING OVERLAP OF AN OPHTHALMIC DEVICE BY AN EYELID
20.09.2017	(31) 201562258107 P	(73) Verily Life Sciences LLC
(33) United States of America	(32) 20.11.2015	(72) LEE, Shungeng
United States of America	(33) United States of America	JOW, Uei-ming
(51) A61B 1/00	(51) A61B 1/267	PLETCHER, Nathan
A61L 29/02	A61B 1/00	(31) 201615221522
(11) EP3677163	(11) EP3687371	
(21) EP17834583.1		

(32) 27.07.2016	ALASAARELA, Esko	Japan
(33) United States of America	ILO, Arjaleena	(51) A61B 5/00
(51) A61B 3/113	LUTTINEN, Rami	A61M 1/00
G06F 3/01	(31) 20175190	A61B 5/145
(11) EP3154410	(32) 01.03.2017	(11) EP3143925
(21) EP15753167.4	(33) Finland	(21) EP15306462.1
(47) 28.12.2022	(51) A61B 5/00	(47) 28.12.2022
(87) IB2015054478	A61B 5/0205	(22) 18.09.2015
17.12.2015	A61B 5/145	(54) SYSTEM FOR EARLY DETECTION OF
(22) 12.06.2015	A61B 5/1486	POST-SURGERY INFECTION
(54) DEVICE AND METHOD OF	G06F 1/16	(73) Sofradim Production
CALIBRATION FOR AN EYE TRACKER	(11) EP3275362	(72) BAYON, Yves
AND EYE CONTROL EQUIPMENT	(21) EP16181681.4	(51) A61B 5/00
COMPRISING SAID CALIBRATION	(47) 28.12.2022	A61N 1/36
DEVICE	(22) 28.07.2016	(11) EP2563462
(73) SR Labs S.R.L.	(54) DEVICE FOR MONITORING A	(21) EP11775539.7
(72) INVERNIZZI, Paolo	CONDITION OF A LIVING BEING	(47) 28.12.2022
(31) MI20141074	(73) Fraunhofer-Gesellschaft zur Förderung	(87) US2011034203
(32) 12.06.2014	der angewandten Forschung e.V.	03.11.2011
(33) Italy	(72) Bertsch, Thomas	(22) 27.04.2011
(51) A61B 3/13	Langenstein, Bernd	(54) DEVICE FOR DETECTING A PAIN
G02B 21/00	Jank, Michael	SIGNATURE BASED ON CHANGES IN
G02B 21/22	Oertel, Susanne	BURST FIRING
(11) EP3609385	Lang, Nadine Ramona	(73) RHODE ISLAND HOSPITAL
(21) EP18720784.0	Struck, Matthias	(72) SAAB, Carl, Y.
(47) 28.12.2022	Renner, Esther Ann	(31) 328583 P
(87) IB2018052383	Hofmann, Christian	(32) 27.04.2010
18.10.2018	(51) A61B 5/00	(33) United States of America
(22) 05.04.2018	A61B 5/06	(51) A61B 5/00
(54) ANTI-PARALLAX CORRECTION OF	A61B 5/103	G01N 21/25
STEREOSCOPIIC SURGICAL IMAGES	A61B 8/00	A61B 5/145
(73) Alcon Inc.	A61B 8/08	A61B 5/1455
(72) JOCHINSEN, Mauricio	A61B 17/17	(11) EP3573521
(31) 201762485515 P	G01S 5/16	(21) EP18771715.2
(32) 14.04.2017	G01S 15/89	(47) 28.12.2022
(33) United States of America	A61B 90/00	(87) US2018023856
(51) A61B 5/00	(11) EP3791779	27.09.2018
(11) EP3513708	(21) EP20203709.9	(22) 22.03.2018
(21) EP18204725.8	(47) 28.12.2022	(54) SYSTEMS FOR ASSESSING DIABETIC
(47) 28.12.2022	(22) 04.02.2014	CIRCULATORY COMPLICATIONS
(22) 01.09.2006	(54) METHOD FOR 3D RECONSTRUCTION	(73) Modulated Imaging Inc.
(54) SYSTEMS AND METHODS FOR	OF A JOINT USING ULTRASOUND	(72) CUCCIA, David
PROCESSING ANALYTE SENSOR	(73) Jointvue, LLC	MAZHAR, Amaan
DATA	(72) MAHFOUZ, Mohamed R.	(31) 201762475059 P
(73) Dexcom, Inc.	WASIELEWSKI, Ray C.	(32) 22.03.2017
(72) Kamath, Apurv	(31) 201313758151	(33) United States of America
Dobbles, Michael J.	(32) 04.02.2013	(51) A61B 5/022
Mahalingam, Aarthi	(33) United States of America	A61B 5/0235
Li, Ying	(51) A61B 5/00	(11) EP3479762
(31) 49841006	A61B 5/145	(21) EP18201151.0
37362806	A61B 5/1455	(47) 28.12.2022
(32) 02.08.2006	(11) EP3427644	(22) 18.10.2018
09.03.2006	(21) EP18183104.1	(54) WEARABLE BLOOD PRESSURE
(33) United States of America	(47) 28.12.2022	MEASURING DEVICE
United States of America	(22) 12.07.2018	(73) Microjet Technology Co., Ltd
(51) A61B 5/00	(54) CONCENTRATION MEASURING	(72) Mou, Hao-Jan
A61B 5/01	MODULE, DIALYZER, AND	Hsueh, Ta-Wei
(11) EP3589190	CONCENTRATION CALCULATING	Han, Yung-Lung
(21) EP18716649.1	METHOD	Huang, Chi-Feng
(47) 28.12.2022	(73) ASahi KASEI KABUSHIKI KAISHA	Lee, Wei-Ming
(87) FI2018050152	(72) Sugiyama, Sho	Chen, Hsuan-Kai
07.09.2018	Miya, Shinji	(31) 106138514
(22) 01.03.2018	Yamaha, Yoshiro	(32) 07.11.2017
(54) MULTIMODAL MEDICAL IMAGING AND	(31) 2018112777	(33) Taiwan, Province of China
ANALYZING SYSTEM, METHOD AND	2017138412	(51) A61B 5/07
SERVER	(32) 13.06.2018	A61B 5/1486
(73) TherMidas Oy	14.07.2017	A61B 5/00
(72) IHME, Jouni	(33) Japan	

A61B 5/145	(72) ZHANG, Libo	13.03.2014
(11) EP3515287	CUI, Chengzhe	(22) 15.03.2013
(21) EP17765297.1	(31) 202010189142	(54) APPARATUS FOR PARTIAL CT
(47) 28.12.2022	(32) 18.03.2020	IMAGING
(87) US2017048664	(33) China	(73) Trophy
29.03.2018	(51) A61B 5/15	(72) BOTHEREL, Sylvie
(22) 25.08.2017	A61B 5/153	LOUSTAUNEAU, Vincent
(54) SYSTEMS FOR ACTIVATING A	A61B 5/145	MAURY, Colombe
CIRCUIT OF AN IMPLANT DEVICE	A61M 25/00	INGLESE, Jean-Marc
(73) Verily Life Sciences LLC	(11) EP3852629	(31) 201261736025 P
(72) DASTGHEIB, Alireza	(21) EP19828853.2	201261698061 P
VANDERHAEGEN, Johan	(47) 28.12.2022	(32) 12.12.2012
(31) 201662397582 P	(87) NL2019050637	07.09.2012
(32) 21.09.2016	26.03.2020	(33) United States of America
(33) United States of America	(22) 23.09.2019	United States of America
(51) A61B 5/091	(54) DEVICE FOR COLLECTING SPECIMEN	(51) A61B 6/12
A61B 5/02	IN A FLUID	A61B 6/00
A61B 5/08	(73) Idris Oncology B.V.	A61B 6/10
A61B 5/00	(72) WIEGMAN, Peter Immanuel	A61B 8/00
A61B 5/113	MULDER, Hans Peter	(11) EP3687409
A61B 7/04	(31) 1043006	(21) EP18770047.1
A61B 7/00	(32) 21.09.2018	(47) 28.12.2022
A61B 5/0205	(33) Netherlands	(87) EP2018075912
(11) EP3142546	(51) A61B 5/22	04.04.2019
(21) EP15792464.8	A61B 5/00	(22) 25.09.2018
(47) 28.12.2022	A63B 21/00	(54) SYSTEM AND METHOD FOR
(87) US2015031021	A63B 23/12	POSITIONING A MOBILE MEDICAL
19.11.2015	A63B 24/00	IMAGING SYSTEM
(22) 15.05.2015	A63B 71/06	(73) Koninklijke Philips N.V.
(54) MULTISENSOR PHYSIOLOGICAL	A63B 22/00	(72) AGRAHARI, Shailesh, Kumar
MONITORING SYSTEM	(11) EP3469987	BHAT, Ravindra
(73) The Regents of the University of	(21) EP17196360.6	AGRAHARI, Amit
California	(47) 28.12.2022	(31) 17193396
(72) MAHAJAN, Aman	(22) 13.10.2017	(32) 27.09.2017
KAISER, William	(54) MEASURING METHOD FOR MAXIMUM	(33) European Patent Office (EPO)
(31) 201461993876 P	MUSCLE STRENGTH	(51) A61B 6/14
(32) 15.05.2014	(73) Strength Master Fitness Tech. Co., Ltd.	A61B 6/00
(33) United States of America	(72) Su, Ming-Chu	A61B 8/00
(51) A61B 5/15	Wu, Shu-Yao	A61B 6/02
(11) EP3681384	Chang, Pei-Hsuan	(11) EP3730057
(21) EP18855938.9	(51) A61B 6/00	(21) EP19171428.6
(47) 28.12.2022	A61K 31/132	(47) 28.12.2022
(87) US2018050621	A61K 31/145	(22) 26.04.2019
21.03.2019	A61K 31/355	(54) METHOD AND APPARATUS FOR
(22) 12.09.2018	A61K 33/04	GENERATING A PANORAMIC LAYER
(54) A SYSTEM	A61K 45/06	IMAGE
(73) Magnolia Medical Technologies, Inc.	A61K 31/661	(73) Sirona Dental Systems GmbH
(72) BULLINGTON, Gregory J.	A61P 39/06	DENTSPLY SIRONA Inc.
MIAZGA, Jay M.	(11) EP3632419	(72) Schulze-Ganzlin, Ulrich
GAW, Shan E.	(21) EP19194979.1	Eichner, Stefan
RAMSEY, Timothy F.	(47) 28.12.2022	Elvers, Michael
(31) 201862678632 P	(22) 16.09.2011	(51) A61B 8/00
201862634569 P	(54) METHODS AND COMPOSITIONS	A61B 8/14
201762557530 P	FOR PROTECTION OF CELLS	A61B 8/08
(32) 31.05.2018	AND TISSUES FROM COMPUTED	(11) EP3409208
23.02.2018	TOMOGRAPHY RADIATION	(21) EP16888256.1
12.09.2017	(73) The University of Chicago	(47) 28.12.2022
(33) United States of America	(72) GRDINA, David	(87) KR2016002223
United States of America	(31) 38359210 P	03.08.2017
United States of America	(32) 16.09.2010	(22) 07.03.2016
(51) A61B 5/15	(33) United States of America	(54) ULTRASOUND PROBE AND
A61B 5/151	(51) A61B 6/06	ULTRASOUND DIAGNOSIS SYSTEM
(11) EP3881763	A61B 6/14	INCLUDING SAME
(21) EP21163524.8	A61B 6/00	(73) Samsung Medison Co., Ltd.
(47) 28.12.2022	(11) EP2892432	(72) JIN, Gil-ju
(22) 18.03.2021	(21) EP13732221.0	HAN, Ho-san
(54) BLOOD COLLECTION DEVICE	(47) 28.12.2022	KIM, Dong-hyun
(73) Tianjin Huahong Technology Co., Ltd.	(87) IB2013000952	AHN, Mi-jeoung

(31) 20160010716	(11) EP3490460	SONMEZ, Merdim
(32) 28.01.2016	(21) EP17833621.0	FRANSON, Dominique, N.
(33) Korea (Republic)	(47) 28.12.2022	KOCATURK, Ozgur
(51) A61B 8/08	(87) DK2017050251	(31) 201361834357 P
(11) EP3164079	01.02.2018	(32) 12.06.2013
(21) EP15750456.4	(22) 28.07.2017	(33) United States of America
(47) 28.12.2022	(54) METHOD FOR SAMPLING URINE AND	(51) A61B 17/04
(87) IB2015054945	COLLECTOR THEREFORE	A61F 2/00
07.01.2016	(73) GPMD APS	A61B 17/06
(22) 01.07.2015	(72) HEDEGAARD, Henning	A61B 17/00
(54) LESION SIGNATURE TO	(31) 201662368260 P	A61B 17/062
CHARACTERIZE PATHOLOGY FOR	(32) 29.07.2016	(11) EP3795091
SPECIFIC SUBJECT	(33) United States of America	(21) EP20202729.8
(73) Koninklijke Philips N.V.	(51) A61B 10/00	(47) 28.12.2022
(72) JAGO, James Robertson	A61B 3/113	(22) 16.11.2009
GAUTHIER, Thomas Patrice Jean	A61B 3/00	(54) INSERTION DEVICE FOR DELIVERY
Arsene	A61B 3/032	OF A MESH CARRIER
NG, Gary Cheng-How	A61B 3/15	(73) Boston Scientific Scimed, Inc.
(31) 201462019926 P	A61B 5/107	(72) CHU, Michael S. H.
(32) 02.07.2014	A61B 5/00	(31) 549704
(33) United States of America	(11) EP3884873	120105 P
(51) A61B 8/08	(21) EP19903084.2	(32) 28.08.2009
G06N 99/00	(47) 28.12.2022	05.12.2008
G06K 9/62	(87) JP2019035717	(33) United States of America
G06N 3/02	02.07.2020	United States of America
G06N 7/00	(22) 11.09.2019	(51) A61B 17/068
G06N 20/00	(54) EVALUATION DEVICE, EVALUATION	A61B 17/064
G06N 3/04	METHOD, AND EVALUATION	A61B 90/00
G06N 3/08	PROGRAM	(11) EP2870927
G06T 7/00	(73) JVC Kenwood Corporation	(21) EP14192136.1
G06T 7/11	(72) SHUDO, Katsuyuki	(47) 28.12.2022
G06V 10/44	(31) 2018247350	(22) 06.11.2014
G06V 10/82	(32) 28.12.2018	(54) SURGICAL FASTENER
(11) EP3643246	(33) Japan	(73) C.R. BARD, INC.
(21) EP18820722.9	(51) A61B 10/02	(72) Ranucci, Kevin J.
(47) 28.12.2022	A61M 25/01	Gupta, Saurav V.
(87) KR2018007140	A61M 25/00	(31) 201314075441
27.12.2018	A61B 34/20	(32) 08.11.2013
(22) 25.06.2018	A61B 34/30	(33) United States of America
(54) METHOD FOR PROCESSING	A61B 90/00	(51) A61B 17/072
ULTRASONIC IMAGE	A61B 90/30	(11) EP3673821
(73) T3Q CO., LTD.	(11) EP3459488	(21) EP19219068.4
(72) KIM, Eun, Na	(21) EP18204688.8	(47) 28.12.2022
KIM, Chong, Jai	(47) 28.12.2022	(22) 20.12.2019
SUNG, Chang, Ohk	(22) 03.09.2015	(54) ADHESIVE DISTRIBUTION ON
(31) 20180072164	(54) SYSTEM WITH GUIDES AND TOOLS	BUTTRESS FOR SURGICAL STAPLER
20170079891	OF DIFFERENT FLEXIBILITY	(73) Ethicon LLC
(32) 22.06.2018	(73) Intuitive Surgical Operations Inc.	(72) MCGIVERON, Omar Z.
23.06.2017	(72) AU, Samuel Kwok Wai	VENDELY, Michael J.
(33) Korea (Republic)	(31) 201462048210 P	WONG, Jordan B.
Korea (Republic)	(32) 09.09.2014	RIDGLEY, Pamela M.
(51) A61B 8/14	(33) United States of America	SCHELLIN, Emily A.
(11) EP3057511	(51) A61B 17/00	SPATHOLT, Rebecca
(21) EP14854355.6	A61F 2/24	STRANG, Heather
(47) 28.12.2022	(11) EP3007649	(31) 201816235473
(87) US2014060207	(21) EP14735030.0	(32) 28.12.2018
23.04.2015	(47) 28.12.2022	(33) United States of America
(22) 12.10.2014	(87) US2014040716	(51) A61B 17/072
(54) ENDOESOPHAGEAL BALLOON	18.12.2014	(11) EP3150133
CATHETER AND SYSTEM	(22) 03.06.2014	(21) EP16191652.3
(73) Adagio Medical, Inc.	(54) ENCIRCLING IMPLANT DELIVERY	(47) 28.12.2022
(72) BABKIN, Alexei	SYSTEMS AND METHODS	(22) 30.09.2016
LITTRUP, Peter	(73) The United States of America, as	(54) WOVEN CONSTRUCTS WITH
KOVALCHECK, Steven	represented by The Secretary,	INTERLOCKED STANDING FIBERS
(31) 201361890835 P	Department of Health and Human	(73) Ethicon LLC
(32) 14.10.2013	Services	(72) HARRIS, Jason L.
(33) United States of America	(72) ROGERS, Toby	SHELTON, IV, Frederick E
(51) A61B 10/00	LEDERMAN, Robert, J.	VENDELY, Michael J.

RANSICK, Mark H.	United States of America	(22) 26.06.2020
GOLDREIN, Howell T.	(51) A61B 17/072	(54) SEAL ASSEMBLIES FOR SURGICAL ACCESS ASSEMBLIES
MOIR, Robert S.	A61B 17/29	
CONSONNI, Sofia Maria	A61B 90/00	(73) Covidien LP
AKRAM, Ismail	(11) EP3338677	(72) PILLETERE, Roy
EASTER, Ashley D.	(21) EP17209425.2	DININO, Matthew
LATHAM, Helen S.	(47) 28.12.2022	EBERSOLE, Garrett
(31) 201514871089	(22) 21.12.2017	DESJARDIN, Kevin
(32) 30.09.2015	(54) SURGICAL TOOL ASSEMBLIES WITH CLOSURE STROKE REDUCTION FEATURES	THOMAS, Justin
(33) United States of America	(73) Ethicon LLC	BARIL, Jacob
(51) A61B 17/072	(72) SHELTON, IV Frederick E.	LAPIERRE, Nicolette
A61B 17/00	HARRIS, Jason L.	BROWN, Eric
(11) EP3629942	(31) 201615385950	(31) 201916455838
(21) EP18878147.0	(32) 21.12.2016	(32) 28.06.2019
(47) 28.12.2022	(33) United States of America	(33) United States of America
(87) TR2018050257	(51) A61B 17/12	(51) A61B 17/34
23.05.2019	A61M 25/10	A61B 17/02
(22) 21.05.2018	A61B 17/00	(11) EP3735922
(54) A CONTINUOUS STAPLING INSTRUMENT	(11) EP2861162	(21) EP20172803.7
(73) Senuysal, Hilal	(21) EP13742063.4	(47) 28.12.2022
Tansug, Tugrul	(47) 28.12.2022	(22) 04.05.2020
Elitas, Meltem	(87) US2013045483	(54) REMOVABLE SEAL ASSEMBLY AND ACCESS SYSTEM INCLUDING THE SAME
(72) Senuysal, Hilal	19.12.2013	(73) Covidien LP
Tansug, Tugrul	(22) 12.06.2013	(72) BARIL, Jacob C.
Elitas, Meltem	(54) VASCULAR OCCLUSION AND DRUG DELIVERY DEVICES	BANERJEE, Saumya
(31) 201707597	(73) W. L. Gore & Associates, Inc.	MATTA, George
(32) 24.05.2017	(72) CULLY, Edward, H.	PRIOR, Scott J.
(33) Turkey	DUNCAN, Jeffrey, B.	MEEHAN, Christopher M.
(51) A61B 17/072	PAGET, Douglas, S.	KUNG, Amy
A61B 17/11	RADSPINNER, Rachel	(31) 201916405261
A61B 17/115	SHAW, Edward, E.	(32) 07.05.2019
(11) EP3649964	VONESH, Michael, J.	(33) United States of America
(21) EP19207351.8	(31) 201313914464	(51) A61B 17/70
(47) 28.12.2022	201261660615 P	A61B 17/56
(22) 06.11.2019	(32) 10.06.2013	(11) EP3288473
(54) BUTTRESS FOR CIRCULAR EEA STAPLERS	15.06.2012	(21) EP15891011.7
(73) Covidien LP	(33) United States of America	(47) 28.12.2022
(72) WILLIAMS, Justin	United States of America	(87) US2015053386
(31) 201916598017	(51) A61B 17/24	03.11.2016
201862756710 P	A61B 34/20	(22) 01.10.2015
(32) 10.10.2019	A61M 1/00	(54) ROD REDUCER
07.11.2018	A61B 90/00	(73) K2M, Inc.
(33) United States of America	A61B 17/00	(72) NOORDEEN, Hilali
United States of America	(11) EP3860474	BARRUS, Michael
(51) A61B 17/072	(21) EP19779187.4	(31) 201562154940 P
A61B 17/29	(47) 28.12.2022	(32) 30.04.2015
A61B 17/00	(87) IB2019058077	(33) United States of America
(11) EP4007536	09.04.2020	(51) A61B 18/00
(21) EP21749328.7	(22) 24.09.2019	A61B 18/14
(47) 28.12.2022	(54) MALLEABLE SUCTION DEVICE	(11) EP3202356
(87) IB2021056761	(73) Biosense Webster (Israel) Ltd.	(21) EP17152826.8
03.02.2022	(72) OKARSKI, Kevin Mark	(47) 28.12.2022
(22) 26.07.2021	GOVARI, Assaf	(22) 24.01.2017
(54) SURGICAL INSTRUMENTS WITH DOUBLE SPHERICAL ARTICULATION JOINTS WITH PIVOTABLE LINKS	GLINER, Vadim	(54) TEMPERATURE CONTROLLED SHORT DURATION ABLATION
(73) Cilag GmbH International	BEECKLER, Christopher Thomas	(73) Biosense Webster (Israel) Ltd.
(72) WITTE, Spencer J.	(31) 201916552132	(72) GOVARI, Assaf
(31) 202117360176	201862741402 P	EPHRATH, Yaron
202063057432 P	(32) 27.08.2019	ALTMAN, Andres Claudio
202063057430 P	04.10.2018	ZILBERMAN, Israel
(32) 28.06.2021	(33) United States of America	(31) 201615179196
28.07.2020	United States of America	201662286534 P
28.07.2020	(51) A61B 17/34	(32) 10.06.2016
(33) United States of America	(11) EP3756594	25.01.2016
United States of America	(21) EP20182478.6	(33) United States of America
	(47) 28.12.2022	United States of America

(51) A61B 18/02	(72) LAUGHNER, Jacob I.	(11) EP3790497
(11) EP3443919	HAMANN, Jason J.	(21) EP19725927.8
(21) EP18178649.2	SHOME, Shibaji	(47) 28.12.2022
(47) 28.12.2022	SHUROS, Allan C.	(87) DE2019100402
(22) 02.03.2012	BYRON, Mary M.	14.11.2019
(54) CRYOGENIC MEDICAL SYSTEM	HULTZ, Paul	(22) 05.05.2019
(73) Varian Medical Systems, Inc.	THAKUR, Pramodsingh H.	(54) ABUTMENT FOR AN ENDOSSEOUS
(72) CHEEKS, Roy	(31) 201562258396 P	DENTAL IMPLANT
(31) 201113038862	(32) 20.11.2015	(73) Epiphanostics GmbH
(32) 02.03.2011	(33) United States of America	(72) KIRSCH, Axel
(33) United States of America	(51) A61B 18/14	KRATT, Uwe Ernst
(51) A61B 18/10	A61M 25/00	(31) 102019203222
H02J 7/00	(11) EP3351199	102018110946
H02M 1/32	(21) EP18161063.5	(32) 10.03.2019
(11) EP3884893	(47) 28.12.2022	07.05.2018
(21) EP21163547.9	(22) 28.12.2011	(33) Germany
(47) 28.12.2022	(54) BRAID WITH INTEGRATED SIGNAL	Germany
(22) 18.03.2021	CONDUCTORS	(51) A61C 8/00
(54) MEDICAL DEVICE WITH A RELIABLE	(73) Biosense Webster (Israel) Ltd.	A61B 17/88
POWER SUPPLY	(72) GOVARI, Assaf	B25B 23/00
(73) Olympus Winter & Ibe GmbH	BEECKLER, Christopher Thomas	(11) EP3827782
(72) Prezewowsky, Thomas	(31) 980748	(21) EP20203151.4
(31) 102020107614	(32) 29.12.2010	(47) 28.12.2022
(32) 19.03.2020	(33) United States of America	(22) 21.10.2020
(33) Germany	(51) A61C 1/00	(54) DENTAL IMPLANTOLOGY TOOL
(51) A61B 18/12	A61C 19/06	FOR INSTALLING A PROSTHETIC
(11) EP2992848	A61N 5/06	ABUTMENT
(21) EP14183771.6	(11) EP3621549	(73) Majidi, Amirhossein
(47) 28.12.2022	(21) EP18727601.9	(72) Majidi, Amirhossein
(22) 05.09.2014	(47) 28.12.2022	(31) 201916699065
(54) DEVICE FOR CONTACT	(87) US2018032022	(32) 28.11.2019
COAGULATION OF BIOLOGICAL	15.11.2018	(33) United States of America
TISSUE	(22) 10.05.2018	(51) A61C 9/00
(73) Erbe Elektromedizin GmbH	(54) SYSTEM FOR PREVENTATIVE DENTAL	A61M 5/19
(72) Keller, Sandra	HARD TISSUE TREATMENT WITH A	(11) EP3890652
Kegreiss, Marc	LASER	(21) EP19813148.4
(51) A61B 18/14	(73) Convergent Dental, Inc.	(47) 28.12.2022
A61B 18/00	(72) GROVES, William H., Jr.	(87) IB2019060072
(11) EP3902493	DRESSER, Charles H.	11.06.2020
(21) EP20727773.2	MONTY, Nathan P.	(22) 22.11.2019
(47) 28.12.2022	WANG, Zhijie	(54) A SYRINGE FOR STORING AND
(87) US2020031004	RICCI, Christopher	DISPENSING A MATERIAL
12.11.2020	QUILLARD, Jon R.	(73) 3M Innovative Properties Company
(22) 01.05.2020	(31) 201762505450 P	(72) BOEHM, Andreas J.
(54) ELECTRODE ASSEMBLY INCLUDING	(32) 12.05.2017	PEUKER, Marc
INNER AND OUTER BASKETS AND	(33) United States of America	HOMNICK, Paul J.
METHODS OF FORMING SAME	(51) A61C 5/40	(31) 18209967
(73) St. Jude Medical, Cardiology Division,	A61C 17/02	(32) 04.12.2018
Inc.	A61C 17/028	(33) European Patent Office (EPO)
(72) DALE, Ted	(11) EP2991576	(51) A61C 13/01
TEGG, Troy	(21) EP14733409.8	A61C 13/10
MANDA, Rishi	(47) 28.12.2022	(11) EP3944837
(31) 201962842654 P	(87) US2014036451	(21) EP21187579.4
(32) 03.05.2019	06.11.2014	(47) 28.12.2022
(33) United States of America	(22) 01.05.2014	(22) 26.07.2021
(51) A61B 18/14	(54) APPARATUS AND SYSTEM FOR	(54) REINFORCING-STRUCTURE
A61B 90/00	TREATING TEETH	SIMULTANEOUS-EMBEDDING-TYPE
A61B 34/00	(73) SONENDO, INC.	PLATE DENTURE AND METHOD OF
A61B 34/10	(72) KHAKPOUR, Mehrzad	FABRICATING THE SAME
A61B 18/00	BERGHEIM, Bjarne	(73) Kabushiki Kaisha Shofu
(11) EP3376985	EVANS, Ryan	(72) FUJII, Kunihiro
(21) EP16816031.5	(31) 201361874337 P	SATO, Hirokazu
(47) 28.12.2022	201361818383 P	(31) 2021073358
(87) US2016062847	(32) 05.09.2013	2020127412
26.05.2017	01.05.2013	(32) 23.04.2021
(22) 18.11.2016	(33) United States of America	28.07.2020
(54) TISSUE CONTACT SENSING VECTOR	United States of America	(33) Japan
(73) Boston Scientific Scimed Inc.	(51) A61C 8/00	Japan

(51) A61C 13/08 A61C 13/00	(72) BERTOLI, Giovanni	United States of America
(11) EP3659549	(31) UA20163329	(51) A61F 2/46
(21) EP18209279.1	(32) 21.04.2016	A61F 2/38
(47) 28.12.2022	(33) Italy	(11) EP3457994
(22) 29.11.2018	(51) A61F 2/24	(21) EP17798407.7
(54) COLOUR MATCHING FOR DENTAL RESTORATIONS	(11) EP3322383	(47) 28.12.2022
(73) SIRONA Dental Systems GmbH	(21) EP16825207.0	(87) AU2017050468
DENTSPLY SIRONA Inc.	(47) 28.12.2022	23.11.2017
(72) Franke, Frederike	(87) US2016042350	(22) 19.05.2017
Brandes, Christoph	19.01.2017	(54) AN ARRANGEMENT AND METHOD IN THE PREPARATION OF THE DISTAL FEMUR AND POSTERIOR FEMORAL CONDYLE PROXIMAL SURFACES OF THE FEMUR FOR THE FEMORAL COMPONENT OF A PROSTHETIC KNEE JOINT
Bäurer, Michael	(22) 14.07.2016	(73) Cabot, Jonathan Peter
Voß, Björn	(54) PROSTHETIC HEART VALVE	(72) Cabot, Jonathan Peter
(51) A61C 17/22	(73) Edwards Lifesciences Corporation	(31) 2016901872
A61C 17/34	(72) NGUYEN-THIEN-NHON, Diana	(32) 19.05.2016
(11) EP3616649	GEISER, Timothy, A.	(33) Australia
(21) EP18791893.3	WOOD, Larry, L.	(51) A61F 2/78
(47) 28.12.2022	SIRIMANNE, Dinesh, L.	A61F 5/00
(87) JP2018016585	NGUYEN, Son, V.	A61F 2/50
01.11.2018	LEVI, Tamir, S.	(11) EP3768197
(22) 24.04.2018	GUROVICH, Nikolay	(21) EP19712164.3
(54) ELECTRIC TOOTHBRUSH	BUKIN, Michael	(47) 28.12.2022
(73) Sunstar Inc.	(31) 201615209642	(87) EP2019056581
(72) WADA, Yukinori	201562192515 P	26.09.2019
(31) 2017085574	(32) 13.07.2016	(22) 15.03.2019
(32) 24.04.2017	14.07.2015	(54) ORTHOSIS, ORTHOSIS OR PROSTHESIS COMPONENTS, AND METHOD FOR THE PRODUCTION THEREOF
(33) Japan	(33) United States of America	(73) Otto Bock Healthcare Products GmbH
(51) A61F 2/00	United States of America	(72) SIEWERT, Gordon
(11) EP3666226	(51) A61F 2/24	OVERDEVEST, Etienne
(21) EP19315146.1	(11) EP3554424	VOLKMAR, Marco
(47) 28.12.2022	(21) EP17880012.4	(31) 102018106573
(22) 26.11.2019	(47) 28.12.2022	(32) 20.03.2018
(54) IMPLANT FOR INCREASING THE VOLUME OF THE TESTICLES IN A MAN	(87) US2017066854	(33) Germany
(73) Athmani, Bachir	21.06.2018	(51) A61F 2/78
Abecassis, Marc	(22) 15.12.2017	A61F 5/01
(72) Athmani, Bachir	(54) DEPLOYMENT SYSTEMS AND TOOLS FOR DELIVERING AN ANCHORING DEVICE FOR A PROSTHETIC VALVE	A61F 5/058
Abecassis, Marc	(73) Edwards Lifesciences Corporation	A61F 2/50
(51) A61F 2/00	(72) PATEL, Darshin, S.	A61F 2/68
A61F 2/38	MANASH, Boaz	A61F 2/74
(11) EP3865091	TRAN, Tri, D.	A61F 2/80
(21) EP21157023.9	WITZMAN, Ofir	(11) EP3886771
(47) 28.12.2022	ROZEN, Yoav	(21) EP19812744.1
(22) 15.02.2021	SIEGEL, Alexander, J.	(47) 28.12.2022
(54) PACKAGING DEVICE FOR AN IMPLANT AND IMPLANT ASSEMBLY COMPRISING AN IMPLANT AND A PACKAGING DEVICE	TAYLOR, David, M.	(87) EP2019082596
(73) Aesculap AG	(31) 201662435563 P	04.06.2020
(72) Kammerer, Selina	(32) 16.12.2016	(22) 26.11.2019
(31) 102020104087	(33) United States of America	(54) ENVELOPING BODY WITH REINFORCEMENT ELEMENTS
(32) 17.02.2020	(51) A61F 2/44	(73) Ottobock SE & Co. KGaA
(33) Germany	(11) EP3139867	(72) ENGELBART, Hendryk
(51) A61F 2/12	(21) EP15724950.9	FINKE, Lars Benjamin
A61F 2/00	(47) 28.12.2022	(31) 102018129921
(11) EP3445286	(87) EP2015060001	(32) 27.11.2018
(21) EP17734148.4	12.11.2015	(33) Germany
(47) 28.12.2022	(22) 06.05.2015	(51) A61F 2/966
(87) IT2017000082	(54) VERTEBRAL IMPLANT, DEVICE FOR VERTEBRAL ATTACHMENT OF THE IMPLANT AND INSTRUMENTATION FOR IMPLANTATION THEREOF	(11) EP2861189
26.10.2017	(73) LDR Medical	(21) EP13733113.8
(22) 21.04.2017	(72) AMEIL, Marc	(47) 28.12.2022
(54) MEDICAL DEVICE FOR BREAST RECONSTRUCTION TO AVOID THE PTOSIS AFTER PROSTHESYS IMPLANT	LEE, Daniel D.	(87) US2013043615
(73) DECO MED SRL	CHO, Paul Henry	19.12.2013
	(31) 1454102	
	201514638746	
	(32) 06.05.2014	
	04.03.2015	
	(33) France	

(22) 31.05.2013	(87) US2018043444	(72) ERLACHER, Manuel
(54) ENDOVASCULAR DELIVERY SYSTEM WITH AN IMPROVED RADIOPAQUE MARKER SCHEME	07.02.2019	LANGER, Maximilian
(73) TriVascular, Inc.	(22) 24.07.2018	ZACHNEGGER, Harald
(72) CHOBOTOV, Michael, V.	(54) MULTI-LAYER COMPARTMENT DRESSING	(31) 18184423
GEUSEN, Mark	(73) 3M Innovative Properties Company	(32) 19.07.2018
(31) 201261660413 P	(72) LOCKE, Christopher	(33) European Patent Office (EPO)
(32) 15.06.2012	(31) 201762540404 P	(51) A61G 13/00
(33) United States of America	(32) 02.08.2017	A61B 34/30
(51) A61F 2/966	(33) United States of America	A61G 13/12
A61F 2/07	(51) A61F 13/00	A61B 90/50
(11) EP3395302	A61M 1/00	A61B 34/10
(21) EP18275058.8	A61M 27/00	A61B 34/20
(47) 28.12.2022	A61F 13/02	A61G 13/10
(22) 26.04.2018	(11) EP3669840	(11) EP3768213
(54) SYSTEMS AND METHODS FOR ADJUSTING THE DIAMETER OF AN ENDOLUMINAL PROSTHESIS AND AN ENDOLUMINAL PROSTHESIS CONFIGURED FOR THE SAME	(21) EP20156970.4	(21) EP19792907.8
(73) Cook Medical Technologies LLC	(47) 28.12.2022	(47) 28.12.2022
(72) Bradway, Ryan C.	(22) 01.11.2016	(87) US2019028520
(31) 201762491470 P	(54) MEDICAL SYSTEM WITH FLEXIBLE FLUID STORAGE BRIDGE	31.10.2019
(32) 28.04.2017	(73) 3M Innovative Properties Company	(22) 22.04.2019
(33) United States of America	(72) LOCKE, Christopher, Brian	(54) SYSTEM FOR PATIENT POSITIONING IN AN AUTOMATED SURGERY
(51) A61F 5/01	ROBINSON, Timothy Mark	(73) Mahoney, Ormonde, M.
(11) EP3768199	(31) 201562257903 P	(72) Mahoney, Ormonde, M.
(21) EP19712163.5	(32) 20.11.2015	(31) 201815965376
(47) 28.12.2022	(33) United States of America	(32) 27.04.2018
(87) EP2019056580	(51) A61F 13/49	(33) United States of America
26.09.2019	A61F 13/511	(51) A61G 13/08
(22) 15.03.2019	A61F 13/514	A61G 13/10
(54) POSITIONING DEVICE AND SYSTEM FORMED OF A POSITIONING DEVICE AND BASE BODY OF AN ORTHOPAEDIC DEVICE	A61F 13/53	A61G 13/12
(73) Otto Bock Healthcare Products GmbH	A61F 13/62	(11) EP3906912
(72) OVERDEVEST, Etienne	(11) EP3170482	(21) EP21171797.0
(31) 102018106574	(21) EP16202393.1	(47) 28.12.2022
(32) 20.03.2018	(47) 28.12.2022	(22) 03.05.2021
(33) Germany	(22) 12.10.2011	(54) ADDITIONAL MOTORIZED MODULE INTENDED FOR EQUIPPING A SURGICAL OPERATING TABLE
(51) A61F 9/00	(54) DISPOSABLE ABSORBENT ARTICLE WITH FINGER TAB WITHOUT COMPROMISING STRETCH	(73) Steris
A61F 9/007	(73) Kimberly-Clark Worldwide, Inc.	(72) CHOROSY, Damien
A61N 1/32	(72) SCHILPP, Aaron, Dee	FAVOT, Adrien
A61N 1/04	SPERL, Michael, Donald	BESNARD, Mathieu
A61K 31/713	(31) 910384	(31) 2004381
A61B 3/16	(32) 22.10.2010	(32) 04.05.2020
(11) EP3367982	(33) United States of America	(33) France
(21) EP16860729.9	(51) A61F 13/496	(51) A61H 1/02
(47) 28.12.2022	(11) EP3346963	A47C 20/02
(87) US2016058949	(21) EP15903703.5	(11) EP3213733
04.05.2017	(47) 28.12.2022	(21) EP17000324.8
(22) 26.10.2016	(87) SE2015050950	(47) 28.12.2022
(54) DEVICES FOR TREATMENT OF OCULAR DISORDERS THROUGH DELIVERY OF THERAPEUTIC NUCLEIC ACIDS	16.03.2017	(22) 02.03.2017
(73) Doheny Eye Institute	(22) 09.09.2015	(54) DEVICE FOR MOBILISING VERTEBRAE
(72) TAN, Chee, Hian	(54) A DISPOSABLE PANT-TYPE ABSORBENT ARTICLE WITH A LEG CUFF	(73) Volker, Runkel
(31) 201562249143 P	(73) Essity Hygiene and Health Aktiebolag	(72) Volker, Runkel
(32) 30.10.2015	(72) BÄCK, Lucas	(31) 102016002480
(33) United States of America	ERIKSSON, Katarina	(32) 03.03.2016
(51) A61F 13/00	KLINTE OLSSON, Anna	(33) Germany
A61M 1/00	(51) A61G 3/08	(51) A61J 1/14
(11) EP3661570	A61G 5/10	A61J 1/20
(21) EP18752934.2	(11) EP3597162	A61M 5/14
(47) 28.12.2022	(21) EP19183836.6	(11) EP3911292
	(47) 28.12.2022	(21) EP20701675.9
	(22) 02.07.2019	(47) 28.12.2022
	(54) FASTENING DEVICE FOR SECURING A WHEELCHAIR	(87) IL2020050020
	(73) MAGNA STEYR Fahrzeugtechnik GmbH & Co KG	23.07.2020
		(22) 07.01.2020
		(54) LIQUID TRANSFER DEVICES FOR USE WITH INTRAVENOUS (IV) BOTTLES
		(73) West Pharma Services IL, Ltd.

(72) BEN SHALOM, Niv	(54) AN ANTIMICROBIAL COMPOSITION	C11D 3/50
(31) 201962794019 P	(73) Unilever IP Holdings B.V.	A61Q 5/02
(32) 18.01.2019	(72) DAS, Somnath	A61Q 19/10
(33) United States of America	PRAMANIK, Amitava	(11) EP3416612
(51) A61J 7/02	(31) 17194025	(21) EP16707654.6
A61J 7/00	(32) 29.09.2017	(47) 28.12.2022
G01F 19/00	(33) European Patent Office (EPO)	(87) EP2016053133
(11) EP3538052	(51) A61K 8/34	24.08.2017
(21) EP17868730.7	A61K 8/41	(22) 15.02.2016
(47) 28.12.2022	A61K 8/42	(54) FRAGRANT MIXTURES CONTAINING
(87) US2017060078	A61K 8/46	ESTERS AND KETONES
17.05.2018	A61K 8/02	(73) Symrise AG
(22) 06.11.2017	A61K 8/04	(72) HÖLSCHER, Bernd
(54) DOSING DEVICE FOR MEASURING	A61Q 5/12	MANSFELD, Marc
AND DISPENSING MINI-TABLETS	(11) EP3532016	WAGNER, Tobias
(73) Merck Sharp & Dohme LLC	(21) EP18721625.4	AMOS, Julia
(72) BERENSHTEYN, Annaniy	(47) 28.12.2022	(51) A61K 8/35
GOTLIBOYM, Michael	(87) US2018027404	A61K 31/19
GRANELLI, Christopher	18.10.2018	A61K 31/35
(31) 201662419641 P	(22) 13.04.2018	A61Q 5/00
(32) 09.11.2016	(54) METHOD OF PREPARING A PRODUCT	A61K 31/00
(33) United States of America	COMPOSITION COMPRISING A	A61K 31/44
(51) A61J 9/00	DISCRETE PARTICLE AND AN	A61K 31/49
A47G 19/22	AQUEOUS BASE COMPOSITION	A61K 31/60
(11) EP3426221	(73) The Procter & Gamble Company	(11) EP3302712
(21) EP15813240.7	(72) YOKOGI, Junichi	(21) EP16730462.5
(47) 28.12.2022	ZHU, XinHao	(47) 28.12.2022
(87) BE2015000057	SUNKEL, Jorge, Max	(87) GB2016051679
28.04.2016	(31) 201762532372 P	15.12.2016
(22) 23.10.2015	201762532371 P	(22) 08.06.2016
(54) AID FOR CUP FEEDING	201762532369 P	(54) ANTI-DANDRUF COMPOSITION
(73) Materni	201762532368 P	COMPRISING PYCNIDIONE AND
(72) PIERREUX, Frederik	201762532366 P	EPOLONE
DE WEERDT, Victor	201762532365 P	(73) Croda International PLC
(31) 201405028	201762484920 P	(72) KERR, Russell Greig
(32) 23.10.2014	201762484919 P	OVERY, David Patrick
(33) Belgium	201762484918 P	BERRUÉ, Fabrice
(51) A61K 6/61	201762484917 P	(31) 201509847
A61K 6/887	201762484915 P	(32) 08.06.2015
C08F 4/40	201762484912 P	(33) United Kingdom
A61C 5/70	(32) 14.07.2017	(51) A61K 8/39
C08F 222/10	14.07.2017	A61Q 5/12
(11) EP4039220	14.07.2017	A61K 8/73
(21) EP21155529.7	14.07.2017	A61K 8/86
(47) 28.12.2022	14.07.2017	(11) EP3478254
(22) 05.02.2021	14.07.2017	(21) EP17739183.6
(54) DENTAL MATERIALS ON THE BASIS	13.04.2017	(47) 28.12.2022
OF POLYMERISABLE THIOUREA	13.04.2017	(87) BR2017050168
DERIVATIVES	13.04.2017	04.01.2018
(73) Ivoclar Vivadent AG	13.04.2017	(22) 29.06.2017
(72) MOSZNER, Norbert	13.04.2017	(54) HAIR CARE FORMULATION FROM
CATEL, Yohann	13.04.2017	CONCENTRATE
LAMPARTH, Iris	(33) United States of America	(73) Dow Brasil Sudeste Industrial Ltda.
ANGERMANN, Jörg	United States of America	(72) OLIVEIRA, Maria Rita de
(51) A61K 8/27	United States of America	SANCTIS, Daisy de
A61K 8/49	United States of America	PENNA, Mayra
A61Q 5/00	United States of America	(31) 201662355993 P
A61K 8/64	United States of America	(32) 29.06.2016
A61K 8/65	United States of America	(33) United States of America
A61K 8/66	United States of America	(51) A61K 8/44
A61Q 17/00	United States of America	A61K 8/41
A61Q 19/10	United States of America	A61Q 19/08
(11) EP3687481	United States of America	C07C 225/18
(21) EP18756453.9	United States of America	C07C 229/36
(47) 28.12.2022	(51) A61K 8/35	(11) EP3545944
(87) EP2018072995	A61K 8/37	(21) EP17874163.3
04.04.2019	A61Q 13/00	(47) 28.12.2022
(22) 27.08.2018	C11B 9/00	(87) JP2017042338

- 31.05.2018
(22) 27.11.2017
(54) WRINKLE AMELIORATING AGENT
(73) Pola Chemical Industries Inc.
(72) MORI, Yasuhito
SAITOH, Yuko
SHONO, Michiko
(31) 2016230134
(32) 28.11.2016
(33) Japan
-
- (51) A61K 8/46
A61K 8/898
A61K 8/891
A61K 8/892
A61K 8/58
A61Q 5/02
A61Q 19/10
C11D 1/28
C11D 3/00
C11D 3/37
C11D 11/00
(11) EP3487473
(21) EP17725201.2
(47) 28.12.2022
(87) EP2017061285
25.01.2018
(22) 11.05.2017
(54) AQUEOUS TENSIDE COMPOSITIONS
(73) BASF SE
(72) BRUNN, Claudia
BEHLER, Ansgar
(31) 16180121
(32) 19.07.2016
(33) European Patent Office (EPO)
-
- (51) A61K 8/49
A61K 8/81
A61K 8/86
A61Q 19/08
A61K 8/97
A61K 8/06
A61Q 17/04
(11) EP3558253
(21) EP17821934.1
(47) 28.12.2022
(87) EP2017084500
28.06.2018
(22) 22.12.2017
(54) COMPOSITION COMPRISING
BAICALIN
(73) L'Oreal
(72) KIMURA, Gisèle
TABARIE, Frédérique
CHEILIAN, Stéphanie
(31) 1663316
(32) 23.12.2016
(33) France
-
- (51) A61K 8/81
A61Q 17/04
A61Q 1/02
(11) EP3893836
(21) EP19824177.0
(47) 28.12.2022
(87) US2019064161
18.06.2020
(22) 03.12.2019
(54) PERSONAL CARE FORMULATION
COMPRISING A MULTISTAGE
POLYMER WITH A CARBOSILOXANE
- (73) Dow Global Technologies LLC
Rohm and Haas Company
Dow Silicones Corporation
(72) ZENG, Fanwen
BUSS, Hilda
JELETIC, Matthew
LU, Xiaodong
LAN, Tian
VAN REETH, Isabelle
DIHANG, Helene
EEMAN, Marc
MCCULLOCH, Bryan L.
MECCA, Jodi M.
EVEN, Ralph C.
SHULMAN, Inna
PACHOLSKI, Michaelleen
(31) 201862778524 P
(32) 12.12.2018
(33) United States of America
-
- (51) A61K 8/9717
A61K 8/9789
A61Q 17/00
A61Q 19/08
(11) EP3370832
(21) EP16804829.6
(47) 28.12.2022
(87) FR2016052835
11.05.2017
(22) 02.11.2016
(54) COSMETIC OR DERMATOLOGICAL
COMPOSITION COMPRISING AN
EXTRACT OF JANIA RUBENS AND AN
ESSENTIAL OIL OF IMMORTELLE AND
USES THEREOF
(73) Laboratoires M & L
(72) PORTES, Pascal
CENIZO, Valérie
LEMAIRE, Géraldine
(31) 1560663
(32) 06.11.2015
(33) France
-
- (51) A61K 9/00
A61M 31/00
(11) EP3517099
(21) EP19158984.5
(47) 28.12.2022
(22) 26.06.2015
(54) INTRAVESICAL DRUG DELIVERY
DEVICES AND METHODS INCLUDING
ELASTIC POLYMER-DRUG MATRIX
SYSTEMS
(73) TARIS Biomedical LLC
(72) LEE, Heejin
DANIEL, Karen
(31) 201462017775 P
(32) 26.06.2014
(33) United States of America
-
- (51) A61K 9/06
A61K 9/00
A61K 47/02
A61K 9/16
A61P 31/04
A61P 37/08
A61K 31/5415
A61K 31/4174
A61K 31/4164
A61K 31/495
(11) EP2180887
- (21) EP08776249.8
(47) 28.12.2022
(87) HU2008000083
15.01.2009
(22) 10.07.2008
(54) PHARMACEUTICAL PREPARATIONS
CONTAINING HIGHLY VOLATILE
SILICONES
(73) Egis Gyógyszergyár Zrt.
(72) MIKULÁSIK, Endre
FAZEKAS, Patrik
(31) 0700473
(32) 10.07.2007
(33) Hungary
-
- (51) A61K 9/20
A61K 31/155
A61K 31/192
A61K 31/196
A61K 31/282
A61K 31/337
A61K 31/366
A61K 31/40
A61K 31/428
A61K 31/4439
A61K 31/496
A61K 31/5415
(11) EP3349734
(21) EP16774536.3
(47) 28.12.2022
(87) FR2016052303
23.03.2017
(22) 13.09.2016
(54) USE OF SOLUBLE AND INSOLUBLE
FRACTIONS OF A CYCLODEXTRIN
POLYMER AND OF MIXTURES
THEREOF AS AN EXCIPIENT IN A
TABLET
(73) Université de Lille
Centre National de la Recherche
Scientifique - CNRS
INSERM - Institut National de la Santé et
de la Recherche Médicale
Centre Hospitalier Régional et
Universitaire de Lille (CHRU)
- (72) MARTEL, Bernard
BLANCHEMAIN, Nicolas
FLAMENT, Marie-Pierre
WILLART, Jean-François
TABARY, Nicolas
GARCIA FERNANDEZ, Maria José
(31) 1558575
(32) 14.09.2015
(33) France
-
- (51) A61K 9/70
A61K 31/192
A61K 47/10
A61K 47/32
(11) EP2968201
(21) EP14719442.7
(47) 28.12.2022
(87) US2014025184
02.10.2014
(22) 13.03.2014
(54) ENHANCED DRUG DELIVERY FROM
ADHESIVES
(73) Avery Dennison Corporation
(72) CARTY, Neal
WIBAUX, Anne Marie

(31) 201361778620 P	A61P 25/30	A61K 31/5377
(32) 13.03.2013	(11) EP3288553	A61P 7/02
(33) United States of America	(21) EP16786064.2	C07D 401/12
(51) A61K 31/065	(47) 28.12.2022	C07D 409/12
A61K 31/122	(87) IL2016050414	C07D 417/12
A61P 17/00	03.11.2016	C07D 417/14
(11) EP3427727	(22) 19.04.2016	A61P 7/00
(21) EP17181566.5	(54) COMBINATIONS OF CANNABINOIDS	(11) EP3541381
(47) 28.12.2022	AND N-ACYLETHANOLAMINES	(21) EP17871741.9
(22) 14.07.2017	(73) Scisparc Ltd	(47) 28.12.2022
(54) COMBINATION OF BIOLOGICALLY	(72) SHMULEWITZ, Ascher	(87) US2017061281
ACTIVE SUBSTANCES FOR	HABER, Elran	24.05.2018
STABILIZING OR INCREASING THE	BRENER, Ephraim	(22) 13.11.2017
COLLAGEN CONTENT	(31) 201562154144 P	(54) INHIBITORS OF FACTOR XIIIA
(73) BioActive Food GmbH	(32) 29.04.2015	(73) Merck Sharp & Dohme LLC
(72) VOLLERT, Henning	(33) United States of America	(72) HICKS, Jacqueline, D.
(51) A61K 31/16	(51) A61K 31/40	MCKITTRICK, Brian Alexander
A61K 31/19	A61K 31/555	WHITEHEAD, Brent, R.
A61P 25/28	A61K 31/282	LOMBARDO, Matthew
A61P 3/00	A61K 31/5365	HAN, Xiaoqing
(11) EP3307413	A61K 35/00	TAYLOR, Jerry
(21) EP16812225.7	A61K 45/06	CHU, Hong Dong
(47) 28.12.2022	A61P 35/00	SO, Sung-Sau
(87) US2016037365	A61P 25/02	ORTH, Peter
22.12.2016	(11) EP3777851	WU, Zhicai
(22) 14.06.2016	(21) EP20198351.7	(31) 201662423817 P
(54) BRAIN DERIVED PPAR LIGANDS	(47) 28.12.2022	(32) 18.11.2016
(73) Rush University Medical Center	(22) 15.07.2016	(33) United States of America
(72) PAHAN, Kalipada	(54) SELECTIVE OCT2 INHIBITORS FOR	(51) A61K 31/4245
ROY, Avik	USE IN PREVENTING TOXICITY OF	C07C 311/16
(31) 201562175871 P	PLATINUM DRUGS	C07D 213/04
(32) 15.06.2015	(73) Xomics Biopharma, Inc.	C07D 213/24
(33) United States of America	(72) HUANG, Yong	C07D 213/44
(51) A61K 31/166	BRIDON, Dominique P.	(11) EP3684357
A61K 31/661	ZHANG, Xuexiang	(21) EP18859614.2
A61K 41/00	LI, Chien-Ming	(47) 28.12.2022
A61K 45/06	(31) 201562193529 P	(87) US2018050975
A61P 13/12	(32) 16.07.2015	28.03.2019
A61K 47/50	(33) United States of America	(22) 14.09.2018
A61K 31/00	(51) A61K 31/415	(54) HETEROARYL ALLOSTERIC
A61K 31/195	A61K 31/47	MODULATORS OF NICOTINIC
A61K 51/04	A61K 31/496	ACETYLCHOLINE RECEPTORS
A61K 51/08	A61K 45/06	(73) Merck Sharp & Dohme LLC
(11) EP3965751	A61P 25/00	(72) BELL, Ian, M.
(21) EP20725500.1	A61P 25/16	CROWLEY, Brendan, M.
(47) 28.12.2022	A61P 25/14	MANLEY, Peter, J.
(87) EP2020062950	A61P 25/28	SHIPE, William, D.
12.11.2020	A61P 27/02	(31) 201762560444 P
(22) 08.05.2020	(11) EP3641820	(32) 19.09.2017
(54) PARA-AMINOHIPPURIC ACID (PAH) AS	(21) EP18753256.9	(33) United States of America
A RENAL PROTECTIVE SUBSTANCE	(47) 28.12.2022	(51) A61K 31/427
(73) ITM Isotope Technologies Munich SE	(87) IL2018050684	A61K 31/522
(72) MECKEL, Marian	27.12.2018	A61K 31/496
OSL, Theresa	(22) 20.06.2018	A61K 31/15
ZHERNOSEKOV, Konstantin	(54) COMPOSITIONS COMPRISING AN	A61K 31/404
(31) PCT/EP2019/061882	ANTI-INFLAMMATORY DRUG AND	A61K 31/37
(32) 08.05.2019	A DICER ACTIVATOR FOR USE IN	A61K 31/138
(33) World Intellectual Property Office (WIPO)	THE TREATMENT OF NEURONAL	A61K 31/4164
(51) A61K 31/352	DISEASES	A61P 35/00
A61K 31/38	(73) Neurosense Therapeutics Ltd.	A61P 31/00
A61P 25/18	(72) BEN-NOON, Alon	A61P 29/00
A61P 25/04	(31) 201762522157 P	(11) EP3972591
A61K 45/06	(32) 20.06.2017	(21) EP20760507.2
A61K 31/164	(33) United States of America	(47) 28.12.2022
A61K 36/185	(51) A61K 31/4184	(87) GB2020051920
A61P 25/00	A61K 31/454	17.02.2022
A61P 25/14	A61K 31/496	(22) 12.08.2020
A61P 29/00	A61K 31/506	

(54) PHARMACEUTICAL COMPOSITIONS COMPRISING FLUBENDAZOLE	DAVIS, Jeff	(47) 28.12.2022
(73) Zephapharm Ltd.	WALKER, Duncan	(87) CN2017072727
(72) TAYLOR, John.	ASHWELL, Susan	10.08.2017
(51) A61K 31/439	THOMSON, Blythe	(22) 26.01.2017
A61P 11/00	WEI, Lu	(54) OPIOID RECEPTOR ANTAGONIST CONJUGATE AND USE THEREOF
A61P 29/00	(31) 201962812367 P	(73) Shanghai Hanmai Bio-Pharma Co., LTD.
C07D 498/14	201962798690 P	(72) HE, Mei
C07D 471/04	201962798687 P	(31) 201610072859
C07D 471/14	201962798684 P	(32) 02.02.2016
(11) EP3634408	201962798681 P	(33) China
(21) EP18812747.6	201962798677 P	(51) A61K 31/704
(47) 28.12.2022	201862773562 P	A61K 47/26
(87) US2018035772	201862692591 P	A61P 7/08
13.12.2018	201862692605 P	A61K 9/08
(22) 04.06.2018	201862692604 P	(11) EP3212199
(54) AZABICYCLO[4.1.0]HEPTANE	201862692601 P	(21) EP15785146.0
ALLOSTERIC MODULATORS OF THE	201862692598 P	(47) 28.12.2022
M4 MUSCARINIC ACETYLCHOLINE	201862680560 P	(87) EP2015074955
RECEPTOR	201862680562 P	06.05.2016
(73) Merck Sharp & Dohme LLC	201862680566 P	(22) 28.10.2015
(72) CLAUSEN, Dane James	201862680571 P	(54) PHARMACEUTICAL COMPOSITIONS CONTAINING STEVIOSIDES
FELLS, James, I.	201862672461 P	(73) Fresenius Medical Care Deutschland GmbH
KOZLOWSKI, Joseph, A.	201862672462 P	(72) AGUILERA PERALTA, Abelardo Isaac
LIU, Ping	(32) 01.03.2019	LÓPEZ-CABRERA, Manuel
MAZZOLA, Robert, D., Jr.	30.01.2019	SELGAS GUTIERREZ, Rafael
(31) 201762517375 P	30.01.2019	STEPPAN, Sonja
(32) 09.06.2017	30.01.2019	PASSLICK-DEETJEN, Jutta
(33) United States of America	30.01.2019	(31) 14191301
(51) A61K 31/454	30.11.2018	(32) 31.10.2014
A61K 39/00	29.06.2018	(33) European Patent Office (EPO)
A61K 31/5377	29.06.2018	(51) A61K 33/00
A61K 31/573	29.06.2018	A61K 35/08
A61K 31/69	29.06.2018	A61P 17/02
A61K 35/28	29.06.2018	A61K 9/08
A61P 35/00	04.06.2018	A61K 45/06
A61K 45/06	04.06.2018	A61K 8/19
(11) EP3182996	04.06.2018	A61Q 19/00
(21) EP15757389.0	04.06.2018	(11) EP3883583
(47) 28.12.2022	16.05.2018	(21) EP19813432.2
(87) US2015046091	16.05.2018	(47) 28.12.2022
25.02.2016	(33) United States of America	(87) EP2019082164
(22) 20.08.2015	United States of America	28.05.2020
(54) METHODS OF TREATING	United States of America	(22) 21.11.2019
MULTIPLE MYELOMA WITH	United States of America	(54) HEALING COMPOSITION
IMMUNOMODULATORY COMPOUNDS	United States of America	COMPRISING ELECTROLYZED WATER
IN COMBINATION WITH ANTIBODIES	United States of America	(73) Waterdiam Group LLC
(73) Celgene Corporation	United States of America	(72) PUPUNAT, Laurent
(72) THAKURTA, Anjan	United States of America	GINTER, Anthony
HUSSEIN, Mohamed	United States of America	(31) 1871652
JACQUES, Christian	United States of America	(32) 21.11.2018
(31) 201462040918 P	United States of America	(33) France
(32) 22.08.2014	United States of America	(51) A61K 33/06
(33) United States of America	United States of America	A61K 31/282
(51) A61K 31/4704	United States of America	A61K 31/337
A61K 31/4709	United States of America	A61K 31/513
A61P 35/00	United States of America	A61K 31/704
A61P 35/02	United States of America	A61P 35/00
(11) EP3720442	United States of America	A61K 31/555
(21) EP19728271.8	(51) A61K 31/485	A61K 33/24
(47) 28.12.2022	A61K 47/60	A61K 33/243
(87) US2019032747	C07D 489/08	A61P 43/00
21.11.2019	A61P 29/00	(11) EP3108890
(22) 16.05.2019	A61P 1/00	(21) EP15751754.1
(54) INHIBITING MUTANT IDH-1	A61P 1/10	(47) 28.12.2022
(73) Forma Therapeutics, Inc.	A61P 25/04	(87) JP2015054843
(72) KELLY, Patrick F.	(11) EP3406614	
COLLIS, Alan	(21) EP17746954.1	

27.08.2015	(22) 18.07.2018	GRUPP, Stephan
(22) 20.02.2015	(54) A MODULATABLE SWITCH FOR	(31) 201361782982 P
(54) ENHANCER OF ANTI-TUMOR EFFECT	SELECTION OF DONOR MODIFIED	201261671482 P
OF ANTI-CANCER AGENT	CELLS	(32) 14.03.2013
(73) Yamamoto, Hirofumi	(73) CSL Behring Gene Therapy, Inc.	13.07.2012
Mori, Masaki	CSL Gene Therapy Pty Ltd	(33) United States of America
(72) YAMAMOTO, Hirofumi	(72) ALMA, Christopher Walter	United States of America
DOKI, Yuichiro	BARTLETT, Jeffrey	(51) A61K 39/39
MORI, Masaki	BRETON, Louis Randall	A61K 9/127
WU, Xin	SYMONDS, Geoffrey Phillip	(11) EP4066855
(31) 2014031060	YAN, Ming	(21) EP22174779.3
(32) 20.02.2014	(31) 201762533707 P	(47) 28.12.2022
(33) Japan	(32) 18.07.2017	(22) 31.08.2011
(51) A61K 35/14	(33) United States of America	(54) PEGYLATED LIPOSOMES FOR
C12N 5/0783	(51) A61K 35/32	DELIVERY OF IMMUNOGEN-
A61P 31/00	A61L 2/00	ENCODING RNA
(11) EP3701957	A61L 27/12	(73) GlaxoSmithKline Biologicals SA
(21) EP20159448.8	A61L 27/24	(72) GEALL, Andrew
(47) 28.12.2022	A61L 27/50	VERMA, Ayush
(22) 28.10.2014	A61L 27/54	(31) 37882610 P
(54) TUMORICIDAL AND ANTIMICROBIAL	A61K 38/01	(32) 31.08.2010
COMPOSITIONS AND METHODS	A61K 9/00	(33) United States of America
(73) ImmunityBio, Inc.	(11) EP3941542	(51) A61K 45/06
(72) KLINGEMANN, Hans G	(21) EP20731868.4	A61K 31/56
SIMON, Barry J	(47) 28.12.2022	A61P 3/10
(31) 201361899066 P	(87) EP2020066267	A61P 9/10
(32) 01.11.2013	17.12.2020	A23K 20/105
(33) United States of America	(22) 12.06.2020	A23K 50/10
(51) A61K 35/20	(54) INJECTABLE AQUEOUS IMPLANT	A23K 50/40
A61K 31/702	FORMULATION CONTAINING	A23L 33/10
A61K 35/741	ASCORBIC ACID	(11) EP3340992
A61K 35/744	(73) Geistlich Pharma AG	(21) EP16843173.2
A61K 35/745	(72) SUPPIGER, Daniel	(47) 28.12.2022
A23L 33/00	BUXTON, Paul	(87) US2016050332
A23L 33/135	KURZ, Nino	09.03.2017
A23L 33/21	(31) 19180283	(22) 05.09.2016
A61P 1/12	(32) 14.06.2019	(54) METHOD FOR TREATMENT OF
A23K 50/75	(33) European Patent Office (EPO)	MONOCYTE DYSFUNCTION AND
A23K 20/121	(51) A61K 38/48	CHRONIC INFLAMMATORY MICRO-
(11) EP3911341	C12N 5/071	AND MACRO-VASCULAR DISEASES
(21) EP20702576.8	(11) EP2344632	(73) The Board of Regents of the University of
(47) 28.12.2022	(21) EP09820001.7	Texas System
(87) EP2020051034	(47) 28.12.2022	(72) Asmis, Reto
23.07.2020	(87) US2009060272	(31) 201562214465 P
(22) 16.01.2020	15.04.2010	(32) 04.09.2015
(54) FERMENTED FORMULA WITH NON-	(22) 09.10.2009	(33) United States of America
DIGESTIBLE OLIGOSACCHARIDES	(54) METHOD FOR INDUCING	(51) A61K 48/00
FOR USE IN ROTAVIRUS INDUCED	PLURIPOTENCY IN CELLS	A61K 9/127
INFECTION	(73) Minerva Biotechnologies Corporation	A61K 39/00
(73) N.V. Nutricia	Bamdad, Cynthia	A61K 9/00
(72) KNIPPING, Catharina Theresia	(72) BAMDAD, Cynthia	A61P 31/04
PÉREZ CANO, Francisco José	FESSLER, Shawn	A61P 31/10
GARSSSEN, Johan	(31) 104231 P	A61P 31/12
(31) 19152161	(32) 09.10.2008	A61P 33/00
(32) 16.01.2019	(33) United States of America	A61P 37/04
(33) European Patent Office (EPO)	(51) A61K 39/00	C12N 15/88
(51) A61K 35/28	(11) EP4019041	(11) EP4008357
A61K 35/12	(21) EP21215762.2	(21) EP21208092.3
A61P 35/00	(47) 28.12.2022	(47) 28.12.2022
A61K 31/52	(22) 12.07.2013	(22) 31.08.2011
A61P 37/02	(54) TOXICITY MANAGEMENT FOR ANTI-	(54) SMALL LIPOSOMES FOR DELIVERY
A61P 35/02	TUMOR ACTIVITY OF CARs	OF IMMUNOGEN-ENCODING RNA
A61P 37/06	(73) The Trustees of the University of	(73) GlaxoSmithKline Biologicals SA
(11) EP3654994	Pennsylvania	(72) GEALL, Andrew
(21) EP18750006.1	The Children's Hospital of Philadelphia	VERMA, Ayush
(47) 28.12.2022	(72) JUNE, Carl H.	(31) 37883110 P
(87) US2018042630	LEVINE, Bruce L.	(32) 31.08.2010
24.01.2019	KALOS, Michael D.	(33) United States of America

(51) A61K 48/00	A45D 34/02	A61L 27/30
C08G 83/00	(11) EP3824759	A61L 27/24
C08F 210/02	(21) EP19210007.1	A61L 27/50
C08G 73/02	(47) 28.12.2022	A61L 31/04
A61K 47/60	(22) 19.11.2019	A61L 31/08
A61K 47/59	(54) DEVICE FOR DIFFUSING VOLATILE	A61L 31/14
A61K 47/69	SUBSTANCES	A61L 31/00
A61P 3/10	(73) Zobebe Holding SpA	(11) EP3538170
A61P 7/00	(72) DEFLORIAN, Stefano	(21) EP17869038.4
A61P 9/00	SORDO, Walter	(47) 28.12.2022
A61P 35/00	GARCIA, Ruben	(87) US2017061598
C12N 15/11	(51) A61L 15/18	17.05.2018
(11) EP3277743	A61L 15/26	(22) 14.11.2017
(21) EP16774354.1	A61L 15/42	(54) METHODS FOR CARBONATE
(47) 28.12.2022	A61L 15/48	SURFACE COATING AND RELATED
(87) US2016025670	(11) EP3634505	BONE VOID FILLER COMPOSITIONS
06.10.2016	(21) EP18728396.5	(73) Cap Biomaterials, LLC
(22) 01.04.2016	(47) 28.12.2022	(72) SHIMP, Lawrence, A.
(54) HYPERBRANCHED POLYMERS AND	(87) EP2018064769	(31) 201662421541 P
POLYPLEXES AND DNA OR RNA	13.12.2018	(32) 14.11.2016
DELIVERY SYSTEMS INCLUDING THE	(22) 05.06.2018	(33) United States of America
SAME	(54) FOAM IN WOUND TREATMENT	(51) A61L 27/46
(73) The Regents of The University of	(73) Mölnlycke Health Care AB	A61L 31/12
Michigan	(72) GARDINER, Eric S.	(11) EP3946488
(72) MA, Peter, X.	JOHNSON, Jason Raymond	(21) EP20731134.1
ZHANG, Xiaojin	(31) 17175238	(47) 28.12.2022
(31) 201562142433 P	(32) 09.06.2017	(87) EP2020066279
(32) 02.04.2015	(33) European Patent Office (EPO)	17.12.2020
(33) United States of America	(51) A61L 27/12	(22) 12.06.2020
(51) A61K 51/04	A61L 27/46	(54) COLLAGEN MATRIX OR GRANULATE
A61K 51/08	A61L 31/14	BLEND OF BONE SUBSTITUTE
C07F 9/24	(11) EP3541438	MATERIAL
C07F 9/58	(21) EP17808806.8	(73) Geistlich Pharma AG
C07K 1/13	(47) 28.12.2022	(72) ZIHLMANN, Claudio
(11) EP3560937	(87) EP2017079312	BUFLER, Michael
(21) EP19179758.8	24.05.2018	(31) 19180350
(47) 28.12.2022	(22) 15.11.2017	(32) 14.06.2019
(22) 14.03.2014	(54) IMPLANT AND KIT FOR TREATING A	(33) European Patent Office (EPO)
(54) METHODS OF PREPARING 18F-	BONE DEFECT	(51) A61L 31/04
LABELED PSMA-TARGETED PET	(73) Aesculap AG	A61L 31/16
IMAGING AGENTS AND DIAGNOSTIC	(72) ABELE, Wolfgang	A61L 26/00
METHODS THEREWITH	HETTICH, Georg	A61K 31/722
(73) Cancer Targeted Technology LLC	KÖNIG, Silke	(11) EP3737432
Washington State University	(31) 102016222603	(21) EP19703448.1
(72) BERKMAN, Clifford	(32) 16.11.2016	(47) 28.12.2022
STEKHOVA, Svetlana, A.	(33) Germany	(87) US2019013179
(31) 201361798108 P	(51) A61L 27/36	18.07.2019
(32) 15.03.2013	A61L 27/38	(22) 11.01.2019
(33) United States of America	(11) EP3509651	(54) POWDER FOR ACHIEVING
(51) A61L 2/22	(21) EP17768594.8	HEMOSTASIS
A61L 2/20	(47) 28.12.2022	(73) Boston Scientific Scimed Inc.
(11) EP3651813	(87) US2017050278	(72) FREDRICKSON, Gerald
(21) EP18752857.5	15.03.2018	SMITH, Amanda L.
(47) 28.12.2022	(22) 06.09.2017	PIC, Andrew
(87) IB2018055163	(54) USE OF RESECTED LIVER SERUM	GERVASIO, Sophia
17.01.2019	FOR WHOLE LIVER ENGINEERING	LYDECKER, Lauren
(22) 12.07.2018	(73) Miromatrix Medical Inc.	(31) 201862616751 P
(54) STERILIZATION DEVICE AND METHOD	Mayo Foundation for Medical Education	(32) 12.01.2018
(73) SteriO3, LLC	and Research	(33) United States of America
(72) TAGGART, Daniel	(72) ROSS, Jeffrey	(51) A61M 1/02
MCKELVIE, Jessica	YOUNG, Anne	A61M 1/36
STEPPAN, James	HAARSTAD, Allie	B04B 13/00
HINKLIN, Thomas R.	NYBERG, Scott	(11) EP3693036
BOXLEY, Chett	(31) 201662383772 P	(21) EP20163767.5
(31) 201715649447	(32) 06.09.2016	(47) 28.12.2022
(32) 13.07.2017	(33) United States of America	(22) 16.06.2016
(33) United States of America	(51) A61L 27/36	(54) BLOOD PROCESSING SYSTEMS FOR
(51) A61L 9/12	A61L 27/56	COLLECTING BLOOD COMPONENTS

(73) Mallinckrodt Pharmaceuticals Ireland Limited	RUECKERT, Jochen	(73) F. Hoffmann-La Roche AG
(72) BRIGGS, Dennis	(31) 102018108203	(72) MEENKEN, Thomas
DO, Simon	(32) 06.04.2018	(31) 16186929
RABENO, Eric	(33) Germany	(32) 02.09.2016
SANGARE, Abdoulaye	(51) A61M 5/172	(33) European Patent Office (EPO)
FLUCK, Vicki	(11) EP2552514	(51) A61M 11/04
TUREK, Christopher	(21) EP11719683.2	A61M 16/00
VANDLIK, Mark	(47) 28.12.2022	A24F 40/42
(31) 201662288324 P	(87) US2011030553	A24F 40/485
201562182123 P	13.10.2011	A24F 40/465
(32) 28.01.2016	(22) 30.03.2011	A61M 15/06
19.06.2015	(54) INFUSION PUMP METHODS, SYSTEMS AND APPARATUS	(11) EP3876763
(33) United States of America	(73) DEKA Products Limited Partnership	(21) EP19835943.2
United States of America	(72) KAMEN, Dean	(47) 28.12.2022
(51) A61M 1/36	(72) KAMEN, Dean	(87) US2019059880
(11) EP3708198	MANDRO, Marc, A.	14.05.2020
(21) EP20162680.1	DURAND, Kevin, A.	(22) 05.11.2019
(47) 28.12.2022	LANIER, Gregory, R.	(54) A CARTRIDGE FOR A VAPORIZER DEVICE
(22) 12.03.2020	GRANT, Kevin, L.	(73) Juul Labs, Inc.
(54) FILTER ASSEMBLY	GRAY, Larry, B.	(72) STRATTON, Andrew, J.
(73) Terumo Kabushiki Kaisha	TRACEY, Brian, D.	(31) 201862755965 P
(72) ITOU, Yoshitaka	(31) 319142 P	(32) 05.11.2018
MATSUMOTO, Shinya	(32) 30.03.2010	(33) United States of America
ISHII, Shouta	(33) United States of America	(51) A61M 13/00
MOTOMURA, Tadahiro	(51) A61M 5/172	A61M 16/00
SAITO, Yoshiyuki	(11) EP3621676	(11) EP3890810
SAKIMOTO, Aiko	(21) EP18798966.0	(21) EP19816949.2
ITO, Takenari	(47) 28.12.2022	(47) 28.12.2022
TAKAHASHI, Haruhiko	(87) US2018032369	(87) NL2019050798
FUKUOKA, Tetsuya	15.11.2018	11.06.2020
(31) 2019044690	(22) 11.05.2018	(22) 02.12.2019
(32) 12.03.2019	(54) HIERARCHICAL ADAPTIVE CLOSED-LOOP FLUID RESUSCITATION AND CARDIOVASCULAR DRUG ADMINISTRATION SYSTEM	(54) AN INSUFFLATOR FOR EXPOSING STRUCTURES WITHIN AN INTERNAL BODY CAVITY
(33) Japan	(73) Autonomous Healthcare, Inc.	(73) Erasmus University Medical Center Rotterdam
(51) A61M 5/142	(72) GHOLAMI, Behnood	Politecnico di Milano
A61M 25/00	(31) 201762505232 P	(72) STERKE, Frank
F04B 5/02	(32) 12.05.2017	VAN WETERINGEN, Willem
F04B 11/00	(33) United States of America	VLOT, Johnny
(11) EP2968749	(51) A61M 5/178	GOOS, Tomas Gijbertus
(21) EP14779525.6	A61M 5/31	DELLACÀ, Raffaele Lorenzo
(47) 28.12.2022	A61M 5/315	MILESI, Ilaria
(87) US2014020321	(11) EP3768354	(31) 2022127
09.10.2014	(21) EP19715310.9	(32) 03.12.2018
(22) 04.03.2014	(47) 28.12.2022	(33) Netherlands
(54) DOUBLE ACTION INFUSION SYSTEM	(87) US2019022976	(51) A61M 16/00
(73) Boston Scientific Medical Device Limited	26.09.2019	A61M 16/20
(72) BONNETTE, Michael, J.	(22) 19.03.2019	A61M 16/08
MORRIS, David, B.	(54) SYRINGE PUMP VIBRATION MODULE TO REDUCE STOPPER FRICTION	(11) EP3423137
(31) 201313794528	(73) Becton, Dickinson and Company	(21) EP17759377.9
(32) 11.03.2013	(72) MCKINNON, Austin Jason	(47) 28.12.2022
(33) United States of America	(31) 201862645423 P	(87) IL2017050249
(51) A61M 5/145	(32) 20.03.2018	08.09.2017
A61M 5/142	(33) United States of America	(22) 27.02.2017
(11) EP3773799	(51) A61M 5/24	(54) PORTABLE LIGHT-WEIGHT VENTILATOR SYSTEM
(21) EP19718589.5	A61M 5/28	(73) Inovytec Medical Solutions Ltd.
(47) 28.12.2022	A61M 5/31	(72) SHAHAR, Mark
(87) EP2019058488	A61M 5/315	BARKAI, Nir
10.10.2019	(11) EP3506967	(31) 201662300933 P
(22) 04.04.2019	(21) EP17754184.4	(32) 29.02.2016
(54) METHOD FOR CALIBRATING A SYRINGE PUMP, SYRINGE PUMP AND DEVICE	(47) 28.12.2022	(33) United States of America
(73) Fresenius Medical Care Deutschland GmbH	(87) EP2017071310	(51) A61M 16/06
(72) TANNEBERG, Michael	08.03.2018	A41D 13/11
SIEBERT, Jochen	(22) 24.08.2017	(11) EP3693047
ROGMANN, Ralf	(54) FLUID DRUG CARTRIDGE TYPE IDENTIFICATION	(21) EP20166610.4
DIETZ, Patrick		

(47) 28.12.2022	201562222435 P	MUNSINGER, Joel
(22) 17.07.2015	(32) 18.08.2016	(31) 201562257952 P
(54) CLIP CONNECTOR AND MASK ASSEMBLY	23.09.2015	(32) 20.11.2015
(73) Fisher & Paykel Healthcare Limited	(33) United States of America	(33) United States of America
(72) OLSEN, Gregory James	United States of America	(51) A61M 37/00
ROSE, Hamish Joshua	(51) A61M 16/16	A61K 9/00
(31) 201462026452 P	(11) EP3544663	A61K 8/73
(32) 18.07.2014	(21) EP17874533.7	A61K 8/81
(33) United States of America	(47) 28.12.2022	A61K 8/85
(51) A61M 16/06	(87) AU2017051276	A61K 47/36
A61M 16/08	31.05.2018	A61K 47/32
A61M 16/00	(22) 21.11.2017	A61Q 19/08
(11) EP2919842	(54) HUMIDIFIER RESERVOIR	(11) EP3220997
(21) EP13854902.7	(73) ResMed Pty Ltd	(21) EP15816258.6
(47) 28.12.2022	(72) BAYER, Christian	(47) 28.12.2022
(87) NZ2013000211	LANG, Bernd Christoph	(87) JP2015082633
22.05.2014	BERTINETTI, Mark	19.05.2016
(22) 15.11.2013	BURZ, Johann Sebastian	(22) 13.11.2015
(54) NASAL SEAL AND INTERFACE	EIBL, Robert	(54) COSMETIC USE FOR REDUCING WRINKLES OF A MICRONEEDLE
(73) Fisher & Paykel Healthcare Limited	KASPARBAUER, Martin	(73) L'Oréal
(72) SIEW, Silas Sao Jin	KIRCHBERGER, Andreas	(72) LIU, Shu
GALGALI, Amit	NICKOL, Johannes	OHNISHI, Kazuyuki
GRAHAM, Ryan Anthony	ROTHFUSS, Jens	(31) 2014231306
THOMPSON, Mark Andrew	(31) 2016904769	(32) 14.11.2014
ALLAN, Olivia Marie	(32) 22.11.2016	(33) Japan
SINTIVE, Bruno	(33) Australia	(51) A61M 39/16
(31) 201261727322 P	(51) A61M 16/20	A61M 39/20
(32) 16.11.2012	A61M 16/08	(11) EP3746173
(33) United States of America	A61M 16/16	(21) EP19705055.2
(51) A61M 16/06	(11) EP3856314	(47) 28.12.2022
A62B 18/02	(21) EP19702059.7	(87) US2019015789
A61M 16/00	(47) 28.12.2022	08.08.2019
A61M 16/08	(87) EP2019051781	(22) 30.01.2019
A61M 16/20	30.07.2020	(54) UNIVERSAL CONNECTOR OR CAP FOR MALE AND FEMALE THREADED FITTINGS
(11) EP3892319	(22) 24.01.2019	(73) Becton, Dickinson and Company
(21) EP21177409.6	(54) LEAKAGE VALVE AND VENTILATION TUBE SYSTEM	(72) MARICI, Paul
(47) 28.12.2022	(73) Löwenstein Medical Technology S.A.	RYAN, Kevin M.
(22) 21.02.2014	(72) KLINGER, Miriam	JIANG, Chang
(54) PATIENT INTERFACE WITH VENTING	(51) A61M 25/01	CHAN, Michael Kwong
(73) Fisher & Paykel Healthcare Limited	A61M 25/06	(31) 201862623858 P
(72) GORDON, Callum Ross	A61M 25/09	(32) 30.01.2018
THOMPSON, Mark Andrew	(11) EP3886962	(33) United States of America
RICHARDSON, Thomas Mark	(21) EP19817168.8	(51) A61M 39/18
HUDDART, Brett John	(47) 28.12.2022	A61M 39/26
GANE, Ronald	(87) EP2019082867	(11) EP3682939
(31) 201361845102 P	04.06.2020	(21) EP20162113.3
201361767586 P	(22) 28.11.2019	(47) 28.12.2022
(32) 11.07.2013	(54) EXTENDED DWELL AND MIDLINE CATHETERS AND RELATED METHODS OF ASSEMBLING	(22) 26.03.2014
21.02.2013	(73) B. Braun Melsungen AG	(54) STERILE CONNECTION/ DISCONNECTION COUPLING AND METHOD
(33) United States of America	(72) KHOO, Teng Lip	(73) EMD Millipore Corporation
United States of America	LEW, Lilian Zhi Ling	(72) Vigna, James
(51) A61M 16/08	(31) 201862772195 P	Muldoon, Joseph
A61M 16/06	(32) 28.11.2018	Cieciuch, John
(11) EP3352829	(33) United States of America	Langlois, Robert
(21) EP16847655.4	(51) A61M 25/10	(31) 201361806442 P
(47) 28.12.2022	(11) EP3377165	(32) 29.03.2013
(87) AU2016050892	(21) EP16805665.3	(33) United States of America
30.03.2017	(47) 28.12.2022	(51) A61N 1/05
(22) 23.09.2016	(87) US2016062527	A61B 5/24
(54) ELBOW ASSEMBLY	26.05.2017	A61N 1/36
(73) ResMed Pty Ltd	(22) 17.11.2016	A61B 5/11
(72) GOLDSPINK, Lachlan Richard	(54) BALLOON CATHETER	A61B 5/16
PATERSON, Robert Anthony	(73) Boston Scientific Scimed, Inc.	A61B 5/00
SHANMUGA SUNDARA, Shiva Kumar	(72) PRINDLE, Katherine M.	
SHORT, Skye Kimberley	HORN, Daniel James	
VERMA, Hargopal		
(31) 201662376718 P		

A61F 2/72	(51) A61N 1/372	HARTMAN, Joon
A61F 4/00	(11) EP3461532	PELTOLA, Jarkko
A61B 5/375	(21) EP18201843.2	NORD, Janne
A61N 1/375	(47) 28.12.2022	(31) 201314039920
(11) EP3782696	(22) 14.09.2015	201361793655 P
(21) EP20199221.1	(54) GRAPHICAL USER INTERFACE FOR	(32) 27.09.2013
(47) 28.12.2022	PROGRAMMING NEUROSTIMULATION	15.03.2013
(22) 02.06.2016	PULSE PATTERNS	(33) United States of America
(54) SYSTEMS FOR NEURAL BRIDGING OF	(73) Boston Scientific Neuromodulation	United States of America
THE NERVOUS SYSTEM	Corporation	<hr/>
(73) Battelle Memorial Institute	(72) MOFFITT, Michael A.	(51) A61N 5/10
(72) BOUTON, Chad	KOTHANDARAM, Sridhar	(11) EP3655101
ANNETTA, Nicholas	(31) 201462050505 P	(21) EP18755712.9
FRIEDENBERG, David A.	(32) 15.09.2014	(47) 28.12.2022
SHARMA, Gaurav	(33) United States of America	(87) EP2018069621
(31) 201562169820 P	<hr/>	24.01.2019
(32) 02.06.2015	(51) A61N 1/372	(22) 19.07.2018
(33) United States of America	A61N 1/39	(54) TRIGGERED TREATMENT SYSTEMS
<hr/>	A61N 1/375	(73) Siemens Healthineers International AG
(51) A61N 1/36	A61N 1/365	Varian Medical Systems Inc
A61N 1/05	A61N 1/368	(72) SMITH, Christel
A61N 1/37	A61N 1/362	ZANKOWSKI, Corey
A61N 1/39	A61B 5/00	TIMMER, Jan Hein
(11) EP3481497	A61B 5/349	KAISSEL, Wolfgang
(21) EP17768601.1	(11) EP3474945	KHUNTIA, Deepak
(47) 28.12.2022	(21) EP17737146.5	ABEL, Eric
(87) US2017050300	(47) 28.12.2022	STAR-LACK, Josh
15.03.2018	(87) US2017039312	NOEL, Camille
(22) 06.09.2017	04.01.2018	(31) 201715657072
(54) COMPLIANCE VOLTAGE MONITORING	(22) 26.06.2017	(32) 21.07.2017
AND ADJUSTMENT IN AN	(54) CARDIAC THERAPY SYSTEM USING	(33) United States of America
IMPLANTABLE MEDICAL DEVICE	SUBCUTANEOUSLY SENSED P-	<hr/>
(73) Boston Scientific Neuromodulation	WAVES FOR RESYNCHRONIZATION	(51) A61N 5/10
Corporation	PACING MANAGEMENT	(11) EP3875147
(72) FELDMAN, Emanuel	(73) Cardiac Pacemakers, Inc.	(21) EP21159430.4
MARNFELDT, Goran, N.	(72) HAHN, Stephen J.	(47) 28.12.2022
HERMANN, Kenneth	SIEJKO, Krzysztof Z.	(22) 25.02.2021
(31) 201715696005	LINDER, William J.	(54) TREATMENT PLANNING
201662425765 P	MAILE, Keith R.	(73) Elekta Instrument AB
201662386000 P	BRISBEN, Amy Jean	(72) Nordström, Håkan
(32) 05.09.2017	HERRMANN, Keith L.	Wang Erlandsson, Joakim
23.11.2016	KOOP, Brendan E.	Lundqvist, Fredrik
10.09.2016	HAASL, Benjamin J.	Hennix, Marcus
(33) United States of America	(31) 201662355121 P	Somell, Björn
United States of America	(32) 27.06.2016	(31) 202016806004
United States of America	(33) United States of America	(32) 02.03.2020
<hr/>	<hr/>	(33) United States of America
(51) A61N 1/365	(51) A61N 1/39	(51) A61P 35/00
(11) EP3880297	(11) EP2767309	A61P 37/00
(21) EP19817843.6	(21) EP14154810.7	C07D 403/12
(47) 28.12.2022	(47) 28.12.2022	C07D 401/14
(87) US2019061138	(22) 12.02.2014	C07D 405/14
22.05.2020	(54) Defibrillator electrode identification	C07D 231/14
(22) 13.11.2019	system	C07D 401/12
(54) METHODS AND APPARATUS FOR	(73) HeartSine Technologies Limited	C07D 403/14
REDUCING CURRENT DRAIN IN A	(72) McIntyre, Allister	C07D 405/12
MEDICAL DEVICE	Anderson, Johnny	C07D 413/12
(73) Medtronic, Inc.	(31) 201302625	C07D 471/04
(72) SHELDON, Todd J.	(32) 14.02.2013	C07D 417/12
GANION, Vincent P.	(33) United Kingdom	(11) EP3589618
HERR, Gregory R.	<hr/>	(21) EP18712082.9
HUDZIAK, Michael L.	(51) A61N 5/10	(47) 28.12.2022
PRONOVICI, Juliana E.	(11) EP3403694	(87) EP2018054733
SOLHEIM, Paul R.	(21) EP18179560.0	07.09.2018
(31) 201916681278	(47) 28.12.2022	(22) 27.02.2018
201862767009 P	(22) 14.03.2014	(54) PYRAZOLE DERIVATIVES AS
(32) 12.11.2019	(54) RADIATION THERAPY PLANNING	BROMODOMAIN INHIBITORS
14.11.2018	USING INTEGRATED MODEL	(73) GlaxoSmithKline Intellectual Property
(33) United States of America	(73) Siemens Healthineers International AG	(No. 2) Limited
United States of America	(72) KUUSELA, Esa	(72) ATKINSON, Stephen John
<hr/>	MARIA, Cordero Marcos	

DEMONT, Emmanuel Hubert	13.09.2018	22.05.2020
HARRISON, Lee Andrew	(22) 06.03.2018	(22) 13.11.2019
LIWICKI, Gemma Michele	(54) MULTICOLOR MOLDED ARTICLE	(54) COUPLING DEVICE AND ASSISTANCE
LUCAS, Simon Christopher Cranko	MOLDING MATERIAL WITH	SYSTEM FOR LEARNING SLIDING
PRESTON, Alexander G	EXCELLENT RIGIDITY AND FIRE	SPORT ON TWO GLIDE BOARD
SEAL, Jonathan, Thomas	RESISTANCE	(73) Zagury, Alain
WALL, Ian David	(73) Sekisui Chemical Co., Ltd.	(72) Zagury, Alain
WATSON, Robert J	(72) SAWA, Kazuhiro	(31) 1871505
(31) 201716374	MAEDA, Satoshi	(32) 13.11.2018
201703283	MIYATA, Shingo	(33) France
(32) 06.10.2017	(31) 2017042157	(51) A63F 13/795
01.03.2017	(32) 06.03.2017	A63F 13/65
(33) United Kingdom	(33) Japan	A63F 13/216
United Kingdom	(51) A62C 37/44	G01C 21/26
(51) A61P 37/08	A62C 3/08	(11) EP3887008
(11) EP3091029	(11) EP2727631	(21) EP19727598.5
(21) EP16169916.0	(21) EP13194120.5	(47) 28.12.2022
(47) 28.12.2022	(47) 28.12.2022	(87) EP2019063017
(22) 30.10.2012	(22) 29.08.2006	04.06.2020
(54) ANTI-IL13 ANTIBODY FORMULATIONS	(54) Fire sensor, fire detection system, fire	(22) 21.05.2019
(73) F. Hoffmann-La Roche AG	suppression system, and combinations	(54) METHOD FOR OPERATING A
(72) DESHMUKH, Ajay	thereof	VIRTUAL-REALITY OUTPUT DEVICE,
ZEID, Joumana	(73) Federal Express Corporation	SYNCHRONISATION UNIT, MOTOR
SCHERER, Thomas M.	(72) Popp, James B.	VEHICLE
(31) 201161553916 P	Benjamin, Arthur J.	(73) Audi AG
(32) 31.10.2011	(31) 213940	(72) PROFENDINER, Daniel
(33) United States of America	(32) 30.08.2005	(31) 102018220685
(51) A61Q 5/02	(33) United States of America	(32) 30.11.2018
A61Q 5/12	(51) A62C 37/44	(33) Germany
A61K 8/44	A62C 3/08	(51) A63G 1/00
A61K 8/73	(11) EP2727632	A63G 7/00
A61K 8/04	(21) EP13194124.7	(11) EP3852895
A61K 8/81	(47) 28.12.2022	(21) EP19769354.2
A61K 8/46	(22) 29.08.2006	(47) 28.12.2022
(11) EP3694607	(54) Fire sensor, fire detection system, fire	(87) US2019049474
(21) EP18796210.5	suppression system, and combinations	26.03.2020
(47) 28.12.2022	thereof	(22) 04.09.2019
(87) US2018055104	(73) Federal Express Corporation	(54) SYSTEMS AND METHODS FOR
18.04.2019	(72) Popp, James B.	ACTUATING A SHOW ELEMENT ON A
(22) 10.10.2018	Benjamin, Arthur J.	RIDE VEHICLE
(54) COMPACT SHAMPOO COMPOSITION	(31) 213940	(73) Universal City Studios LLC
(73) The Procter & Gamble Company	(32) 30.08.2005	(72) SABENS, Scott David
(72) SONG, Brian, Xiaoqing	(33) United States of America	SORRENTINO, Christine Marie
CONSTANTINIDES, Ioannis, Constantine	(51) A63B 59/70	SCHWARTZ, Justin Michael
(31) 201762570377 P	B29C 70/08	THOMAS, Eric Shawn
(32) 10.10.2017	B29C 70/86	VANCE, Eric Alan
(33) United States of America	B29C 70/24	(31) 201916551333
(51) A62B 35/00	B29L 31/52	201862732310 P
(11) EP3568210	A63B 102/24	(32) 26.08.2019
(21) EP18738925.9	(11) EP3519062	17.09.2018
(47) 28.12.2022	(21) EP17781332.6	(33) United States of America
(87) IL2018050047	(47) 28.12.2022	United States of America
19.07.2018	(87) US2017053985	(51) A63H 33/04
(22) 11.01.2018	05.04.2018	A63H 33/08
(54) PORTABLE ANCHORING APPARATUS	(22) 28.09.2017	(11) EP3914367
FOR BUILDINGS	(54) HOCKEY BLADE WITH PIN-	(21) EP20701729.4
(73) Highnovate	REINFORCED CORE	(47) 28.12.2022
(72) KATZNELSON, Beeri Berl	(73) Bauer Hockey Ltd.	(87) EP2020051449
MASTBOIM, Eyal	(72) CARON KARDOS, Jean-Frédéric	30.07.2020
PERETZ, Idan	DUCHARME, Mathieu	(22) 22.01.2020
(31) 25006617	(31) 201615280603	(54) A TOY SYSTEM FOR AUGMENTED
(32) 11.01.2017	(32) 29.09.2016	REALITY
(33) Israel	(33) United States of America	(73) LEGO A/S
(51) A62C 2/06	(51) A63C 5/16	(72) SCHOU, Anders Antoft
(11) EP3594424	(11) EP3880321	ZAVADA, Andrei
(21) EP18763284.9	(21) EP19801880.6	SØDERBERG, Jesper
(47) 28.12.2022	(47) 28.12.2022	(31) PA201970046
(87) JP2018008488	(87) EP2019081121	(32) 23.01.2019

(33) Denmark	PESCHEL, Andreas	(11) EP3743203
(51) B01D 15/18	HENTSCHEL, Benjamin	(21) EP19700298.3
A61K 38/28	(31) 102018009198	(47) 28.12.2022
C07K 14/62	(32) 22.11.2018	(87) EP2019050746
B01D 15/38	(33) Germany	01.08.2019
B01D 15/36	(51) B01F 25/441	(22) 14.01.2019
B01D 15/32	B01F 25/442	(54) PLANT FOR THE SYNTHESIS OF
(11) EP3171888	C08C 1/065	MELAMINE WITH OFFGAS RECOVERY
(21) EP15824392.3	(11) EP3694635	IN A TIED-IN UREA PLANT
(47) 28.12.2022	(21) EP18783031.0	(73) CASALE SA
(87) US2015040675	(47) 28.12.2022	(72) SCOTTO, Andrea
28.01.2016	(87) EP2018077887	FUMAGALLI, Matteo
(22) 16.07.2015	18.04.2019	(31) 18153653
(54) CHROMATOGRAPHY PROCESS FOR	(22) 12.10.2018	(32) 26.01.2018
PURIFICATION OF INLSULIN AND	(54) A PROCESS FOR PRODUCTION	(33) European Patent Office (EPO)
INSULIN ANALOGS	OF ELASTOMER AGGLOMERATE	(51) B01J 20/08
(73) Merck Sharp & Dohme LLC	COMPOSITION, ELASTOMER	B01J 20/20
(72) WATSON, Douglas, S.	AGGLOMERATE COMPOSITION AND	B01J 20/28
ORTIGOSA, Allison, D.	ITS USE	B01J 20/32
RAUSCHER, Michael, A.	(73) SABIC Global Technologies B.V.	C02F 1/28
STORY, Kathryn, M.	(72) LI, Dejin	C02F 1/42
(31) 201462026719 P	NELSON, Mark, Erik	C02F 101/10
(32) 21.07.2014	FERRARIS, Dane	C02F 101/14
(33) United States of America	LOWRY, Vern	(11) EP3265224
(51) B01D 46/00	(31) 17196279	(21) EP16759281.5
B01D 46/10	(32) 13.10.2017	(47) 28.12.2022
B01D 46/24	(33) European Patent Office (EPO)	(87) US2016019279
B01D 46/52	(51) B01F 35/60	09.09.2016
(11) EP3995199	B01F 35/30	(22) 24.02.2016
(21) EP20205875.6	F16J 15/00	(54) HYBRID ION EXCHANGE MATERIAL
(47) 28.12.2022	(11) EP3837041	AND METHOD FOR MAKING THE
(22) 05.11.2020	(21) EP19746505.7	SAME
(54) FILTER AND AIR PURIFICATION	(47) 28.12.2022	(73) Graver Technologies, LLC
DEVICE	(87) EP2019071088	(72) KNOLL, James
(73) Carl Freudenberg KG	20.02.2020	HENDERSON, Katie
(72) Schumacher, Sascha	(22) 06.08.2019	BORTUN, Anatoly
Schmitt, Thorsten	(54) AN AGITATOR ASSEMBLY	(31) 201514637786
Häfner, Uwe	(73) Sulzer Management AG	(32) 04.03.2015
Wingender, Judith	(72) OTTELIN, Juha	(33) United States of America
(51) B01D 46/00	(31) 18189166	(51) B01J 20/14
B01D 50/00	(32) 15.08.2018	B01J 20/32
F02M 35/02	(33) European Patent Office (EPO)	G01N 30/00
(11) EP3870336	(51) B01J 8/06	G01N 1/40
(21) EP18795494.6	B01J 8/02	G01N 30/60
(47) 28.12.2022	B01J 23/28	(11) EP3308133
(87) EP2018079272	C07H 1/00	(21) EP16732513.3
30.04.2020	C07H 3/02	(47) 28.12.2022
(22) 25.10.2018	B01J 19/08	(87) EP2016063322
(54) AN ENGINE AIR FILTER UNIT FOR A	(11) EP3753632	15.12.2016
VEHICLE	(21) EP18935587.8	(22) 10.06.2016
(73) Volvo Construction Equipment AB	(47) 28.12.2022	(54) SAMPLE PREP METHOD
(72) GATEAU, Alexandre	(87) CN2018108703	(73) Biotage AB
(51) B01D 53/22	02.04.2020	(72) BAEK, Sung
B01D 53/32	(22) 29.09.2018	(31) 15171641
C01B 32/40	(54) CONTINUOUS FLOW CATALYTIC	(32) 11.06.2015
C25B 15/08	REACTOR, ASSEMBLING METHOD	(33) European Patent Office (EPO)
(11) EP3883671	THEREFOR AND APPLICATION	(51) B01J 23/70
(21) EP19805140.1	THEREFOR	B01J 23/78
(47) 28.12.2022	(73) Ningbo Institute of Materials Technology	B01J 23/80
(87) EP2019025378	& Engineering, Chinese Academy of	B01J 35/02
28.05.2020	Sciences	B01J 37/02
(22) 05.11.2019	(72) ZHANG, Yexin	B01J 37/08
(54) METHOD FOR CHANGING THE	ZHANG, Jian	B01J 37/00
OPERATING MODE OF AN	CHEN, Hui	C07C 5/48
ELECTROLYSIS SYSTEM, AND	YANG, Jie	B01J 37/03
ELECTROLYSIS SYSTEM	(51) B01J 19/00	B01J 23/00
(73) Linde GmbH	C07D 251/60	B01J 35/00
(72) CICHY, Thomas	C07C 273/12	B01J 35/08

(11) EP3441139	(32) 17.05.2016	(73) Oxford University Innovation Limited
(21) EP18784965.8	07.08.2015	(72) FEUERBORN, Alexander
(47) 28.12.2022	(33) Japan	WALSH, Edmond
(87) KR2018004269	Japan	(31) 201903743
18.10.2018	(51) B01L 3/00	(32) 19.03.2019
(22) 12.04.2018	C12N 15/10	(33) United Kingdom
(54) CATALYST FOR OXIDATIVE	C12N 15/09	(51) B01L 3/02
DEHYDROGENATION REACTION,	(11) EP3700672	B65D 83/00
METHOD FOR PRODUCING SAME,	(21) EP18801153.0	B05B 11/04
AND OXIDATIVE DEHYDROGENATION	(47) 28.12.2022	B05B 11/06
METHOD USING SAME	(87) US2018057350	B05B 11/00
(73) LG Chem, Ltd.	02.05.2019	(11) EP3743210
(72) SUH, Myung Ji	(22) 24.10.2018	(21) EP19710021.7
KO, Dong Hyun	(54) METHODS FOR SAMPLE	(47) 28.12.2022
CHA, Kyong Yong	PREPARATION AND ANALYSIS	(87) FR2019050166
CHOI, Dae Heung	(73) 10X Genomics, Inc.	01.08.2019
HWANG, Ye Seul	(72) BELHOCINE, Kamila	(22) 25.01.2019
HAN, Jun Kyu	LEE, Josephine	(54) ASSEMBLY METHOD FOR
HWANG, Sun Hwan	MESCHI, Francesca	ASSEMBLING A FLUID PRODUCT
(31) 20180042150	MONTESCLAROS, Luz	DISPENSER
20170047503	PFEIFFER, Katherine	(73) APTAR France SAS
(32) 11.04.2018	PRICE, Andrew D.	(72) DECOTTIGNIES, Laurent
12.04.2017	SAPIDA, Jerald	LAFOSSE, Alain
(33) Korea (Republic)	SUKOVICH, David	BERNARD, Jacky
Korea (Republic)	WHEELER, Tobias Daniel	(31) 1850642
(51) B01J 23/888	YIN, Yifeng	(32) 26.01.2018
B01J 23/30	(31) 201762578225 P	(33) France
B01J 37/02	(32) 27.10.2017	(51) B01L 9/06
B01J 37/20	(33) United States of America	G01N 35/00
C10G 45/08	(51) B01L 3/00	G01N 35/02
C10G 47/12	G01N 1/00	G01N 35/10
B01J 31/02	G01N 1/28	B65G 47/244
B01J 31/22	(11) EP3277426	G01N 35/04
(11) EP2799132	(21) EP16711310.9	(11) EP3621741
(21) EP14305438.5	(47) 28.12.2022	(21) EP18799054.4
(47) 28.12.2022	(87) EP2016056414	(47) 28.12.2022
(22) 26.03.2014	06.10.2016	(87) US2018031566
(54) METHOD FOR PREPARING A	(22) 23.03.2016	15.11.2018
TUNGSTEN CATALYST THAT CAN	(54) IMPROVEMENTS IN AND RELATING	(22) 08.05.2018
BE USED IN HYDROCRACKING OR	TO BIOLOGICAL SAMPLE	(54) SAMPLE RACK FOR SAMPLE
HYDROTREATMENT	COLLECTORS AND HANDLING	ANALYSIS SYSTEM
(73) IFP Energies nouvelles	THEREOF	(73) Siemens Healthcare Diagnostics Inc.
(72) ALPHAZAN, Thibault	(73) Global Life Sciences Solutions	(72) PERRY, William
BONDUELLE-SKRZYPCZAK, Audrey	Operations UK Ltd	CHEN, Michael
LEGENS, Christele	(72) TATNELL, Peter, James	GEEHAN, Steven
RAYBAUD, Pascal	HORTON, Jeffrey, Kenneth	HOJER, Gyula
COPERET, Christophe	NOREY, Christopher, George	LASZKA, Norbert
(31) 1353941	PIERCE, Alan, Stuart	(31) 201762504125 P
(32) 30.04.2013	JOHN, Robert	(32) 10.05.2017
(33) France	(31) 201505516	(33) United States of America
(51) B01J 31/10	(32) 31.03.2015	(51) B02C 18/06
C08G 61/02	(33) United Kingdom	B02C 18/24
B01J 27/32	(51) B01L 3/02	(11) EP3450023
B01J 38/52	B01L 3/00	(21) EP18181045.8
B01J 38/56	B01J 19/00	(47) 28.12.2022
(11) EP3309191	C12M 3/06	(22) 30.06.2018
(21) EP16834802.7	(11) EP3941633	(54) IMPROVEMENTS IN OR RELATING TO
(47) 28.12.2022	(21) EP20715172.1	CONE MILLS
(87) JP2016003488	(47) 28.12.2022	(73) Schenck Process Europe GmbH
16.02.2017	(87) GB2020050716	(72) GOODWIN, Anthony
(22) 28.07.2016	24.09.2020	EMERY, Mark
(54) DICYCLOPENTADIENE COMPOUND-	(22) 18.03.2020	(31) 201714114
MODIFIED PHENOLIC RESIN	(54) METHOD AND SYSTEM FOR	(32) 04.09.2017
PRODUCTION METHOD	MANUFACTURING A MICROFLUIDIC	(33) United Kingdom
(73) JFE Chemical Corporation	ARRANGEMENT, METHOD OF	(51) B03D 1/004
(72) TAKEMURA, Kazuya	MANUFACTURING A LIQUID, METHOD	B03D 1/01
(31) 2016098436	OF PERFORMING A BIOLOGICAL	(11) EP3817862
2015157054	ASSAY	(21) EP19734399.9

(47) 28.12.2022	(33) France	HARRISON, Alex
(87) EP2019067538 09.01.2020	(51) B05B 11/00	ZOLDI, Miklos
(22) 01.07.2019	B05B 15/00	(31) 102017206500
(54) COLLECTOR COMPOSITION CONTAINING BIODEGRADABLE COMPOUND AND PROCESS FOR TREATING SILICEOUS ORES	(11) EP2686113	(32) 18.04.2017
(73) Nouryon Chemicals International B.V.	(21) EP12774118.9	(33) Germany
(72) SMOLKO-SCHVARZMAYR, Natalija GUSTAFSSON, Charlotte Ewa Karin GUSTAFSSON, Jan Olof	(47) 28.12.2022	(51) B05B 14/00
(31) 18181479	(87) US2012029468 26.10.2012	(11) EP3888799
(32) 03.07.2018	(22) 16.03.2012	(21) EP21160181.0
(33) European Patent Office (EPO)	(54) DIP TUBE CONNECTORS AND PUMP SYSTEMS USING THE SAME	(47) 28.12.2022
(51) B05B 1/20	(73) The Clorox Company	(22) 02.03.2021
B05B 13/02	(72) GOOD, Robert J.	(54) DEVICE FOR CLOSING AT LEAST ONE OPENING WHEN CHANGING AT LEAST ONE FILTER ELEMENT IN AN EXHAUST AIR FILTER SYSTEM AND A PAINTING SYSTEM WITH SUCH A DEVICE
(11) EP3431185	KELLY, Dennis	(73) Volkswagen Aktiengesellschaft
(21) EP18185074.4	DODD, Joseph K.	(72) Frerichs, Carsten
(47) 28.12.2022	KRESTINE, Joseph R.	(31) 102020204126
(22) 23.07.2018	DEJONG, David L.	(32) 30.03.2020
(54) DRENCH SYSTEM AND METHOD ASSOCIATED WITH COATING APPLICATION	SWEETON, Steven	(33) Germany
(73) Raytheon Technologies Corporation	SCHEIER, Eric	(51) B05C 7/04
(72) HARNER, John	COSTA QUINTAS, Lluís	B01J 37/02
RIEHL, John D.	ESPINOZA, Alejandro	(11) EP3887063
WIGELL, Gary A.	(31) 201113285576	(21) EP19816406.3
MORDEN, Michael A.	201113068875	(47) 28.12.2022
GATES, Brandon A.	(32) 31.10.2011	(87) GB2019053339
(31) 201715656249	(33) United States of America United States of America	04.06.2020
(32) 21.07.2017	(51) B05B 11/00	(22) 26.11.2019
(33) United States of America	G01F 11/26	(54) APPARATUS AND METHOD FOR COATING SUBSTRATES WITH WASHCOATS
(51) B05B 5/025	A47J 37/07	(73) Johnson Matthey Public Limited Company
B05B 5/053	B65D 25/56	(72) BURGESS, Neil
B05B 5/057	(11) EP3426412	SAVAGE, Jamie
(11) EP3632572	(21) EP17764213.9	THOMSON, Craig
(21) EP18809296.9	(47) 28.12.2022	(31) 201819455
(47) 28.12.2022	(87) US2017021877	(32) 29.11.2018
(87) CN2018082274	14.09.2017	(33) United Kingdom
06.12.2018	(22) 10.03.2017	(51) B06B 1/06
(22) 09.04.2018	(54) MEASURED DOSING AND SPRAY BOTTLE FOR MULTI-USE APPLICATIONS AND ASSOCIATED METHOD OF USING	H01L 41/047
(54) WATER DROPLET GENERATING APPARATUS	(73) Ecolab USA Inc.	H01L 41/29
(73) Leshow Electronic Technology Co. Ltd., Hangzhou Beijing Xiaomi Mobile Software Co., Ltd.	(72) THOMAS, Candice J. HARBAUGH, Robin B.	(11) EP3028772
(72) XIAO, Zhaoxian	(31) 201662306467 P	(21) EP15193197.9
(31) 201720651351 U	(32) 10.03.2016	(47) 28.12.2022
(32) 31.05.2017	(33) United States of America	(22) 05.11.2015
(33) China	(51) B05B 12/08	(54) ULTRASONIC PROBE AND METHOD OF MANUFACTURING THE SAME
(51) B05B 11/00	B08B 3/02	(73) SAMSUNG MEDISON CO., LTD.
A45D 34/04	F04B 49/02	(72) Gu, Jin Ho
B05B 15/37	F04B 49/20	Kim, Jae-Yk
A45D 34/00	F04B 17/03	Lee, Jong Mok
(11) EP3917683	B08B 3/00	Cho, Young Mun
(21) EP20739740.7	B05B 1/16	(31) 20150029990
(47) 28.12.2022	F04B 49/08	20140170646
(87) FR2020050121	(11) EP3612320	(32) 03.03.2015
06.08.2020	(21) EP18717909.8	02.12.2014
(22) 27.01.2020	(47) 28.12.2022	(33) Korea (Republic)
(54) FLUID PRODUCT RESERVOIR	(87) EP2018059410	Korea (Republic)
(73) SHISEIDO INTERNATIONAL FRANCE	25.10.2018	(51) B07C 3/08
(72) SOULARD, Fabrice	(22) 12.04.2018	B65G 1/06
SIMON, Bruno	(54) PRESSURE CLEANING DEVICE, METHOD FOR OPERATING A PRESSURE CLEANING DEVICE AND METHOD FOR DETECTING A HOSE ATTACHMENT	G06T 7/13
PEIXOTO, Philippe	(73) Robert Bosch GmbH	B61C 11/04
(31) 1900745	(72) RUTTKAY, Tibor Levente	B07C 5/10
(32) 28.01.2019		B07C 5/34
		B65G 43/08
		B65G 1/04

B65G 1/137	(54) METHOD FOR MANUFACTURING STAMPED PARTS	LAMBERT, Laurent
(11) EP3575006	(73) Feintool International Holding AG	(51) B21K 23/04
(21) EP19182559.5	(72) HOFSTETTER, Sven	B21J 5/08
(47) 28.12.2022	FUCHS, Herbert	B21K 1/12
(22) 11.08.2017	GERSBACH, Jonatan	(11) EP3703882
(54) APPARATUS FOR SORTING ITEMS	(51) B21D 26/041	(21) EP18804427.5
(73) Amazon Technologies, Inc.	C21D 9/08	(47) 28.12.2022
(72) GARRETT, Samuel Gardner	B21D 26/039	(87) JP2018040459
DEWITT, Robert R.	B21D 37/16	09.05.2019
MCVAUGH, Monty	(11) EP3147043	(22) 31.10.2018
STEVENS, Alexander	(21) EP15795621.0	(54) SHAFT DIAMETER ENLARGEMENT
WALSH, James	(47) 28.12.2022	CONDITION SETTING METHOD,
WILSON, Gregory	(87) JP2015064479	SHAFT DIAMETER ENLARGEMENT
(31) 201662374218 P	26.11.2015	METHOD AND SHAFT DIAMETER
(32) 12.08.2016	(22) 20.05.2015	ENLARGEMENT APPARATUS
(33) United States of America	(54) MOLDING DEVICE AND MOLDING METHOD	(73) Neturen Co., Ltd.
(51) B07C 5/36	(73) Sumitomo Heavy Industries, Ltd.	(72) OKAMOTO, Mitsuhiro
(11) EP3153242	(72) ISHIZUKA Masayuki	IKUTA, Fumiaki
(21) EP16189927.3	UENO Norieda	KUWAHARA, Yoshitaka
(47) 28.12.2022	SAIKA Masayuki	MORI, Kazuki
(22) 21.09.2016	KOMATSU Takashi	IKEDA, Takashi
(54) ACTUATION OF A CONVEYING SYSTEM	(31) 2014105885	(31) 2017212187
(73) Deutsche Post AG	(32) 22.05.2014	(32) 01.11.2017
(72) Hartmann, Bernd	(33) Japan	(33) Japan
Tzschichholtz, Ingo	(51) B21F 1/02	(51) B22C 7/02
(31) 102015117241	B65H 57/14	B22C 9/04
(32) 09.10.2015	B65H 59/16	B22C 9/10
(33) Germany	D07B 5/00	B22C 9/22
(51) B08B 3/12	(11) EP3741476	B22C 13/08
C23G 3/02	(21) EP19175428.2	B28B 7/34
(11) EP3877098	(47) 28.12.2022	B28B 1/00
(21) EP19798412.3	(22) 20.05.2019	(11) EP3473350
(47) 28.12.2022	(54) ALIGNING DEVICE FOR STRAIGHTENING A CONDUIT, METHOD FOR BRAKING AT LEAST ONE ROTATABLE ROLL IN AN ALIGNING DEVICE, CABLE PROCESSING MACHINE WITH AN ALIGNMENT DEVICE AND AND UPGRADE KIT FOR A CABLE PROCESSING MACHINE	(21) EP18200526.4
(87) IB2019059490	(73) Schleuniger AG	(47) 28.12.2022
14.05.2020	(72) ZAHLE, Andreas	(22) 15.10.2018
(22) 05.11.2019	VOGT, Otto	(54) METHOD FOR FABRICATING A HIGH TEMPERATURE ENGINEERING STIFFNESS CORE-SHELL MOLD FOR CASTING
(54) ULTRASOUND DEGREASING MANAGEMENT	(51) B21H 3/08	(73) General Electric Company
(73) ArcelorMittal	B21J 15/04	(72) GARAY, Gregory Terrence
(72) RICHEL, Pierre	B21K 1/60	YANG, Xi
SPONEM, Florent	B21J 1/06	HAMPSHIRE, Joseph
(31) PCT/IB2018/058707	F16B 19/10	PRZESLAWSKI, Brian David
(32) 06.11.2018	F16B 37/06	(31) 201715787384
(33) World Intellectual Property Office (WIPO)	B21J 1/02	(32) 18.10.2017
(51) B21D 7/025	B21K 1/70	(33) United States of America
B21D 9/07	B23P 15/00	(51) B22F 9/02
B21D 9/01	C22C 21/06	B22F 1/00
B21D 43/28	(11) EP3815809	B22F 3/10
(11) EP3031542	(21) EP19290112.2	C22C 1/04
(21) EP15201261.3	(47) 28.12.2022	C22C 27/02
(47) 28.12.2022	(22) 04.11.2019	H01G 9/00
(22) 17.11.2010	(54) BLIND RIVET NUT AND MANUFACTURING METHOD THEREFOR	H01G 9/042
(54) METHOD FOR BENDING TUBULAR PRODUCTS	(73) Bollhoff Olatu S.A.	H01G 9/052
(73) Simat SRL	(72) SULLY, Marlène	H01G 9/08
(72) Toniutti, Valdi	BERLIRE, Emmanuelle	(11) EP3895832
(31) UD20090205	BASSET, Raphael	(21) EP21178513.4
(32) 18.11.2009	CASSOT, Jean-Michel	(47) 28.12.2022
(33) Italy		(22) 11.08.2017
(51) B21D 19/00		(54) ELECTROLYTIC CAPACITOR AND METHOD FOR IMPROVED ELECTROLYTIC CAPACITOR ANODES
B21D 28/16		(73) COMPOSITE MATERIALS TECHNOLOGY, Inc.
B21D 53/28		(72) WONG, James
(11) EP3409392		(31) 201762447184 P
(21) EP17000913.8		201662374570 P
(47) 28.12.2022		
(22) 30.05.2017		

- | | | |
|---|---|--|
| (32) 17.01.2017
12.08.2016 | (22) 18.11.2015 | (31) 201615361986 |
| (33) United States of America
United States of America | (54) METHOD AND DEVICE FOR GEAR
CUTTING A WORKPIECE BY MEANS
OF A DIAGONAL GENERATING
METHOD | (32) 28.11.2016
(33) United States of America |
| (51) B22F 10/28
B22F 10/322
B22F 10/366
B22F 10/80
B22F 12/70
B22F 12/90
B23K 26/03
B23K 26/06
B23K 26/082
B23K 26/12
B23K 26/16
B23K 26/342
B29C 64/153
B29C 64/268
B29C 64/371
B29C 64/393
B33Y 10/00
B33Y 50/02 | (73) Liebherr-Verzahntechnik GmbH
(72) Würfel, Robert
(31) 102015000974
(32) 23.01.2015
(33) Germany | (51) B23K 26/146
B23K 26/70
(11) EP3486027
(21) EP17202865.6
(47) 28.12.2022
(22) 21.11.2017
(54) MEASURING A FLUID JET GUIDING A
LASER BEAM
(73) SYNOVA S.A.
(72) Diboine, Jérémie
Hippert, David
Diehl, Helgi
Richerzhagen, Bernold |
| (11) EP3558636
(21) EP17883128.5
(47) 28.12.2022 | (51) B23K 26/00
B23K 26/24
B23K 103/04
(11) EP3763470
(21) EP19185119.5
(47) 28.12.2022
(22) 09.07.2019
(54) A METHOD FOR MANUFACTURING A
STEEL SHEET PRODUCT
(73) SSAB Technology AB
(72) Carlestam, Anders
Thorstensson, Oskar
Knutsson, Jimmy
Eidelöf, Hans
Thunell, Jonas | (51) B23K 26/34
F01D 11/12
(11) EP3093097
(21) EP16169056.5
(47) 28.12.2022
(22) 10.05.2016
(54) NEAR NET SHAPE ABRADABLE SEAL
MANUFACTURING METHOD
(73) Raytheon Technologies Corporation
(72) STROCK, Christopher
(31) 201514708518
(32) 11.05.2015
(33) United States of America |
| (87) US2017060130
28.06.2018
(22) 06.11.2017
(54) METHOD FOR CONTROLLING
PLUME TRAJECTORIES IN ADDITIVE
MANUFACTURING
(73) General Electric Company
(72) MARTIN, Andrew, J.
REDDING, MacKenzie, Ryan
MAMRAK, Justin | (51) B23K 26/03
B23K 26/082
B23K 26/14
B23K 26/16
B23K 26/362
B23K 26/40
B23K 101/00
B23K 101/34
(11) EP3871824
(21) EP20199053.8
(47) 28.12.2022
(22) 29.09.2020
(54) AUTOMATED STRUCTURAL LASER
CLEANING SYSTEM
(73) Lockheed Martin Corporation
(72) COLEMAN, David Haynes
STODDARD, Michael Bryan
LANGEVIN, Jeffrey P.
TWADDLE, Steven E.
ARTHUR, Alexandria Zoe | (51) B23K 26/34
G06N 20/00
(11) EP3418952
(21) EP18178751.6
(47) 28.12.2022
(22) 20.06.2018
(54) MACHINE LEARNING FOR WELDMENT
CLASSIFICATION AND CORRELATION
(73) Lincoln Global, Inc.
(72) NARAYANAN, Badri K.
PROCARIO, John R.
KOTTMAN, Michael A.
(31) 201715627867
(32) 20.06.2017
(33) United States of America |
| (31) 201615390055
(32) 23.12.2016
(33) United States of America | (31) 202016777296
201962941265 P
(32) 30.01.2020
27.11.2019
(33) United States of America
United States of America | (51) B23K 37/04
B23Q 3/06
B25B 5/14
(11) EP3921112
(21) EP20704797.8
(47) 28.12.2022
(87) EP2020052767
13.08.2020
(22) 04.02.2020
(54) APPARATUS FOR CLAMPING AND
ORIENTING THIN-WALLED DOME
SEGMENTS AND USE THEREOF
(73) MT Aerospace AG
(72) HUBER, Willibald
(31) 102019102703
(32) 04.02.2019
(33) Germany |
| (51) B22F 12/41
B22F 12/45
B29C 64/153
B29C 64/277
B29C 64/364
B08B 5/04
B08B 15/04
(11) EP3377236
(21) EP16800899.3
(47) 28.12.2022
(87) EP2016077230
26.05.2017
(22) 10.11.2016
(54) DEVICE FOR THE GENERATIVE
PRODUCTION OF A THREE-
DIMENSIONAL OBJECT
(73) CL Schutzrechtsverwaltungs GmbH
(72) HERZOG, Frank
BECHMANN, Florian
ZEULNER, Fabian | (51) B23K 26/14
B23K 26/16
B23K 26/342
B23K 26/144
B23K 26/142
B23K 26/082
(11) EP3330038
(21) EP17203892.9
(47) 28.12.2022
(22) 27.11.2017
(54) LASER CLADDING HEAD AND
METHOD OF OPERATING A LASER
CLADDING SYSTEM
(73) Raytheon Technologies Corporation
(72) LIN, Wangen
BOYNTON, Scott Lewis
BROWN, Alex Neese | (51) B23K 26/34
B23Q 1/01
B23Q 11/00
B23Q 11/08
B23Q 39/02
(11) EP3915721
(21) EP21176184.6 |
| (11) EP3050659
(21) EP15195123.3
(47) 28.12.2022 | | |

(47) 28.12.2022	(72) VEINBERGS, Viesturs	(22) 08.11.2018
(22) 27.05.2021	KOLLER, Andreas	(54) ROLLER WITH FUNCTIONAL
(54) MACHINE FOR THE PROCESSING OF	(31) 102016119500	SURFACE FOR A POWER TOOL AND
PARTS IN A PENDULAR CYCLE	102015121469	POWER TOOL WITH SUCH A ROLLER
(73) C.M.S. S.p.A.	(32) 13.10.2016	(73) Far Group Europe
(72) Alvanini, Marco	09.12.2015	(72) HUREL, Christophe
Mangili, Valeria Linda	(33) Germany	GERVAIS, Nicolas
Baratelli, Cristian	Germany	(31) 1771184
(31) 202000012811	(51) B24B 55/06	(32) 09.11.2017
(32) 29.05.2020	A47L 9/28	(33) France
(33) Italy	B23D 47/00	(51) B25B 27/00
(51) B23Q 3/157	B23Q 11/00	B63B 19/00
B23Q 3/155	B25F 5/00	B63C 11/49
(11) EP3967447	(11) EP3616839	B63G 8/00
(21) EP21195876.4	(21) EP19203791.9	B23P 19/00
(47) 28.12.2022	(47) 28.12.2022	B23P 19/08
(22) 10.09.2021	(22) 01.08.2014	B63B 19/02
(54) VERTICAL MACHINE TOOL AND TOOL	(54) DUST COLLECTOR	F16J 15/3268
CHANGING METHOD	(73) Makita Corporation	(11) EP3858539
(73) Sugino Machine Limited	(72) SUZUKI, Hitoshi	(21) EP19916527.5
(72) MORIGUCHI, Takuya	(31) 2013161507	(47) 28.12.2022
TOMINAGA, Yasuhiro	2013161506	(87) CN2019090656
(31) 2020153801	(32) 02.08.2013	27.08.2020
(32) 14.09.2020	02.08.2013	(22) 11.06.2019
(33) Japan	(33) Japan	(54) SPHERICAL SECTOR VIEWPORT
(51) B23Q 39/04	Japan	WINDOW SEALING RING
B23Q 1/52	(51) B24C 1/00	REPLACEMENT APPARATUS AND
(11) EP3445530	B24C 7/00	REPLACEMENT METHOD
(21) EP16726946.3	B24C 5/04	(73) China Ship Scientific Research Center
(47) 28.12.2022	B24C 5/02	(the 702 Institute of China Shipbuilding
(87) IB2016052199	(11) EP3763481	Industry Corporation)
26.10.2017	(21) EP20185295.1	(72) LIU, Shuai
(22) 18.04.2016	(47) 28.12.2022	YE, Cong
(54) TRANSFER MACHINE WITH A ROTARY	(22) 10.07.2020	WANG, Dongsheng
TABLE	(54) METHOD AND APPARATUS FOR	JIANG, Lei
(73) Mikron Switzerland AG,	CREATING A CO2 SNOW JET	GAO, Chengjun
Zweigniederlassung Agno, Machining	(73) ACP Systems AG	XU, Weizhe
(72) SPADA, Nicola	(72) Jäger, Felix	LI, Yujie
(51) B24B 7/22	Haas, Andreas	(31) 201910125352
B24B 37/10	(31) 102019118717	(32) 20.02.2019
B24B 37/30	(32) 10.07.2019	(33) China
B24B 21/00	(33) Germany	(51) B25B 27/20
B24B 21/10	(51) B24D 11/02	G01L 1/00
B24B 21/08	B24D 9/08	(11) EP3784444
B24B 41/06	B24D 7/06	(21) EP19720039.7
H01L 21/687	B24D 15/02	(47) 28.12.2022
(11) EP3476536	B24B 19/00	(87) DE2019100337
(21) EP18202150.1	B24B 21/00	31.10.2019
(47) 28.12.2022	(11) EP3538320	(22) 12.04.2019
(22) 23.10.2018	(21) EP17800794.4	(54) MEASURING INSTRUMENT
(54) POLISHING APPARATUS	(47) 28.12.2022	(73) Schaeffler Technologies GmbH & Co. KG
(73) Ebara Corporation	(87) EP2017078679	(72) PELTRIE, Marcel
(72) KOBAYASHI, Kenichi	17.05.2018	KRAFT, Philipp
NAKANISHI, Masayuki	(22) 09.11.2017	(31) 102018109897
KASHIWAGI, Makoto	(54) GRINDING ELEMENT AND GRINDING	(32) 25.04.2018
HOSHINA, Manao	APPARATUS	(33) Germany
(31) 2017206648	(73) Bayerische Motoren Werke	(51) B25D 17/04
(32) 25.10.2017	Aktiengesellschaft	B25D 17/00
(33) Japan	(72) GEIGER, Michael	B25F 5/02
(51) B24B 49/16	SUTTER, Nathanael	(11) EP2750835
B24B 21/08	(31) 102016222043	(21) EP12783534.6
(11) EP3488968	(32) 10.11.2016	(47) 28.12.2022
(21) EP19151895.0	(33) Germany	(87) EP2012067030
(47) 28.12.2022	(51) B24D 13/02	07.03.2013
(22) 08.12.2016	B24D 13/12	(22) 31.08.2012
(54) DEVICE FOR FIXING A SANDING	(11) EP3482879	(54) Hand-held power tool
SHOE	(21) EP18205101.1	(73) Robert Bosch GmbH
(73) Steinemann Technology AG	(47) 28.12.2022	(72) BRAUN, Willy

HEINEN, Patrick	(51) B25J 9/16	RICE, Jacob
DIEM, Carsten	(11) EP3904015	(31) 201662322550 P
KUHNLE, Axel	(21) EP21171593.3	(32) 14.04.2016
(31) 102011082093	(47) 28.12.2022	(33) United States of America
(32) 02.09.2011	(22) 30.04.2021	(51) B25J 13/08
(33) Germany	(54) SYSTEM AND METHOD FOR	B25J 15/02
(51) B25F 5/00	SETTING UP A ROBOTIC ASSEMBLY	B25J 19/02
(11) EP3600781	OPERATION	B25J 15/08
(21) EP18711066.3	(73) ABB Schweiz AG	(11) EP3482889
(47) 28.12.2022	(72) ZHANG, Biao	(21) EP18204053.5
(87) EP2018055915	SHARMA, Saumya	(47) 28.12.2022
27.09.2018	LIU, Yixin	(22) 02.11.2018
(22) 09.03.2018	WANG, Jianjun	(54) GRASPING FORCEPS
(54) PREDICTIVE CHECKING OF A HAND- HELD POWER TOOL	EAKINS, Will	(73) FIPA Holding GmbH
(73) Robert Bosch GmbH	SALM, Andrew M.	(72) SCHANZ, Henning
(72) ULLRICH, Andre	SU, Yun Hsuan	BLOMEYER, Niels
(31) 102017204646	VIDAL-RIBAS, Jorge	(31) 102017126564
(32) 21.03.2017	ARTIGAS, Jordi	(32) 13.11.2017
(33) Germany	CASANELLES, Ramon	(33) Germany
(51) B25G 1/10	(31) 202016864798	(51) B25J 13/08
B25B 9/02	(32) 01.05.2020	B25J 17/02
E05B 1/00	(33) United States of America	B25J 19/00
(11) EP3925736	(51) B25J 9/16	(11) EP3325229
(21) EP21179345.0	B25J 9/00	(21) EP16744493.4
(47) 28.12.2022	(11) EP3624997	(47) 28.12.2022
(22) 14.06.2021	(21) EP17724790.5	(87) GB2016052261
(54) METHOD AND REMOTE HANDLING TOOL FOR PREVENTING CONTAMINATION	(47) 28.12.2022	26.01.2017
(73) Commissariat à l'énergie atomique et aux énergies alternatives	(87) EP2017061650	(22) 22.07.2016
(72) PARRENIN, Cédric	22.11.2018	(54) COMMUNICATION PATHS FOR ROBOT ARMS
(31) 2006330	(22) 16.05.2017	(73) CMR Surgical Limited
(32) 17.06.2020	(54) METHOD AND CONTROL SYSTEM FOR CONTROLLING MOVEMENT SEQUENCES OF A ROBOT	(72) ROBERTS, Paul Christopher
(33) France	(73) ABB Schweiz AG	MOTTRAM, Edward John
(51) B25H 3/02	(72) LAGER, Anders	SCHOLAN, Andrew Murray
(11) EP3501757	HOLMBERG, Johnny	(31) 201512964
(21) EP18206799.1	WAHLSTRÖM, Magnus	(32) 22.07.2015
(47) 28.12.2022	(51) B25J 9/16	(33) United Kingdom
(22) 16.11.2018	(51) B25J 9/16	(51) B25J 15/04
(54) ORGANIZER WITH LOCKING MECHANISM	G05B 19/409	B25J 19/00
(73) The Stanley Works Israel Ltd.	(11) EP3873702	(11) EP3184264
(72) Schechtman, Victoria	(21) EP19816499.8	(21) EP16200874.2
Avigad, Gal	(47) 28.12.2022	(47) 28.12.2022
Moisa, Gilad	(87) AT2019060356	(22) 28.11.2016
(31) 201762587553 P	07.05.2020	(54) DEVICE FOR CONNECTION OF A TOOL TO AN INDUSTRIAL ROBOT ARM
(32) 17.11.2017	(22) 28.10.2019	(73) Robotools S.r.l.
(33) United States of America	(54) METHOD FOR OPERATING A MACHINE CONTROL SYSTEM, AND MACHINE CONTROL SYSTEM	(72) STROBIETTO, Elio
(51) B25J 9/10	(73) KEB Industrial Automation GmbH	(31) UB20156099
B25J 9/12	(72) LEHNER, Bernhard	(32) 02.12.2015
B25J 11/00	(31) 509382018	(33) Italy
B25J 17/02	(32) 31.10.2018	(51) B25J 19/06
(11) EP3636391	(33) Austria	B25J 19/02
(21) EP18199913.7	(51) B25J 13/00	B25J 9/16
(47) 28.12.2022	B25J 18/06	B25J 9/04
(22) 11.10.2018	B25J 17/00	(11) EP3909727
(54) JOINT AND HOUSEHOLD ASSISTANT	B25J 19/06	(21) EP21173337.3
(73) BSH Hausgeräte GmbH	(11) EP3442756	(47) 28.12.2022
(72) Konanoor, Naveen	(21) EP17783201.1	(22) 11.05.2021
Kumar, Vijay	(47) 28.12.2022	(54) OPERATING DEVICE
Kumar Kumar, Harish	(87) US2017027575	(73) SOREMARTEC S.A.
Kumaran, Mohankumar	19.10.2017	(72) FEDERICI, Fabio
Shivaramaiah, Praveen Prathima	(22) 14.04.2017	PERRONE, Fabio
Mayr, Matthias	(54) VARIABLE STIFFNESS SERIES ELASTIC ACTUATOR	(31) 202000010804
Sagoo, Kiran Pal	(73) Marquette University	(32) 12.05.2020
	(72) SCHIMMELS, Joseph, M.	(33) Italy
	BERNHARD, Andrew	(51) B26B 21/22

B26B 21/40	(54) PROCESSING MACHINE WITH	(54) A METHOD FOR PRODUCING FIBER
B26B 21/52	AT LEAST ONE MACHINING UNIT	REINFORCED CEMENTITIOUS
B26B 21/14	AND METHOD FOR MACHINING A	SLURRY USING A MULTI-STAGE
(11) EP3448637	SUBSTRATE	CONTINUOUS MIXER
(21) EP17728021.1	(73) Koenig & Bauer AG	(73) United States Gypsum Company
(47) 28.12.2022	(72) Bormann, Erik	(72) DUBEY, Ashish
(87) US2017034131	Helbig, Johannes	GROZA, Peter B.
07.12.2017	Klawitter, Kay	NELSON, Christopher R.
(22) 24.05.2017	Köhler, Ulrich	(31) 201715663104
(54) ADAPTER FOR A HANDLE	Naumann, Johannes	201662371590 P
(73) The Gillette Company LLC	(31) 102020123402	(32) 28.07.2017
(72) LEE, Alejandro, Carlos	(32) 08.09.2020	05.08.2016
WALKER, Vincent, Paul	(33) Germany	(33) United States of America
(31) 201615169624	(51) B27B 5/32	United States of America
(32) 31.05.2016	B23D 61/02	(51) B28B 11/16
(33) United States of America	B24B 45/00	B28B 11/14
(51) B26D 1/38	B24D 5/16	B28D 7/00
B26D 5/20	B23B 51/04	B28D 1/04
B26D 7/08	(11) EP3500411	B23D 59/00
B65H 23/18	(21) EP17751387.6	(11) EP3938161
B65H 35/06	(47) 28.12.2022	(21) EP20706248.0
(11) EP3137269	(87) EP2017070310	(47) 28.12.2022
(21) EP15785691.5	01.03.2018	(87) EP2020054499
(47) 28.12.2022	(22) 10.08.2017	24.09.2020
(87) US2015027966	(54) TOOL DEVICE FOR A HAND-HELD	(22) 20.02.2020
05.11.2015	POWER TOOL	(54) METHOD FOR MACHINING, IN
(22) 28.04.2015	(73) Robert Bosch GmbH	PARTICULAR SEVERING, AT LEAST
(54) WEIGHT MATERIAL CUTTING,	(72) FELLMANN, Willi	ONE CONCRETE PART
DISPENSING AND APPLYING	LUESCHER, Bruno	(73) Progress Holding A.G.
SYSTEMS	ZURBRUEGG, Andreas	(72) ENDERES, Karl
(73) INTERNATIONAL WHEEL AND TIRE,	DI NICOLANTONIO, Aldo	(31) 502252019
INC.	SINZIG, Bruno	(32) 15.03.2019
(72) KERWIN, Kevin R.	QUEBATTE, Laurent	(33) Austria
GROSS, Peter L.	SCHULLER, Marcus	(51) B28D 1/04
CAMPBELL, Todd A.	(31) 102017213669	B28D 7/04
REGE, Netresh U.	102017201501	(11) EP3215329
ZOLLER, Patrick W.	102016215702	(21) EP15816516.7
SKOMSKI, Jeffrey N.	(32) 07.08.2017	(47) 28.12.2022
WALTERS, Marc A.	31.01.2017	(87) IB2015058494
WALTERS, Kristopher J., Jr.	22.08.2016	12.05.2016
MCCLAIN, Erik L.	(33) Germany	(22) 03.11.2015
(31) 201461985087 P	Germany	(54) MACHINE FOR CUTTING STONE
(32) 28.04.2014	Germany	MATERIAL
(33) United States of America	(51) B28B 1/52	(73) Toncelli, Luca
(51) B26D 5/22	B28B 3/22	(72) Toncelli, Luca
B26D 5/38	B28B 5/02	(31) UB20153486 U
B26D 7/06	B28C 5/12	TV20140154
B26D 7/22	B28C 5/14	(32) 02.04.2015
B26D 1/12	B28C 5/40	03.11.2014
(11) EP3400116	B29B 7/42	(33) Italy
(21) EP17851203.4	B29B 7/48	Italy
(47) 28.12.2022	B29C 48/40	(51) B29B 7/32
(87) US2017016650	B29C 48/57	B29B 7/72
22.03.2018	B29C 48/67	B29B 7/74
(22) 06.02.2017	B01F 23/53	B29B 7/82
(54) PRODUCT SLICER AND AUTOMATIC	B01F 27/192	B29B 7/86
SLICER ENGAGEMENT MECHANISM	B01F 27/2123	B29B 7/94
(73) Globe Food Equipment Company	B01F 27/702	B01F 23/00
(72) MCGUFFIN-NOLL, Douglas	B01F 27/723	B01F 33/71
DIERAUER, Peter	B01F 35/71	B01F 35/21
(31) 201615265105	B29C 48/00	B29B 13/00
(32) 14.09.2016	(11) EP3493959	(11) EP3708324
(33) United States of America	(21) EP17769136.7	(21) EP18877174.5
(51) B26D 7/06	(47) 28.12.2022	(47) 28.12.2022
(11) EP3964336	(87) US2017045426	(87) JP2018039569
(21) EP21188193.3	08.02.2018	16.05.2019
(47) 28.12.2022	(22) 04.08.2017	(22) 24.10.2018
(22) 28.07.2021		(54) MIXING APPARATUS

(11) EP3674058	(47) 28.12.2022	B33Y 30/00
(21) EP18849387.8	(87) EP2016062810	(11) EP3145698
(47) 28.12.2022	15.12.2016	(21) EP14738915.9
(87) JP2018021895	(22) 06.06.2016	(47) 28.12.2022
28.02.2019	(54) METHOD FOR THE ONLINE	(87) PL2014000065
(22) 07.06.2018	MONITORING OF FILM QUALITY	19.11.2015
(54) METHOD AND DEVICE FOR	AND FILM MACHINE COMPRISING	(22) 23.06.2014
MANUFACTURING RUBBER COATED	A DEVICE FOR THE ONLINE	(54) SYSTEM FOR PREPARING A 3D
TWISTED WIRE CORD	MONITORING OF FILM QUALITY	PRINTER PRINTOUT BASE AND
(73) The Yokohama Rubber Co., Ltd.	(73) Windmüller & Hölscher KG	A METHOD OF PREPARING A 3D
(72) NISHIO Satoru	(72) SCHMITZ, Torsten	PRINTER PRINTOUT BASE
(31) 2017158637	(31) 102015109219	(73) ZORTRAX SPOLKA AKCYJNA
(32) 21.08.2017	(32) 10.06.2015	(72) TOMASIAK, Rafal
(33) Japan	(33) Germany	(31) 40818414
(51) B29C 48/25	(51) B29C 51/04	(32) 12.05.2014
B29C 48/57	(11) EP3750684	(33) Poland
B29C 48/405	(21) EP20177198.7	(51) B29C 64/118
B29C 48/425	(47) 28.12.2022	D04B 1/00
(11) EP3930983	(22) 28.05.2020	B28B 23/00
(21) EP20704316.7	(54) PRE-STRETCHER WITH IMPROVED	B28B 1/00
(47) 28.12.2022	THERMAL MANAGEMENT	B29C 70/88
(87) EP2020054003	(73) B.V. Holdingmaatschappij B.S.M.F.	B29C 70/68
03.09.2020	(72) Bosch, Antonie	B33Y 99/00
(22) 17.02.2020	(31) 2023319	B33Y 40/00
(54) SCREW ELEMENT WITH NON-	(32) 14.06.2019	B33Y 30/00
AXISSYMMETRICAL SCREW PROFILE	(33) Netherlands	B33Y 10/00
AND USE THEREOF	(51) B29C 53/00	B29C 64/194
(73) Covestro Intellectual Property GmbH &	B29C 53/58	B28B 3/20
Co. KG	B29C 53/60	B28B 23/04
(72) MANNEL, Birgit	B29C 53/84	E04B 1/16
RUDOLF, Reiner	F24F 13/02	E04G 21/04
BIERDEL, Michael	B29K 101/12	B29C 64/106
CONZEN, Carsten	B29K 305/02	(11) EP3880436
(31) 19159671	B29C 53/56	(21) EP19836190.9
(32) 27.02.2019	B29C 53/80	(47) 28.12.2022
(33) European Patent Office (EPO)	B29L 23/00	(87) US2019060941
(51) B29C 48/255	(11) EP3826823	22.05.2020
B29C 48/27	(21) EP19768893.0	(22) 12.11.2019
B65G 53/56	(47) 28.12.2022	(54) SYSTEM AND METHOD FOR 3D
B65G 53/46	(87) IB2019055930	CONSTRUCTION PRINTING
B29C 48/285	30.01.2020	(73) Stratasys, Inc.
B29C 48/25	(22) 11.07.2019	(72) CRUMP, S. Scott
B29C 31/02	(54) PRODUCTION METHOD FOR A SEMI-	BATCHELDER, J. Samuel
B29C 31/10	RIGID CONDUIT FOR CONVEYING A	HAYES JACOBSON, Susan M.
B29C 48/025	GAS	(31) 201816188892
B29B 7/60	(73) Tecnica S.r.l.	(32) 13.11.2018
(11) EP3762207	(72) BRUSCHI, Enrico	(33) United States of America
(21) EP19709421.2	BRUSCHI, Elena	(51) B29C 64/393
(47) 28.12.2022	(31) 201800007425	B29C 64/118
(87) EP2019055110	(32) 23.07.2018	B33Y 50/02
12.09.2019	(33) Italy	(11) EP3609685
(22) 01.03.2019	(51) B29C 63/00	(21) EP18720742.8
(54) FEED DEVICE FOR FEEDING RECIPE	E04F 15/02	(47) 28.12.2022
MATERIAL FOR AN EXTRUSION	B29L 31/00	(87) US2018026875
PROCESS IN AN EXTRUSION DEVICE	B29C 63/48	18.10.2018
(73) Windmüller & Hölscher KG	(11) EP3466643	(22) 10.04.2018
(72) MINNERUP, Jens	(21) EP18177935.6	(54) SYSTEMS AND METHODS FOR
KULGEMEYER, Tobias	(47) 28.12.2022	EXTRUSION CONTROL IN THREE-
(31) 102018104952	(22) 15.06.2018	DIMENSIONAL (3D) PRINTING
(32) 05.03.2018	(54) METHOD AND APPARATUS FOR	(73) Desktop Metal, Inc.
(33) Germany	COATING SOLID WOOD FLOOR	(72) BARBATI, Alexander, C.
(51) B29C 48/92	(73) Zhejiang Lingge Wood Co., Ltd	FONTANA, Richard, Remo
B29C 48/88	(72) LIU, Binbin	LAPLANTE, John
B29C 55/02	(31) 201710929410	MYERBERG, Jonah, Samuel
B29C 48/10	(32) 09.10.2017	(31) 201762485722 P
B29C 48/08	(33) China	(32) 14.04.2017
(11) EP3307513	(51) B29C 64/106	(33) United States of America
(21) EP16731817.9	B29C 64/118	(51) B29C 67/00

B33Y 30/00	(87) EP2019081414	Ekberg, Rasmus
B33Y 10/00	22.05.2020	Kervall, Mikael
B33Y 70/00	(22) 14.11.2019	Månsson, Tommy
(11) EP3448658	(54) METHOD FOR MANUFACTURING	(51) B32B 3/26
(21) EP16900701.0	COMPOSITE LINK RODS WITH	B32B 5/02
(47) 28.12.2022	SCREWED INSERTS	B32B 5/18
(87) US2016029857	(73) BD Invent SA	B32B 5/24
02.11.2017	(72) BOVEROUX, Benoît	B32B 7/12
(22) 28.04.2016	(31) 18206486	B32B 7/14
(54) 3-DIMENSIONAL PRINTED PARTS	(32) 15.11.2018	B32B 9/02
(73) Hewlett-Packard Development Company, L.P.	(33) European Patent Office (EPO)	B32B 27/06
(72) HINCH, Garry	(51) B29C 70/34	B32B 27/08
DEKAM, Kevin P.	B29D 99/00	B32B 27/40
CHAFFINS, Sterling	B29L 31/08	(11) EP3853015
STASIAK, James William	(11) EP3482918	(21) EP19828426.7
(51) B29C 70/06	(21) EP17200877.3	(47) 28.12.2022
B29C 70/42	(47) 28.12.2022	(87) US2019064432
C08J 5/24	(22) 09.11.2017	11.06.2020
B29B 7/90	(54) METHOD FOR PRODUCING A WEB	(22) 04.12.2019
B29B 7/00	FOR A WIND TURBINE ROTOR BLADE	(54) VENTILATED MOLDED COVERS FOR SEATING APPLICATIONS
B29C 43/00	(73) Nordex Energy SE & Co. KG	(73) Magna Seating Inc.
(11) EP3715405	(72) FRANKOWSKI, Marco	(72) CARRARO, Bruno D.
(21) EP18879026.5	(51) B29C 70/46	KOZLOWSKI, Eric
(47) 28.12.2022	B29D 99/00	PRASATEK, Craig
(87) JP2018040259	B29C 33/50	PUCHALSKI, Cynthia
23.05.2019	B29C 70/44	(31) 201862775944 P
(22) 30.10.2018	B29C 70/34	(32) 06.12.2018
(54) FIBER-REINFORCED MOLDING MATERIAL AND MOLDED ARTICLE USING SAME	B29C 70/30	(33) United States of America
(73) DIC Corporation	B29C 43/02	(51) B32B 5/02
(72) YOSHIOKA, Chikara	B29C 43/56	B32B 7/04
FUJITA, Yukiko	B29C 33/48	B32B 7/08
(31) 2017222671	B29L 31/30	B32B 9/00
(32) 20.11.2017	B29K 105/04	B32B 9/04
(33) Japan	(11) EP3398759	B32B 15/20
(51) B29C 70/22	(21) EP18170338.0	B32B 27/06
B29C 70/42	(47) 28.12.2022	B32B 3/12
B32B 1/08	(22) 02.05.2018	B32B 3/26
B62K 19/16	(54) COMPACTED STRINGER PACKAGES	C08J 5/04
B62K 19/20	(73) The Boeing Company	E04B 1/74
B62K 3/04	(72) PRAUSE, Richard Alexander	E04B 1/82
B62K 21/02	HEATH, Richard	E04B 1/84
B29K 101/12	MODIN, Andrew Elmer	F02C 7/045
B29L 31/30	(31) 201715649162	(11) EP3546209
B62K 19/22	201715586153	(21) EP19165954.9
(11) EP3670158	(32) 13.07.2017	(47) 28.12.2022
(21) EP19186923.9	03.05.2017	(22) 28.03.2019
(47) 28.12.2022	(33) United States of America	(54) AIRCRAFT COMPONENT AND METHOD OF MANUFACTURE
(22) 18.07.2019	United States of America	(73) Pratt & Whitney Canada Corp.
(54) METHOD FOR FORMING A BICYCLE FRAME COMPONENT MADE OF THERMOPLASTIC COMPOSITE LAMINATES AND THE BICYCLE FRAME FOR THE SAME	(51) B32B 3/06	(72) JOSHI, Ninad
(73) Astro Tech Co., Ltd.	B32B 3/18	MESLIOUI, Sid-Ali
(72) HU, Samuel	B32B 5/02	FRANCOIS, Richard
LIU, Liu Cheng	B32B 7/09	(31) 201815938371
(31) 107146438	B32B 7/12	(32) 28.03.2018
(32) 21.12.2018	B32B 19/06	(33) United States of America
(33) Taiwan, Province of China	E04F 15/022	(51) B32B 5/02
(51) B29C 70/32	E04F 15/10	B32B 15/02
B29C 70/54	E04F 13/16	B32B 15/04
B29L 31/06	E04F 13/18	B32B 15/14
(11) EP3880446	E04F 13/08	B32B 15/18
(21) EP19801373.2	B32B 37/12	B32B 15/20
(47) 28.12.2022	(11) EP3578734	B32B 27/12
	(21) EP18175672.7	B32B 3/26
	(47) 28.12.2022	B32B 3/28
	(22) 04.06.2018	(11) EP3257667
	(54) METHOD FOR RECYCLING OF TILE MATERIAL	(21) EP17175775.0
	(73) Saint-Gobain Ecophon AB	(47) 28.12.2022
	(72) Karlsson, Ola	

(22) 13.06.2017	(33) United States of America	(51) B33Y 10/00
(54) STRUCTURAL PANEL WITH WOVEN ELEMENT CORE	(51) B32B 7/12	B33Y 30/00
(73) Raytheon Technologies Corporation	B32B 27/32	B33Y 70/10
(72) SHARON, John A.	B32B 5/02	A61C 13/00
HOMMA, Kenji	B32B 27/08	A61C 13/34
HAWKES, Justin R.	B32B 27/12	(11) EP3928981
BRAUNWART, Paul R.	F41H 5/04	(21) EP21175857.8
SUN, Ellen Y.	(11) EP3445579	(47) 28.12.2022
(31) 201615182131	(21) EP16738235.7	(22) 26.05.2021
(32) 14.06.2016	(47) 28.12.2022	(54) METHOD FOR PRODUCING A JAW-TOOTH MODEL AND PRINTING SYSTEM FOR SAME
(33) United States of America	(87) US2016032699	
(51) B32B 5/18	26.10.2017	
B32B 5/24	(22) 16.05.2016	(73) Born, Christian
B32B 5/26	(54) COMPOSITE BALLISTIC RESISTANT LAMINATE	Bernhardt, Volker
B32B 7/02	(73) DuPont Safety & Construction, Inc.	(72) Born, Christian
B32B 15/04	(72) SINGLETARY, James Neal	Bernhardt, Volker
B32B 15/08	CARBAJAL, Leopoldo Alejandro	(31) 102020116720
B32B 15/14	KAMPERT, William George	(32) 26.06.2020
B32B 19/04	LIBERT, Timothy A.	(33) Germany
B32B 25/04	SAUER, Bryan Benedict	(51) B33Y 40/00
A47G 27/02	HARDING, Kenneth C.	B29C 64/255
B32B 25/08	(31) 201615133283	B29C 64/357
B32B 25/10	(32) 20.04.2016	B29C 64/321
B32B 25/14	(33) United States of America	B29C 64/307
B32B 27/12	(51) B32B 15/08	B22F 10/20
B32B 27/28	C08K 3/22	B22F 12/00
B32B 27/30	C08K 3/32	(11) EP3710253
B32B 27/32	C08K 5/00	(21) EP18808472.7
B32B 27/34	C08L 23/10	(47) 28.12.2022
B32B 27/40	C08L 23/26	(87) GB2018053336
B32B 3/08	C08L 101/02	23.05.2019
(11) EP3291979	H01G 11/78	(22) 16.11.2018
(21) EP16759561.0	C08J 5/12	(54) APPARATUS FOR THE MANUFACTURE OF THREE-DIMENSIONAL OBJECTS
(47) 28.12.2022	B32B 27/08	(73) Stratasys Powder Production Ltd
(87) US2016020835	B32B 27/32	(72) TJELLESEN, Frederik
09.09.2016	(11) EP3467895	HARTMANN, Anders
(22) 04.03.2016	(21) EP17806735.1	RASMUSSEN, Alexander
(54) SLIDABLE ANTI-FATIGUE MAT	(47) 28.12.2022	(31) 201719096
(73) Burkhalter, John, Charles	(87) JP2017020278	(32) 17.11.2017
(72) Burkhalter, John, Charles	07.12.2017	(33) United Kingdom
(31) 201514638169	(22) 31.05.2017	
(32) 04.03.2015	(54) POWER STORAGE DEVICE CLADDING	(51) B41F 5/24
(33) United States of America	(73) Toppan Printing Co., Ltd.	B41F 9/06
(51) B32B 7/02	(72) OGIHARA Yu	B41F 31/06
B32B 27/08	IMAMOTO Junya	B41F 31/07
B32B 27/32	SUZUTA Masayoshi	(11) EP3894223
B32B 27/36	(31) 2016111009	(21) EP19850831.9
B32B 27/30	(32) 02.06.2016	(47) 28.12.2022
(11) EP3519178	(33) Japan	(87) US2019063151
(21) EP17857246.7	(51) B32B 27/08	18.06.2020
(47) 28.12.2022	B32B 27/30	(22) 26.11.2019
(87) US2017053169	B32B 27/32	(54) LOW-VOLUME FLEXOGRAPHIC AND GRAVURE INKING SYSTEMS
05.04.2018	(11) EP2981414	(73) Eastman Kodak Company
(22) 25.09.2017	(21) EP14780102.1	(72) SMITH, Gary A.
(54) VISIBLY TRANSPARENT BROADBAND INFRARED MIRROR FILMS	(47) 28.12.2022	SHAUGHNESSY, Michael G.
(73) 3M Innovative Properties Company	(87) US2014032609	YOUNG, Timothy John
(72) HEBRINK, Timothy J.	09.10.2014	ELLINGER, Carolyn Rae
O'NEILL, Mark B.	(22) 02.04.2014	(31) 201816218638
KUNCIO, Stephen J.	(54) MULTILAYER POLYMER STRUCTURES	201816218616
KIVEL, Edward J.	(73) Trinseo Europe GmbH	(32) 13.12.2018
GILBERT, Laurence R.	(72) CRABB, Charles, C.	13.12.2018
SORENSEN, Tracey D.	MEHLMANN, Florence	(33) United States of America
NEVITT, Timothy J.	RICHARDS, Thomas, H.	United States of America
JOHNSON, Stephen A.	RISSEL, Charles, W.	
(31) 201662402384 P	(31) 201361807916 P	(51) B41J 2/01
(32) 30.09.2016	(32) 03.04.2013	B41J 11/00
	(33) United States of America	B41J 2/165

G03G 15/20	(22) 26.02.2019	(21) EP18821988.5
(11) EP3743284	(54) WEAR COMPENSATION DEVICE OF A LABEL PRINTER	(47) 28.12.2022
(21) EP18909286.9	(73) Espera-Werke GmbH	(87) DE2018100901
(47) 28.12.2022	(72) DE MIRANDA, Guillaume	31.05.2019
(87) KR2018009630	(31) 102018106240	(22) 06.11.2018
19.09.2019	(32) 16.03.2018	(54) CODING SYSTEM FOR FORMING A SECURITY FEATURE IN OR ON A SECURITY DOCUMENT OR VALUE DOCUMENT OR A PLURALITY OF SECURITY DOCUMENTS OR VALUE DOCUMENTS
(22) 22.08.2018	(33) Germany	(73) Bundesdruckerei GmbH
(54) FUSER WITH ENDLESS BELT SUPPORTED BY ROTATIONAL MEMBER	(51) B41J 3/28	(72) STARICK, Detlef
(73) Hewlett-Packard Development Company, L.P.	B25J 9/00	PAESCHKE, Manfred
(72) KIM, Jun Tae	F16M 11/04	KUNATH, Christian
LEE, Young Su	F16M 11/12	BARTEL, Gustav Martin
LEE, Ki Hyuk	B23K 26/00	HEISE, Roland
JO, Hee Gun	B23K 26/08	VANDAHL, Cornelia
(31) 20180030544	B42D 25/435	RÖSLER, Sylke
(32) 15.03.2018	B41J 2/44	RÖSLER, Sven
(33) Korea (Republic)	B42D 25/41	KEMPFERT, Wolfgang
(51) B41J 2/14	B23K 26/04	HAUßMANN, Guido
(11) EP3730299	B23K 26/352	(31) 102017127923
(21) EP20167223.5	B23K 101/36	(32) 27.11.2017
(47) 28.12.2022	B23K 103/00	(33) Germany
(22) 31.03.2020	B41J 3/407	(51) B42D 25/405
(54) ELEMENT SUBSTRATE, LIQUID DISCHARGE HEAD, AND PRINTING APPARATUS	B23K 101/18	B42D 25/378
(73) CANON KABUSHIKI KAISHA	(11) EP3424731	B42D 25/387
(72) OSUKI, Yohei	(21) EP18181085.4	B42D 25/29
SAKUMA, Sadayoshi	(47) 28.12.2022	B41M 3/14
(31) 2019082198	(22) 02.07.2018	(11) EP3877193
(32) 23.04.2019	(54) DEVICE AND METHOD FOR POSITIONING A DOCUMENT BODY AND DEVICE AND METHOD FOR PRODUCING A DOCUMENT BODY	(21) EP19821234.2
(33) Japan	(73) Bundesdruckerei GmbH	(47) 28.12.2022
(51) B41J 2/175	(72) Bielesch, Ulrich	(87) AT2019060379
(11) EP3686019	Hirsch, Robert	14.05.2020
(21) EP20162522.5	Gödecke, Alexander	(22) 08.11.2019
(47) 28.12.2022	Kramer, Thomas	(54) METHOD FOR PRODUCING A SECURITY FEATURE
(22) 09.11.2015	Mauderer, Michael	(73) Hueck Folien Gesellschaft m.b.H.
(54) NON-CONTACT PRINTING SYSTEM	Kirschbauer, Josef	Banque De France
(73) TTP plc	Tschorn, Stefan	(72) EGGINGER, Martin
(72) GRAHAM, Abi	(31) 102017211254	BERGSMANN, Martin
POLLOCK, Sam	(32) 03.07.2017	MAYRHOFFER, Marco
RENAULT, Neil	(33) Germany	(31) 509642018
SAMPSON, Katie	(51) B41K 3/40	(32) 09.11.2018
(31) 201420265	B41K 3/46	(33) Austria
(32) 14.11.2014	B41K 3/32	(51) B43K 29/087
(33) United Kingdom	B41F 17/18	B43K 23/08
(51) B41J 2/21	(11) EP3680713	(11) EP3756904
B41J 2/155	(21) EP20151125.0	(21) EP19183325.0
B41J 2/045	(47) 28.12.2022	(47) 28.12.2022
(11) EP3433103	(22) 30.05.2018	(22) 28.06.2019
(21) EP16751174.0	(54) IMAGING APPARATUS, LENS APPARATUS, AND INTERMEDIATE ACCESSORY	(54) WRITING INSTRUMENT COMPRISING A CAPSULE ARRANGED FOR RECEIVING A CLOCK MOVEMENT
(47) 28.12.2022	(73) CANON KABUSHIKI KAISHA	(73) Montres Breguet S.A.
(87) EP2016066560	(72) MIZUOCHI, Fuya	(72) Dauby, Sylvain
18.01.2018	OHARA, Toru	(51) B60B 7/00
(22) 12.07.2016	WATAZAWA, Yasuyuki	B60B 23/10
(54) PRINTER CALIBRATION TECHNIQUES	FUJIHASHI, Naoto	B60B 27/06
(73) Hewlett-Packard Development Company, L.P.	(31) 2017108256	B60B 23/04
(72) BAS, Jordi	(32) 31.05.2017	B60B 25/20
PEINADO, David	(33) Japan	(11) EP3403848
(51) B41J 2/32	(51) B42D 25/387	(21) EP18166597.7
B41J 3/407	B42D 25/382	(47) 28.12.2022
(11) EP3765299	B42D 25/24	(22) 10.04.2018
(21) EP19708068.2	B42D 25/29	(54) WHEEL MOUNTING STRUCTURE
(47) 28.12.2022	B42D 25/405	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
(87) EP2019054688	G07D 7/12	
19.09.2019	(11) EP3717273	

(72) NAKAGAWA, Kenji (31) 2017081752 (32) 18.04.2017 (33) Japan	(73) Sumitomo Rubber Industries, Ltd. (72) UOTANI, Ryota (31) 2020012738 (32) 29.01.2020 (33) Japan	(51) B60C 25/05 B60C 25/138 G01M 17/02 G01M 1/06 (11) EP3517326 (21) EP19155262.9 (47) 28.12.2022 (22) 11.09.2015 (54) WHEEL SERVICE MACHINE AND METHOD FOR PERFORMING DIAGNOSTIC ASSESSMENT OF A VEHICLE WHEEL (73) NEXION S.p.A. (72) CORGHI, Giulio (31) UB20150663 BO20140508 BO20140506 BO20140507 (32) 20.05.2015 15.09.2014 15.09.2014 15.09.2014 (33) Italy Italy Italy Italy
(51) B60B 21/12 B60B 25/22 B60B 21/02 (11) EP3546242 (21) EP18877311.3 (47) 28.12.2022 (87) KR2018013759 08.08.2019 (22) 13.11.2018 (54) RESONATOR WHEEL (73) Hands Corporation Ltd. (72) SEUNG, Hyeon Chang RHEE, Suk Choo KIM, Young Sik SHIN, Kyoung Duck HAN, Keon Ki HWANG, In Bum (31) 20180012846 (32) 01.02.2018 (33) Korea (Republic)	(51) B60C 11/24 B60C 19/00 B60C 23/04 B60C 23/06 (11) EP3802158 (21) EP19737233.7 (47) 28.12.2022 (87) IB2019054376 05.12.2019 (22) 27.05.2019 (54) TIRE DAMAGE DETECTION SYSTEM AND METHOD (73) Bridgestone Europe NV/SA (72) PASCUCCI, Marco ALLEVA, Lorenzo (31) 201800005904 (32) 31.05.2018 (33) Italy	(33) Italy Italy Italy Italy <hr/> (51) B60D 1/26 B60D 1/52 B60D 1/07 (11) EP3310593 (21) EP16729583.1 (47) 28.12.2022 (87) EP2016063956 22.12.2016 (22) 16.06.2016 (54) TRAILER COUPLING HAVING A RECEIVING SLEEVE (73) WESTFALIA - Automotive GmbH (72) KROHN, Gerald (31) 202015103207 U (32) 17.06.2015 (33) Germany
(51) B60B 35/16 B60K 17/16 B60K 17/22 B60K 17/24 B60K 7/00 B60B 35/18 B60K 17/346 F16H 37/08 F16H 48/42 B60T 1/06 F16H 57/02 B60B 35/14 B60K 1/00 B60K 17/354 B60K 17/356 B60K 17/36 (11) EP3630503 (21) EP18731289.7 (47) 28.12.2022 (87) US2018034374 29.11.2018 (22) 24.05.2018 (54) MODULAR HEAD ASSEMBLY FOR AN ELECTRIC AXLE (73) Dana Heavy Vehicle Systems Group, LLC (72) DEVREESE, Thibault G. GALOPPIN, Wouter WA LAFORCE, Nicholas W. NICKELL, Lewis H. VAILLIENCOURT, Robert L. WESOLOWSKI, Steven J. WILLFORD, George A. WRIGHT, Ned W. (31) 201762511040 P (32) 25.05.2017 (33) United States of America	(51) B60C 15/04 (11) EP3789216 (21) EP20190475.2 (47) 28.12.2022 (22) 11.08.2020 (54) PNEUMATIC TIRE (73) Sumitomo Rubber Industries, Ltd. (72) KONO, Kyosuke (31) 2019160673 (32) 03.09.2019 (33) Japan	(51) B60C 19/08 B60C 9/02 B60C 13/00 (11) EP3885167 (21) EP21159174.8 (47) 28.12.2022 (22) 25.02.2021 (54) TIRE (73) Sumitomo Rubber Industries, Ltd. (72) KIKUCHI, Hiroshi OSAWA, Takuya UNO, Hiroki YAGYU, Kentaro (31) 2020052090 (32) 24.03.2020 (33) Japan
(51) B60C 11/00 B60C 11/13 (11) EP3858641 (21) EP21150450.1 (47) 28.12.2022 (22) 07.01.2021 (54) PNEUMATIC TIRE	(51) B60C 23/00 (11) EP3651999 (21) EP18832135.0 (47) 28.12.2022 (87) US2018042167 17.01.2019 (22) 13.07.2018 (54) ELECTRONIC CONTROL MODULE FOR A TIRE INFLATION SYSTEM (73) Pressure Systems International, LLC (72) HENRY, Dane (31) 201862668604 P 201762532565 P (32) 08.05.2018 14.07.2017 (33) United States of America United States of America	(51) B60G 11/113 B60G 7/00 B60B 35/00 (11) EP3323646 (21) EP17195855.6 (47) 28.12.2022 (22) 11.10.2017 (54) AXLE SYSTEM (73) SAF-HOLLAND GmbH (72) Hartmann, Mark (31) 102016120732 (32) 31.10.2016 (33) Germany <hr/> (51) B60H 1/00 (11) EP3862200 (21) EP20155404.5 (47) 28.12.2022 (22) 04.02.2020 (54) AN AIR CONDITIONING SYSTEM AND A METHOD FOR OPERATING AN AIR CONDITIONING SYSTEM (73) Ningbo Geely Automobile Research & Development Co., Ltd. Zhejiang Geely Holding Group Co., Ltd. (72) FRYKBERG, Emil JÖNSSON, Mikael

(51) B60H 1/00 B60H 1/24 B60H 1/34	B61D 27/00 B61D 33/00	(22) 07.04.2020
(11) EP3495178	(11) EP3953212	(54) MULTI-MODE ELECTRIC DRIVE SYSTEM AND VEHICLE
(21) EP18200331.9	(21) EP20710884.6	(73) Yutong Bus Co., Ltd.
(47) 28.12.2022	(47) 28.12.2022	(72) LIU, Xiaowei
(22) 15.10.2018	(87) EP2020056151	WANG, Yinshu
(54) VEHICLE VENTILATION SYSTEM	15.10.2020	WANG, Yan
(73) Ford Global Technologies, LLC	(22) 09.03.2020	WANG, Fusheng
(72) HOGGARTH, Marcus	(54) AIR-CONDITIONING ARRANGEMENT FOR A VEHICLE, AND VEHICLE	WANG, Xing
LOUGHLIN, Kyle	(73) Audi AG	LI, Jianfeng
(31) 201718762	(72) MICHAEL, Jörg	WU, Shengtao
(32) 14.11.2017	GUYOT, Bastian	GUO, Tao
(33) United Kingdom	ALBL, Sebastian	WANG, Jianwen
(51) B60H 1/00	(31) 102019204958	(31) 201910277709
B60H 1/32	(32) 08.04.2019	(32) 08.04.2019
(11) EP3856555	(33) Germany	(33) China
(21) EP19795281.5	(51) B60H 1/00	(51) B60K 1/04
(47) 28.12.2022	H05B 3/00	B60L 53/80
(87) FR2019052276	(11) EP3689650	H01M 50/20
02.04.2020	(21) EP20305075.2	B60L 50/64
(22) 26.09.2019	(47) 28.12.2022	H01M 50/204
(54) COOLANT CIRCUIT FOR A VEHICLE	(22) 29.01.2020	H01M 50/249
(73) VALEO SYSTEMES THERMIQUES	(54) AN AIR CONDITIONING SYSTEM FOR A VEHICLE FOR PUBLIC TRANSPORT	H01M 50/262
(72) YAHIA, Mohamed	(73) IVECO FRANCE S.A.S.	(11) EP3733435
(31) 1858794	(72) CODRON, Stephane	(21) EP18895455.6
(32) 26.09.2018	(31) 201900001259	(47) 28.12.2022
(33) France	(32) 29.01.2019	(87) CN2018125689
(51) B60H 1/00	(33) Italy	04.07.2019
B60H 1/34	(51) B60H 1/24	(22) 29.12.2018
(11) EP3941766	B60J 5/04	(54) LOCKING MECHANISM, LOCK ASSEMBLY, QUICK-SWAP SUPPORT FRAME ASSEMBLY AND ELECTRIC VEHICLE
(21) EP20700653.7	B60R 13/02	(73) Shanghai Dianba New Energy Technology Co., Ltd.
(47) 28.12.2022	(11) EP3894246	Aulton New Energy Automotive Technology Group
(87) EP2020050290	(21) EP19870039.5	(72) ZHANG, Jianping
24.09.2020	(47) 28.12.2022	HUANG, Chunhua
(22) 08.01.2020	(87) FR2019052863	LAN, Zhibo
(54) VENTILATION ARRANGEMENT FOR VENTILATING A MOTOR VEHICLE INTERIOR	18.06.2020	(31) 201711478874
(73) PSA Automobiles SA	(22) 29.11.2019	201711478821
(72) FLECKENSTEIN, Uwe	(54) METHOD FOR MOUNTING A PANEL HAVING AN AIR VENT WITH MULTIPLE BUTTED JOINTS ON A VEHICLE DOOR	(32) 29.12.2017
SEYBOLD, Lothar	(73) PSA Automobiles SA	29.12.2017
SKIBINSKI, Valter	(72) BREFORT, Laurent	(33) China
WEXEL, Dirk	(31) 1872610	China
(31) 102019203839	(32) 10.12.2018	(51) B60K 1/04
(32) 20.03.2019	(33) France	B62D 21/15
(33) Germany	(51) B60J 5/04	B60L 50/60
(51) B60H 1/00	(11) EP3717289	H01M 50/20
B61D 27/00	(21) EP18804550.4	(11) EP3566253
(11) EP3326850	(47) 28.12.2022	(21) EP18736155.5
(21) EP17200287.5	(87) EP2018081092	(47) 28.12.2022
(47) 28.12.2022	06.06.2019	(87) IB2018050066
(22) 07.11.2017	(22) 13.11.2018	12.07.2018
(54) METHOD FOR AIR CONDITIONING A PASSENGER COMPARTMENT AND AIR CONDITIONING INSTALLATION FOR A PASSENGER COMPARTMENT	(54) VEHICLE DOOR AND VEHICLE	(22) 04.01.2018
(73) Liebherr-Transportation Systems GmbH & Co. KG	(73) Kuhn, Herbert	(54) BATTERY SUPPORT STRUCTURE FOR A VEHICLE
(72) Martin, Dr. Robert	(72) Kuhn, Herbert	(73) Shape Corp.
Aigner, Reinhard	(31) 102017128277	(72) STEPHENS, Mark
(31) 102016014216	(32) 29.11.2017	MATECKI, Joseph
(32) 29.11.2016	(33) Germany	PENDERGRASS, Ed
(33) Germany	(51) B60K 1/02	(31) 201762506938 P
(51) B60H 1/00	B60K 17/02	201762442013 P
B64D 13/00	B60L 15/20	(32) 16.05.2017
B60N 2/56	(11) EP3954562	04.01.2017
B60N 2/24	(21) EP20787712.7	(33) United States of America
	(47) 28.12.2022	United States of America
	(87) CN2020083557	
	15.10.2020	

(51) B60K 1/04 H01M 50/204 H01M 50/242 H01M 50/244 H01M 50/249	(51) B60K 6/48 B60K 6/387 B60K 6/40 B60K 6/405 B60K 6/547 B60K 6/383 F16H 57/04 B62M 23/02	(73) Yapp Automotive Systems Co., Ltd. (72) JIANG, Lin LIU, Liang SU, Weidong
(11) EP3862204 (21) EP21153345.0 (47) 28.12.2022 (22) 25.01.2021	(11) EP3760462 (21) EP20182917.3 (47) 28.12.2022	(31) 201620746713 U 201610557887 (32) 15.07.2016 15.07.2016 (33) China China
(54) VEHICLE COMPRISING A BATTERY PACK	(21) EP20182917.3 (47) 28.12.2022	<hr/>
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA (72) KAITA, Keiji AIJIMA, Shingo SUZUKI, Yusuke	(22) 29.06.2020 (54) HYBRID VEHICLE (73) Kawasaki Motors, Ltd. (72) Nishiyabu, Masaki Ichi, Satoaki Izumi, Kyohei Sano, Katsuya Hida, Yuji	(51) B60K 35/00 B60K 37/04 B60R 11/00 G02F 1/00 G09F 21/04
(31) 2020017924 (32) 05.02.2020 (33) Japan	(31) 2019123348 (32) 02.07.2019 (33) Japan	(11) EP3822107 (21) EP19209117.1 (47) 28.12.2022 (22) 14.11.2019 (54) DISPLAY SYSTEM (73) Visteon Global Technologies, Inc. (72) KOCH, Marcus WALZ, Thomas PETKOV, Dimitar HRISTOV, Aleksandar YORDANOV, Ivan URILOV, Peyu
(51) B60K 6/48 B60K 6/365 B60K 6/547 F16H 3/72	(51) B60K 6/48 B60W 10/06 B60W 10/08 B60W 20/40	<hr/>
(11) EP3661788 (21) EP18750139.0 (47) 28.12.2022 (87) EP2018070678 07.02.2019	(11) EP3894251 (21) EP19823807.3 (47) 28.12.2022 (87) FR2019052759 18.06.2020	(51) B60K 35/00 B60K 37/06 G06F 3/041 G06F 3/0488
(22) 31.07.2018 (54) RANSMISSION FOR A HYBRID DRIVE ARRANGEMENT, HYBRID DRIVE ARRANGEMENT AND VEHICLE	(22) 19.11.2019 (54) METHOD FOR COMMANDING THE STARTING OF A HEAT ENGINE OF A HYBRID VEHICLE	(11) EP3532332 (21) EP17767819.0 (47) 28.12.2022 (87) EP2017073025 03.05.2018
(73) Robert Bosch GmbH (72) HUBER, Thomas ESZTERLE, Dominik SMEJKAL, Tom WIRTH, Christian DEMPEL, Rolf Lucius BRUMMER, Simon	(73) PSA Automobiles SA (72) TROJANI, Joseph BOUCRAUT, Sebastien HARAKAT, Adel	(22) 13.09.2017 (54) METHOD AND DEVICE FOR THE VIEWING ANGLE-DEPENDENT REPRESENTATION OF A GRAPHIC USER INTERFACE
(31) 102017213344 (32) 02.08.2017 (33) Germany	(31) 1872667 (32) 11.12.2018 (33) France	(73) Volkswagen Aktiengesellschaft (72) RHEDE, Johannes TEMMING, Carsten TÜMLER, Johannes LEIBER, Paul WITTKÄMPER, Michael
(51) B60K 6/48 B60K 6/365 B60K 6/547 F16H 3/72 F16H 37/04 B60K 6/36 B60K 6/387 B60K 6/38	(51) B60K 15/01 (11) EP3892486 (21) EP21161161.1 (47) 28.12.2022 (22) 08.03.2021 (54) TANK CONNECTION ASSEMBLY (73) Eberspächer Climate Control Systems GmbH	(31) 102016221072 (32) 26.10.2016 (33) Germany
(11) EP3661784 (21) EP18750133.3 (47) 28.12.2022 (87) EP2018070655 07.02.2019	(72) Colak, Ziya Seyhan Heubach, Armin Weber, Robert	<hr/>
(22) 31.07.2018 (54) TRANSMISSION FOR A HYBRID DRIVE ARRANGEMENT, HYBRID DRIVE ARRANGEMENT AND VEHICLE	(31) 102020109871 (32) 08.04.2020 (33) Germany	(51) B60L 3/00 B60L 50/51 B60L 58/10 G01R 27/02 G01R 31/52
(73) Robert Bosch GmbH (72) HUBER, Thomas ESZTERLE, Dominik SMEJKAL, Tom WIRTH, Christian DEMPEL, Rolf Lucius BRUMMER, Simon	(51) B60K 15/03 B29C 49/18 B29C 49/20 (11) EP3486103 (21) EP17826766.2 (47) 28.12.2022 (87) CN2017073723 18.01.2018 (22) 16.02.2017	(11) EP3366506 (21) EP18154942.9 (47) 28.12.2022 (22) 02.02.2018 (54) TECHNIQUE FOR INSULATION MONITORING IN VEHICLES (73) MAN Truck & Bus SE (72) Mörtl, Alexander Hubert, Markus Soboll, Stefan
(31) 102017213329 (32) 02.08.2017 (33) Germany	(54) SUPPORTING ASSEMBLY FOR HOLLOW TANK BODY AND METHOD FOR MOLDING HOLLOW TANK BODY	(31) 102017001849 (32) 25.02.2017 (33) Germany

- (51) B60L 3/12
B60L 58/20
G01R 31/387
- (11) EP4047710
(21) EP20922479.9
(47) 28.12.2022
(87) CN2020139187
30.06.2022
(22) 24.12.2020
(54) METHOD AND APPARATUS FOR
ACQUIRING RESIDUAL ENERGY OF
POWER BATTERY
(73) Contemporary Amperex Technology Co.,
Limited
(72) XU, Guangyu
-
- (51) B60L 53/00
(11) EP3960524
(21) EP21184951.8
(47) 28.12.2022
(22) 12.07.2021
(54) CHARGING CONNECTOR
(73) Japan Aviation Electronics Industry,
Limited
(72) KUGO, Kazuki
(31) 2020144551
(32) 28.08.2020
(33) Japan
-
- (51) B60L 53/16
(11) EP3013629
(21) EP14747115.5
(47) 28.12.2022
(87) IB2014001126
31.12.2014
(22) 20.06.2014
(54) VEHICLE AND POWER RECEIVING
DEVICE
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
(72) MIZUNO, Tomoyuki
IGARASHI, Yoshiyuki
(31) 2013136364
(32) 28.06.2013
(33) Japan
-
- (51) B60L 53/24
H02M 7/00
H02M 3/22
H02M 1/34
H02M 1/42
H02M 7/48
(11) EP2623363
(21) EP13151467.1
(47) 28.12.2022
(22) 16.01.2013
(54) Apparatus and method for charging a
traction battery of an electric vehicle
(73) Volkswagen Aktiengesellschaft
(72) Zarate Vargas, Oneil Rodrigo
Wetzel, Hermann
Plikat, Dr. Robert
(31) 102012014178
102012001716
(32) 16.07.2012
31.01.2012
(33) Germany
Germany
-
- (51) B60L 53/60
(11) EP3959100
(21) EP20803896.8
(47) 28.12.2022
- (87) FI2020050718
14.05.2021
(22) 03.11.2020
(54) ELECTRIC VEHICLE CHARGING
STATION RELIABILITY ASSESSMENT
METHOD AND DEVICE
(73) LIIKENNEVIRTA OY / VIRTA LTD
(72) AHTIKARI, Jussi
(31) 20195944
(32) 04.11.2019
(33) Finland
-
- (51) B60L 53/65
B60L 53/66
H04M 15/00
H04L 12/14
B60L 53/30
B60L 53/68
H04W 4/24
(11) EP3509893
(21) EP16763520.0
(47) 28.12.2022
(87) EP2016071425
15.03.2018
(22) 12.09.2016
(54) ROAMING METHOD
(73) innogy Innovation GmbH
(72) DAHMEN, Torsten
STÖCKER, Carsten
ROTHKEPPEL, Markus Ludwig
GREPEL, Ulrich
-
- (51) B60M 3/04
B61L 27/40
(11) EP3950463
(21) EP21189717.8
(47) 28.12.2022
(22) 04.08.2021
(54) SYSTEM AND METHOD FOR
MANAGING THE MOVEMENT OF
A VEHICLE ALONG A TRANSPORT
NETWORK
(73) ALSTOM Transport Technologies
(72) GANESAN, Muniandi
(31) 202041034001
(32) 07.08.2020
(33) India
-
- (51) B60N 2/00
B60N 2/58
B60N 2/70
G01B 7/16
G01L 1/18
G01L 1/20
(11) EP3863884
(21) EP19783040.9
(47) 28.12.2022
(87) EP2019077259
16.04.2020
(22) 08.10.2019
(54) UPHOLSTERY FOR AUTOMOTIVE
VEHICLE SEAT
(73) TESCA Pacific
(72) BEN LAGHA, Mohamed
SANCHEZ, Santi
TONELLATO, Christine
(31) 1859350
(32) 09.10.2018
(33) France
-
- (51) B60N 2/02
G05G 9/047
- G05G 13/00
H03K 17/975
(11) EP3938238
(21) EP20710903.4
(47) 28.12.2022
(87) EP2020056462
17.09.2020
(22) 11.03.2020
(54) SEAT ADJUSTMENT SWITCH
(73) KOSTAL Automobil Elektrik GmbH & Co.
KG
(72) FEHLING, André
HILLE, Hubert
BRENSSEL, Kai
(31) 102019001781
(32) 13.03.2019
(33) Germany
-
- (51) B60N 2/06
(11) EP3826883
(21) EP19871732.4
(47) 28.12.2022
(87) US2019055835
16.04.2020
(22) 11.10.2019
(54) LONG RAIL ASSEMBLY FOR VEHICLE
SEAT ADJUSTMENT
(73) Magna Seating Inc.
(72) ZHAO, Kai
NACY, Michael, D.
MARINI, Detjon
VETERE II, Louis
DIOUM, Cheikh
(31) 201862744357 P
(32) 11.10.2018
(33) United States of America
-
- (51) B60N 2/07
B60N 2/42
B60N 2/015
B60N 2/68
(11) EP3541656
(21) EP17804257.8
(47) 28.12.2022
(87) FR2017053153
24.05.2018
(22) 17.11.2017
(54) REMOVABLE REINFORCEMENT
DEVICE FOR THE GUIDE RAIL OF A
VEHICLE SEAT ON A SUPPORT
(73) PSA Automobiles SA
(72) CARRIER, Sebastien
PINTO TEIXEIRA, Frederic
DORIDOT, Jean Marie
(31) 1661286
(32) 21.11.2016
(33) France
-
- (51) B60N 2/16
B60N 2/90
(11) EP3687854
(21) EP18858136.7
(47) 28.12.2022
(87) TR2018050500
28.03.2019
(22) 17.09.2018
(54) HEIGHT ADJUSTMENT MECHANISM
(73) Martur Sünger ve Koltuk Tesisleri Ticaret
ve Sanayi Anonim Sirketi
(72) DOGAN, Anil
SACAR, Ismail

DAL, Murat KURT, Recep DEVECI, Omer Osman	(73) Marelli Automotive Lighting Reutlingen (Germany) GmbH	(73) NOVARES France
(31) 201812903	(72) Stang, Andreas	(72) REICHHELD, Frédéric
201713874	Leittretter, Andreas	REVEL, Anthony
(32) 07.09.2018	(31) 102020122354	MARTIN, Edith
19.09.2017	(32) 26.08.2020	(31) 1850637
(33) Turkey	(33) Germany	(32) 26.01.2018
Turkey	(51) B60Q 1/115	(33) France
(51) B60N 2/22	(11) EP3480058	(51) B60R 9/042
B60N 2/809	(21) EP18200861.5	(11) EP3882083
B60N 2/885	(47) 28.12.2022	(21) EP21151671.1
B64D 11/06	(22) 17.10.2018	(47) 28.12.2022
B60N 2/75	(54) CONTROL DEVICE FOR VEHICULAR LAMP AND VEHICLE LIGHTING SYSTEM	(22) 14.01.2021
(11) EP3595928	(73) STANLEY ELECTRIC CO., LTD.	(54) LOWERABLE GOODS HOLDING DEVICE, ASSEMBLY KIT AND METHOD
(21) EP17811778.4	(72) NAKAMURA, Shigekatsu	(73) Moser, Michael
(47) 28.12.2022	HIRAI, Yusuke	(72) Moser, Michael
(87) US2017062177	(31) 2017201240	(31) 600142020
20.09.2018	(32) 17.10.2017	(32) 17.01.2020
(22) 17.11.2017	(33) Japan	(33) Austria
(54) PASSENGER SEAT WITH MOVABLE BACKREST PORTION	(51) B60Q 3/44	(51) B60R 11/02
(73) Safran Seats USA LLC	B60Q 3/43	G02B 27/01
(72) GLAIN, Arthur K.	B60Q 3/54	B60K 35/00
CARLIOZ, Victor	B60Q 3/51	(11) EP3245104
(31) 201762472849 P	B60Q 3/62	(21) EP16705860.1
(32) 17.03.2017	B60Q 3/64	(47) 28.12.2022
(33) United States of America	B60Q 3/66	(87) US2016012907
(51) B60N 2/26	B60Q 3/74	21.07.2016
B60N 2/56	B60Q 3/76	(22) 11.01.2016
(11) EP3677469	F21S 43/237	(54) IN-VEHICLE PROJECTION DISPLAY SYSTEM WITH DYNAMIC DISPLAY AREA
(21) EP20150148.3	F21S 43/243	(73) Harman International Industries, Incorporated
(47) 28.12.2022	F21S 43/249	(72) NAHMAN, Jaime Elliot
(22) 03.01.2020	F21S 43/247	MARTI, Stefan
(54) CHILD'S SEAT WITH A VENTILATION SYSTEM	F21S 43/236	DI CENSO, Davide
(73) Osann GmbH	(11) EP3318446	(31) 201562102418 P
(72) SKLENARZ, Johannes	(21) EP17196015.6	(32) 12.01.2015
(31) 102019100145	(47) 28.12.2022	(33) United States of America
(32) 04.01.2019	(22) 11.10.2017	(51) B60R 13/02
(33) Germany	(54) OVERHEAD CONSOLE COMPRISING A LIGHT MODULE	B60H 1/00
(51) B60Q 1/00	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	B60H 1/24
G02B 27/09	(72) SATO, Haruko	B60Q 3/54
G02F 1/29	(31) 2016215423	(11) EP3812217
(11) EP3585647	(32) 02.11.2016	(21) EP19204590.4
(21) EP18757081.7	(33) Japan	(47) 28.12.2022
(47) 28.12.2022	(51) B60R 1/06	(22) 22.10.2019
(87) CA2018050213	B60R 1/074	(54) ROOF MODULE
30.08.2018	F16J 15/3236	(73) MAGNA STEYR Fahrzeugtechnik GmbH & Co KG
(22) 26.02.2018	(11) EP3862228	(72) PASSEGGGER, Wolfgang
(54) VEHICLE HEADLIGHT BEAM CONTROL	(21) EP21155417.5	TRUMMER, Peter
(73) LensVector Inc.	(47) 28.12.2022	CURK, Martin
(72) GALSTIAN, Tigran	(22) 05.02.2021	DOMWEBER, Johann
(31) 201762463317 P	(54) EXTERIOR REARVIEW MIRROR	(51) B60R 16/02
(32) 24.02.2017	(73) Volkswagen Aktiengesellschaft	(11) EP3702221
(33) United States of America	(72) Gresens, Toralf	(21) EP20154324.6
(51) B60Q 1/068	Döhlert, Steffen	(47) 28.12.2022
B60Q 1/06	(31) 102020201511	(22) 29.01.2020
(11) EP3960542	(32) 07.02.2020	(54) GROMMET AND WIRE HARNESS
(21) EP21192900.5	(33) Germany	(73) Yazaki Corporation
(47) 28.12.2022	(51) B60R 9/04	(72) KIUCHI, Masaru
(22) 24.08.2021	(11) EP3743313	ONODA, Takeshi
(54) MOTOR VEHICLE HEADLAMP WITH ADJUSTING ELEMENT CHANGING ITS SHAPE DEPENDENT ON TEMPERATURE	(21) EP19710022.5	(31) 2019035043
	(47) 28.12.2022	(32) 28.02.2019
	(87) FR2019050167	(33) Japan
	01.08.2019	(51) B60R 16/02
	(22) 25.01.2019	
	(54) ROOF BAR SUPPORT DEVICE	

B62D 25/14	B60N 2/42	01.11.2018
(11) EP3887207	B60R 16/023	(22) 25.04.2018
(21) EP19835440.9	B60R 16/02	(54) HYDRODYNAMIC RETARDER SYSTEM
(47) 28.12.2022	(11) EP3891024	AND METHOD OF CONTROLLING A
(87) FR2019052599	(21) EP19835462.3	HYDRODYNAMIC RETARDER SYSTEM
04.06.2020	(47) 28.12.2022	(73) Dana Belgium N.V.
(22) 04.11.2019	(87) FR2019052859	(72) VAN DINGENEN, Joachim
(54) SUPPORT FOR A MOTOR VEHICLE	11.06.2020	BEDERT, Jan A.
CABIN WIRING HARNESS	(22) 29.11.2019	NEVEJANT, Hein
(73) PSA Automobiles SA	(54) VEHICLE COMPRISING AN	(31) 201762490230 P
(72) RIVIERRE, Laurent	ELECTRONIC HOUSING IMPLANTED	(32) 26.04.2017
VILLA, Laurent	UNDER THE SEAT CUSHION OF A	(33) United States of America
(31) 1871866	SEAT	<hr/>
(32) 26.11.2018	(73) PSA Automobiles SA	(51) B60T 7/08
(33) France	(72) CONVERS, Germain	B60T 13/22
<hr/>	(31) 1872225	(11) EP3760503
(51) B60R 16/02	(32) 03.12.2018	(21) EP20184118.6
F16L 3/10	(33) France	(47) 28.12.2022
F16L 3/26	<hr/>	(22) 06.07.2020
H02G 3/04	(51) B60R 99/00	(54) IMPROVED HYDRAULIC BRAKE
H02G 3/32	G08G 1/16	ARRANGEMENT FOR AN OFF-ROAD
B60R 13/00	B60W 50/00	VEHICLE
(11) EP3823861	B62D 15/02	(73) CNH Industrial Italia S.p.A.
(21) EP19731899.1	B60W 30/06	(72) Borretti, Biagio
(47) 28.12.2022	(11) EP3778315	Ciarrocchi, Marco Pietro
(87) EP2019065188	(21) EP19775288.4	(31) 201900010989
23.01.2020	(47) 28.12.2022	(32) 05.07.2019
(22) 11.06.2019	(87) JP2019009918	(33) Italy
(54) MOTORCYCLE TRIM COMPONENT	03.10.2019	<hr/>
AND MOTORCYCLE ASSEMBLY	(22) 12.03.2019	(51) B60T 7/10
(73) Bayerische Motoren Werke	(54) PARKING ASSISTANCE DEVICE	(11) EP3560777
Aktiengesellschaft	(73) Clarion Co., Ltd.	(21) EP18169660.0
(72) PAZULLA, Martin	(72) ISHINODA, Makoto	(47) 28.12.2022
KRYCH, Tim	TAGAWA, Shinya	(22) 26.04.2018
(31) 102018211953	HASEJIMA, Noriyasu	(54) PARKING BRAKE FOR A MOTOR
(32) 18.07.2018	(31) 2018070438	VEHICLE, AND METHOD TO RELEASE
(33) Germany	(32) 30.03.2018	A PARKING BRAKE SYSTEM
<hr/>	(33) Japan	(73) FCA Italy S.p.A.
(51) B60R 19/04	<hr/>	(72) BADINO, Renato
(11) EP3865351	(51) B60S 1/08	BELLATO, Enrico
(21) EP21157047.8	B60S 1/16	GABIATI, Giovanni
(47) 28.12.2022	H02K 49/10	GRILLO, Massimo
(22) 15.02.2021	(11) EP3778316	LELUZZI, Michele
(54) FRONTAL PROTECTION SYSTEM FOR	(21) EP19211285.2	LUCA', Stefano
VEHICLES	(47) 28.12.2022	<hr/>
(73) Guidosimplex S.r.l.	(22) 25.11.2019	(51) B60T 7/20
(72) VENTURINI, Fabrizio	(54) DIRECT DRIVE FOR A WINDSHIELD	B60T 8/17
(31) 202000003137	WIPER SYSTEM	B62D 59/04
(32) 17.02.2020	(73) ROSEMOUNT AEROSPACE INC.	B60D 1/24
(33) Italy	(72) MAHAPATRA, Guru Prasad	B60L 50/20
<hr/>	JACOB, Robin	(11) EP3971045
(51) B60R 21/0136	(31) 201911032886	(21) EP20196699.1
(11) EP3687864	(32) 14.08.2019	(47) 28.12.2022
(21) EP18758850.4	(33) India	(22) 17.09.2020
(47) 28.12.2022	<hr/>	(54) SYSTEM OF A MOTOR-DRIVEN
(87) EP2018072120	(51) B60S 1/52	TRAILER AND A TOWBAR
04.04.2019	(11) EP3784533	(73) Nüwiel GmbH
(22) 15.08.2018	(21) EP18724151.8	(72) Kahn, Fahad Aman
(54) METHOD FOR GENERATING A	(47) 28.12.2022	Qammar, Muhammad Ali
DISCONNECTION SIGNAL FOR	(87) EP2018060750	<hr/>
TRIGGERING AT LEAST ONE SAFETY	31.10.2019	(51) B60T 8/24
FUCNTION OF A MOTOR VEHICLE	(22) 26.04.2018	B60T 8/1755
(73) Robert Bosch GmbH	(54) A WINDSCREEN WIPER ARM,	(11) EP3736186
(72) KOENIG, Simon	PARTICULARLY FOR AUTOMOBILES	(21) EP19210879.3
LANG, Gunther	(73) Federal-Mogul S.A.	(47) 28.12.2022
(31) 102017217015	(72) BOLAND, Xavier	(22) 22.11.2019
(32) 26.09.2017	<hr/>	(54) BRAKE SYSTEM AND CONTROL
(33) Germany	(51) B60T 1/087	METHOD THEREOF
<hr/>	(11) EP3615392	(73) HYUNDAI MOTOR COMPANY
(51) B60R 21/207	(21) EP18721993.6	Kia Corporation
B60N 2/427	(47) 28.12.2022	(72) Jo, Young-Jin
B60R 7/04	(87) EP2018060641	Han, Jung-Nam

(31) 20190054717	KLEEMANN, Ralf	(54) VEHICLE CONTROL METHOD,
(32) 10.05.2019	BRENDOERFER, Daniel	APPARATUS, VEHICLE, COMPUTER
(33) Korea (Republic)	HIENZ, Bernd	PROGRAM AND STORAGE MEDIUM
(51) B60T 8/40	(31) 102018202885	(73) Beijing Baidu Netcom Science and
B60T 13/74	(32) 26.02.2018	Technology Co., Ltd.
F16D 125/40	(33) Germany	(72) WANG, Ruisuo
F16D 65/18	(51) B60T 13/74	(31) 202011018900
(11) EP3802248	F16D 65/18	(32) 24.09.2020
(21) EP19732132.6	F16D 55/227	(33) China
(47) 28.12.2022	F16D 65/097	(51) B60W 40/08
(87) IB2019054324	F16D 121/24	B60W 50/08
05.12.2019	F16D 125/50	G05D 1/00
(22) 24.05.2019	F16D 127/06	(11) EP3969345
(54) IMPROVED ELECTRO-HYDRAULIC	F16D 129/08	(21) EP19724447.8
ACTUATOR FOR BRAKE	(11) EP3805059	(47) 28.12.2022
(73) BREMBO S.p.A.	(21) EP19201708.5	(87) EP2019062272
(72) CARRARA, Marco	(47) 28.12.2022	19.11.2020
SALA, Paolo	(22) 07.10.2019	(22) 14.05.2019
(31) 201800005888	(54) DISC BRAKE COMPRISING	(54) A METHOD FOR ENABLING AN
(32) 31.05.2018	AN ELECTROMECHANICAL	AUTONOMOUS DRIVING MODE FOR A
(33) Italy	ACTUATOR, PARTICULARLY AN	MIXED-MODE VEHICLE
(51) B60T 13/26	ELECTROMECHANICAL PARKING	(73) VOLVO TRUCK CORPORATION
B60T 13/68	BRAKE ACTUATOR	(72) ESBERG, Ida
(11) EP3900991	(73) ZF CV Systems Global GmbH	MOBERG, Max
(21) EP21167169.8	(72) HENNING, Paul	(51) B60W 40/105
(47) 28.12.2022	(51) B60T 17/22	B60W 50/00
(22) 07.04.2021	(11) EP3934951	(11) EP3265353
(54) METHOD FOR CONTROLLING A	(21) EP20713972.6	(21) EP16704854.5
PNEUMATIC BRAKE SYSTEM OF A	(47) 28.12.2022	(47) 28.12.2022
TRAILER VEHICLE	(87) IB2020051960	(87) EP2016053420
(73) ZF CV Systems Global GmbH	17.09.2020	09.09.2016
(72) LASKAWY, Ivo	(22) 06.03.2020	(22) 18.02.2016
(31) 102020109879	(54) SUPERVISING DEVICE FOR	(54) VEHICLE REFERENCE VELOCITY
(32) 08.04.2020	MONITORING THE OPERATION OF	ESTIMATION APPARATUS AND
(33) Germany	AN ANTI-SLIP DEVICE OF A RAILWAY	METHOD
(51) B60T 13/66	BRAKING SYSTEM	(73) Jaguar Land Rover Limited
(11) EP3758988	(73) Faiveley Transport Italia S.r.l.	(72) DOCKER, Stephen
(21) EP19700860.0	(72) TIONE, Roberto	HERRERA, Juan
(47) 28.12.2022	(31) 201900003423	(31) 201503554
(87) EP2019050234	(32) 08.03.2019	(32) 03.03.2015
29.08.2019	(33) Italy	(33) United Kingdom
(22) 07.01.2019	(51) B60W 10/02	(51) B60W 40/11
(54) MULTI-CIRCUIT HYDRAULICALLY	B60W 10/04	B60W 50/00
CLOSED BRAKING SYSTEM	B60W 20/40	(11) EP3265354
(73) Robert Bosch GmbH	B60W 30/18	(21) EP16704855.2
(72) STRENGERT, Stefan	B60K 6/442	(47) 28.12.2022
FRIEDRICH, Thomas	(11) EP3805061	(87) EP2016053421
DROTFLEFF, Dirk	(21) EP20192885.0	09.09.2016
KLEEMANN, Ralf	(47) 28.12.2022	(22) 18.02.2016
(31) 102018202887	(22) 26.08.2020	(54) VEHICLE STATE ESTIMATION
(32) 26.02.2018	(54) METHOD FOR CONTROLLING A	APPARATUS AND METHOD
(33) Germany	CLUTCH OF A DRIVE UNIT OF A	(73) Jaguar Land Rover Limited
(51) B60T 13/66	VEHICLE AND/OR A MACHINE, IN	(72) HERRERA, Juan
B60T 8/32	PARTICULAR AN HYBRID DRIVE	DOCKER, Stephen
(11) EP3758989	TRAIN OF A MOTOR VEHICLE	(31) 201503552
(21) EP19700861.8	(73) VOLKSWAGEN AG	(32) 03.03.2015
(47) 28.12.2022	(72) Ley, Michael	(33) United Kingdom
(87) EP2019050241	(31) 102019214942	(51) B61B 13/04
29.08.2019	(32) 27.09.2019	B62D 1/26
(22) 07.01.2019	(33) Germany	B61F 5/38
(54) MULTIPLE-CIRCUIT HYDRAULICALLY	(51) B60W 30/18	B61F 3/00
OPEN BRAKING SYSTEM, IN	B60W 60/00	B60B 35/00
PARTICULAR FOR A HIGHLY	G06V 20/56	B61F 5/50
AUTOMATED OR AUTONOMOUS	G08G 1/16	(11) EP3750769
VEHICLE	(11) EP3845429	(21) EP19751602.4
(73) Robert Bosch GmbH	(21) EP21167658.0	(47) 28.12.2022
(72) FRIEDRICH, Thomas	(47) 28.12.2022	(87) CN2019073416
DROTFLEFF, Dirk	(22) 09.04.2021	15.08.2019

(22) 28.01.2019	(54) INTERFACE FOR CONNECTING A	(22) 19.11.2019
(54) DRIVING AXLE OF RAIL VEHICLE,	VEHICLE SUPERSTRUCTURE TO AN	(54) METHOD AND DEVICE FOR
RAIL VEHICLE, AND RAIL TRANSPORT	UNDERFRAME	CONTROLLING AND MONITORING A
SYSTEM	(73) Rail Cargo Austria Aktiengesellschaft	FUNCTIONAL UNIT
(73) BYD Company Limited	(72) GRANER, Gernot	(73) Thales Management & Services
(72) ZHOU, Kang	HERINCS, Philipp	Deutschland GmbH
LIU, Guang	(31) 502362018	(72) ZURFLUH, Erwin
WANG, Jingjing	(32) 21.03.2018	SCHWEHN, Oliver
WEI, Jia	(33) Austria	(31) 102018129359
LIU, Huiyue	(51) B61D 17/06	(32) 21.11.2018
(31) 201810119258	B61G 7/10	(33) Germany
(32) 06.02.2018	B61D 17/02	(51) B61L 15/00
(33) China	(11) EP3929056	B61F 5/50
(51) B61B 13/10	(21) EP20193886.7	B61L 25/02
F16J 15/00	(47) 28.12.2022	G01C 9/00
G01M 3/02	(22) 01.09.2020	B61F 5/22
(11) EP3666615	(54) SYSTEM OF A SIDE SKIRT FOR A CAR	B61F 5/24
(21) EP18844367.5	OF A MULTI-CAR VEHICLE AND A	B61D 45/00
(47) 28.12.2022	SIDE SKIRT SUPPORT	B60G 17/019
(87) KR2018008160	(73) Dellner Couplers AB	B60G 17/0185
14.02.2019	(72) Dix, Norman	B60G 99/00
(22) 19.07.2018	Krach, Philipp	(11) EP3750775
(54) TUBE INFRASTRUCTURE WITH	(31) 20182543	(21) EP20178355.2
VACUUM PRESSURE	(32) 26.06.2020	(47) 28.12.2022
(73) Korea Railroad Research Institute	(33) European Patent Office (EPO)	(22) 04.06.2020
(72) CHOE, Jae Heon	(51) B61D 27/00	(54) METHOD AND DEVICE FOR
LEE, Kwan Sup	B60H 1/22	DETERMINING THE OPERATING TILT
CHOI, Su Yong	B61C 3/02	OF VEHICLES
LEE, Chang Young	B61C 7/04	(73) Siemens Mobility Austria GmbH
LIM, Jung Youl	F25B 27/02	(72) Girstmair, Bernhard Lukas
LEE, Jin Ho	B60H 1/00	(31) 505292019
JANG, Yong Jun	B60H 1/03	(32) 13.06.2019
JO, Jeong Min	(11) EP3246222	(33) Austria
OK, Min Hwan	(21) EP16737322.4	(51) B61L 15/00
KIM, Jae Hoon	(47) 28.12.2022	H04B 1/40
(31) 20170101788	(87) JP2016050643	B61L 27/00
(32) 10.08.2017	21.07.2016	(11) EP3708455
(33) Korea (Republic)	(22) 12.01.2016	(21) EP18875609.2
(51) B61C 17/00	(54) VEHICLE AIR-CONDITIONING DEVICE	(47) 28.12.2022
B61C 17/12	(73) Mitsubishi Electric Corporation	(87) CN2018086261
H02M 7/48	ALSTOM Holdings	16.05.2019
H05K 7/20	(72) STAHNKE, Susann	(22) 10.05.2018
(11) EP3663157	FRETWURST, Mathias	(54) BTM DEVICE FOR MULTI-
(21) EP18840294.5	MIJIN, Yukitaka	INFORMATION FUSION
(47) 28.12.2022	(31) 2015004286	TRANSMISSION BETWEEN HOST AND
(87) JP2018020148	(32) 13.01.2015	ANTENNA UNIT
07.02.2019	(33) Japan	(73) CRSC Research & Design Institute
(22) 25.05.2018	(51) B61G 5/02	Group Co., Ltd.
(54) POWER CONVERSION DEVICE AND	B61G 9/10	(72) YANG, Guanglun
RAILROAD VEHICLE	(11) EP3162652	ZHANG, Shengwen
(73) Kabushiki Kaisha Toshiba	(21) EP15003106.0	YAN, Bing
Toshiba Infrastructure Systems &	(47) 28.12.2022	SUN, Guoying
Solutions Corporation	(22) 30.10.2015	YE, Feng
(72) TSUKINARI, Yuuki	(54) PIVOT ANCHOR AND CAR	ZHANG, Qinghua
FUJIWARA, Nobuto	(73) Dellner Couplers AB	ZHENG, Guiyan
FUJITO, Haruhiko	(72) Skowronek, Jacek	YUAN, Xu
(31) 2017151673	Westman, Anders	LV, Xianliang
(32) 04.08.2017	(51) B61L 5/18	LI, Zhiyu
(33) Japan	B61L 27/53	LIU, Zhen
(51) B61D 3/12	B61L 7/10	CHENG, Bangfeng
(11) EP3768565	G08C 19/02	(31) 201711106342
(21) EP19712555.2	G08C 25/02	(32) 10.11.2017
(47) 28.12.2022	H04Q 9/00	(33) China
(87) EP2019056746	(11) EP3883836	(51) B62B 5/04
26.09.2019	(21) EP19809401.3	(11) EP3894300
(22) 19.03.2019	(47) 28.12.2022	(21) EP20715669.6
	(87) EP2019081821	(47) 28.12.2022
	28.05.2020	(87) DE2020100058

13.08.2020	ISHIKAWA, Yasushi	BERTIN, Frédéric
(22) 30.01.2020	FUJIMOTO, Ken	QUEFFELEANT, Ael
(54) TRANSPORT TROLLEY	(31) 2020074839	BENIFLA, Victor
(73) Henkst, Peter	(32) 20.04.2020	DUVIVIER, Arnaud
(72) Henkst, Peter	(33) Japan	(31) 1872172
(31) 102019102876	(51) B62D 25/04	(32) 30.11.2018
(32) 06.02.2019	(11) EP3898387	(33) France
(33) Germany	(21) EP19839343.1	(51) B62J 7/04
(51) B62D 5/00	(47) 28.12.2022	B62J 9/00
(11) EP4054919	(87) FR2019052789	B62K 19/40
(21) EP21819027.0	25.06.2020	(11) EP3924242
(47) 28.12.2022	(22) 22.11.2019	(21) EP20705114.5
(87) EP2021025450	(54) WINDOW PILLAR LINER COMPRISING	(47) 28.12.2022
23.06.2022	A RIB	(87) IB2020051009
(22) 18.11.2021	(73) PSA Automobiles SA	20.08.2020
(54) STEERING SYSTEM FOR A VEHICLE	(72) BINAC, Jean Nicolas	(22) 10.02.2020
(73) softwareinmotion GmbH	SAINT DENIS, Lionel	(54) LATERAL CASE FOR MOTORCYCLES
(72) KAFFENBERGER, Rüdiger	RIVIERRE, Laurent	WITH IMPROVED COUPLING DEVICE
RIEK, Kai	(31) 1873495	TO THE VEHICLE FRAME
(31) 102020133969	(32) 20.12.2018	(73) Givi S.p.A.
(32) 17.12.2020	(33) France	(72) VISENZI, Giuseppe
(33) Germany	(51) B62D 35/00	(31) 201900002225
(51) B62D 15/02	(11) EP3722189	(32) 15.02.2019
(11) EP3927595	(21) EP20168917.1	(33) Italy
(21) EP20700880.6	(47) 28.12.2022	(51) B62J 15/00
(47) 28.12.2022	(22) 09.04.2020	(11) EP3098147
(87) EP2020050748	(54) FRONT SPOILER ASSEMBLY FOR A	(21) EP16168612.6
27.08.2020	MOTOR VEHICLE	(47) 28.12.2022
(22) 14.01.2020	(73) Apollo Tyres Global R&D B.V.	(22) 06.05.2016
(54) SYSTEM AND METHOD FOR	(72) DANEV, Dimitar	(54) WHEEL PROTECTOR FOR A
AUTOMATED DRIVING AND FOR	PAULITSCH, Markus	BICYCLE AND METHOD FOR
AUTOMATED PARKING IN REVERSE	DR. HÖLZEL, Steffen	THE PREPARATION OF A WHEEL
IN A PARKING SPACE FROM THE	PFISTER, Klaus	PROTECTOR
AUTOMATED DRIVING MODE	PEETERS, Mike	(73) SKS metaplast Scheffer-Klute GmbH
(73) Bayerische Motoren Werke	KORTE, Gerlof	(72) Kordes, Sven
Aktiengesellschaft	LUTTIKHUIS, Bart Oude	Grabski, Karsten
(72) VON EICHHORN, Andreas	(31) 102019109371	Wedhorn, Sebastian
VON EICHHORN, Sabine	(32) 09.04.2019	Fuchs, Patrick
(31) 102019104464	(33) Germany	(31) 102015108549
(32) 21.02.2019	(51) B62D 53/06	(32) 29.05.2015
(33) Germany	B62D 53/08	(33) Germany
(51) B62D 15/02	B62D 13/02	(51) B62L 3/02
G08G 1/16	(11) EP3858714	B60T 8/36
G08G 1/14	(21) EP20208478.6	(11) EP3753833
(11) EP3659898	(47) 28.12.2022	(21) EP19710776.6
(21) EP19212268.7	(22) 18.11.2020	(47) 28.12.2022
(47) 28.12.2022	(54) SLIDING BOGIE LINK TRAILER WITH	(87) IB2019051027
(22) 28.11.2019	STEER AXLE	22.08.2019
(54) PARKING SUPPORT APPARATUS	(73) Dennison Trailers Unlimited Company	(22) 08.02.2019
(73) Clarion Co., Ltd.	(72) DENNISON, David	(54) HYDRAULIC PRESSURE CONTROL
(72) OGATA, Takehito	LAMBE, Ronan	UNIT
KUWAHARA, Toshihisa	COSTELLO, Martin	(73) Robert Bosch GmbH
UMINO, Ryosuke	(31) 201916770	(72) ATSUSHI, Hiroaki
IWANO, Katsumi	(32) 18.11.2019	CHIBA, Kazuki
(31) 2018222512	(33) United Kingdom	(31) 2018023638
(32) 28.11.2018	(51) B62D 65/06	(32) 14.02.2018
(33) Japan	B66C 13/08	(33) Japan
(51) B62D 21/15	(11) EP3887236	(51) B62M 11/10
B62D 25/20	(21) EP19820834.0	B62M 17/00
(11) EP3901008	(47) 28.12.2022	F16H 3/42
(21) EP21163671.7	(87) FR2019052652	F16H 55/10
(47) 28.12.2022	04.06.2020	(11) EP3730395
(22) 19.03.2021	(22) 07.11.2019	(21) EP20165279.9
(54) FRONT VEHICLE-BODY STRUCTURE	(54) HANDLING DEVICE FOR INSERTING A	(47) 28.12.2022
FOR VEHICLE, AND VEHICLE	PIECE OF EQUIPMENT AT AN ANGLE	(22) 24.03.2020
(73) MAZDA MOTOR CORPORATION	INTO A SYSTEM	(54) A GEAR SHIFTING SYSTEM
(72) NAGASHIMA, Yuki	(73) PSA Automobiles SA	(73) Driven Technologies, Inc.
CHIKITA, Masaru	(72) GLOUX, Pierre	(72) SMITH, Jason

GRANIGAN, Noah	(54) FLOATING DEVICE FOR BLOCKING AND RECOVERING POLLUTANTS	(33) France
DIAMOND, Colin	(73) HEUREKA AMBIENTE S.R.L.	(51) B64C 27/68
GOLDING, William	(72) PALMIERI, Jacopo	(11) EP3597539
JAKOBSEN, Morten Opprud	(31) 201700139874	(21) EP18400024.8
GERCHAR, Garrett	(32) 05.12.2017	(47) 28.12.2022
ROSENBERRY, Alexander Jacobson	(33) Italy	(22) 17.07.2018
(31) PA201901029	(51) B63H 20/36	(54) A ROTOR WITH PITCH CONTROL APPARATUS
201962836864 P	(11) EP3877250	(73) AIRBUS HELICOPTERS
(32) 02.09.2019	(21) EP18803596.8	DEUTSCHLAND GmbH
22.04.2019	(47) 28.12.2022	(72) Ries, Tobias
(33) Denmark	(87) EP2018080616	(51) B64C 39/02
United States of America	14.05.2020	(11) EP3464066
(51) B63B 1/06	(22) 08.11.2018	(21) EP17728268.8
B63B 1/40	(54) AN OUTER DRIVE PROTECTION ARRANGEMENT	(47) 28.12.2022
(11) EP3885244	(73) Volvo Penta Corporation	(87) IB2017053025
(21) EP18855149.3	(72) SJÖBLOM, Lars	30.11.2017
(47) 28.12.2022	(51) B64C 3/44	(22) 23.05.2017
(87) ES2018070744	B64C 9/02	(54) SAFETY DEVICE FOR CHECKING A REMOTELY PILOTED AIRCRAFT
28.05.2020	B64C 27/72	(73) JT Drone Technologies S.r.l.
(22) 19.11.2018	B64C 3/48	(72) GUARNATI, Roberto
(54) PROW AND/OR STERN ARRANGEMENT FOR REDUCING THE DRAG OF A WATERCRAFT DURING SAILING	(11) EP3810504	(31) UA20163790
(73) Arcusin, Carlos Eduardo	(21) EP19746165.0	(32) 25.05.2016
Ganzabal Liberati, Alejandro Roman	(47) 28.12.2022	(33) Italy
(72) ARCUSIN, Carlos Eduardo	(87) IB2019055214	(51) B64C 39/02
(51) B63B 1/30	26.12.2019	B64C 37/02
(11) EP3687890	(22) 20.06.2019	B64C 25/32
(21) EP18786857.5	(54) METHOD FOR THE REALISATION OF PRESTRESSED SHELLS WITH A CONTROLLED BISTABILITY	B60B 19/00
(47) 28.12.2022	(73) Università degli Studi di Roma "La Sapienza"	B60B 19/12
(87) IB2018056975	(72) VIDOLI, Stefano	B62D 57/024
04.04.2019	BRUNETTI, Matteo	F17D 5/00
(22) 12.09.2018	(31) 201800006527	G01B 7/28
(54) MOTOR BOAT WITH FOILS WHICH ARE RETRACTABLE BY TILTING	(32) 20.06.2018	G01B 17/02
(73) Enata Investment Corporation Pte. Ltd.	(33) Italy	G01N 29/04
(72) ROZAND, Arthur	(51) B64C 13/34	G01N 29/22
LUKOWSKI, Alaric	(11) EP3489135	G01N 29/24
DYEN, Stéphane	(21) EP18207069.8	G01N 29/265
(31) 17193090	(47) 28.12.2022	G08G 5/00
(32) 26.09.2017	(22) 19.11.2018	G08G 5/02
(33) European Patent Office (EPO)	(54) CONTROL OF MULTIPLE FLIGHT CONTROL SURFACE SYSTEMS USING SINGLE POWER DRIVE UNIT	B60G 3/01
(51) B63B 1/40	(73) Hamilton Sundstrand Corporation	G06V 20/13
B63B 1/36	(72) HARRINGTON, Erik	G06V 20/17
(11) EP3885248	MAYER, Timothy Michael	(11) EP3887252
(21) EP18855150.1	(31) 201715821058	(21) EP19888236.7
(47) 28.12.2022	(32) 22.11.2017	(47) 28.12.2022
(87) ES2018070745	(33) United States of America	(87) US2019063400
28.05.2020	(51) B64C 25/40	30.07.2020
(22) 19.11.2018	B64C 25/34	(22) 26.11.2019
(54) FLOATING STRUCTURE FOR TRANSPORT FORMED BY A TRAIN ARRANGEMENT OF ROTARY BODIES OF REVOLUTION WHICH REDUCES THE DRAG OF SAME DURING SAILING	(11) EP3653495	(54) INSPECTION METHOD USING A PERCHING UAV WITH A RELEASABLE CRAWLER
(73) Arcusin, Carlos Eduardo	(21) EP19208576.9	(73) Saudi Arabian Oil Company
Ganzabal Liberati, Alejandro Roman	(47) 28.12.2022	King Abdullah University Of Science And Technology
(72) ARCUSIN, Carlos Eduardo	(22) 12.11.2019	(72) ABDELLATIF, Fadl
(51) B63B 35/32	(54) METHOD FOR SECURING AN ACTUATOR FOR ROTATING AN AIRCRAFT WHEEL IN A DISENGAGED POSITION	ABDELKADER, Mohamed
E02B 15/04	(73) Safran Landing Systems	SHAMMA, Jeff S.
(11) EP3720764	(72) LIEGEOIS, Pierre-Yves	(31) 201916694092
(21) EP18815040.3	THORAVAL, Bruno	201862772700 P
(47) 28.12.2022	(31) 1860506	25.11.2019
(87) IT2018050231	(32) 14.11.2018	29.11.2018
13.06.2019	(51) B64D 11/00	(33) United States of America
(22) 27.11.2018	B64D 11/04	United States of America
	(11) EP3778396	
	(21) EP20157124.7	

(47) 28.12.2022	B64C 27/04	B64G 1/64
(22) 13.02.2020	(11) EP3904215	(11) EP3127822
(54) GALLEY CART EXTRACTION AND RETENTION SYSTEM FOR MULTIPLE- CART BAYS	(21) EP20400006.1	(21) EP15773071.4
(73) B/E Aerospace, Inc.	(47) 28.12.2022	(47) 28.12.2022
(72) TRACEY, Christopher L. WALL, Daniel H.	(22) 30.04.2020	(87) JP2015060484
(31) 201916712348 201962888229 P	(54) A LIFE RAFT SYSTEM FOR AN AIRCRAFT	08.10.2015
(32) 12.12.2019 16.08.2019	(73) AIRBUS HELICOPTERS DEUTSCHLAND GmbH	(22) 02.04.2015
(33) United States of America United States of America	(72) Harms, Stefan	(54) DEBRIS REMOVAL DEVICE AND DEBRIS REMOVAL SYSTEM
(51) B64D 11/06 B64D 11/00	(51) B64F 5/00 F01D 25/00 B64F 5/30	(73) Astroscale Japan Inc.
(11) EP3393907	(11) EP3604142	(72) OKADA, Mitsunobu
(21) EP16763481.5	(21) EP19197719.8	(31) 2014077824
(47) 28.12.2022	(47) 28.12.2022	(32) 04.04.2014
(87) EP2016070650 29.06.2017	(22) 29.06.2015	(33) Japan
(22) 01.09.2016	(54) AIRCRAFT ENGINE CLEANING SYSTEM	(51) B65B 9/04 B66F 7/06
(54) AIRCRAFT PASSENGER CABIN AREA	(73) Rolls-Royce Corporation	(11) EP3838769
(73) Airbus Operations GmbH	(72) GRIFFITHS, George F. HEGGERE, Prahlad GREEN, Jeffrey A.	(21) EP20210091.3
(72) BLANCK, Andreas CORDES, Frank JAFFRELOT, Jean-Baptiste NEHL, Jan Uwe BOERJESSON, Marcus	(31) 201462032751 P (32) 04.08.2014 (33) United States of America	(47) 28.12.2022
(31) 102015226664	(51) B64F 5/40 B64D 11/00	(22) 26.11.2020
(32) 23.12.2015	(11) EP3786070	(54) WORK STATION FOR A PACKAGING MACHINE WITH A LIFTING MECHANISM WITH A TOGGLE TYPE MECHANISM
(33) Germany	(21) EP20191114.6	(73) MULTIVAC Sepp Haggenmüller SE & Co. KG
(51) B64D 13/06	(47) 28.12.2022	(72) WÄGELE, Markus LUTZ, Florian
(11) EP3931089	(22) 14.08.2020	(31) 102019219833
(21) EP20719679.1	(54) METHOD FOR FIRE QUALIFYING AIR VEHICLE CABIN REPLACEMENT COMPONENTS	(32) 17.12.2019
(47) 28.12.2022	(73) Lufthansa Technik AG	(33) Germany
(87) FR2020050386 10.09.2020	(72) SARBAJNA-ALPERT, Monika NASS, Tim ALBERT, Bernd SCHULZE, Malte CHRISTAN, Rudolf WENER, Dietmar LINDERMANN, Folker REIFFERSCHIED, Moritz WAGNER, Dennis	(51) B65D 5/60 B31B 50/10 B31B 50/62 B31B 105/00 B31B 110/35 B31B 120/30 B31B 120/40
(22) 27.02.2020	(31) 102019212848	(11) EP3352980
(54) AIR CONDITIONING SYSTEM FOR AN AIRCRAFT CABIN, COMPRISING MEANS FOR REHEATING THE WATER COLLECTED BY THE WATER EXTRACTION LOOP	(32) 27.08.2019	(21) EP16775386.2
(73) Liebherr-Aerospace Toulouse SAS	(33) Germany	(47) 28.12.2022
(72) GALZIN, Guillaume BLARY, Jean-Raymond LAVERGNE, David	(51) B64G 1/10 G01C 11/10 B64G 1/36	(87) US2016051502 30.03.2017
(31) 1902147	(11) EP3421377	(22) 13.09.2016
(32) 01.03.2019	(21) EP18179833.1	(54) METHODS AND MACHINE FOR FORMING A SHIPPING CONTAINER WITH AN ARTICLE RETAINING WEB
(33) France	(47) 28.12.2022	(73) WestRock Shared Services, LLC
(51) B64D 15/12 F01D 25/02 F02C 7/047	(22) 26.06.2018	(72) GRAHAM, Thomas Dean AGANOVIC, Amer D'ALELIO, Claudio
(11) EP3483068	(54) METHOD AND APPARATUS FOR CORRECTING SATELLITE IMAGING TIME	(31) 201514860457
(21) EP18205118.5	(73) Korea Aerospace Research Institute	(32) 21.09.2015
(47) 28.12.2022	(72) LEE, Seon Ho YOON, Jae Cheol KIM, Dae Kwan	(33) United States of America
(22) 08.11.2018	(31) 20170081031	(51) B65D 19/06 B65D 19/38 B65D 21/032 G06K 7/10 B65D 21/04 B65D 21/06
(54) ICE PHOBIC MATERIAL TO REDUCE RUNBACK ICE	(32) 27.06.2017	(11) EP3647218
(73) Goodrich Corporation	(33) Korea (Republic)	(21) EP18825543.4
(72) BOTURA, Galdemir Cezar HU, Jin	(51) B64G 1/56 B64G 1/24 B64G 1/26	(47) 28.12.2022
(31) 201715806516		(87) CN2018089268 03.01.2019
(32) 08.11.2017		(22) 31.05.2018
(33) United States of America		(54) LOGISTICS APPARATUS AND METHOD FOR IDENTIFYING
(51) B64D 25/16 B63C 9/22		

EMPTY/FULL STATE OF LOGISTICS APPARATUS	(33) Italy	FOR USE WHEN ROBOT RIDING ELEVATOR
(73) Shanghai Hongyan Returnable Transit Packagings Co., Ltd.	(51) B65G 49/04	(73) Tencent Technology (Shenzhen) Company Limited
(31) 201710496583	B05B 13/04	(72) ZHU, Xiaolong
(32) 26.06.2017	B62D 65/18	TANG, Shanmin
(33) China	(11) EP3473566	LIU, Yongsheng
(51) B65D 47/08	(21) EP18201549.5	(31) 201610296629
B65D 55/02	(47) 28.12.2022	(32) 05.05.2016
(11) EP3691976	(22) 19.10.2018	(33) China
(21) EP18795295.7	(54) CONVEYOR SYSTEM FOR TRANSPORTING OBJECTS IN A DIP COATING SYSTEM	(51) B66B 5/00
(47) 28.12.2022	(73) Eisenmann GmbH	(11) EP3459893
(87) EP2018076860	(72) Riegraf, Martin	(21) EP18196309.1
11.04.2019	(31) 102017124609	(47) 28.12.2022
(22) 02.10.2018	(32) 20.10.2017	(22) 24.09.2018
(54) A CLOSURE	(33) Germany	(54) ELEVATOR SENSOR ARRAY SYSTEM
(73) Obrist Closures Switzerland GmbH	(51) B65H 19/22	(73) Otis Elevator Company
(72) ROGNARD, Jean-Yves	B65H 19/00	(72) WOS, Lindsay
HOLMES, Daniel	B65H 19/10	FARUKI, Tarique
(31) 201716075	B65H 19/12	(31) 201715713733
(32) 02.10.2017	B65H 18/26	(32) 25.09.2017
(33) United Kingdom	(11) EP3717387	(33) United States of America
(51) B65D 51/16	(21) EP18883038.4	(51) B66B 5/02
B65D 41/04	(47) 28.12.2022	B66B 5/00
(11) EP4032828	(87) US2018062462	B66B 1/32
(21) EP22151222.1	06.06.2019	(11) EP2477925
(47) 28.12.2022	(22) 26.11.2018	(21) EP10816745.3
(22) 12.01.2022	(54) SURFACE REWINDER WITH CENTER ASSIST AND BELT AND WINDING DRUM FORMING A WINDING NEST	(47) 28.12.2022
(54) CAP FOR CONTAINER	(73) Paper Converting Machine Company	(87) FI201000055
(73) SACMI COOPERATIVA MECCANICI IMOLA SOCIETA' COOPERATIVA	(72) TECHLIN, Michael E.	24.03.2011
(72) FALZONI, Alessandro	(31) 201762592103 P	(22) 08.09.2010
(31) 202100001430	(32) 29.11.2017	(54) METHOD AND ARRANGEMENT FOR PREVENTING THE DRIFTING OF AN ELEVATOR CAR
(32) 26.01.2021	(33) United States of America	(73) Kone Corporation
(33) Italy	(51) B65H 67/06	(72) VIITA-AHO, Tarvo
(51) B65D 85/804	(11) EP3828112	KAARTINEN, Raimo
(11) EP3592665	(21) EP20209664.0	KANTOLA, Jari
(21) EP18701766.0	(47) 28.12.2022	(31) 20090335
(47) 28.12.2022	(22) 25.11.2020	(32) 16.09.2009
(87) EP2018052345	(54) SUPPLYING TUBES TO A PLURALITY OF WORK STATIONS OF A TEXTILE MACHINE FOR CREATING CROSS-WOUND SPOOLS	(33) Finland
13.09.2018	(73) Saurer Spinning Solutions GmbH & Co. KG	(51) B66B 7/06
(22) 31.01.2018	(72) Doerner, Wolfgang	B66B 7/10
(54) CAPSULE FOR PREPARING A BEVERAGE	Prediger, Eduard	(11) EP3712098
(73) Delica AG	Schiffers, Philipp	(21) EP19163634.9
(72) AFFOLTER, Roland	Sprecher, Jonathan	(47) 28.12.2022
THILLA, Tim	Toepke, Heiko	(22) 19.03.2019
BRÖNNIMANN, Markus	Uedinger, Lothar	(54) ELEVATOR APPARATUS WITH ROPE SWAY DETECTOR
(31) 17160248	Wassen, Harald	(73) KONE Corporation
(32) 10.03.2017	(31) 102019132062	(72) Puranen, Mikko
(33) European Patent Office (EPO)	(32) 27.11.2019	Zakrzewski, Mari
(51) B65G 47/14	(33) Germany	(51) B66C 23/70
B23P 19/00	(51) B66B 1/06	(11) EP3444219
B25J 9/00	B66B 1/34	(21) EP18187550.1
B65G 47/22	(11) EP3453663	(47) 28.12.2022
B65G 47/68	(21) EP17792492.5	(22) 06.08.2018
B65G 47/76	(47) 28.12.2022	(54) COUPLING UNIT FOR A LATTICE STRUCTURE CONSTITUTING A WORK MACHINE
(11) EP3909890	(87) CN2017082970	(73) KOBELCO CONSTRUCTION MACHINERY CO., LTD.
(21) EP21173631.9	09.11.2017	(72) HAMAGUCHI, Hiromitsu
(47) 28.12.2022	(22) 04.05.2017	YAMASHITA, Toshiharu
(22) 12.05.2021	(54) FLOOR MONITORING METHOD, ELECTRONIC DEVICE AND COMPUTER STORAGE MEDIUM	NISHIKAWA, Yoshihide
(54) A FEEDER DEVICE FOR ROBOTS, ROBOTIC ARMS AND AUTOMATION SYSTEMS		YAMAGUCHI, Takunori
(73) Tera Automation S.r.l.		MAEDO, Tepei
(72) FIORINI, Luca		(31) 2017157851
(31) 202000010702		
(32) 12.05.2020		

(32) 18.08.2017	(21) EP19182118.0	(32) 29.06.2016
(33) Japan	(47) 28.12.2022	(33) United States of America
(51) B66F 9/07	(22) 24.06.2019	(51) B82Y 40/00
(11) EP3336047	(54) A PORTABLE TANK FOR STORING	H01J 1/304
(21) EP17200740.3	AND TRANSPORTING DIESEL FUEL	H01J 9/02
(47) 28.12.2022	AND ADBLUE	C01B 32/156
(22) 09.11.2017	(73) JFC Polska Sp. z o.o.	(11) EP3538482
(54) SHELF SERVING DEVICE	(72) Majewski, Mirosław	(21) EP17803778.4
(73) Jungheinrich Aktiengesellschaft	Sawczuk, Tomasz	(47) 28.12.2022
(72) Harting, Elmar	(31) 12746818 U	(87) EP2017001299
Becker, Michael	(32) 10.07.2018	17.05.2018
Cavelius, Jörg	(33) Poland	(22) 08.11.2017
(31) 102016124454	(51) B81B 3/00	(54) METHOD FOR PRODUCING AN
(32) 15.12.2016	H01L 41/04	ELECTRON EMITTER COATED WITH A
(33) Germany	H01L 41/113	NANOROD-CONTAINING COATING
(51) B66F 9/07	G01N 29/24	(73) Cettten GmbH
(11) EP3336048	G10K 9/125	(72) WEBER, Immo
(21) EP17200741.1	G10K 13/00	JAFARI, Houman
(47) 28.12.2022	B06B 1/06	GAO, Bo
(22) 09.11.2017	(11) EP3201122	(31) 102016013279
(54) SHELF SERVING DEVICE	(21) EP15846584.9	(32) 08.11.2016
(73) Jungheinrich Aktiengesellschaft	(47) 28.12.2022	(33) Germany
(72) Cavelius, Jörg	(87) US2015053605	(51) C01B 15/023
Harting, Elmar	07.04.2016	(11) EP2766299
(31) 102016124450	(22) 01.10.2015	(21) EP12766673.3
(32) 15.12.2016	(54) MICROMACHINED ULTRASONIC	(47) 28.12.2022
(33) Germany	TRANSDUCERS WITH A SLOTTED	(87) EP2012069408
(51) B66F 9/075	MEMBRANE STRUCTURE	18.04.2013
B66F 9/24	(73) InvenSense, Inc.	(22) 02.10.2012
G05G 9/047	(72) GUEDES, Andre	(54) PROCESS FOR PRODUCING
B66F 9/20	HORSLEY, David	HYDROGEN PEROXIDE
B60K 37/06	KIANG, Meng-Hsiung	(73) SOLVAY SA
B60K 35/00	PRZYBYLA, Richard	(72) VANDENBUSSCHE, Alain
(11) EP3536654	SHELTON, Stefan	DHAESE, Patrick Markus
(21) EP19160882.7	(31) 201462058909 P	BLOOMFIELD, Stephen
(47) 28.12.2022	(32) 02.10.2014	JANSSENS, Francine
(22) 05.03.2019	(33) United States of America	(31) 11184575
(54) INDUSTRIAL TRUCK WITH A DRIVER'S	(51) B81B 7/00	(32) 11.10.2011
DISPLAY	H04R 1/08	(33) European Patent Office (EPO)
(73) Jungheinrich Aktiengesellschaft	H04R 19/00	(51) C01B 25/14
(72) Heusinger, Sebastian	H04R 19/04	H01B 1/06
Tozzi, Fabien	(11) EP3628639	H01B 1/10
(31) 102018105410	(21) EP19199554.7	H01M 10/052
(32) 08.03.2018	(47) 28.12.2022	H01M 10/0562
(33) Germany	(22) 25.09.2019	(11) EP3766832
(51) B67D 1/04	(54) MICROPHONE MODULE WITH	(21) EP19882913.7
B67D 1/08	PARTICLE CONTAMINANT	(47) 28.12.2022
F16K 1/00	PROTECTION	(87) JP2019043450
(11) EP3877321	(73) Beijing Xiaomi Mobile Software Co., Ltd.	14.05.2020
(21) EP19820846.4	(72) YEN, Chiafu	(22) 06.11.2019
(47) 28.12.2022	DU, Hui	(54) SULFUR-CONTAINING COMPOUND,
(87) GB2019053177	(31) 201811133959	SOLID ELECTROLYTE, AND BATTERY
14.05.2020	(32) 27.09.2018	(73) Mitsui Mining & Smelting Co., Ltd.
(22) 08.11.2019	(33) China	(72) TAKAHASHI Tsukasa
(54) BAG-IN-KEG CONTAINER WITH VALVE	(51) B81C 1/00	ITO Takahiro
SEALING LIP	H01L 21/78	HYAKUTAKE Masaru
(73) Polykeg S.r.l.	(11) EP3478630	YAGI Teruaki
(72) WALTON, Philip Andrew	(21) EP17735066.7	(31) 2018210467
SONZOGNI, Sergio	(47) 28.12.2022	(32) 08.11.2018
(31) 201818331	(87) EP2017065787	(33) Japan
(32) 09.11.2018	04.01.2018	(51) C01B 33/158
(33) United Kingdom	(22) 27.06.2017	B01J 13/00
(51) B67D 7/02	(54) PROTECTIVE COATING ON TRENCH	D06M 11/79
B67D 7/04	FEATURES OF A WAFER AND	(11) EP3878812
B67D 7/78	METHOD OF FABRICATION THEREOF	(21) EP20865192.7
B67D 7/84	(73) Robert Bosch GmbH	(47) 28.12.2022
(11) EP3594175	(72) SUVANTO, Mikko VA	(87) KR2020011536
	(31) 201615196395	25.03.2021

(22) 28.08.2020	COMPOSITION CONTAINING SAID	(87) EP2020000094
(54) AEROGEL BLANKET AND	OXIDE PARTICLES	19.11.2020
MANUFACTURING METHOD	(73) M. Technique Co., Ltd.	(22) 11.05.2020
THEREFOR	(72) ENOMURA Masakazu	(54) LAMP MODULE COMPRISING
(73) LG Chem, Ltd.	HONDA Daisuke	LIGHT-EMITTING DIODES AND
(72) KIM, Young Hun	(31) 2016111346	PHOTOREACTOR
BAEK, Se Won	PCT/JP2017/003876	(73) Peschl Ultraviolet GmbH
YU, Sung Min	PCT/JP2016/083001	(72) PESCHL, Alexander
MIN, Kyung Seok	PCT/JP2016/066542	ZIEGENBALG, Dirk
JEON, Hyun Woo	(32) 02.06.2016	(31) 102019003299
PARK, Sang Woo	02.02.2017	(32) 10.05.2019
KIM, Bong June	07.11.2016	(33) Germany
(31) 20190114993	03.06.2016	(51) C02F 1/32
(32) 18.09.2019	(33) Japan	C02F 103/04
(33) Korea (Republic)	World Intellectual Property Office (WIPO)	C02F 1/469
(51) C01B 39/02	World Intellectual Property Office (WIPO)	C02F 1/00
C01B 39/08	World Intellectual Property Office (WIPO)	(11) EP3724132
C01B 39/12	(51) C02F 1/24	(21) EP18814914.0
B01J 29/89	B03D 1/14	(47) 28.12.2022
C07C 1/20	B03D 1/24	(87) EP2018084274
B01J 37/00	(11) EP3820821	20.06.2019
(11) EP3007823	(21) EP18746614.9	(22) 11.12.2018
(21) EP14729683.4	(47) 28.12.2022	(54) WATER PURIFICATION AND
(47) 28.12.2022	(87) EP2018068920	DISPENSING SYSTEM AND METHOD
(87) EP2014062391	16.01.2020	OF OPERATING SUCH SYSTEM
18.12.2014	(22) 12.07.2018	(73) Merck Patent GmbH
(22) 13.06.2014	(54) PROCESS FOR PURIFYING WASTE	(72) MOREAU, Laurent
(54) PROCESS FOR THE PREPARATION	WATER BY FLOTATION	KANO, Ichiro
OF BUTADIENE	(73) Damann, Volker	MEYER, Didier
(73) BASF SE	(72) DAMANN, Roland	ROITEL, Pascal
(72) SPANNHOFF, Kirsten	(51) C02F 1/28	(31) 17290163
PARVULESCU, Andrei-Nicolae	C08L 5/16	(32) 14.12.2017
LANGE DE OLIVEIRA, Armin	C01B 13/00	(33) European Patent Office (EPO)
MARX, Stefan	C08B 37/16	(51) C02F 1/467
FEYEN, Mathias	A61L 2/20	C25B 1/24
MÜLLER, Ulrich	C02F 1/78	C25B 9/00
SCHWAB, Ekkehard	(11) EP3894446	C25B 15/02
(31) 13171800	(21) EP20706565.7	E04H 4/12
(32) 13.06.2013	(47) 28.12.2022	C02F 103/42
(33) European Patent Office (EPO)	(87) FR2020050038	(11) EP2737110
(51) C01G 9/02	23.07.2020	(21) EP12820373.4
C01G 49/06	(22) 14.01.2020	(47) 28.12.2022
C09C 1/24	(54) METHOD FOR PREPARING A SOLID	(87) US2012048874
C09C 3/06	MATERIAL FOR STORING OZONE,	07.02.2013
C09D 7/62	THE MATERIAL AND THE USES	(22) 30.07.2012
C09K 3/18	THEREOF	(54) REPLACEABLE CELL CARTRIDGES
C01B 13/36	(73) Institute National Polytechnique de	FOR CHLORINATORS
C03C 17/36	Toulouse	(73) Hayward Industries, Inc.
C08K 3/08	Ecole d'Ingenieurs de Purpan	(72) CHEN, Patrick
C09C 1/04	UNIVERSITE PAUL SABATIER	SAWYER, Douglas
C09D 7/40	TOULOUSE III	CARTER, James
B01J 13/02	CENTRE NATIONAL DE LA	(31) 201161513372 P
C01B 33/18	RECHERCHE SCIENTIFIQUE (CNRS)	(32) 29.07.2011
C03C 17/00	Institut national de recherche	(33) United States of America
C08K 9/06	pour l'agriculture, l'alimentation et	(51) C02F 11/12
C08K 3/22	l'environnement	C02F 11/18
C01F 17/235	(72) TORRE, Jean-Philippe	C02F 11/04
(11) EP3466885	PAGES-HOMS, Marielle	F26B 3/24
(21) EP17806855.7	VIOLLEAU, Frédéric	F26B 17/20
(47) 28.12.2022	MANERO, Marie-Hélène	B01D 1/22
(87) JP2017020726	RICHARD, Romain	C02F 11/13
07.12.2017	(31) 1900325	C02F 11/127
(22) 02.06.2017	(32) 14.01.2019	(11) EP3538496
(54) OXIDE PARTICLES WITH	(33) France	(21) EP17805114.0
CONTROLLED COLOR	(51) C02F 1/32	(47) 28.12.2022
CHARACTERISTICS, AND COATING	(11) EP3966169	(87) EP2017078579
COMPOSITION OR FILM-LIKE	(21) EP20731790.0	17.05.2018
	(47) 28.12.2022	(22) 08.11.2017

(54) A PROCESS FOR TREATING ORGANIC WASTE OR BIOMASS	TRAN, Binh	CERAMIC COMPOSITE MATERIAL, AND WAVELENGTH CONVERTER
(73) Vomm Impianti e Processi S.P.A.	(31) 14368008	(73) APPOTRONICS CORPORATION LIMITED
(72) VEZZANI, Massimo	(32) 10.01.2014	(72) LI, Qian
(31) 201600112534	(33) European Patent Office (EPO)	XU, Yanzheng
(32) 08.11.2016	(51) C04B 28/04	(31) 201611135583
(33) Italy	B32B 5/02	(32) 09.12.2016
(51) C03B 23/025	B32B 7/12	(33) China
C03B 32/02	B32B 13/02	(51) C07C 1/04
C03B 23/023	B32B 13/14	C07C 11/04
C03C 10/12	E21D 11/00	C07C 11/06
(11) EP3805167	E21D 11/08	C07C 11/08
(21) EP20200182.2	C04B 111/00	B01J 29/08
(47) 28.12.2022	(11) EP3650426	B01J 23/08
(22) 06.10.2020	(21) EP19206877.3	B01J 37/04
(54) GLASS CERAMIC COMPONENT AND METHOD FOR PRODUCING A GLASS CERAMIC COMPONENT	(47) 28.12.2022	B01J 29/85
(73) SCHOTT AG	(22) 04.11.2019	(11) EP3902780
(72) MÜHLKE, Oliver	(54) PANEL FOR THE ILLUMINATIVE CLADDING OF TUNNELS OR FOR THE EXTERNAL OR INTERNAL CLADDING OF BUILDINGS AND PROCESS FOR THE PRODUCTION THEREOF	(21) EP19839298.7
GÖTZ, Helga	(73) Societa'Italiana Lastre S.p.A.	(47) 28.12.2022
VOLLMER, Markus	(72) TEPPA, Franco	(87) US2019066526
WÖLFINGER, Matthias	FRANCESCETTI, Roberto	02.07.2020
SADOWSKY, Thomas	(31) 201800010076	(22) 16.12.2019
HASELHORST, Georg	(32) 06.11.2018	(54) CATALYSTS COMPRISING A ZIRCONIA AND GALLIUM OXIDE COMPONENT FOR PRODUCTION OF C2 TO C4 OLEFINS
(31) 102019126928	(33) Italy	(73) Dow Global Technologies LLC
(32) 08.10.2019	(51) C04B 28/08	(72) CHOJECKI, Adam
(33) Germany	C04B 111/56	KIRILIN, Alexey
(51) C03C 3/068	F16L 9/02	MALEK, Andrzej
(11) EP3915952	C04B 28/04	DEWILDE, Joseph F.
(21) EP19917528.2	F16L 9/08	SANTOS CASTRO, Vera P.
(47) 28.12.2022	(11) EP3791099	YANCEY, David F.
(87) JP2019033347	(21) EP19722608.7	ANDREWS, Kyle C.
04.03.2021	(47) 28.12.2022	(31) 201862785828 P
(22) 26.08.2019	(87) EP2019061634	(32) 28.12.2018
(54) OPTICAL GLASS	14.11.2019	(33) United States of America
(73) AGC Inc.	(22) 07.05.2019	(51) C07C 7/04
(72) SHIBATA, Akira	(54) DRINKING WATER PIPE OR RESERVOIR ELEMENT WITH CEMENTITIOUS INNER LINING	C07C 11/02
AMMA, Shinichi	(73) Saint-Gobain Pam Canalisation	C07C 11/107
(51) C03C 17/34	(72) GUERANDEL, Cyril	(11) EP3397607
(11) EP3697737	FRANCOIS-BRAZIER, Joël	(21) EP16829439.5
(21) EP18785733.9	(31) 1853916	(47) 28.12.2022
(47) 28.12.2022	(32) 07.05.2018	(87) IB2016058062
(87) GB2018052859	(33) France	06.07.2017
25.04.2019	(51) C04B 35/10	(22) 28.12.2016
(22) 05.10.2018	H01L 33/50	(54) METHOD OF SEPARATING HEXENE
(54) METHOD OF MAKING A REFLECTIVE COATED GLASS ARTICLE	C04B 35/115	(73) SABIC Global Technologies B.V.
(73) Pilkington Group Limited	C04B 35/117	(72) AL-DUGHATHER, Abdullah Saad
(72) VARANASI, Srikanth	C04B 35/626	AZAM, Shahid
MCSPORRAN, Neil	C04B 35/628	AL-DOSSARI, Adel Saeed
MAHONEY, Matthew Barrington	C04B 35/645	AL-HAMDAN, Abdulmajeed Mohammed
(31) 201762574437 P	C04B 35/01	(31) 201562273021 P
(32) 19.10.2017	C04B 35/16	(32) 30.12.2015
(33) United States of America	C04B 35/22	(33) United States of America
(51) C04B 11/00	C04B 35/44	(51) C07C 67/08
(11) EP3092205	C09K 11/02	C07C 67/465
(21) EP15702387.0	C09K 11/77	C07C 69/68
(47) 28.12.2022	(11) EP3553041	C07D 319/12
(87) EP2015050267	(21) EP17879386.5	C08G 63/08
16.07.2015	(47) 28.12.2022	C08J 11/10
(22) 08.01.2015	(87) CN2017109317	(11) EP3793973
(54) METHOD OF CURING A GYPSUM CALCINATION PRODUCT	14.06.2018	(21) EP18727231.5
(73) SAINT-GOBAIN PLACO	(22) 03.11.2017	(47) 28.12.2022
(72) BIGUENET, Cédric	(54) PREPARATION METHOD FOR CERAMIC COMPOSITE MATERIAL,	(87) EP2018063130
DAYAN, Simon		21.11.2019
MONTIGNY, Benoit		(22) 18.05.2018

- (54) PROCESS FOR PRODUCING AN INTRAMOLECULAR DIESTER OF A HYDROXYCARBOXYLIC ACID AND PROCESS FOR PRODUCING A POLYHYDROXYCARBOXYLIC ACID.
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
(72) JESSE, Kathrin
LIESKE, Antje
HIRSEKORN, Max
-
- (51) C07C 67/37
C07C 69/602
C07C 67/08
C07C 69/734
B01J 31/24
B01J 23/42
C07C 29/149
C07C 67/303
C07C 67/36
(11) EP3596038
(21) EP18771331.8
(47) 28.12.2022
(87) US2018023162
27.09.2018
(22) 19.03.2018
(54) METAL-CATALYZED ALKOXYCARBONYLATION OF A LACTONE
(73) Qatar Foundation for Education, Science and Community Development
(72) DASTGIR, Sarim
SHARIF, Muhammad
JACKSTELL, Ralf
BELLER, Matthias
FERRETTI, Francesco
(31) 201762473371 P
(32) 18.03.2017
(33) United States of America
-
- (51) C07C 215/68
C07C 217/50
C08G 18/32
C08G 18/50
C08G 59/50
C08G 65/26
(11) EP3929176
(21) EP20182396.0
(47) 28.12.2022
(22) 25.06.2020
(54) LIQUID MIXTURES OF PROPOXYLATED PARA-TOLUIDINES
(73) Saltigo GmbH
(72) HÖFNER, THOMAS
-
- (51) C07C 227/20
C07C 209/62
C07C 51/46
C07C 55/21
C07C 51/06
C07C 229/08
C07C 211/07
(11) EP3652149
(21) EP18831964.4
(47) 28.12.2022
(87) US2018038990
17.01.2019
(22) 22.06.2018
(54) PROCESS FOR PRODUCING LONG CHAIN ACIDS AND DIBASIC ACIDS
(73) Vitaworks IP, LLC
- (72) HU, Songzhou
(31) 201715647966
(32) 12.07.2017
(33) United States of America
-
- (51) C07C 311/00
C07D 239/26
C07C 317/14
C07C 317/26
C07D 209/04
(11) EP3390355
(21) EP17707787.2
(47) 28.12.2022
(87) EP2017053937
28.09.2017
(22) 21.02.2017
(54) BENZENESULFONYL-ASYMMETRIC UREAS AND MEDICAL USES THEREOF
(73) Helsinn Healthcare S.A.
(72) GIULIANO, Claudio
DAINA, Antoine
PIETRA, Claudio
(31) 201662311573 P
(32) 22.03.2016
(33) United States of America
-
- (51) C07D 207/14
C07D 401/14
C07D 403/06
A61K 31/40
A61K 31/4025
A61K 31/506
A61P 25/28
A61P 43/00
(11) EP3663281
(21) EP18842111.9
(47) 28.12.2022
(87) JP2018029045
07.02.2019
(22) 02.08.2018
(54) HETEROCYCLIC COMPOUND AND APPLICATION THEREOF
(73) Takeda Pharmaceutical Company Limited
(72) FUJIMOTO, Tatsuhiko
RIKIMARU, Kentaro
FUKUDA, Koichiro
SUGIMOTO, Hiromichi
MATSUMOTO, Takahiro
KAJITA, Yuichi
MIKAMI, Satoshi
MIYANOHANA, Yuhei
KOIKE, Tatsuki
DAINI, Masaki
OGINO, Masaki
TAKEUCHI, Kohei
MIYAZAKI, Tohru
ITO, Yoshiteru
TOKUNAGA, Norihito
SUGIMOTO, Takahiro
ODA, Tsuneo
HOASHI, Yasutaka
HATTORI, Yasushi
IMAMURA, Keisuke
(31) 2017150683
(32) 03.08.2017
(33) Japan
-
- (51) C07D 213/72
C07D 309/10
- C07C 1/00
C07D 401/12
C07D 405/12
C07D 413/12
C07D 417/12
A61P 11/00
(11) EP3743406
(21) EP19702958.0
(47) 28.12.2022
(87) GB2019050209
01.08.2019
(22) 25.01.2019
(54) TMEM16A MODULATORS
(73) TMEM16A LIMITED
(72) COLLINGWOOD, Stephen
MCCARTHY, Clive
HARGRAVE, Jonathan, David
HAY, Duncan, Alexander
SCHOFIELD, Thomas, Beauregard
ELLAM, Sarah
BUXTON, Craig
HABGOOD, Matthew
INGRAM, Peter
MA, Chun Yan
NAPIER, Spencer
SHAIKH, Abdul
SMITH, Matthew
STIMSON, Christopher
WALKER, Edward
(31) 201801355
(32) 26.01.2018
(33) United Kingdom
-
- (51) C07D 213/803
C07F 5/02
C07D 213/79
B01J 31/00
B01J 31/04
C07D 213/90
C07D 239/02
C07D 239/28
C07D 239/32
C07D 401/04
(11) EP3458442
(21) EP17800225.9
(47) 28.12.2022
(87) US2017033489
23.11.2017
(22) 19.05.2017
(54) SYNTHESIS OF 6-ARYL-4-AMINOPICOLINATES AND 2-ARYL-6-AMINOPYRIMIDINE-4-CARBOXYLATES BY DIRECT SUZUKI COUPLING
(73) Corteva Agriscience LLC
(72) FISK, Jason S.
LI, Xiaoyong
MUEHLFELD, Mark
BAUMAN, Robert S.
OPPENHEIMER, Jossian
TU, Siyu
NITZ, Mark A.
CHAKRABARTI, Reetam
FEIST, Shawn D.
RINGER, James W.
LENG, Ronald B.
(31) 201662416811 P
201662338562 P
(32) 03.11.2016
19.05.2016

(33) United States of America United States of America	(32) 10.05.2017 17.11.2016	(22) 26.06.2017
(51) C07D 215/46	(33) China	(54) 2,4-DIAMINO-PYRIMIDINE COMPOUNDS AND THEIR USE AS IRAK4 INHIBITORS
C07D 215/42	China	(73) Rigel Pharmaceuticals, Inc.
A61P 39/06	(51) C07D 233/36	(72) CHEN, Yan
A61P 35/00	C07C 209/62	YEN, Rose
A61P 31/18	C07C 211/02	YU, Jiaxin
C07D 213/74	(11) EP3665159	YU, Jiaxin
A61P 17/00	(21) EP18749378.8	TAYLOR, Vanessa
A61P 3/10	(47) 28.12.2022	SINGH, Rajinder
C07D 401/12	(87) EP2018071316	(31) 201662355189 P
C07D 403/12	14.02.2019	(32) 27.06.2016
C07D 241/44	(22) 07.08.2018	(33) United States of America
C07D 215/38	(54) PROCESS TO CONVERT THE CYCLIC MONOUREA OF AN ETHYLENE AMINE COMPOUND INTO THE ETHYLENE AMINE COMPOUND	(51) C07D 319/12
(11) EP2440546	(73) Nouryon Chemicals International B.V.	C07B 61/00
(21) EP10728369.9	(72) RAAIJMAKERS, Michiel Jozef Thomas	(11) EP3770153
(47) 28.12.2022	TEN KATE, Antoon Jacob Berend	(21) EP19770880.3
(87) IB2010052652	KANTZER, Eike Nicolas	(47) 28.12.2022
16.12.2010	VENEMAN, Rens	(87) JP2019005348
(22) 14.06.2010	JOVIC, Slavisa	26.09.2019
(54) COMPOUNDS USEFUL FOR TREATING PREMATURE AGING AND IN PARTICULAR PROGERIA	EDVINSSON, Rolf Krister	(22) 14.02.2019
(73) ABIVAX	LAKE, Karl Fredrik	(54) METHOD FOR PRODUCING GLYCOLIDE
Centre National de la Recherche Scientifique (CNRS)	VAN DAM, Hendrik	(73) Kureha Corporation
Institut Curie	EHLERS, Ina	(72) TOSE, Takenori
UNIVERSITE DE MONTPELLIER	TÖNNERFORS, Sara Erika	SUZUKI, Yoshinori
(72) TAZI, Jamal	(31) 17185940	YAMADOI, Yuta
MAHUTEAU, Florence	(32) 11.08.2017	(31) 2018052285
NAJMAN, Romain	(33) European Patent Office (EPO)	(32) 20.03.2018
SCHERRER, Didier	(51) C07D 237/02	(33) Japan
SANTO, Julien	C07D 253/06	(51) C07D 401/04
(31) 186544 P	A61K 31/501	A61K 31/4439
186552 P	(11) EP3430000	A61P 5/28
09305540	(21) EP17767179.9	A61P 17/14
09162630	(47) 28.12.2022	A61P 17/10
(32) 12.06.2009	(87) US2017021477	A61P 35/00
12.06.2009	21.09.2017	A61P 13/08
12.06.2009	(22) 09.03.2017	(11) EP3020714
12.06.2009	(54) PYRIMIDINES AND VARIANTS THEREOF, AND USES THEREFOR	(21) EP14805136.0
(33) United States of America	(73) Afferent Pharmaceuticals Inc.	(47) 28.12.2022
United States of America	(72) HAWLEY, Ronald Charles	(87) CN2014078528
European Patent Office (EPO)	IBRAHIM, Prabha	04.12.2014
European Patent Office (EPO)	FORD, Anthony, P.	(22) 27.05.2014
(51) C07D 231/56	GEVER, Joel, R.	(54) IMIDAZOLE DIKETONE COMPOUND AND USE THEREOF
A61K 31/416	(31) 201662363630 P	(73) Hinova Pharmaceuticals Inc.
A61P 35/00	201662308157 P	(72) CHEN, Yuanwei
C07K 5/06	(32) 18.07.2016	GONG, Yu
C07K 7/02	14.03.2016	(31) 201310205281
A61P 1/16	(33) United States of America	(32) 29.05.2013
(11) EP3543228	United States of America	(33) China
(21) EP17871197.4	(51) C07D 239/48	(51) C07D 401/12
(47) 28.12.2022	A61K 31/505	C07D 487/04
(87) CN2017111653	A61K 31/506	C07D 495/04
24.05.2018	A61P 3/00	C07D 251/18
(22) 17.11.2017	A61P 9/00	C07D 401/14
(54) COMPOUND HAVING ANTICANCER ACTIVITY, AND PREPARATION METHOD AND APPLICATION THEREOF	A61P 11/06	C07D 239/48
(73) 3D Medicines (Beijing) Co., Ltd.	A61P 13/00	A61K 31/675
(72) GONG, John	A61P 25/00	A61P 35/00
LIN, Yihui	A61P 31/00	(11) EP3466943
LI, Fengqing	A61P 37/06	(21) EP17833292.0
TANG, Fangqiang	(11) EP3475263	(47) 28.12.2022
(31) 201710327784	(21) EP17735747.2	(87) CN2017083058
201611027194	(47) 28.12.2022	01.02.2018
	(87) US2017039273	(22) 04.05.2017
	04.01.2018	(54) DIPHENYLAMINOPYRIMIDINE AND TRIAZINE COMPOUND, AND

PHARMACEUTICAL COMPOSITION AND USE THEREOF	H01L 51/00	A61K 31/5365
(73) Arramax Pharmatech Co., Ltd.	H01L 51/50	C07D 471/02
(72) HONG, Jian	(11) EP3757100	C07D 471/12
LIU, Guobin	(21) EP19182224.6	C07D 471/16
WANG, Jingbing	(47) 28.12.2022	A61P 31/18
LE, Xiaoyong	(22) 25.06.2019	(11) EP3752144
(31) 201610585487	(54) TRIAZINE COMPOUNDS	(21) EP19754182.4
(32) 25.07.2016	SUBSTITUTED WITH BULKY GROUPS	(47) 28.12.2022
(33) China	(73) Novaled GmbH	(87) US2019017409
(51) C07D 401/14	(72) GALAN GARCIA, Elena	22.08.2019
C07D 403/14	SCHULZE, Benjamin	(22) 11.02.2019
A61K 31/4192	FREY, Julien	(54) TRICYCLIC HETEROCYCLE
A61P 35/00	(51) C07D 405/12	COMPOUNDS USEFUL AS HIV
(11) EP3728223	C08G 65/331	INTEGRASE INHIBITORS
(21) EP18830681.5	A61P 35/00	(73) Merck Sharp & Dohme LLC
(47) 28.12.2022	A61K 38/07	(72) EMBREY, Mark, W.
(87) US2018066121	A61K 47/10	HARTINGH, Timothy John
27.06.2019	C07K 5/10	LABROLI, Marc
(22) 18.12.2018	C07K 5/117	RAHEEM, Izzat, T.
(54) CYCLOHEXYL ACID TRIAZOLE	(11) EP3464277	(31) 201862630974 P
AZINES AS LPA ANTAGONISTS	(21) EP17730293.2	(32) 15.02.2018
(73) Bristol-Myers Squibb Company	(47) 28.12.2022	(33) United States of America
(72) SHI, Yan	(87) US2017034029	(51) C07D 471/14
WANG, Ying	30.11.2017	A61P 31/20
CHENG, Peter Tai Wah	(22) 23.05.2017	A61K 31/4375
SHI, Jun	(54) PEGYLATED CARFILZOMIB	(11) EP3692040
TAO, Shiwei	COMPOUNDS	(21) EP18795809.5
CORTE, James R.	(73) Amgen Inc.	(47) 28.12.2022
FANG, Tianan	(72) LUEHR, Gary	(87) IB2018057767
LI, Jun	ANIK, Shabbir T.	11.04.2019
KENNEDY, Lawrence J.	PENG, Ge	(22) 05.10.2018
KALTENBACH, III, Robert F.	DOTSENKO, Irina	(54) CHEMICAL COMPOUNDS
JUSUF, Sutjano	PHIASIVONGSA, Pasit	(73) GlaxoSmithKline Intellectual Property
(31) 201862771214 P	ROMANINI, Dante	Development Limited
201762607383 P	(31) 201762485812 P	(72) CATALANO, John G.
(32) 26.11.2018	201662340926 P	CHONG, Pek Yoke
19.12.2017	(32) 14.04.2017	DICKSON, Hamilton D.
(33) United States of America	24.05.2016	LEIVERS, Martin R.
United States of America	(33) United States of America	WEATHERHEAD, Jason Gordon
(51) C07D 403/04	United States of America	(31) 201862683859 P
A61P 3/00	(51) C07D 471/04	201862681146 P
A61P 9/00	A61P 35/00	201762570509 P
A61P 29/00	A61P 37/00	201762568633 P
A61P 31/00	A61P 17/00	(32) 12.06.2018
A61P 31/12	A61K 31/4184	06.06.2018
A61P 35/00	(11) EP3697785	10.10.2017
A61P 35/02	(21) EP18796135.4	05.10.2017
A61P 37/06	(47) 28.12.2022	(33) United States of America
A61K 31/506	(87) IN2018050671	United States of America
A61K 31/5377	25.04.2019	United States of America
(11) EP3653622	(22) 16.10.2018	United States of America
(21) EP18849590.7	(54) IMIDAZO-PYRIDINE COMPOUNDS AS	(51) C07D 473/16
(47) 28.12.2022	PAD INHIBITORS	A61P 35/00
(87) CN2018101471	(73) Jubilant Epipad LLC	A61K 31/52
07.03.2019	(72) HALLUR, Gurulingappa	(11) EP3573988
(22) 21.08.2018	DURAISWAMY, Athisayamani Jeyaraj	(21) EP18702530.9
(54) AMINOPYRIMIDINE COMPOUND AND	PURRA, Buchi Reddy	(47) 28.12.2022
COMPOSITION COMPRISING SAME	RAO, N.V.S.K.	(87) GB2018050208
AND USE THEREOF	RAJAGOPAL, Sridharan	02.08.2018
(73) Shenzhen TargetRx, Inc.	KRISTAM, Rajendra	(22) 25.01.2018
(72) WANG, Yihan	(31) 201741037110	(54) PROCESS FOR PREPARING PURINE
LI, Huanyin	(32) 18.10.2017	DERIVATIVES
(31) 201710765745	(33) India	(73) Cyclacel Limited
(32) 30.08.2017	(51) C07D 471/08	(72) SKEAD, Ben
(33) China	C07D 471/18	WESTWOOD, Robert
(51) C07D 405/04	C07D 498/18	LONDESBOUGH, Derek
C07D 405/14	A61K 31/395	NORTHEN, Julian
	A61K 31/53	ATHERTON, Chris

- (31) 201701398
201701397
201701319
201701318
- (32) 27.01.2017
27.01.2017
26.01.2017
26.01.2017
- (33) United Kingdom
United Kingdom
United Kingdom
United Kingdom
-
- (51) C07D 487/16
H01L 51/00
C07D 471/22
C07D 491/22
C07D 513/22
H01L 51/50
- (11) EP3575302
(21) EP19177594.9
(47) 28.12.2022
(22) 31.05.2019
- (54) ORGANIC ELECTROLUMINESCENCE DEVICE AND CONDENSED CYCLIC COMPOUND FOR ORGANIC ELECTROLUMINESCENCE DEVICE
- (73) Samsung Display Co., Ltd.
(72) UNO, Takuya
(31) 20180063453
(32) 01.06.2018
(33) Korea (Republic)
-
- (51) C07D 489/08
(11) EP2314589
(21) EP10011793.6
(47) 28.12.2022
(22) 30.03.2005
- (54) Process for preparing oxycodone hydrochloride compositions having less than 25ppm 14-hydroxycodineone
- (73) EURO-CELTIQUE S.A.
(72) Chapman, Robert
Rider, Lonn S.
Hong, Qi
Kyle, Donald
Kupper, Robert
- (31) 651778 P
648625 P
620072 P
601534 P
557492 P
- (32) 10.02.2005
31.01.2005
18.10.2004
13.08.2004
30.03.2004
- (33) United States of America
United States of America
United States of America
United States of America
United States of America
-
- (51) C07D 493/22
(11) EP3649135
(21) EP18746401.1
(47) 28.12.2022
(87) US2018041005
10.01.2019
(22) 06.07.2018
- (54) SYNTHESIS OF HALICHONDRINS
- (73) President and Fellows of Harvard College
Eisai R&D Management Co., Ltd.
- (72) FUKUYAMA, Takashi
KISHI, Yoshito
Al, Yanran
YE, Ning
WANG, Qiaoyi
YAHATA, Kenzo
ISO, Kentaro
NAINI, Santhosh Reddy
YAMASHITA, Shuji
LEE, Jihoon
OHASHI, Isao
- (31) 201762529310 P
201762529333 P
- (32) 06.07.2017
06.07.2017
- (33) United States of America
United States of America
-
- (51) C07D 495/04
A61P 35/00
A61P 5/00
A61K 31/4422
- (11) EP3707143
(21) EP18795687.5
(47) 28.12.2022
(87) EP2018080367
09.05.2019
- (22) 06.11.2018
- (54) NEW ANALOGS AS ANDROGEN RECEPTOR AND GLUCOCORTICOID RECEPTOR MODULATORS
- (73) Oncostellae, S.L.
(72) KURZ, Guido
CAMACHO GÓMEZ, Juan
- (31) 17382741
(32) 06.11.2017
- (33) European Patent Office (EPO)
-
- (51) C07F 5/02
C09K 11/06
H01L 51/00
H05B 33/14
- (11) EP3902811
(21) EP19823878.4
(47) 28.12.2022
(87) EP2019082382
02.07.2020
- (22) 25.11.2019
- (54) ORGANIC MOLECULES FOR OPTOELECTRONIC DEVICES
- (73) Samsung Display Co., Ltd.
(72) DÜCK, Sebastian
- (31) 18001021
(32) 28.12.2018
- (33) European Patent Office (EPO)
-
- (51) C07H 17/08
C07H 1/00
B01J 31/18
B01J 31/22
B01J 31/24
- (11) EP3423462
(21) EP17760582.1
(47) 28.12.2022
(87) US2017019873
08.09.2017
(22) 28.02.2017
- (54) SELECTIVE CATALYSTS FOR SPINETORAM PRODUCTION
- (73) Corteva Agriscience LLC
(72) FOSKEY, Takiya J.
(31) 201662303407 P
(32) 04.03.2016
(33) United States of America
-
- (51) C07K 14/075
C12Q 1/70
C12N 15/62
C12N 15/63
C12N 15/861
- (11) EP3445773
(21) EP17797002.7
(47) 28.12.2022
(87) US2017032542
16.11.2017
- (22) 12.05.2017
- (54) ADENO-ASSOCIATED VIRUS VARIANT CAPSIDS AND METHODS OF USE THEREOF
- (73) 4D Molecular Therapeutics Inc.
(72) KIRN, David, H.
KOTTERMAN, Melissa
SCHAFFER, David
- (31) 201762454612 P
201662384590 P
201662378106 P
201662336441 P
- (32) 03.02.2017
07.09.2016
22.08.2016
13.05.2016
- (33) United States of America
United States of America
United States of America
United States of America
-
- (51) C07K 14/475
C07K 14/435
A61K 38/00
A61K 38/18
A61P 17/02
A61P 43/00
- (11) EP3507300
(21) EP17844710.8
(47) 28.12.2022
(87) AU2017050959
08.03.2018
- (22) 04.09.2017
- (54) WOUND HEALING PEPTIDE
- (73) James Cook University
(72) LOUKAS, Alex
SMOUT, Michael
DALY, Norelle
- (31) 2016905327
2016903523
- (32) 22.12.2016
02.09.2016
- (33) Australia
Australia
-
- (51) C07K 14/495
(11) EP3774860
(21) EP19725879.1
(47) 28.12.2022
(87) US2019024756
10.10.2019
(22) 29.03.2019

(54) GROWTH DIFFERENTIATION FACTOR 15 AGONIST COMPOUNDS AND METHODS OF USING THE SAME	(73) CSL Limited (72) VUCICA, Yvonne WARREN, Gary Lee	(11) EP3303415 (21) EP16730907.9 (47) 28.12.2022
(73) Eli Lilly and Company	(31) 201361831304 P	(87) IB2016053200
(72) GONCIARZ, Malgorzata Donata OBUNGU, Victor H. PICKARD, Richard Todd	(32) 05.06.2013 (33) United States of America	(08.12.2016 (22) 31.05.2016
(31) 201862653759 P	(51) C07K 16/00	(54) VISIBLE-LIGHT PHOTOINITIATORS AND USES THEREOF
(32) 06.04.2018	C07K 16/22	(73) Alcon Inc.
(33) United States of America	C07K 16/32	(72) HOLLAND, Troy Vernon CHANG, Frank DESOUSA, Ryan
(51) C07K 14/56	G01N 33/50	(31) 201562169722 P
C07K 16/28	C12N 5/0781	(32) 02.06.2015
A61K 38/21	(11) EP3218396	(33) United States of America
A61P 35/00	(21) EP15802270.7	(51) C08F 8/14
A61P 35/02	(47) 28.12.2022	C08J 3/24
(11) EP3677591	(87) US2015060523	C08F 220/06
(21) EP19213030.0	19.05.2016	C08K 5/01
(47) 28.12.2022	(22) 13.11.2015	A61L 15/24
(22) 29.04.2013	(54) METHOD FOR GENERATING HIGH AFFINITY ANTIBODIES	A61L 15/26
(54) ANTI-CD38 ANTIBODIES AND FUSIONS TO ATTENUATED INTERFERON ALPHA-2B	(73) Regeneron Pharmaceuticals, Inc. (72) CHEN, Gang BABB, Robert FANDL, James P.	A61L 15/40 A61L 15/46 A61L 15/60 C08K 5/00 C08K 11/00
(73) Teva Pharmaceuticals Australia Pty Ltd	(31) 201462079899 P	(11) EP3954717
(72) CLARKE, Adam POLLARD, Matthew DOYLE, Anthony, Gerard BEHRENS, Collette YAMAGISHI, Tetsuo WILSON, David, S. Jr. POGUE, Sarah, L. TAURA, Tetsuya	(32) 14.11.2014 (33) United States of America	(21) EP21190698.7 (47) 28.12.2022 (22) 10.08.2021
(51) C07K 14/71	(51) C08B 11/20	(54) SUPERABSORBENT POLYMER AND METHOD FOR PRODUCING THE SAME
A61K 39/00	C08B 13/00	(73) Formosa Plastics Corporation
(11) EP3380513	C08L 1/32	(72) CHEN, Zhong-Yi LEE, Cheng-Lin CHEN, Feng-Yi CHUANG, Yu-Yen
(21) EP16805186.0	(11) EP3599252	(31) 109127132
(47) 28.12.2022	(21) EP19188172.1	(32) 10.08.2020
(87) GB2016053648	(47) 28.12.2022	(33) Taiwan, Province of China
01.06.2017	(22) 24.07.2019	(51) C08F 8/44
(22) 23.11.2016	(54) METHOD FOR PRODUCING HYPROMELLOSE ACETATE SUCCINATE	C08F 4/80
(54) PEPTIDES FROM NPSR1	(73) Shin-Etsu Chemical Co., Ltd. (72) KITAGUCHI, Taishi TSUCHIDA, Akiko KITAMURA, Akira NARITA, Mitsuo	C08F 210/02 C08F 220/06 C08F 220/18 C08F 222/04
(73) Immunocore Limited Adaptimmune Limited	(31) 2018139354	(11) EP3936535
(72) POWLESLAND, Alex DE SOUZA, Victoria Arena CHILLAKURI, Chandramouli SANGANI, Dhaval HOOD, Graham OESTRINGER, Benjamin	(32) 25.07.2018 (33) Japan	(21) EP20767354.2 (47) 28.12.2022
(31) 201520562	(51) C08B 30/12	(87) JP2020008098
(32) 23.11.2015	C08B 30/16	10.09.2020
(33) United Kingdom	C08B 31/00	(22) 27.02.2020
(51) C07K 14/775	C08B 30/18	(54) MULTI-COMPONENT IONOMER
C07K 1/14	B01J 8/10	(73) Japan Polyethylene Corporation Japan Polypropylene Corporation
C07K 1/30	B01J 8/24	(72) UEMATSU, Masahiro TAKAMITSU, Kohei SATOU, Tomohiko YAMADA, Yoshika
C07K 1/34	B01J 19/18	(31) 2019038768
C07K 1/36	B01J 19/00	(32) 04.03.2019
A61K 38/17	(11) EP2787009	(33) Japan
A61K 31/685	(21) EP14163253.9	(51) C08F 36/22
A61K 31/688	(47) 28.12.2022	C08F 2/38
A61P 3/06	(22) 12.11.2004	C08F 8/04
(11) EP3004160	(54) Method for modifying starch or starch derivatives	C07C 11/00
(21) EP14808213.4	(73) Cerestar Holding B.V. (72) Berckmans, Marc Charles Florent Sivasligil, Dogan Sahin	C08C 19/02
(47) 28.12.2022	(31) 03257164	
(87) AU2014000584	(32) 13.11.2003	
11.12.2014	(33) European Patent Office (EPO)	
(22) 05.06.2014	(51) C08F 2/48	
(54) PROCESS FOR PREPARING APOLIPOPROTEIN A-I (APO A-I)	C08F 2/50	
	C08F 220/54	
	G02B 1/04	

- (11) EP3564274
(21) EP17889155.2
(47) 28.12.2022
(87) JP2017047392
05.07.2018
(22) 28.12.2017
(54) 1, 3, 7-OCTATRIENE POLYMER,
HYDRIDE THEREOF, AND METHOD
FOR PRODUCING SAID POLYMER
(73) Kuraray Co., Ltd.
(72) SUNAGA, Shuichi
TSUJI, Tomoaki
HORI, Takashi
INUBUSHI, Yasutaka
(31) 2016257105
(32) 28.12.2016
(33) Japan
-
- (51) C08F 120/06
C08K 5/1545
C08L 33/02
D21H 17/06
D21H 17/37
D21H 17/00
C09D 7/65
D21H 19/20
A61K 8/84
(11) EP3880720
(21) EP19884682.6
(47) 28.12.2022
(87) FR2019000185
22.05.2020
(22) 14.11.2019
(54) OSIDIC DISPERSING AGENT
(73) Coatex
(72) BONY, Francis
LE NEINDRE, Morgane
MAGNY, Benoît
MATTER, Yves
SUAU, Jean-Marc
(31) 1871564
(32) 16.11.2018
(33) France
-
- (51) C08F 210/02
C08F 2/01
C08F 2/34
(11) EP3720890
(21) EP18795633.9
(47) 28.12.2022
(87) EP2018079821
13.06.2019
(22) 31.10.2018
(54) USE OF ANTIMICROBIAL ETHYLENE
COPOLYMERS FOR PACKAGING
APPLICATIONS
(73) SABIC Global Technologies B.V.
(72) VACHON, Jerome
NEUTEBOOM, Peter
CASTANEDA ZUNIGA, Diego Mauricio
DUCHATEAU, Jan Nicolaas Eddy
(31) 17205679
(32) 06.12.2017
(33) European Patent Office (EPO)
-
- (51) C08F 220/02
C08F 212/14
G03F 7/004
G03F 7/039
C08F 220/28
(11) EP3556783
(21) EP17881786.2
(47) 28.12.2022
(87) JP2017044031
21.06.2018
(22) 07.12.2017
(54) RESIN, RESIST COMPOSITION AND
METHOD FOR PRODUCING RESIST
PATTERN
(73) Sumitomo Chemical Company, Limited
(72) MASUYAMA, Tatsuro
YAMAGUCHI, Satoshi
ICHIKAWA, Koji
(31) 2016242655
(32) 14.12.2016
(33) Japan
-
- (51) C08F 261/04
C08K 5/09
C08L 51/00
C08F 218/08
C08F 216/18
C08F 220/58
C08F 224/00
C08F 218/04
(11) EP3318580
(21) EP16817460.5
(47) 28.12.2022
(87) JP2016003070
05.01.2017
(22) 24.06.2016
(54) AQUEOUS EMULSION COMPOSITION
(73) Kuraray Co., Ltd.
(72) TANIDA, Tatsuya
MORIKAWA, Keisuke
(31) 2015132092
(32) 30.06.2015
(33) Japan
-
- (51) C08F 283/12
C08F 285/00
C09D 151/08
(11) EP3464401
(21) EP17729793.4
(47) 28.12.2022
(87) EP2017062491
07.12.2017
(22) 24.05.2017
(54) AQUEOUS POLYMER DISPERSION
AND PREPARATION METHOD
THEREOF
(73) BASF SE
(72) ZENG, Zhong
WIESE, Harm
DENG, Rui
(31) PCT/CN2016/084050
(32) 31.05.2016
(33) World Intellectual Property Office (WIPO)
-
- (51) C08F 293/00
C08G 65/00
C08J 3/24
C08F 212/14
C08L 53/00
H01M 6/18
C08F 299/02
(11) EP3887415
(21) EP19868175.1
(47) 28.12.2022
(87) FR2019052802
04.06.2020
(22) 25.11.2019
-
- (54) POLYMER ELECTROLYTE FOR A
LITHIUM METAL POLYMER BATTERY
HAVING IMPROVED PERFORMANCE
(73) Blue Solutions
Institut Polytechnique de Grenoble
Aix-Marseille Université
Centre national de la recherche
scientifique
(72) DESCHAMPS, Marc
LECUYER, Margaud
BOUCHET, Renaud
PAVLENKO, Ekaterina
LASSAGNE, Adrien
GIGMES, Didier
FERRAND, Adèle
TRANG, Phan
(31) 1871953
(32) 27.11.2018
(33) France
-
- (51) C08G 59/50
C08G 59/64
C09D 163/00
(11) EP3770200
(21) EP20186778.5
(47) 28.12.2022
(22) 20.07.2020
(54) EPOXY RESIN COMPOSITION FOR
CHEMICAL-RESISTANT COATING
APPLICATIONS
(73) Sherwin-Williams Coatings Deutschland
GmbH
(72) Viertel, Johannes
Neuer, Lydia
(31) 19188363
(32) 25.07.2019
(33) European Patent Office (EPO)
-
- (51) C08G 59/56
C08G 59/50
(11) EP3762443
(21) EP19708533.5
(47) 28.12.2022
(87) EP2019055237
12.09.2019
(22) 04.03.2019
(54) CYCLOALIPHATIC AMINES FOR
EPOXY FORMULATIONS: A NOVEL
CURING AGENT FOR EPOXY
SYSTEMS
(73) Evonik Operations GmbH
(72) PATEL, Pritesh G.
VEDAGE, Gaminini Ananda
LUCAS, Peter
DIBIASE, Joseph
(31) 201862638413 P
(32) 05.03.2018
(33) United States of America
-
- (51) C08G 59/68
C08G 65/10
C08G 65/12
C08G 65/20
C09J 163/00
C09J 171/00
C08J 3/28
C08K 5/41
C08K 5/56
C09D 163/00
C09D 171/00
C08G 59/40

- (11) EP3894458
(21) EP19816561.5
(47) 28.12.2022
(87) EP2019082833
18.06.2020
(22) 28.11.2019
(54) CATIONICALLY CURABLE MASS AND METHOD FOR JOINING, CASTING AND COATING SUBSTRATES USING THE MASS
(73) DELO Industrie Klebstoffe GmbH & Co. KGaA
(72) UHL, Gerald
ANSELMANT, Timo
SCHOLZ, Michael
ZINK, Sebastian
KREUL, Kilian
(31) 102018131513
(32) 10.12.2018
(33) Germany
-
- (51) C08G 64/14
C08G 64/22
(11) EP3628699
(21) EP19751867.3
(47) 28.12.2022
(87) KR2019001384
15.08.2019
(22) 31.01.2019
(54) COPOLYCARBONATE AND PREPARATION METHOD THEREFOR
(73) LG CHEM, LTD.
(72) JEON, Byoungkue
SON, Youngwook
HWANG, Daehyeon
HONG, Mooho
(31) 20180015214
(32) 07.02.2018
(33) Korea (Republic)
-
- (51) C08G 65/32
B24B 37/24
C08F 290/14
C08G 18/64
C08L 71/00
C09K 9/02
H01L 21/304
C08B 37/16
C08L 5/16
G02B 1/00
(11) EP3795608
(21) EP19804383.8
(47) 28.12.2022
(87) JP2019019585
21.11.2019
(22) 16.05.2019
(54) LOW MOISTURE CONTENT POLYROTAXANE MONOMER AND CURABLE COMPOSITION COMPRISING SAID MONOMER
(73) Tokuyama Corporation
(72) SHIMIZU, Yasutomo
KAWASAKI, Takayoshi
TOCHI, Mitsuki
(31) 2018095771
(32) 17.05.2018
(33) Japan
-
- (51) C08G 71/04
C08G 65/333
(11) EP3033376
- (21) EP14755556.9
(47) 28.12.2022
(87) US2014051176
19.02.2015
(22) 15.08.2014
(54) POLYCARBAMATE
(73) Dow Global Technologies LLC
(72) YU, Xinrui
HE, Yiyong
HULL, Jr., John W.
BEIGZADEH, Daryoosh
ROMER, Duane
CLARK, Thomas
MARGL, Peter
LU, Congcong
(31) 201361866072 P
(32) 15.08.2013
(33) United States of America
-
- (51) C08G 73/10
C08L 79/08
(11) EP4047036
(21) EP21190965.0
(47) 28.12.2022
(22) 12.08.2021
(54) POLYIMIDE PRECURSOR SOLUTION, METHOD FOR PRODUCING POROUS POLYIMIDE FILM, AND POROUS POLYIMIDE FILM
(73) Fujifilm Business Innovation Corp.
(72) NAKADA, Kosuke
SEITOKU, Shigeru
IWANAGA, Takeshi
OKUBO, Tomoyo
SUGAHARA, Hajime
HIROSE, Hidekazu
(31) 2021026032
(32) 22.02.2021
(33) Japan
-
- (51) C08G 75/20
C08L 81/06
C08J 5/22
(11) EP1856188
(21) EP06742514.0
(47) 28.12.2022
(87) EP2006002087
14.09.2006
(22) 07.03.2006
(54) SULFONATED POLY(ARYLENES) AS HYDROLYTICALLY AND THERMO-OXIDATIVELY STABLE POLYMERS
(73) Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V.
(72) SCHUSTER, Michael
KREUER, Klaus-Dieter
THALBITZER, Andersen, Henrik
MAIER, Joachim
(31) 102005010411
(32) 07.03.2005
(33) Germany
-
- (51) C08J 3/075
C08J 3/28
(11) EP3814403
(21) EP19740491.6
(47) 28.12.2022
(87) EP2019067137
02.01.2020
(22) 27.06.2019
- (54) GENERIC METHOD FOR STRUCTURING HYDROGELS
(73) Alveole
Centre national de la recherche scientifique
Université de Bordeaux
(72) STUDER, Vincent
PASTUREL, Aurélien
(31) 1855812
(32) 27.06.2018
(33) France
-
- (51) C08J 5/10
(11) EP3606984
(21) EP18718898.2
(47) 28.12.2022
(87) FR2018050856
11.10.2018
(22) 05.04.2018
(54) METHOD FOR IMPREGNATING REINFORCING FIBRES WITH POLYARYLETHETHERKETONES AND SEMI-PRODUCTS OBTAINED THEREFROM
(73) Arkema France
(72) BRULE, Benoît
CAYZAC, Henri-Alexandre
LE, Guillaume
PASCAL, Jerome
SGUERRA, Fabien
(31) 1752951
(32) 05.04.2017
(33) France
-
- (51) C08J 5/18
C08F 210/16
C08L 23/08
(11) EP3818098
(21) EP19733059.0
(47) 28.12.2022
(87) EP2019067327
31.10.2019
(22) 28.06.2019
(54) POLYMER FOR PRODUCTION OF BI-DIRECTIONALLY ORIENTED FILMS
(73) SABIC Global Technologies B.V.
(72) GERRITS, Niclasina Siberta Johanna
Alberdina
SCALA, Attilio
(31) 18181656
(32) 04.07.2018
(33) European Patent Office (EPO)
-
- (51) C08J 7/04
C08J 5/24
(11) EP3653663
(21) EP18831141.9
(47) 28.12.2022
(87) JP2018025037
17.01.2019
(22) 02.07.2018
(54) MOLDED ARTICLE AND ITS PRODUCTION METHOD
(73) Toray Industries, Inc.
(72) OKA, Hideki
SUZUKI, Atsuhisa
KANEKO, Takayuki
(31) 2017136807
(32) 13.07.2017
(33) Japan
-
- (51) C08J 7/043

C08J 7/044	(22) 07.02.2019	(54) MOLDED ARTICLE AND METHOD FOR MANUFACTURING SAME
C08J 7/046	(54) PARTICULATE NUCLEATING AGENT, RESIN COMPOSITION, MOLDED PRODUCT, AND PRODUCTION METHOD THEREOF	(73) Mitsui Chemicals, Inc.
G02B 5/26	(73) ADEKA CORPORATION	(72) NAKAYAMA, Yusuke
B32B 17/10	(72) HORIKOSHI, Takahiro	SASAKI, Toyoaki
B32B 27/36	YOKOTA, Yuri	YOSHIDA, Kenkichi
(11) EP2542405	(31) 2018025245	FUJIHARA, Kazutoshi
(21) EP11751153.5	(32) 15.02.2018	(31) 2017032476
(47) 28.12.2022	(33) Japan	(32) 23.02.2017
(87) US2011026514	(51) C08L 9/06	(33) Japan
09.09.2011	B60C 1/00	(51) C08L 33/02
(22) 28.02.2011	B60C 15/06	C08J 3/075
(54) LOW EMISSIVITY AND EMI SHIELDING WINDOW FILMS	C08K 3/04	C08J 3/12
(73) Eastman Performance Films LLC	C08K 3/36	C08J 3/24
(72) VAN NUTT, Charles, N.	C08L 15/00	C08J 3/20
ENNISS, James, P.	(11) EP3677633	C08K 3/36
LI, Jaime, A.	(21) EP18852084.5	C08K 3/22
PORT, Anthony, B.	(47) 28.12.2022	(11) EP3321306
PICKETT, Scott, E.	(87) JP2018031913	(21) EP16822879.9
STEGALL, Jeremy, B.	07.03.2019	(47) 28.12.2022
HUBBARD, Coby, L.	(22) 29.08.2018	(87) KR2016004096
PHILLIPS, Rita, M.	(54) RUBBER COMPOSITION FOR HIGH GRIP TIRE	19.01.2017
BARTH, Steven, A.	(73) Kuraray Co., Ltd.	(22) 20.04.2016
(31) 339152 P	(72) KANBARA Hiroshi	(54) METHOD FOR PREPARING SUPERABSORBENT RESIN AND SUPERABSORBENT RESIN PREPARED THEREBY
(32) 01.03.2010	KODA Daisuke	(73) LG Chem, Ltd.
(33) United States of America	UEHARA Yosuke	(72) KIM, Young Sam
(51) C08J 9/00	(31) 2017168626	JANG, Min-Seok
C08J 9/08	(32) 01.09.2017	(31) 20150098351
(11) EP3741799	(33) Japan	(32) 10.07.2015
(21) EP19175581.8	(51) C08L 23/06	(33) Korea (Republic)
(47) 28.12.2022	(11) EP3174930	(51) C08L 77/06
(22) 21.05.2019	(21) EP14766020.3	C08K 5/053
(54) METHOD FOR PRODUCING A POLYMER FOAM	(47) 28.12.2022	C08K 5/103
(73) Nabaltec AG	(87) US2014051707	C08K 7/04
(72) WERNE, Lisa	25.02.2016	C08L 29/02
NEUMEISTER, Corina	(22) 19.08.2014	(11) EP3133123
METSCH-ZILLIGEN, Elke	(54) FLAVOUR BARRIER COMPOSITION	(21) EP15780540.9
PFAENDNER, Rudolf	(73) Colgate-Palmolive Company	(47) 28.12.2022
SAUERWEIN, Reiner	(72) WANG, Jun	(87) JP2015061305
(51) C08J 11/02	(51) C08L 23/16	22.10.2015
B09B 3/00	(11) EP3911702	(22) 13.04.2015
C08C 1/04	(21) EP20700106.6	(54) SEMIAROMATIC POLYAMIDE RESIN COMPOSITION AND FORMED BODY OBTAINED BY FORMING SAME
C08C 4/00	(47) 28.12.2022	(73) UNITIKA LTD.
F26B 3/04	(87) EP2020050156	(72) MII, Junichi
F26B 21/14	23.07.2020	AMARI, Taiyo
B09B 3/40	(22) 07.01.2020	KAMIKAWA, Hiroo
(11) EP3546508	(54) POLYOLEFIN COMPOSITION	(31) 2014228974
(21) EP19173187.6	(73) Basell Poliolefine Italia S.r.l.	2014083187
(47) 28.12.2022	(72) GALVAN, Monica	(32) 11.11.2014
(22) 18.06.2013	GRAZZI, Michele	14.04.2014
(54) METHOD OF DESOLVENTIZATION OF BAGASSE	CIARAFONI, Marco	(33) Japan
(73) Bridgestone Corporation	CAVALIERI, Claudio	Japan
(72) HUANG, Yingyi	(31) 19151614	(51) C09B 69/10
SMALE, Mark W.	(32) 14.01.2019	C09D 11/00
COLE, William M.	(33) European Patent Office (EPO)	G07D 7/00
(31) 201261660971 P	(51) C08L 23/20	(11) EP2776516
(32) 18.06.2012	B29C 45/14	(21) EP12780505.9
(33) United States of America	C08F 10/14	(47) 28.12.2022
(51) C08K 5/527	B29C 45/16	(87) EP2012071882
C08L 23/12	(11) EP3587488	16.05.2013
C07F 9/6574	(21) EP18756721.9	(22) 06.11.2012
(11) EP3753979	(47) 28.12.2022	(54) POLYMER BONDED VAT DYES
(21) EP19754434.9	(87) JP2018004119	(73) SICPA HOLDING SA
(47) 28.12.2022	30.08.2018	
(87) JP2019004405	(22) 07.02.2018	
22.08.2019		

(72) MARGUERETTAZ, Xavier PASQUIER, Cécile FANKHAUSER, Catherine COMMEUREUC, Aurélien TILLER, Thomas WYSS, Patrick CHRISTINAT, Alexia GRIVEL, Aurélie CHILLAT, Philippe	(73) FUJIFILM Corporation (72) ARAKI, Kenjiro (31) 2017014642 (32) 30.01.2017 (33) Japan <hr/> (51) C09D 133/04 C09D 133/06 C09D 133/14 C09D 135/00 C08K 5/1515 C08F 220/18	20.10.2016 (22) 18.04.2016 (54) MODIFIED EPOXY PRIMER FOR IMPROVED ADHESION OF RMA CROSSLINKABLE COATING COMPOSITIONS (73) Allnex Netherlands B.V. (72) GOEDEGEBUURE, Rien THYS, Ferry Ludovicus DE WOLF, Elwin Aloysius Cornelius Adrianus BRINKHUIS, Richard Hendrikus Gerrit GESSNER, Michael Anthony BUSER, Antonius Johannes Wilhelmus SAUER, David James <hr/> (31) 201562148966 P 15169717 (32) 17.04.2015 28.05.2015 (33) United States of America European Patent Office (EPO) <hr/> (51) C09D 175/04 B32B 27/40 B64D 47/00 C08G 18/50 C08G 18/72 C08G 18/75 C08G 18/40 (11) EP2970710 (21) EP14702378.2 (47) 28.12.2022 (87) US2014011255 18.09.2014 (22) 13.01.2014 (54) COATING COMPOSITION FOR COATED SUBSTRATES AND METHODS OF MAKING THE SAME (73) PPG Industries Ohio, Inc. (72) BIMANAND, Alexander UPRETY, Krishna K. LAKDAWALA, Khushroo H. <hr/> (31) 201313843213 (32) 15.03.2013 (33) United States of America <hr/> (51) C09D 179/08 G03F 7/037 G03F 7/038 G03F 7/11 H01L 21/02 H01L 21/311 C08G 73/10 (11) EP3286606 (21) EP16783682.4 (47) 28.12.2022 (87) US2016028262 27.10.2016 (22) 19.04.2016 (54) PHOTSENSITIVE POLYIMIDE COMPOSITIONS (73) FujiFilm Electronic Materials USA, Inc. (72) MALIK, Sanjay SAKAMURI, Raj DIMOV, Ognian N. DE, Binod B. REINERTH, William A. NAIINI, Ahmad A. <hr/> (31) 201562263372 P 201562185424 P
(31) PCT/EP2011/069884 (32) 10.11.2011 (33) World Intellectual Property Office (WIPO) <hr/> (51) C09D 5/00 C09D 5/02 C09D 7/63 C09D 7/65 C09D 5/16 (11) EP3645634 (21) EP18735124.2 (47) 28.12.2022 (87) US2018036822 03.01.2019 (22) 11.06.2018 (54) FLUORINATED ESTER COMPOUND ADDITIVES FOR ARCHITECTURAL COATINGS (73) The Chemours Company FC, LLC (72) LASIO, Jelena OBER, Michael Henry WOERNER, Francis J. YIM, Hing (31) 201762524635 P (32) 26.06.2017 (33) United States of America <hr/> (51) C09D 5/14 C09D 183/04 C09D 7/63 C08J 5/18 (11) EP3569662 (21) EP18862625.3 (47) 28.12.2022 (87) KR2018011166 04.04.2019 (22) 20.09.2018 (54) ANTIMICROBIAL POLYMER COATING COMPOSITION AND ANTIMICROBIAL POLYMER FILM (73) LG Chem, Ltd. (72) JEONG, Hyeok KIM, Taekyun LEE, Jinkyu KIM, Mingoo (31) 20170125447 (32) 27.09.2017 (33) Korea (Republic) <hr/> (51) C09D 11/101 B41J 2/01 B41M 7/00 C09D 11/38 (11) EP3575372 (21) EP18745075.4 (47) 28.12.2022 (87) JP2018002802 02.08.2018 (22) 29.01.2018 (54) ACTIVE-RAY-CURABLE INK COMPOSITION AND INKJET RECORDING METHOD	(11) EP3298091 (21) EP15892171.8 (47) 28.12.2022 (87) CN2015079255 24.11.2016 (22) 19.05.2015 (54) CURABLE AQUEOUS COMPOSITION (73) Rohm and Haas Company (72) YANG, Miao QU, Zhaohui XUE, Yin <hr/> (51) C09D 161/32 C08G 12/42 C09D 133/14 C08K 5/3492 (11) EP2951250 (21) EP14704246.9 (47) 28.12.2022 (87) US2014013290 07.08.2014 (22) 28.01.2014 (54) ONE PACK LOW TEMPERATURE CURE COATING COMPOSITIONS (73) Allnex Netherlands B.V. (72) WU, Kuang-Jong BROGAN, John Colin LIN, Lon-tang Wilson (31) 201361758411 P (32) 30.01.2013 (33) United States of America <hr/> (51) C09D 163/00 C09J 163/00 C08G 59/02 C08G 59/06 (11) EP3697842 (21) EP18855926.4 (47) 28.12.2022 (87) US2018050203 21.03.2019 (22) 10.09.2018 (54) A PROCESS FOR PREPARING EPOXY RESINS (73) Westlake Epoxy Inc. (72) FLOSSER, David HITE, Jerry R. CORLEY, Larry Steven ERDEM, Bedri (31) 201715702401 (32) 12.09.2017 (33) United States of America <hr/> (51) C09D 167/02 C08J 3/24 C09D 163/00 (11) EP3283586 (21) EP16721661.3 (47) 28.12.2022 (87) EP2016058540	

201562150381 P	B32B 27/40	(31) 2017028303
(32) 04.12.2015	C08G 18/62	(32) 17.02.2017
26.06.2015	C09J 135/06	(33) Japan
21.04.2015	C09J 175/04	(51) C09K 5/04
(33) United States of America	C08G 18/75	(11) EP3686260
United States of America	B32B 7/12	(21) EP19153281.1
United States of America	C08G 18/76	(47) 28.12.2022
(51) C09D 201/00	C08G 18/78	(22) 23.01.2019
C09D 7/61	C08G 18/79	(54) COOLANT
C09D 7/65	C08G 18/42	(73) Weiss Technik GmbH
C09D 101/00	C09J 175/06	(72) AYDIN, Murat
C09D 133/06	C08G 18/48	ZAHRT, Yannik
C09D 183/04	C08G 18/10	BLAUFELDER, David
C08K 7/22	C08G 18/12	HAACK, Christian
C09D 5/00	C08G 18/40	(51) C09K 5/04
F16L 59/00	C08L 35/06	F25B 1/00
(11) EP3783076	(11) EP3381994	(11) EP3511392
(21) EP18915090.7	(21) EP16868535.2	(21) EP17848756.7
(47) 28.12.2022	(47) 28.12.2022	(47) 28.12.2022
(87) JP2018015704	(87) JP2016084560	(87) JP2017031946
24.10.2019	01.06.2017	15.03.2018
(22) 16.04.2018	(22) 22.11.2016	(22) 05.09.2017
(54) METHOD FOR SUPPRESSING	(54) POLYISOCYANATE COMPOSITION	(54) WORKING FLUID FOR HEAT
CORROSION UNDER HEAT-	FOR SOLVENT-FREE ADHESIVE,	CYCLE, COMPOSITION FOR HEAT
INSULATING MATERIAL, AND PASTE	SOLVENT-FREE ADHESIVE, AND	CYCLESYSTEM, AND HEAT CYCLE
FOR SUPPRESSING CORROSION	METHOD FOR PRODUCING LAYERED	SYSTEM
UNDER HEAT-INSULATING MATERIAL	FILM USING SAME	(73) AGC INC.
(73) Showa Denko Materials Co., Ltd.	(73) DIC Corporation	(72) ONO, Hikaru
(72) IZUMI Hiroyuki	(72) OHARA Shinichi	UENO, Katsuya
MAKINO Tatsuya	UMETSU Kiyokazu	OTSUKA, Tetsuo
KOTAKE Tomohiko	KIMURA Ryoji	(31) 2016174940
TAKAYASU Satoshi	OKUBO Tomoo	(32) 07.09.2016
SATO Naoyoshi	SHIMAMURA Kenichi	(33) Japan
(51) C09J 4/02	NAKANE Kohei	(51) C09K 8/32
C09J 4/06	(31) 2015230624	C10M 135/24
C08F 285/00	(32) 26.11.2015	C10M 173/00
C08F 287/00	(33) Japan	C10M 129/76
(11) EP3612609	(51) C09J 153/02	(11) EP3317361
(21) EP18787067.0	C09J 7/22	(21) EP16818427.3
(47) 28.12.2022	C09J 7/38	(47) 28.12.2022
(87) US2018027907	(11) EP3020774	(87) US2016035530
25.10.2018	(21) EP14193229.3	05.01.2017
(22) 17.04.2018	(47) 28.12.2022	(22) 02.06.2016
(54) ADHESIVE COMPOSITIONS	(22) 14.11.2014	(54) LUBRICANT COMPOSITIONS
(73) Henkel AG & Co. KGaA	(54) RUBBER-BASED MULTILAYER	COMPRIHING DIOL FUNCTIONAL
(72) HURLBURT, Lynnette	PRESSURE-SENSITIVE ADHESIVE	GROUPS AND METHODS OF MAKING
SWEENEY, Nigel	ASSEMBLY	AND USING SAME
DEEGAN, Brian	(73) 3M Innovative Properties Company	(73) ExxonMobil Chemical Patents Inc.
MESSANA, Andrew D.	(72) Bieber, Pierre Reinhard	(72) NG, Man, Kit
GALLIGAN, Marc	Stegmaier, Petra Maria	HAQUE, Tabassumul
(31) 201762488354 P	Overbeck, Janina	PELLETTIERE, Joseph, R.
(32) 21.04.2017	Goeb, Siegfried Rainer	CHENG, Hong
(33) United States of America	(51) C09K 3/14	PEIFFER, Dennis, G.
(51) C09J 7/21	C09G 1/02	HENAO, Juan, D.
(11) EP3820956	H01L 21/02	IACCINO, Larry, L.
(21) EP19714196.3	(11) EP3584298	(31) 201562186526 P
(47) 28.12.2022	(21) EP18754174.3	15180115
(87) EP2019057634	(47) 28.12.2022	(32) 30.06.2015
16.01.2020	(87) JP2018002697	07.08.2015
(22) 26.03.2019	23.08.2018	(33) United States of America
(54) USE OF AN ADHESIVE TAPE	(22) 29.01.2018	European Patent Office (EPO)
(73) Certoplast Technische Klebebänder	(54) POLISHING METHOD USING A	(51) C09K 11/06
GmbH	POLISHING COMPOSITION	C08G 61/02
(72) LEERMANN, Timo	(73) Fujimi Incorporated	G01N 33/58
(31) 202018103986 U	(72) MORI, Yoshio	(11) EP3889237
(32) 11.07.2018	TANIGUCHI, Megumi	(21) EP21156248.3
(33) Germany	MUKAI, Takatoshi	(47) 28.12.2022
(51) C09J 125/02	TSUCHIYA, Kohsuke	(22) 14.04.2017

(54) PHOTOACTIVE MACROMOLECULES AND USES THEREOF	(51) C10M 129/76 C10N 30/06 C10N 40/02	(72) MORRISON, Eric SEEMEYER, Stefan SCHARRENBACH, Stephan CAUSSIN DE SCHNECK, Claudia KÜPPER, Stefan
(73) Beckman Coulter, Inc.	(11) EP3052598	(31) 825546 P
(72) EASWARAN, Arunkumar GULNIK, Sergei	(21) EP14772417.3	(32) 13.09.2006
(31) 201662323444 P	(47) 28.12.2022	(33) United States of America
(32) 15.04.2016	(87) GB2014052751	
(33) United States of America	02.04.2015	
(51) C09K 11/06	(22) 11.09.2014	(51) C11B 1/04
H01L 51/50	(54) GEAR OIL COMPOSITION	C11B 1/06
H01L 51/00	(73) Croda International PLC	C11B 1/08
(11) EP3697865	(72) HOBDAV, Ian	C11B 1/10
(21) EP18800043.4	EASTWOOD, John	C11B 13/00
(47) 28.12.2022	EMBLETON, Mark	A23K 10/37
(87) EP2018078143	O'SULLIVAN, Louise	A61K 36/28
25.04.2019	(31) 201317278	A61K 8/9789
(22) 16.10.2018	(32) 30.09.2013	A61Q 19/00
(54) ORGANIC MOLECULES, IN PARTICULAR FOR USE IN OPTOELECTRONIC DEVICES	(33) United Kingdom	A61K 8/92
(73) Samsung Display Co., Ltd.	(51) C10M 167/00	A61K 45/06
(72) ZINK, Daniel	C10N 20/04	A61K 31/7048
BERGMANN, Larissa	C10N 30/02	(11) EP3253229
SEIFERMANN, Stefan	C10N 30/06	(21) EP16709978.7
ESTEBAN, Alhama Arjona	C10N 30/00	(47) 28.12.2022
(31) 102017129982	C10N 40/25	(87) EP2016052539
102017124294	C10N 40/26	11.08.2016
(32) 14.12.2017	(11) EP3851508	(22) 05.02.2016
18.10.2017	(21) EP21150240.6	(54) PROCESS FOR THE FRACTIONATION OF SEEDS FROM OLEAGINOUS PLANTS.
(33) Germany	(47) 28.12.2022	(73) Novamont S.p.A.
Germany	(22) 28.08.2017	(72) BASTIOLI, Catia
(51) C10B 31/12	(54) METHOD OF LUBRICATING AN INTERNAL COMBUSTION ENGINE	BORSOTTI, Giampietro
B01J 4/00	(73) The Lubrizol Corporation	CAPUZZI, Luigi
C10B 45/00	(72) LOOP, John G.	(31) UB20150055 U
(11) EP3472264	RAGUZ, Mary Galic	(32) 05.02.2015
(21) EP16905670.2	(31) 201662394235 P	(33) Italy
(47) 28.12.2022	(32) 14.09.2016	(51) C11D 3/30
(87) US2016047068	(33) United States of America	C11D 3/37
21.12.2017	(51) C10M 173/02	(11) EP3894533
(22) 15.08.2016	(11) EP3927797	(21) EP19828108.1
(54) RETRACTABLE CENTER FEED INJECTION DEVICE	(21) EP20706258.9	(47) 28.12.2022
(73) Deltavalve, LLC	(47) 28.12.2022	(87) US2019064577
(72) LAH, Ruben F.	(87) EP2020054621	18.06.2020
KRAUSE, Kenneth	27.08.2020	(22) 05.12.2019
LARSEN, Gary	(22) 21.02.2020	(54) LIQUID LAUNDRY DETERGENT FORMULATION
(31) 201615185324	(54) LUBRICANT FOR HOT WORKING OF METALS	(73) Dow Global Technologies LLC
(32) 17.06.2016	(73) Chemische Fabrik Budenheim KG	Rohm and Haas Company
(33) United States of America	(72) BUGNER, Steffen	(72) PEERA, Asghar A.
(51) C10B 53/07	MASURAT, Dirk	TULCHINSKY, Michael L.
C10G 1/10	LONGIS, Clémence	DONOVAN, Stephen
(11) EP3408353	BARGON, Marvin	(31) 201862779050 P
(21) EP17715993.6	WEYER, Nicole	(32) 13.12.2018
(47) 28.12.2022	(31) 102019104540	(33) United States of America
(87) GB2017050907	(32) 22.02.2019	(51) C11D 3/34
05.10.2017	(33) Germany	C11D 11/00
(22) 30.03.2017	(51) C10M 173/02	C07D 257/00
(54) PROCESS FOR THE PREPARATION OF A LUBRICANT BASE STOCK COMPRISING THE SELECTIVE THERMAL DECOMPOSITION OF PLASTIC POLYOLEFIN POLYMER	C10N 30/06	C07D 257/02
(73) Trifol Resources Limited	C10N 30/00	C07F 5/06
(72) ATKINS, Martin Philip	(11) EP3447112	(11) EP3872157
COLEMAN, Fergal	(21) EP18197273.8	(21) EP21157270.6
(31) 201605528	(47) 28.12.2022	(47) 28.12.2022
(32) 31.03.2016	(22) 13.09.2007	(22) 16.02.2021
(33) United Kingdom	(54) CONVEYOR LUBRICANTS INCLUDING EMULSION OF A LIPOPHILIC COMPOUND AND AN ANIONIC SURFACTANT AND METHODS EMPLOYING THEM	(54) DISHWASHING COMPOSITIONS CONTAINING METAL COMPLEXES
	(73) Ecolab USA Inc.	(73) Henkel AG & Co. KGaA
		(72) Kropf, Christian
		Polarz, Sebastian

<p>Frisch, Marvin Lionel (31) 102020207791 102020202492 (32) 24.06.2020 27.02.2020 (33) Germany Germany</p> <hr/> <p>(51) C11D 7/26 C11D 3/20 C10M 105/00 C07C 209/68 A01N 33/04 A01N 25/12 A01P 1/00 (11) EP3350156 (21) EP16847386.6 (47) 28.12.2022 (87) US2016052141 23.03.2017 (22) 16.09.2016 (54) METHODS OF MAKING TRIAMINE SOLIDS (73) Ecolab USA Inc. (72) OLSON, Erik C. SILVERNAIL, Carter M. GRIESE, Gregory G. (31) 201562219760 P (32) 17.09.2015 (33) United States of America</p> <hr/> <p>(51) C11D 9/18 C11D 17/00 C11D 13/18 (11) EP3927805 (21) EP20703259.0 (47) 28.12.2022 (87) EP2020053443 27.08.2020 (22) 11.02.2020 (54) AN EXTRUDED SOAP BAR WITH HIGH WATER CONTENT (73) Unilever IP Holdings B.V. (72) AGARKHED, Ajit, Manohar BANGAL, Amalendu GHOSH DASTIDAR, Sudipta HEGISHTE, Swapnil, Ravikant PRATAP, Shailendra YAROVOY, Yuriy, Konstantinovich (31) 19157897 (32) 19.02.2019 (33) European Patent Office (EPO)</p> <hr/> <p>(51) C12G 1/022 C12G 1/028 C12M 1/12 C12M 1/02 C12C 11/00 F28D 1/06 F28D 21/00 (11) EP3608393 (21) EP19190162.8 (47) 28.12.2022 (22) 06.08.2019 (54) TANK WITH SPIRAL HEAT-EXCHANGE JACKET (73) Biasior, Patrizia (72) Biasior, Patrizia (31) 201800007924 (32) 07.08.2018 (33) Italy</p> <hr/>	<p>(51) C12M 1/00 C12M 3/00 C12M 1/06 C12M 1/34 (11) EP3931296 (21) EP20701698.1 (47) 28.12.2022 (87) EP2020050921 01.10.2020 (22) 15.01.2020 (54) SENSOR POSITIONING SYSTEM FOR A BIOPROCESS ENGINEERING INSTALLATION (73) Sartorius Stedim Biotech GmbH (72) ADAMS, Thorsten RUPPRECHT, Jens GRIMM, Christian BODE, Matthias (31) 102019107622 (32) 25.03.2019 (33) Germany</p> <hr/> <p>(51) C12M 1/34 C12Q 1/6816 G01N 33/53 G01N 33/543 (11) EP3708647 (21) EP18875882.5 (47) 28.12.2022 (87) JP2018041284 16.05.2019 (22) 07.11.2018 (54) INSPECTION DEVICE (73) Kaneka Corporation (72) SANO Sotaro MIYAMOTO Shigehiko JIKIHARA Takaaki (31) 2017215977 2017215984 2017215975 (32) 08.11.2017 08.11.2017 08.11.2017 (33) Japan Japan Japan</p> <hr/> <p>(51) C12M 3/06 C12M 1/00 C12M 1/34 G01N 33/50 (11) EP3426766 (21) EP17714913.5 (47) 28.12.2022 (87) IL2017050289 14.09.2017 (22) 08.03.2017 (54) METHOD FOR CONTINUOUS BIOSENSING (73) Yissum Research and Development Company of the Hebrew University of Jerusalem Ltd. (72) NAHMIA, Yaakov LEVY, Gahl BAVLI, Danny (31) 201662305660 P 201662305073 P (32) 09.03.2016 08.03.2016 (33) United States of America</p> <hr/>	<p>United States of America</p> <hr/> <p>(51) C12N 1/04 A61K 39/02 A61K 47/10 A61K 47/26 A61K 47/42 A61K 9/19 A61P 31/04 A61P 37/04 C12N 1/20 A61K 39/00 (11) EP3768820 (21) EP19772499.0 (47) 28.12.2022 (87) CA2019050340 26.09.2019 (22) 20.03.2019 (54) A METHOD FOR LYOPHILIZING LIVE VACCINE STRAINS OF FRANCISELLA TULARENSIS (73) National Research Council of Canada (72) CONLAN, Wayne MCRAE, Kevan (31) 201862645409 P (32) 20.03.2018 (33) United States of America</p> <hr/> <p>(51) C12N 1/19 C12N 9/12 C12N 9/88 C12N 15/81 C12P 7/06 (11) EP3469067 (21) EP17732052.0 (47) 28.12.2022 (87) EP2017064353 21.12.2017 (22) 13.06.2017 (54) RECOMBINANT YEAST CELL (73) DSM IP Assets B.V. (72) PAPAPETRIDIS, Ioannis VAN MARIS, Antonius Jeroen Adriaan PRONK, Jacobus Thomas DE WAAL, Paulus Petrus LAURET, Niels VERHOEVEN, Maarten D SCHMITZ, Jozef Petrus Johannes (31) PCT/EP2016/174382 (32) 14.06.2016 (33) World Intellectual Property Office (WIPO)</p> <hr/> <p>(51) C12N 5/00 B33Y 80/00 (11) EP3766961 (21) EP19187072.4 (47) 28.12.2022 (22) 18.07.2019 (54) METHOD FOR PRODUCING BIOLOGICAL TISSUE (73) Axenoll Life Sciences AG (72) DECK, David L. VASIC, Srdan</p> <hr/> <p>(51) C12N 5/10 C12N 7/02 C12N 7/04 C12N 15/85 C12N 15/86 (11) EP3380604 (21) EP16798512.6 (47) 28.12.2022</p>
---	--	---

(87) EP2016078336 01.06.2017	A01H 6/82	(21) EP17786002.0
(22) 21.11.2016	(11) EP2573177	(47) 28.12.2022
(54) STABLE CELL LINES FOR RETROVIRAL PRODUCTION	(21) EP12199188.9	(87) JP2017015767 26.10.2017
(73) GlaxoSmithKline Intellectual Property Development Limited	(47) 28.12.2022	(22) 19.04.2017
(72) JOHNSON, Sabine	(22) 12.11.2008	(54) REGULATORY T CELL ACTIVATOR, AND USE THEREOF
PALLANT, Celeste	(54) Alteration of tobacco alkaloid content through modification of specific cytochrome P450 genes	(73) University of Tsukuba
VAMVA, Eirini	(73) North Carolina State University	(72) SHIBUYA, Akira
VINK, Conrad	UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION	SHIBUYA, Kazuko
(31) 201609303	(72) Dewey, Ralph E.	ABE, Fumie
201520761	Siminszky, Balazs	HIROCHIKA, Rei
(32) 26.05.2016	Bowen, Steven W.	OKUMURA, Genki
24.11.2015	Gavilano, Lily	(31) 2016084170
(33) United Kingdom	(31) 987243 P	(32) 20.04.2016
United Kingdom	(32) 12.11.2007	(33) Japan
(51) C12N 7/00	(33) United States of America	(51) C12N 15/10
(11) EP3022296	(51) C12N 9/26	(11) EP3399034
(21) EP14745060.5	C12N 9/28	(21) EP17169666.9
(47) 28.12.2022	(11) EP3294881	(47) 28.12.2022
(87) US2014046731	(21) EP16721426.1	(22) 05.05.2017
22.01.2015	(47) 28.12.2022	(54) DEVICE FOR EXTRACTING NUCLEIC ACIDS FROM BIOLOGICAL SAMPLE MATERIALS WITH SOLVENT-FREE REAGENTS
(22) 15.07.2014	(87) EP2016060266	(73) Siemens Healthcare Diagnostics Inc.
(54) HIGH TITER RECOMBINANT INFLUENZA VIRUSES WITH ENHANCED REPLICATION IN MDCK OR VERO CELLS OR EGGS	17.11.2016	(72) Gumbrecht, Walter
(73) Wisconsin Alumni Research Foundation	(22) 09.05.2016	Huang, Yiwei
(72) KAWAOKA, Yoshihiro	(54) ALPHA-AMYLASE VARIANTS AND POLYNUCLEOTIDES ENCODING SAME	Paulicka, Peter
NEUMANN, Gabriele	(73) Novozymes A/S	(51) C12N 15/10
PING, Jihui	(72) ANDERSEN, Carsten	C12P 19/34
(31) 201361846460 P	GHADIYARAM, Chakshusmathi	C12Q 1/68
(32) 15.07.2013	SAINATHAN, Rajendra, Kulothungan	C40B 50/06
(33) United States of America	BALUMURI, Padmavathi	(11) EP3458586
(51) C12N 9/02	IYER, Padma, Venkatachalam	(21) EP17800050.1
A01H 1/00	DAMAGER, Iben	(47) 28.12.2022
A01H 5/10	MUNCH, Astrid	(87) US2017032980
A01H 6/46	DALAL, Sohel	23.11.2017
C12N 15/82	(31) 2335CH2015	(22) 16.05.2017
C12C 1/18	(32) 08.05.2015	(54) METHOD OF IMPROVED SEQUENCING BY STRAND IDENTIFICATION
C12C 5/00	(33) India	(73) Accuragen Holdings Limited
C12C 7/04	(51) C12N 9/64	(72) WENG, Li
C12C 7/047	C12N 15/57	FAHAM, Malek
C12C 11/00	A61K 38/48	LIN, Shengrong
C12C 12/00	(11) EP3581650	TANG, Ling, Fung
(11) EP1727905	(21) EP19174517.3	LU, Yontao
(21) EP05706820.7	(47) 28.12.2022	SUN, Zhaohui
(47) 28.12.2022	(22) 15.09.2009	WANG, Yingyu
(87) DK2005000160	(54) FACTOR IX POLYPEPTIDE MUTANT, ITS USES AND A METHOD FOR ITS PRODUCTION	(31) 201762506390 P
22.09.2005	(73) uniQure biopharma B.V.	201662337296 P
(22) 09.03.2005	(72) Simioni, Paolo	(32) 15.05.2017
(54) BARLEY FOR PRODUCTION OF FLAVOR-STABLE BEVERAGE	(31) BO20090275	16.05.2016
(73) Carlsberg A/S	BO20080564	(33) United States of America
(72) BREDDAM, Klaus	(32) 06.05.2009	United States of America
OLSEN, Ole	15.09.2008	(51) C12N 15/74
SKADHAUGE, Birgitte	(33) Italy	C12P 7/52
LOK, Finn	Italy	C12N 15/78
KNUDSEN, Søren	(51) C12N 15/09	(11) EP3321364
BECH, Lene, Mølskov	A61K 39/395	(21) EP16807879.8
(31) 800200	A61P 37/06	(47) 28.12.2022
(32) 11.03.2004	C07K 16/28	(87) KR2016006261
(33) United States of America	C12N 1/15	15.12.2016
(51) C12N 9/02	C12N 1/19	(22) 13.06.2016
C12N 15/82	C12N 1/21	(54) PROMOTER SYSTEM INDUCING EXPRESSION BY 3-HYDROXYPROPIONIC
A01H 1/00	C12N 5/10	
A01H 5/12	(11) EP3447138	

<p>ACID AND METHOD FOR BIOLOGICAL PRODUCTION OF 3-HYDROXYPROPIONIC ACID USING SAME</p> <p>(73) Noroo IC Co., Ltd. Noroo R&C Co., Ltd.</p> <p>(72) PARK, Sung-Hoon ZHOU, Shengfang ASHOK, Somasundar SEOL, Eun Hee AINALA, Satish Kumar</p> <p>(31) 20150082593 (32) 11.06.2015 (33) Korea (Republic)</p> <hr/> <p>(51) C12N 15/82 (11) EP3580343 (21) EP18708223.5 (47) 28.12.2022 (87) IL2018050142 16.08.2018 (22) 08.02.2018</p> <p>(54) GLYCOALKALOID METABOLISM ENZYMES (GAMES) AND USES THEREOF</p> <p>(73) Yeda Research and Development Co., Ltd. Yissum Research Development Company of The Hebrew University of Jerusalem Ltd.</p> <p>(72) AHARONI, Asaph SONAWANE, Prashant CARDENAS, Pablo D. BURDMAN, Saul</p> <p>(31) 25053817 (32) 09.02.2017 (33) Israel</p> <hr/> <p>(51) C12N 15/86 A61P 25/28 C12N 9/02 C12N 15/113</p> <p>(11) EP3702466 (21) EP20165345.8 (47) 28.12.2022 (22) 26.08.2014</p> <p>(54) PRODUCTS AND METHODS FOR TREATMENT OF AMYOTROPHIC LATERAL SCLEROSIS</p> <p>(73) Research Institute at Nationwide Children's Hospital LUDWIG INSTITUTE FOR CANCER RESEARCH</p> <p>(72) KASPAR, Brian, K. FOUST, Kevin CLEVELAND, Don, W.</p> <p>(31) 201361870585 P (32) 27.08.2013 (33) United States of America</p> <hr/> <p>(51) C12N 15/87 C12N 15/11 A61K 48/00 A61K 38/38 A61P 17/00 A61M 37/00</p> <p>(11) EP3690056 (21) EP20161924.4 (47) 28.12.2022 (22) 30.01.2015</p>	<p>(54) METHODS AND PRODUCTS FOR NUCLEIC ACID PRODUCTION AND DELIVERY</p> <p>(73) Factor Bioscience Inc.</p> <p>(72) ANGEL, Matthew ROHDE, Christopher</p> <p>(31) 201462069667 P 201462038608 P 201461934397 P</p> <p>(32) 28.10.2014 18.08.2014 31.01.2014</p> <p>(33) United States of America United States of America United States of America</p> <hr/> <p>(51) C12P 13/08 C12P 13/10 C12P 13/24 C12N 1/20</p> <p>(11) EP2818555 (21) EP14182094.4 (47) 28.12.2022 (22) 07.10.2005</p> <p>(54) Method for producing a basic substance</p> <p>(73) Ajinomoto Co., Inc. (72) Takeshita, Ryo Sugimoto, Shinichi</p> <p>(31) 2004295123 (32) 07.10.2004 (33) Japan</p> <hr/> <p>(51) C12Q 1/06 G01N 21/17 G01N 21/64 G01N 33/58</p> <p>(11) EP3565899 (21) EP18735857.7 (47) 28.12.2022 (87) IB2018050134 12.07.2018 (22) 09.01.2018</p> <p>(54) RAPID ANTIMICROBIAL SUSCEPTIBILITY TESTING BASED ON A UNIQUE SPECTRAL INTENSITY RATIO ANALYSIS VIA SINGLE FLUORESCENCE MEMBRANE DYE STAINING AND FLOW CYTOMETRY</p> <p>(73) Pocared Diagnostics Ltd.</p> <p>(72) INGBER, Gal BEN-DAVID, Moshe FRIDMAN, Mushki GLUCKMAN, Yael GOHMAN, Dina MUNZ, Orly, Hammer SHINDERMAN, Anita ZAHAVY, Eran</p> <p>(31) 201762504903 P 201762504851 P 201762504205 P 201762504152 P 201762443854 P 201762443850 P</p> <p>(32) 11.05.2017 11.05.2017 10.05.2017 10.05.2017 09.01.2017 09.01.2017</p> <p>(33) United States of America</p>	<p>United States of America United States of America United States of America United States of America United States of America</p> <hr/> <p>(51) C12Q 1/18 G16C 20/64 G16C 20/70</p> <p>(11) EP3906315 (21) EP19845643.6 (47) 28.12.2022 (87) US2019067903 09.07.2020 (22) 20.12.2019</p> <p>(54) ANTIMICROBIC SUSCEPTIBILITY TESTING USING MACHINE LEARNING</p> <p>(73) Beckman Coulter, Inc. (72) SEI, Katherine, S. CHEN, Qi, C.</p> <p>(31) 201962894000 P 201862786678 P (32) 30.08.2019 31.12.2018</p> <p>(33) United States of America United States of America</p> <hr/> <p>(51) C12Q 1/6806 (11) EP3633047 (21) EP19174933.2 (47) 28.12.2022 (22) 19.08.2015</p> <p>(54) METHOD OF SEQUENCING NUCLEIC ACIDS BASED ON AN ENRICHMENT OF NUCLEIC ACIDS</p> <p>(73) Pacific Biosciences of California, Inc. (72) TSAI, Yu-Chih VILFAN, Igor Drasko LUONG, Khai</p> <p>(31) 201462039319 P (32) 19.08.2014 (33) United States of America</p> <hr/> <p>(51) C12Q 1/6883 (11) EP3511422 (21) EP18198701.7 (47) 28.12.2022 (22) 10.11.2014</p> <p>(54) METHODS AND COMPOSITIONS FOR DIAGNOSING, PROGNOSED, AND TREATING ENDOMETRIOSIS</p> <p>(73) Population Bio, Inc. (72) HATCHWELL, Eli EIS, Peggy S</p> <p>(31) 201361903286 P (32) 12.11.2013 (33) United States of America</p> <hr/> <p>(51) C22B 1/16 B01J 2/12 C22B 1/20 C22B 1/24 C22B 1/243 C22B 1/245</p> <p>(11) EP3892744 (21) EP19891967.2 (47) 28.12.2022 (87) JP2019033260 11.06.2020 (22) 26.08.2019</p> <p>(54) SINTERED ORE MANUFACTURING METHOD</p>
---	---	---

(73) JFE Steel Corporation	28.05.2015	(47) 28.12.2022
(72) YAMAMOTO, Tetsuya	(22) 21.11.2014	(22) 27.09.2019
HIGUCHI, Takahide	(54) SURFACE COATING FOR CHAMBER	(54) CIRCULAR COMB FOR A COMBING
HIROSAWA, Toshiyuki	COMPONENTS USED IN PLASMA	MACHINE
IWASE, Kazumi	SYSTEMS	(73) Graf + Cie AG
TAKEHARA, Kenta	(73) Entegris, Inc.	(72) DRATVA, Christian
FUJIWARA, Shohei	(72) WALDFRIED, Carlo	BURKHARD, Tobias
JINNO, Tetsuya	(31) 201361907214 P	(31) 12142018
WATANABE, Soichiro	(32) 21.11.2013	(32) 04.10.2018
TAMURA, Koichi	(33) United States of America	(33) Switzerland
(31) 2018229940	(51) C23C 16/34	(51) D01H 7/04
(32) 07.12.2018	C23C 16/36	D01H 7/22
(33) Japan	C23C 16/56	(11) EP3656900
(51) C22C 19/05	C23C 30/00	(21) EP19208788.0
(11) EP3650566	C23C 28/00	(47) 28.12.2022
(21) EP19207823.6	C23C 28/04	(22) 13.11.2019
(47) 28.12.2022	(11) EP3872222	(54) SPINDLE DEVICE FOR SPINNING
(22) 07.11.2019	(21) EP20159982.6	MACHINE
(54) NICKEL-BASED SUPERALLOY AND	(47) 28.12.2022	(73) Kabushiki Kaisha Toyota Jidoshokki
ARTICLES	(22) 28.02.2020	(72) TAJIMA, Tomonori
(73) General Electric Company	(54) A COATED CUTTING TOOL	(31) 2018220178
(72) CUI, Yan	(73) AB Sandvik Coromant	(32) 26.11.2018
ARNETT, Michael Douglas	(72) BJÖRMANDER, Carl	(33) Japan
LAYLOCK, Matthew Joseph	(51) C25D 5/26	(51) D03D 1/00
TOLLISON, Brian Lee	C25D 3/30	D03D 9/00
VANTASSEL, Brad Wilson	C25D 9/10	D03D 15/56
(31) 201816185185	C25D 3/32	D03D 15/217
(32) 09.11.2018	C25D 5/36	(11) EP3507403
(33) United States of America	(11) EP3255180	(21) EP17771667.7
(51) C22F 1/047	(21) EP16746740.6	(47) 28.12.2022
C22C 21/06	(47) 28.12.2022	(87) EP2017071502
(11) EP3640358	(87) JP2016053651	08.03.2018
(21) EP19196610.0	11.08.2016	(22) 28.08.2017
(47) 28.12.2022	(22) 08.02.2016	(54) BABY SLING, SWADDLE AND
(22) 11.09.2019	(54) METHOD OF MANUFACTURING A	BLANKET
(54) METHOD FOR PRODUCING A HIGH-	CHEMICALLY TREATED SN PLATED	(73) Advitex GmbH
STRENGTH ALUMINUM ALLOY SHEET	STEEL SHEET	(72) OTTEN, Frank
(73) Achenbach Buschhütten GmbH & Co.	(73) Nippon Steel Corporation	(31) 202016104745 U
KG	(72) GOTO, Yasuto	(32) 30.08.2016
(72) BARTEN, Axel	FUTABA, Takashi	(33) Germany
(31) 102018125521	(31) 2015022385	(51) D03D 41/00
(32) 15.10.2018	(32) 06.02.2015	B33Y 10/00
(33) Germany	(33) Japan	B33Y 30/00
(51) C23C 4/06	(51) C25D 11/24	B33Y 70/00
C23C 4/131	C25D 13/20	B33Y 80/00
(11) EP3535433	C25D 13/22	D03D 15/00
(21) EP17912762.6	C23C 22/83	D03J 1/06
(47) 28.12.2022	(11) EP3497268	(11) EP3458633
(87) CN2017089097	(21) EP17758687.2	(21) EP17799954.7
13.12.2018	(47) 28.12.2022	(47) 28.12.2022
(22) 20.06.2017	(87) US2017046714	(87) US2017032703
(54) ARC WIRE SPRAYING METHOD,	15.02.2018	23.11.2017
EQUIPMENT AND PRODUCT	(22) 14.08.2017	(22) 15.05.2017
(73) BMW Brilliance Automotive Ltd.	(54) METHODS FOR TREATING A METAL	(54) SYSTEMS AND METHODS FOR
(72) SCHWARZ, Franz	SUBSTRATE AND SUBSTRATE	CONTINUOUS FABRICATION OF
WAGNER, Stefan	TREATED BY THE METHOD	WOVEN COMPOSITE MATERIALS
DU, Jingyuan	(73) PRC-Desoto International, Inc.	(73) Georgia Tech Research Corporation
(31) 201710429633	(72) FLEGNY, Anaïs Mauricette Christiana	(72) OBERSTE, Christopher Marc
(32) 09.06.2017	MORRIS, Eric L.	CHENG, Phillip Sung Tse
(33) China	POST, Gordon L.	WANG, Ben
(51) C23C 14/06	SUTER, II, John D.	(31) 201662336974 P
C23C 14/08	MAYO, Michael A.	(32) 16.05.2016
C23C 14/35	(31) 201662374188 P	(33) United States of America
H01J 37/32	(32) 12.08.2016	(51) D04B 9/02
(11) EP3071726	(33) United States of America	D04B 9/46
(21) EP14821909.0	(51) D01G 19/10	D04B 15/06
(47) 28.12.2022	(11) EP3633085	D04B 15/32
(87) US2014066883	(21) EP19200122.0	(11) EP3797186

(21) EP19733513.6	(73) Whirlpool Corporation	D06M 11/61
(47) 28.12.2022	(72) Park, Jun Young	D06M 13/325
(87) EP2019067527	Bixby, Seth E.	C23C 18/16
09.01.2020	Grasselli, Dario	C23C 18/18
(22) 01.07.2019	Kubasiak, Andrew C.	C23C 18/20
(54) METHOD FOR MAKING A KNITTING	Netti, Giuseppe	C25D 7/00
STITCH IN A KNITTING MACHINE	Schelling, Anna C.	D06M 11/83
WITH ONE OR MORE FEEDERS	Murphy, Sayer J.	(11) EP3877583
(73) JVC HOLDING SRL	Fitzgerald, Gregg P.	(21) EP19805516.2
(72) COLOSIO, Gianfranco	Ludovico, Biagio	(47) 28.12.2022
GOLIN, Giuseppe	(31) 202016859425	(87) CZ2019000053
LENZI, Paolo	201962844913 P	14.05.2020
(31) 201800007018	(32) 27.04.2020	(22) 06.11.2019
(32) 06.07.2018	08.05.2019	(54) METHOD OF CONTINUOUS METAL
(33) Italy	(33) United States of America	PLATING OF TEXTILE MATERIAL,
(51) D04B 35/10	United States of America	DEVICE TO CARRY OUT THE
D04B 35/20	(51) D06F 73/00	METHOD, METAL PLATED TEXTILE
D04B 7/00	D06F 81/00	MATERIAL AND ITS USE
(11) EP3926084	D06F 81/02	(73) Bochemie A.S.
(21) EP21178777.5	(11) EP3696314	(72) VECERNIK, Josef
(47) 28.12.2022	(21) EP20155708.9	(31) 20180606
(22) 10.06.2021	(47) 28.12.2022	(32) 06.11.2018
(54) KNITTING MACHINE AND DEFECT	(22) 05.02.2020	(33) Czech Republic
DETECTION SYSTEM	(54) DEVICE FOR TREATING LAUNDRY	(51) E01C 13/08
(73) SHIMA SEIKI MFG., LTD.	WITH STEAM COMPRISING A	(11) EP3666976
(72) KOBAYASHI, Takahiro	SUPPORT DEVICE	(21) EP18212783.7
(31) 2020105380	(73) SEB S.A.	(47) 28.12.2022
(32) 18.06.2020	(72) D'OLIVIERA DIAS, Laurent	(22) 14.12.2018
(33) Japan	LAVOINE, Jean-Pierre	(54) ARTIFICIAL TURF INFILL AND
(51) D06F 35/00	(31) 1901389	ARTIFICIAL TURF
D06F 39/00	(32) 12.02.2019	(73) Pintat, Benoit
(11) EP3339490	(33) France	11i Consulting GmbH
(21) EP16206424.0	(51) D06F 83/00	Murfitts Industries LTD
(47) 28.12.2022	(11) EP3652374	(72) SICK, Stephan
(22) 22.12.2016	(21) EP18762387.1	LOHR, Ivo
(54) METHOD FOR TREATING TEXTILE	(47) 28.12.2022	HALLY, Stefan
ARTICLES IN A LAUNDRY WASHING	(87) IB2018055073	FINDER, Zdenka
MACHINE AND LAUNDRY WASHING	17.01.2019	(51) E01C 19/17
MACHINE CONFIGURED TO	(22) 10.07.2018	E01C 19/16
IMPLEMENT THE METHOD	(54) IMPROVED MULTILAYER FOR	B05B 12/14
(73) Whirlpool EMEA S.p.A	COVERING ELEMENTS FOR IRONING	B05B 13/00
(72) COLUCCI, Nicola	SURFACES	B05B 13/02
MANCINI, Mauro	(73) Siretessile S.r.l.	B05B 15/656
ZIMAR, Alessio	(72) GIORDANO, Francesco	B05B 1/20
VENANZETTI, Tiziana	(31) 201700078053	B05B 1/30
(51) D06F 39/02	(32) 11.07.2017	B05B 1/16
D06F 103/22	(33) Italy	E01C 23/06
D06F 105/42	(51) D06F 89/00	E01C 19/48
(11) EP3722485	(11) EP3673109	B05B 7/16
(21) EP20169302.5	(21) EP18762161.0	B05B 1/24
(47) 28.12.2022	(47) 28.12.2022	E01C 23/088
(22) 14.04.2020	(87) IL2018050887	(11) EP3615733
(54) WASHING MACHINE	28.02.2019	(21) EP18790473.5
(73) LG Electronics Inc.	(22) 09.08.2018	(47) 28.12.2022
(72) CHAE, Kyosoon	(54) DOMESTIC COMPACT ARTICLE	(87) US2018023104
KIM, Hyundong	FOLDING MACHINE HAVING HOLDING	01.11.2018
OH, Sooyoung	CONVEYORS	(22) 19.03.2018
(31) 20190042786	(73) Miele & Cie. KG	(54) MODULAR SPRAY ASSEMBLY FOR A
(32) 12.04.2019	Rozov, Gal	WORKING MACHINE
(33) Korea (Republic)	(72) ROZOV, Gal	(73) Roadtec, Inc.
(51) D06F 39/14	NAIM, Alon	(72) CHRISTIAN, Richard
D06F 39/08	ASPLER, Avraham Avi	(31) 201762489752 P
(11) EP3736372	NAOR, Isaac	(32) 25.04.2017
(21) EP20172823.5	(31) 201762549976 P	(33) United States of America
(47) 28.12.2022	(32) 25.08.2017	(51) E02B 17/02
(22) 04.05.2020	(33) United States of America	E21B 15/00
(54) DOOR ASSEMBLY FOR A LAUNDRY	(51) D06M 10/02	E21B 15/02
TREATING APPLIANCE	D06M 11/50	G01G 19/00

G01B 7/00	(87) JP2020014823	A47K 1/04
(11) EP3850159	08.10.2020	A47B 77/06
(21) EP19783159.7	(22) 31.03.2020	(11) EP3707315
(47) 28.12.2022	(54) WORK VEHICLE, AND WORK VEHICLE	(21) EP18812264.2
(87) NL2019050592	CONTROL DEVICE AND CONTROL	(47) 28.12.2022
19.03.2020	METHOD	(87) IB2018058709
(22) 12.09.2019	(73) Komatsu Ltd.	09.05.2019
(54) CONTROLLING MOVEMENT OF A	(72) TAKENO Akira	(22) 06.11.2018
CANTILEVER STRUCTURE OF AN	ENOMOTO Ryota	(54) VITRIFIED CERAMIC SINK AND
OFFSHORE PLATFORM	KODO Koshiro	PRODUCTION METHOD THEREOF
(73) GustoMSC B.V.	UCHIDA Naoki	(73) Salviato, Stefano
(72) BADENBERG, Theodorus Wilhelmus	SHIMANAKA Shinobu	(72) Salviato, Stefano
Maria	MIYAZAKI Shogo	(31) 201700125955
DE BRUIJN, René	(31) 2019072268	(32) 06.11.2017
(31) 2021625	(32) 04.04.2019	(33) Italy
(32) 13.09.2018	(33) Japan	(51) E04B 1/00
(33) Netherlands	(51) E02F 9/20	E04B 5/32
(51) E02D 1/02	B66F 9/24	(11) EP3737799
(11) EP3862489	(11) EP3677729	(21) EP19738325.0
(21) EP21155184.1	(21) EP18851226.3	(47) 28.12.2022
(47) 28.12.2022	(47) 28.12.2022	(87) US2019013021
(22) 04.02.2021	(87) JP2018030962	18.07.2019
(54) MEASURING DEVICE AND SYSTEM	07.03.2019	(22) 10.01.2019
FOR CHARACTERISING THE	(22) 22.08.2018	(54) THERMAL BREAK FOR CONCRETE
GEOMECHANICS OF SOIL, AND	(54) REMOVAL DETERMINATION DEVICE	SLABS
CORRESPONDING MEASUREMENT	AND CONTROL UNIT	(73) Jencol Innovations, LLC
METHOD	(73) Kawasaki Jukogyo Kabushiki Kaisha	(72) HARDY, Tim
(73) Sol Solution	(72) KONDO, Akihiro	(31) 201862615499 P
(72) BENZ NAVARRETE, Miguel	MURAOKA, Hideyasu	(32) 10.01.2018
BARBIER, Sébastien	NAKAYAMA, Yuki	(33) United States of America
(31) 2001137	SHIMIZU, Hiroaki	(51) E04B 1/19
(32) 05.02.2020	(31) 2017167465	E04B 1/58
(33) France	(32) 31.08.2017	E04B 1/344
(51) E02D 13/06	(33) Japan	(11) EP3604702
E02D 17/13	(51) E02F 9/22	(21) EP18774960.1
E02F 3/08	F16L 3/06	(47) 28.12.2022
E02F 3/20	E02F 3/47	(87) ES2018070217
(11) EP3819433	E02F 3/20	04.10.2018
(21) EP19207440.9	E02F 3/22	(22) 22.03.2018
(47) 28.12.2022	F16G 13/16	(54) LATTICE STRUCTURE
(22) 06.11.2019	(11) EP3887606	(73) Bethencourt Cravid, Manuel Fernando
(54) SOIL REMOVAL DEVICE AND METHOD	(21) EP19868229.6	(72) Bethencourt Cravid, Manuel Fernando
FOR CREATING A HOLE IN THE	(47) 28.12.2022	(31) 201730483
GROUND	(87) FR2019052812	(32) 30.03.2017
(73) BAUER Spezialtiefbau GmbH	04.06.2020	(33) Spain
(72) Semel, Matthias	(22) 26.11.2019	(51) E04B 1/21
Haidacher, Dominic	(54) HYDRAULIC MAT HAVING CLIP-ON	E04B 5/29
Wenzl, Patrik	LINKS	E04C 3/07
(51) E02F 3/36	(73) Soletanche Freyssinet	E04C 3/29
(11) EP3569772	(72) PIVERT, Laurent	E04C 3/293
(21) EP19166891.2	BERNASINSKI, Régis	E04B 1/24
(47) 28.12.2022	(31) 1871988	(11) EP3887614
(22) 02.04.2019	(32) 28.11.2018	(21) EP19817802.2
(54) WORK VEHICLE WITH LATCHING	(33) France	(47) 28.12.2022
CARRIER FOR ATTACHMENTS	(51) E03B 11/02	(87) FI2019050844
(73) Deere & Company	B65D 8/00	04.06.2020
(72) VILLARREAL, Diego Adrian	(11) EP2930276	(22) 27.11.2019
(31) 201815969696	(21) EP15160340.4	(54) STEEL BEAM AND SUPPORTING
(32) 02.05.2018	(47) 28.12.2022	ARRANGEMENT FOR SUPPORTING A
(33) United States of America	(22) 23.03.2015	STEEL BEAM AT A CONSOLE
(51) E02F 9/02	(54) PRESSURE TANK FOR DRINKING	(73) Peikko Group Oy
B60W 10/04	WATER	(72) SOIVIO, Jaakko
B60W 10/18	(73) Aqua Expert AB	(31) 20186015
B60W 10/10	(72) HÖJER, Martin	(32) 29.11.2018
B60W 30/18	(31) 1450355	(33) Finland
(11) EP3896232	(32) 27.03.2014	(51) E04B 1/58
(21) EP20784212.1	(33) Sweden	E04B 1/19
(47) 28.12.2022	(51) E03C 1/18	E04B 1/348

(11) EP3781755	A01K 1/00	(54) VERTICAL JOINT SYSTEM FOR A SURFACE COVERING PANEL
(21) EP20746105.4	B29C 45/00	(73) Välinge Innovation AB
(47) 28.12.2022	(11) EP3485104	(72) KELL, Richard William
(87) DE2020200051	(21) EP17737293.5	(31) 2014903452
14.01.2021	(47) 28.12.2022	(32) 29.08.2014
(22) 22.06.2020	(87) EP2017067831	(33) Australia
(54) COUPLING DEVICE FOR THE MODULAR CONSTRUCTION OF STRUCTURES OR OBJECTS	18.01.2018	(51) E04F 15/10
(73) Pacarada, Elvir	(22) 14.07.2017	B32B 38/00
Pacarada, Ernest	(54) A SEPARATION PANEL AND THE RELATED MANUFACTURING METHOD	B32B 37/12
(72) PACARADA, Elvir	(73) Paneltim N V	(11) EP3591139
(31) 102019210175	(72) DE MEYER, Stijn	(21) EP19177864.6
(32) 10.07.2019	DELTOUR, Filip	(47) 28.12.2022
(33) Germany	DELTOUR, Lode	(22) 11.11.2014
(51) E04B 2/96	(31) 16179578	(54) METHOD FOR PRODUCING A FLOORBOARD AND FLOORBOARD
E06B 7/12	(32) 14.07.2016	(73) Välinge Innovation AB
E06B 7/14	(33) European Patent Office (EPO)	(72) SCHULTE, Guido
(11) EP3626900	(51) E04D 13/076	(31) 102013113130
(21) EP19192560.1	E04D 13/10	(32) 27.11.2013
(47) 28.12.2022	H02S 40/12	(33) Germany
(22) 20.08.2019	H01L 31/02	(51) E04F 15/18
(54) INSULATING ELEMENT FOR A FACADE, WINDOW OR DOOR STRUCTURE AND FACADE STRUCTURE COMPRISING SUCH A INSULATING ELEMENT	B05B 1/20	(11) EP3656945
(73) Raico Bautechnik GmbH	B05B 1/30	(21) EP19207094.4
(72) Sepp, Stefan	B05B 9/04	(47) 28.12.2022
Kaufmann, Michael	B05B 12/08	(22) 05.11.2019
(31) 202018105465 U	(11) EP3770357	(54) DECOUPLING MAT AND FLOOR STRUCTURE IN PARTICULAR IN A BUILDING COMPRISING A DECOUPLING MAT
(32) 24.09.2018	(21) EP19187919.6	(73) Gebrüder Jaeger GmbH
(33) Germany	(47) 28.12.2022	(31) 202018106527 U
(51) E04B 5/38	(22) 23.07.2019	(32) 16.11.2018
E04B 5/04	(54) BUILDING WITH A DE-ICING DEVICE	(33) Germany
E04B 5/02	(73) Marcel Boschung AG	(51) E04F 19/04
(11) EP3719229	(72) Danisch, Matthias	(11) EP3885512
(21) EP20162681.9	(51) E04F 10/10	(21) EP21175277.9
(47) 28.12.2022	(11) EP3613916	(47) 28.12.2022
(22) 12.03.2020	(21) EP19192916.5	(22) 30.06.2016
(54) CONCRETE FLOOR PANEL, METHOD OF PRODUCTION OF SUCH PANEL AND FLOOR MADE OF THIS PANEL	(47) 28.12.2022	(54) SYSTEM FOR SECURING POWER AND COMMUNICATIONS CABLES AND ASSOCIATED HARDWARE WITHIN CROWN MOLDING
(73) Lis, Krzysztof	(22) 21.08.2019	(73) Hoffman, Jeremy P.
(72) Lis, Krzysztof	(54) DEVICE FOR THE POSITIONING OF MOVABLE DARKENING SLATS OF A SUN PROTECTION SYSTEM	Hoffman, James P.
(31) 42947219	(73) Gerhard Geiger GmbH & Co. KG	(72) Hoffman, Jeremy P.
(32) 01.04.2019	(72) Hoffmann, Reiner	Hoffman, James P.
(33) Poland	(31) 102018120338	(31) 201562186418 P
(51) E04C 2/08	(32) 21.08.2018	(32) 30.06.2015
E04F 13/12	(33) Germany	(33) United States of America
E04F 13/08	(51) E04F 11/18	(51) E04F 21/00
E04D 3/362	F16J 15/14	B28D 1/22
(11) EP3714114	(11) EP3591137	E04F 21/22
(21) EP17809000.7	(21) EP19168768.0	(11) EP3739146
(47) 28.12.2022	(47) 28.12.2022	(21) EP20173604.8
(87) IB2017001435	(22) 11.04.2019	(47) 28.12.2022
31.05.2019	(54) SEALING DEVICE, SYSTEM AND METHOD	(22) 08.05.2020
(22) 21.11.2017	(73) Pure Vista Ltd	(54) DEVICE TO SUPPORT THE LAYING OF FLOORING
(54) PLATEAU DE BARDAGE PROFILÉ COMPORTANT UN JOINT D'ÉTANCHÉITÉ, ET PROCÉDÉ DE RÉALISATION D'UN TEL PLATEAU	(72) NOBLE, Angus	(73) Müller, Franz-Josef
(73) ArcelorMittal	(31) 201810955	(72) Müller, Franz-Josef
(72) LOUMAIZIA, Philippe	(32) 04.07.2018	(31) 102019112863
HUET, Valérie	(33) United Kingdom	(32) 16.05.2019
PONCE-SOLANO, David	(51) E04F 15/02	(33) Germany
(51) E04C 2/20	E04F 13/08	(51) E04G 21/18
E04C 2/36	E04F 13/076	E04F 21/18
	E04F 15/10	(11) EP3121351
	E04C 2/38	
	(11) EP3567184	
	(21) EP19182019.0	
	(47) 28.12.2022	
	(22) 31.08.2015	

(21) EP15177923.8	(54) DUAL FUNCTION SECURITY/FIRE	(72) Arnold, Lorenz
(47) 28.12.2022	LOCKING MECHANISM FOR FIRE	(31) 202019106859 U
(22) 22.07.2015	RATED DEVICES	(32) 10.12.2019
(54) METHOD FOR DIVIDING A SECTION	(73) Schlage Lock Company LLC	(33) Germany
INTO IDENTICAL SUB-SECTIONS AND	(72) BLANCHARD, Walter T.	(51) E05F 1/00
DEVICE FOR CARRYING OUT THE	LEHNER, Jack R., Jr.	E05F 1/10
METHOD	(31) 201615342196	E05F 5/02
(73) STO SE & Co. KGaA	(32) 03.11.2016	A47B 88/467
(72) Kiefer, Armin	(33) United States of America	(11) EP3850176
Mensen, Dirk	(51) E05B 77/24	(21) EP19765996.4
Möller, Bodo	E05B 15/04	(47) 28.12.2022
(51) E04H 4/00	(11) EP3822435	(87) EP2019073850
A63B 69/00	(21) EP20207207.0	19.03.2020
(11) EP3721030	(47) 28.12.2022	(22) 06.09.2019
(21) EP18811830.1	(22) 12.11.2020	(54) DEVICE FOR MECHANICAL CLOSURE
(47) 28.12.2022	(54) MOTOR VEHICLE LOCK, IN	OF A MOVABLE FURNITURE ELEMENT
(87) EP2018083331	PARTICULAR MOTOR VEHICLE DOOR	AND METHOD FOR OPENING AND
13.06.2019	LOCK	CLOSING OF A MOVABLE FURNITURE
(22) 03.12.2018	(73) Kiekert AG	ELEMENT
(54) SURFING FACILITY	(72) Waldmann, Thomas	(73) Hettich-ONI GmbH & Co. KG
(73) Action Team Veranstaltungs GmbH	Rutenkolk, Annika	(72) STUKE, Kai Michael
(72) KLIMASCHEWSKI, Rainer	(31) 102019131018	BUSCHMANN, Alexander
(31) 17205359	(32) 18.11.2019	KLÜTER, Sören
(32) 05.12.2017	(33) Germany	(31) 102018122289
(33) European Patent Office (EPO)	(51) E05B 81/90	(32) 12.09.2018
(51) E05B 41/00	E05B 15/04	(33) Germany
E05C 9/02	E05B 81/06	(51) E05F 11/48
E05C 9/10	(11) EP3880913	(11) EP3500715
E05C 9/24	(21) EP19804624.5	(21) EP17761022.7
E05B 63/00	(47) 28.12.2022	(47) 28.12.2022
(11) EP3954846	(87) DE2019100938	(87) EP2017070270
(21) EP21180075.0	22.05.2020	22.02.2018
(47) 28.12.2022	(22) 31.10.2019	(22) 10.08.2017
(22) 17.06.2021	(54) MOTOR VEHICLE LOCK	(54) DEVICE FOR TENSIONING OF
(54) FITTING	(73) Kiekert AG	A BOWDEN CABLE OF A CABLE
(73) SIEGENIA-AUBI KG	(72) BENDEL, Thorsten	WINDOW LIFTER
(72) Bensmann, Marc	STURM, Christian	(73) Brose Fahrzeugteile SE & Co.
Zöller, Martin	(31) 102018128810	Kommanditgesellschaft, Bamberg
Drozd, Martin	(32) 16.11.2018	(72) STAHN, Armin
(31) 202020104691 U	(33) Germany	KREILE, Michael
(32) 13.08.2020	(51) E05D 3/10	TAUBMANN, Udo
(33) Germany	E05D 3/18	(31) 202016005232 U
(51) E05B 45/08	E05F 5/00	(32) 17.08.2016
G08B 13/08	E05D 15/40	(33) Germany
(11) EP3942129	E05D 15/58	(51) E05F 15/668
(21) EP20711935.5	(11) EP3737816	(11) EP3320168
(47) 28.12.2022	(21) EP19700645.5	(21) EP16723948.2
(87) EP2020057394	(47) 28.12.2022	(47) 28.12.2022
24.09.2020	(87) EP2019050317	(87) EP2016059511
(22) 18.03.2020	18.07.2019	12.01.2017
(54) DETECTOR FOR DETECTING THE	(22) 08.01.2019	(22) 28.04.2016
POSITION OF A DOOR FRAME PIN	(54) FURNITURE HINGE, FURNITURE	(54) SERVICING AND MONITORING
AND DOOR FRAME FITTED WITH	PANEL, AND FURNITURE BODY	SYSTEM FOR MONITORING A DOOR
SUCH A DETECTOR	(73) Hettich-ONI GmbH & Co. KG	MEMBER
(73) Somfy Activites SA	(72) FRYE, Stefan	(73) Fraba B.V.
(72) BEAU, Stéphane	SANDER, Felix	(72) QUAISER, Andre
SERVE, David	(31) 102018100672	LEESER, Christian
ROBIN, Serge	(32) 12.01.2018	(31) 102015111072
(31) 1902819	(33) Germany	(32) 08.07.2015
(32) 19.03.2019	(51) E05D 15/10	(33) Germany
(33) France	(11) EP3835525	(51) E06B 3/663
(51) E05B 65/10	(21) EP20208324.2	E06B 3/67
(11) EP3535467	(47) 28.12.2022	(11) EP3818232
(21) EP17866736.6	(22) 18.11.2020	(21) EP19733026.9
(47) 28.12.2022	(54) SLIDING DOOR FITTING AND	(47) 28.12.2022
(87) US2017059701	ASSOCIATED SLIDING DOOR	(87) EP2019066724
11.05.2018	ARRANGEMENT	09.01.2020
(22) 02.11.2017	(73) Häfele SE & Co KG	(22) 25.06.2019

(54) COVER ELEMENT FOR BUSBAR	(22) 12.01.2018	E21B 19/15
(73) Saint-Gobain Glass France	(54) AUTO-ADJUSTTABLE DIRECTIONAL	(11) EP3722552
(72) NEANDER, Marcus	DRILLING APPARATUS AND METHOD	(21) EP20162600.9
MARJAN, Christopher	(73) Baker Hughes Oilfield Operations, LLC	(47) 28.12.2022
(31) 18181596	(72) REN, Zhiguo	(22) 12.03.2020
(32) 04.07.2018	FU, Xu	(54) EARTH BORING DEVICE, TRANSFER
(33) European Patent Office (EPO)	BRAZIL, Stewart, Blake	DEVICE OF AN EARTH BORING
(51) E06B 3/67	WANG, Chengbao	DEVICE, CONTROL OF A TRANSFER
E06B 3/66	(31) 201710023313	DEVICE OF AN EARTH BORING
E06B 3/964	(32) 12.01.2017	DEVICE AND METHOD FOR
E06B 3/968	(33) China	CONTROLLING AN EARTH BORING
E06B 3/663	(51) E21B 17/01	DEVICE
(11) EP3918175	(11) EP3585972	(73) TRACTO-TECHNIK GmbH & Co. KG
(21) EP20703173.3	(21) EP18757607.9	(72) Berens, Niklas
(47) 28.12.2022	(47) 28.12.2022	Fischer, Sebastian
(87) EP2020052029	(87) US2018016894	(31) 102019002549
06.08.2020	30.08.2018	(32) 08.04.2019
(22) 28.01.2020	(22) 05.02.2018	(33) Germany
(54) PANE UNIT AND METHOD FOR	(54) SHEARABLE RISER SYSTEM AND	(51) E21B 23/04
PRODUCING AND/OR PROVIDING	METHOD	E21B 43/10
SUCH A PANE UNIT	(73) Dziekonski, Mitchell Z.	(11) EP3137723
(73) Glass Technology GmbH	(72) Dziekonski, Mitchell Z.	(21) EP15726243.7
(72) HARING, Heinz	(31) 201815885010	(47) 28.12.2022
(31) 102019130580	201762464031 P	(87) GB2015051270
102019102291	(32) 31.01.2018	05.11.2015
(32) 13.11.2019	27.02.2017	(22) 01.05.2015
30.01.2019	(33) United States of America	(54) MORPHABLE ANCHOR
(33) Germany	United States of America	(73) Schlumberger Technology B.V.
Germany	(51) E21B 17/01	(72) PATTON, Damien Gerard
(51) E06B 3/972	E21B 33/08	(31) 201407746
(11) EP3844363	E21B 17/08	(32) 02.05.2014
(21) EP19726125.8	E21B 21/08	(33) United Kingdom
(47) 28.12.2022	E21B 33/06	(51) E21B 29/02
(87) GB2019051388	E21B 19/00	E21B 41/00
05.03.2020	(11) EP2992166	E21B 7/00
(22) 20.05.2019	(21) EP14791006.1	E21B 7/18
(54) FRAME CONNECTOR	(47) 28.12.2022	(11) EP3740644
(73) Aanco (UK) Limited	(87) US2014036317	(21) EP18913322.6
(72) GAUNT, Ashley	06.11.2014	(47) 28.12.2022
(31) 201814022	(22) 01.05.2014	(87) US2018026589
(32) 29.08.2018	(54) LARGE-WIDTH/DIAMETER RISER	10.10.2019
(33) United Kingdom	SEGMENT LOWERABLE THROUGH A	(22) 06.04.2018
(51) E06B 5/16	ROTARY OF A DRILLING RIG	(54) SYSTEMS AND METHODS FOR
E06B 7/082	(73) Ameriforge Group Inc.	DOWNHOLE TUBULAR CUTTING
(11) EP3892810	(72) FRACZEK, Justin	(73) Halliburton Energy Services, Inc.
(21) EP20168810.8	KENNEDY, Roland	(72) BURKY, Thomas, Earl
(47) 28.12.2022	ARTHION, Randy	WALTERS, Darren, Phillip
(22) 08.04.2020	GIDMAN, Alex	(51) E21B 31/107
(54) FIRE SAFETY DOOR	(31) 201361819210 P	E21B 47/12
(73) Hodapp GmbH & Co. KG	(32) 03.05.2013	(11) EP2929124
(72) Feßler, Sascha	(33) United States of America	(21) EP14744230.5
Madlinger, Rolf	(51) E21B 17/02	(47) 28.12.2022
(51) E06B 9/52	E21B 47/13	(87) US2014044470
(11) EP3835539	E21B 41/00	31.12.2014
(21) EP19215877.2	(11) EP3601735	(22) 26.06.2014
(47) 28.12.2022	(21) EP17715996.9	(54) DOWNHOLE-ADJUSTING IMPACT
(22) 13.12.2019	(47) 28.12.2022	APPARATUS AND METHODS
(54) KIT FOR A FRAME	(87) GB2017050912	(73) Impact Selector International, LLC
(73) Büdenbender, Arnd	04.10.2018	(72) HRADECKY, Jason Allen
(51) E21B 7/06	(22) 31.03.2017	(31) 201361839455 P
E21B 23/12	(54) MONITORING WELL INSTALLATIONS	(32) 26.06.2013
E21B 17/16	(73) Metrol Technology Ltd	(33) United States of America
(11) EP3568563	(72) HUDSON, Steve Martin	(51) E21B 33/03
(21) EP18739304.6	JARVIS, Leslie David	E21B 17/02
(47) 28.12.2022	MAY, Axel	E21B 33/038
(87) US2018013530	(51) E21B 19/14	E21B 33/06
19.07.2018	E21B 7/04	E21B 17/08
	E21B 44/00	(11) EP3452687

- (21) EP17793038.5
(47) 28.12.2022
(87) US2017030090
09.11.2017
- (22) 28.04.2017
(54) BLOWOUT PREVENTER WITH WIDE
FLANGE BODY
(73) Schlumberger Technology B.V.
(72) GIVENS, Matthew D.
NAULT, Christopher J.
YENZER, Darrin L.
CUMMINS, Ray
(31) 201662330835 P
(32) 02.05.2016
(33) United States of America
- (51) E21B 33/03
E21B 33/068
(11) EP3551835
(21) EP17879820.3
(47) 28.12.2022
(87) US2017065831
21.06.2018
(22) 12.12.2017
(54) WELLHEAD SYSTEMS AND METHODS
(73) Cameron Technologies Limited
(72) NAVAR, Jose
NGUYEN, Kythu
NGUYEN, Dennis
VANDERFORD, Delbert
BUSCH, Jason
LIM, Haw, Keat
(31) 201662432808 P
(32) 12.12.2016
(33) United States of America
- (51) E21B 33/064
E21B 33/038
(11) EP3655622
(21) EP18835937.6
(47) 28.12.2022
(87) US2018042616
24.01.2019
(22) 18.07.2018
(54) OPEN WATER COILED TUBING
SEALING DEVICE
(73) Oceaneering International, Inc.
(72) CRAWFORD, Neil
ALMERICCO, Sam
COOK, John R.
FULKS, Caleb
(31) 201762534333 P
(32) 19.07.2017
(33) United States of America
- (51) E21B 33/127
E21B 43/10
E21B 23/06
(11) EP3803038
(21) EP19728296.5
(47) 28.12.2022
(87) US2019032953
12.12.2019
(22) 17.05.2019
(54) LINER INSTALLATION WITH
INFLATABLE PACKER
(73) Saudi Arabian Oil Company
Wireless Instrumentation Systems AS
(72) ARSALAN, Muhammad
CLAYBOROUGH, Henrik, Wanvik
FELLINGHAUG, Jarl, André
- (31) 201816001688
(32) 06.06.2018
(33) United States of America
- (51) E21B 41/00
E21B 7/04
E21B 7/06
(11) EP2992176
(21) EP14719775.0
(47) 28.12.2022
(87) EP2014058568
06.11.2014
(22) 28.04.2014
(54) METHOD AND SYSTEM FOR
DIRECTIONAL DRILLING
(73) Shell Internationale Research
Maatschappij B.V.
(72) BLANGÉ, Jan-Jette
MCCLURE, Paul Anthony
(31) 13165805
(32) 29.04.2013
(33) European Patent Office (EPO)
- (51) E21B 41/00
E21B 43/12
(11) EP3722554
(21) EP20165431.6
(47) 28.12.2022
(22) 25.03.2020
(54) UTILIZING ANALYTICAL MODELS
TO IDENTIFY WELLS IN WHICH
TO INSTALL PLUNGER LIFT FOR
IMPROVED WELL PRODUCTION
(73) Accenture Global Solutions Limited
(72) ADITYA, Susarla
VADREUV, Subrahmanyam
MISHRA, Rabinarayan
KARDKAL, Sangameshwar
K K, Anusha
SINGH, Jitender G.
(31) 201916382573
(32) 12.04.2019
(33) United States of America
- (51) E21B 41/00
E21B 47/13
(11) EP3601736
(21) EP18714356.5
(47) 28.12.2022
(87) GB2018050841
04.10.2018
(22) 28.03.2018
(54) POWERING DOWNHOLE DEVICES
(73) Metrol Technology Ltd
(72) HUDSON, Steve Martin
JARVIS, Leslie David
(31) PCT/GB2017/050912
(32) 31.03.2017
(33) World Intellectual Property Office (WIPO)
- (51) E21B 47/00
E21B 25/00
E21B 47/002
E21B 41/00
G01V 99/00
(11) EP3329091
(21) EP16831257.7
(47) 28.12.2022
(87) US2016044150
02.02.2017
(22) 27.07.2016
- (54) METHOD AND SYSTEM FOR
GENERATING A VIRTUAL CORE
(73) Geoquest Systems B.V.
(72) BIZE, Emmanuel
BIZE-FOREST, Nadege
LE NIR, Isabelle
LARONGA, Robert, J.
(31) 201562197917 P
(32) 28.07.2015
(33) United States of America
- (51) E21B 47/00
G01V 1/40
G01V 1/46
G01V 1/52
G10K 11/30
(11) EP3303767
(21) EP16804232.3
(47) 28.12.2022
(87) US2016035039
08.12.2016
(22) 31.05.2016
(54) ELEMENTAL ARTIFICIAL CELL FOR
ACOUSTIC LENS
(73) Baker Hughes Holdings LLC
(72) SWETT, Dwight, W.
(31) 201514727412
(32) 01.06.2015
(33) United States of America
- (51) E21B 47/125
E21B 33/134
E21B 47/13
(11) EP3601734
(21) EP17715995.1
(47) 28.12.2022
(87) GB2017050911
04.10.2018
(22) 31.03.2017
(54) MONITORING WELL INSTALLATIONS
(73) Metrol Technology Ltd
(72) HUDSON, Steve Martin
- (51) E21F 17/107
(11) EP3529461
(21) EP17790802.7
(47) 28.12.2022
(87) GB2017000153
26.04.2018
(22) 18.10.2017
(54) SEALING SYSTEM
(73) The Secretary of State for Defence
(72) THOMPSON, Duncan Godfrey Mervyn
(31) 201617611
(32) 18.10.2016
(33) United Kingdom
- (51) F01B 25/02
F04B 39/08
(11) EP3652417
(21) EP18745841.9
(47) 28.12.2022
(87) EP2018068723
17.01.2019
(22) 10.07.2018
(54) METHOD AND DEVICE FOR
EXPANDING A GAS WITH A
RECIPROCATING-PISTON MACHINE
(73) Burckhardt Compression AG
(72) VOSER, Alexandre
(31) 17180429
(32) 10.07.2017

(33) European Patent Office (EPO)	04.12.2014	(51) F01D 5/18
(51) F01C 19/00	(22) 26.05.2014	F01D 9/06
F01C 21/10	(54) ROTOR DISK BLADE FOR	F01D 5/14
F04C 2/344	TURBOMACHINE, TURBOMACHINE	F01D 5/28
F04C 15/00	ROTOR DISK, TURBOMACHINE AND	(11) EP3323988
(11) EP3521560	METHOD OF ASSEMBLY OF PLATES	(21) EP17200754.4
(21) EP19162589.6	ONTO A BLADE FOOT	(47) 28.12.2022
(47) 28.12.2022	(73) Safran Ceramics	(22) 09.11.2017
(22) 12.04.2016	Safran Aircraft Engines	(54) COOLING ASSEMBLY FOR A TURBINE
(54) PUMP	(72) LOCATELLI, David	AIRFOIL
(73) Schwäbische Hüttenwerke Automotive GmbH	ROUSSILLE, Clément	(73) General Electric Company
(72) Welte, Claus	HERRAIZ, Ivan	(72) DYSON, Thomas Earl
Meinig, Uwe	(31) 1354797	GETSINGER, Daniel
(31) 102015105933	(32) 28.05.2013	(31) 201615354072
(32) 17.04.2015	(33) France	(32) 17.11.2016
(33) Germany	(51) F01D 5/14	(33) United States of America
(51) F01D 5/08	F01D 9/02	(51) F01D 5/28
F01D 5/30	(11) EP3480429	F01D 9/04
F01D 5/32	(21) EP18204095.6	(11) EP3877628
F01D 11/00	(47) 28.12.2022	(21) EP19818233.9
(11) EP3847339	(22) 02.11.2018	(47) 28.12.2022
(21) EP19774140.8	(54) COMPOSITE FAN BLADE WITH	(87) FR2019052666
(47) 28.12.2022	LEADING EDGE SHEATH AND	14.05.2020
(87) FR2019051963	ENERGY ABSORBING INSERT	(22) 08.11.2019
12.03.2020	(73) Raytheon Technologies Corporation	(54) VANE ASSEMBLY COMPRISING
(22) 26.08.2019	(72) FOSTER, Larry	A PLATE FOR CENTERING AND
(54) ROTOR DISC WITH AXIAL RETENTION	(31) 201715803594	FASTENING
OF THE BLADES, ASSEMBLY	(32) 03.11.2017	(73) SAFRAN AIRCRAFT ENGINES
OF A DISC AND A RING, AND	(33) United States of America	(72) BOISSON, Alexandre Bernard Marie
TURBOMACHINE	(51) F01D 5/14	ORIEUX, Kaëlig Merwen
(73) SAFRAN AIRCRAFT ENGINES	F01D 9/04	(31) 1860376
(72) SULTANA, Patrick,Jean,Laurent	F02K 3/075	(32) 09.11.2018
GENILIER, Arnaud,Lasantha	F02C 9/20	(33) France
(31) 1857926	(11) EP3485146	(51) F01D 5/28
(32) 04.09.2018	(21) EP17837915.2	F01D 9/04
(33) France	(47) 28.12.2022	F01D 25/24
(51) F01D 5/08	(87) US2017040469	(11) EP3825518
F01D 9/06	11.05.2018	(21) EP20208571.8
F01D 25/12	(22) 30.06.2017	(47) 28.12.2022
F01D 25/14	(54) TURBOFAN ENGINE AND	(22) 19.11.2020
F02C 7/18	CORRESPONDING METHOD OF	(54) VANE RETENTION ASSEMBLY
F01D 11/00	OPERATING	(73) Raytheon Technologies Corporation
(11) EP3872302	(73) General Electric Company	(72) LILES, Howard J.
(21) EP21155992.7	(72) DIPIETRO, Anthony, Louis	DUBE, Bryan P.
(47) 28.12.2022	BREEZE-STRINGFELLOW, Andrew	FARRAR, Bryan H.
(22) 09.02.2021	DONALDSON, Richard, Mark	(31) 201916689529
(54) TURBINE WITH COOLED VANE AND	(31) 201615211787	(32) 20.11.2019
BLADE STAGES	(32) 15.07.2016	(33) United States of America
(73) Toshiba Energy Systems & Solutions Corporation	(33) United States of America	(51) F01D 5/30
(72) Tashima, Tsuguhisa	(51) F01D 5/18	F01D 11/00
Ono, Takahiro	F01D 9/06	F04D 29/32
Iwai, Shogo	B22F 5/00	(11) EP3851634
Nomura, Daisuke	B22F 5/04	(21) EP20208865.4
Takagi, Norikazu	(11) EP3819472	(47) 28.12.2022
Okuyama, Tomomi	(21) EP20205740.2	(22) 20.11.2020
Nishimura, Koki	(47) 28.12.2022	(54) SEAL ELEMENT FOR SEALING A
(31) 2020030825	(22) 04.11.2020	JOINT BETWEEN A ROTOR BLADE
(32) 26.02.2020	(54) AIRFOIL VANE, CORRESPONDING	AND A ROTOR DISK OF A TURBINE
(33) Japan	METHOD OF MAKING A BAFFLE	ENGINE
(51) F01D 5/14	AND METHOD OF ASSEMBLING	(73) Raytheon Technologies Corporation
F01D 5/28	A CERAMIC MATRIX COMPOSITE	(72) KNORTZ, Christopher J.
F01D 5/30	AIRFOIL VANE	(31) 202016747089
(11) EP3004554	(73) Raytheon Technologies Corporation	(32) 20.01.2020
(21) EP14731728.3	(72) FARRAR, Bryan H.	(33) United States of America
(47) 28.12.2022	SOBANSKI, Jon E.	(51) F01D 11/08
(87) FR2014051231	(31) 201916676949	F01D 5/22
	(32) 07.11.2019	(11) EP3615774
	(33) United States of America	(21) EP18725281.2

(47) 28.12.2022	(87) EP2018078376	(21) EP19890358.5
(87) FR2018051022	02.05.2019	(47) 28.12.2022
01.11.2018	(22) 17.10.2018	(87) JP2019046608
(22) 24.04.2018	(54) HEAT ENGINE	04.06.2020
(54) DEVICE FOR SEALING BETWEEN A ROTOR AND A STATOR OF A TURBINE ENGINE	(73) Spirax-Sarco Limited	(22) 28.11.2019
(73) Safran Aircraft Engines	(72) ZAHER, Obadah MILLER, Jeremy	(54) SADDLED VEHICLE
(72) JOUY, Baptiste, Marie, Aubin, Pierre	(31) 201717675	(73) HONDA MOTOR CO., LTD.
SICARD, Josselin, Luc, Florent	(32) 27.10.2017	(72) YOKOTANI Hitoshi
VERDIERE, Mathieu, Charles, Jean	(33) United Kingdom	KATSUTA Jumpei
VILLARD, Loïc, Fabien, François	(51) F01K 13/02	MORIYAMA Yuichi
(31) 1753535	F01K 13/00	(31) 2018226047
(32) 24.04.2017	F01K 25/08	(32) 30.11.2018
(33) France	(11) EP3647553	(33) Japan
(51) F01D 17/06	(21) EP18204344.8	(51) F01M 1/02
(11) EP3916204	(47) 28.12.2022	F01M 5/00
(21) EP21175454.4	(22) 05.11.2018	(11) EP3828394
(47) 28.12.2022	(54) SUPPLY OF AN ELECTROMECHANICAL POWER CONVERTER WITH ELECTRICAL ENERGY FROM A THERMODYNAMIC CYCLICAL PROCESS	(21) EP20209600.4
(22) 21.05.2021	(73) Orcan Energy AG	(47) 28.12.2022
(54) SPEED-CONTROLLED CONDITIONING VALVE FOR HIGH PRESSURE COMPRESSOR	(72) LANGER, Roy	(22) 24.11.2020
(73) Raytheon Technologies Corporation	ZIMMERMANN, Alexander	(54) AN ENGINE ASSEMBLY HAVING AN ENGINE AND A LUBRICATION SYSTEM FOR DELIVERING LUBRICATING OIL TO THE ENGINE
(72) KNORTZ, Christopher J.	SCHWALBE, Ulf	(73) FPT Motorenforschung AG
(31) 202016881687	(51) F01L 1/18	(72) BORG, Jonathan
(32) 22.05.2020	F01L 13/00	GSTREIN, Wolfgang
(33) United States of America	F01L 1/14	(31) 201900022197
(51) F01D 17/16	F02D 13/02	(32) 26.11.2019
F01D 25/12	F01L 1/26	(33) Italy
F01D 25/24	(11) EP3734029	(51) F01N 1/08
F04D 27/02	(21) EP17936586.1	F01N 1/02
F01D 5/18	(47) 28.12.2022	F01N 13/18
F04D 29/56	(87) CN2017119260	(11) EP3798430
(11) EP3760838	04.07.2019	(21) EP19806895.9
(21) EP20180935.7	(22) 28.12.2017	(47) 28.12.2022
(47) 28.12.2022	(54) VALVE ROCKER ARM ASSEMBLY, VARIABLE AIR DISTRIBUTION MECHANISM, AND ENGINE	(87) JP2019013577
(22) 18.06.2020	(73) Weichai Power Co., Ltd.	28.11.2019
(54) GAS TURBINE VARIABLE VANE SYSTEM AND METHOD	(72) ZHAN, Qiang	(22) 28.03.2019
(73) Raytheon Technologies Corporation	ZHU, Jibin	(54) MUFFLER FOR ENGINE
(72) WARD, Thomas W.	LI, Zhiqiang	(73) Marelli Corporation
(31) 201916502681	(51) F01L 1/344	(72) MINATO, Tsukasa
(32) 03.07.2019	(11) EP3663546	HARA, Masayuki
(33) United States of America	(21) EP20154274.3	SASAKI, Noriyoshi
(51) F01D 25/14	(47) 28.12.2022	SAITOU, Nobuhiro
F01D 25/24	(22) 22.07.2016	(31) 2018097581
(11) EP3445951	(54) MECHANICAL CAM PHASING SYSTEMS AND METHODS	(32) 22.05.2018
(21) EP17719451.1	(73) HUSCO Automotive Holdings LLC	(33) Japan
(47) 28.12.2022	(72) KUJAK, Michael	(51) F01N 3/021
(87) US2017027091	SCHMITT, Austin	F01N 11/00
26.10.2017	HEIDEMANN, Brian	(11) EP3953572
(22) 12.04.2017	WARDLE, Dean	(21) EP20717761.9
(54) TURBOCHARGER HEAT SHIELD	TEWES, Allen	(47) 28.12.2022
(73) BorgWarner Inc.	(31) 201562196115 P	(87) EP2020025164
(72) WILLIAMS, Jonathan	(32) 23.07.2015	15.10.2020
CHANDRAMOHANAN, Raj	(33) United States of America	(22) 07.04.2020
RACE, Robert	(51) F01M 1/02	(54) DETERMINING AN ESTIMATE OF SOOT LOAD IN A DIESEL PARTICULATE FILTER USING A RADIO FREQUENCY SENSOR
(31) 201615131788	F01M 1/12	(73) Perkins Engines Company Limited
(32) 18.04.2016	F01M 11/00	(72) EAGER, Antony, J.
(33) United States of America	F01M 11/02	(31) 201905247
(51) F01K 7/14	F01M 11/03	(32) 12.04.2019
F01K 7/36	F02B 61/02	(33) United Kingdom
F01K 9/02	B62J 31/00	(51) F01N 3/20
F01K 13/02	(11) EP3889018	F01N 3/025
(11) EP3704355		(11) EP3805533
(21) EP18789125.4		(21) EP20210555.7
(47) 28.12.2022		

(47) 28.12.2022	(21) EP19211113.6	(47) 28.12.2022
(22) 15.01.2020	(47) 28.12.2022	(87) US2018051371
(54) EXHAUST GAS HEATING ELEMENT	(22) 25.11.2019	21.03.2019
(73) Purem GmbH	(54) FUEL HEAT EXCHANGER WITH A	(22) 17.09.2018
(72) Gaiser, Gerd	BARRIER	(54) HYDRO TRANSITION SYSTEMS AND
(31) 102019101679	(73) Hamilton Sundstrand Corporation	METHODS OF USING THE SAME
(32) 24.01.2019	(72) RHODEN, William E.	(73) Emrgy Inc.
(33) Germany	KOWALSKI, John W.	(72) MORRIS, Emily A.
(51) F02B 75/32	(31) 201916370142	COCHRAN, Craig J.
F02B 75/04	(32) 29.03.2019	WHITE, Madeleine M.
F02D 15/02	(33) United States of America	CHARLES, Kirk William
F04B 17/05	(51) F02C 9/18	STOESSER, Thorsten
F16C 5/00	F02K 5/00	(31) 201762559258 P
(11) EP3296539	F02C 9/52	(32) 15.09.2017
(21) EP16792729.2	F02C 3/13	(33) United States of America
(47) 28.12.2022	(11) EP3767092	(51) F03D 1/06
(87) JP2016064060	(21) EP20185801.6	(11) EP3396155
17.11.2016	(47) 28.12.2022	(21) EP18169780.6
(22) 11.05.2016	(22) 14.07.2020	(47) 28.12.2022
(54) OIL PRESSURE GENERATING DEVICE	(54) MODULATED COMBUSTOR BYPASS	(22) 27.04.2018
AND CROSSHEAD ENGINE	FOR HYBRID IDLE	(54) ROTOR BLADE OF A WIND TURBINE,
(73) IHI Corporation	(73) Raytheon Technologies Corporation	METHOD FOR MANUFACTURING
(72) YAMADA, Takeshi	(72) TERWILLIGER, Neil	SAME, AND USE OF A TERMINATION
UMEMOTO, Yoshiyuki	PASCU, Victor	BRIDGE
(31) 2015096717	(31) 201916511284	(73) Siemens Gamesa Renewable Energy
(32) 11.05.2015	(32) 15.07.2019	Service GmbH
(33) Japan	(33) United States of America	(72) PREVITALI, Francesco
(51) F02C 3/14	(51) F02K 1/72	(31) 102017004058
F02C 7/36	(11) EP3626959	(32) 27.04.2017
F02C 7/143	(21) EP19184957.9	(33) Germany
F02K 3/06	(47) 28.12.2022	(51) F03D 1/06
(11) EP3722575	(22) 08.07.2019	B29C 70/44
(21) EP20174238.4	(54) THRUST REVERSER WITH BLOCKER	B29D 99/00
(47) 28.12.2022	DOOR FOLDING LINKAGE	B29C 70/48
(22) 25.09.2017	(73) Rohr Inc.	B29C 70/86
(54) REVERSE FLOW ENGINE	(72) GORMLEY, Timothy	B29L 31/08
ARCHITECTURE	(31) 201816029174	(11) EP3736436
(73) Pratt & Whitney Canada Corp.	(32) 06.07.2018	(21) EP19173547.1
(72) PLANTE, Ghislain	(33) United States of America	(47) 28.12.2022
VALOIS, Patrick	(51) F02M 65/00	(22) 09.05.2019
(31) 201615384655	G01B 11/25	(54) ROTOR BLADE FOR A WIND TURBINE
(32) 20.12.2016	B05B 12/08	(73) Siemens Gamesa Renewable Energy A/
(33) United States of America	(11) EP3721071	S
(51) F02C 6/08	(21) EP18789061.1	(72) GROOSS, Tina
F02C 7/26	(47) 28.12.2022	PAWAR, Ashish
F02C 9/18	(87) EP2018078014	(51) F03D 1/06
F02C 3/13	13.06.2019	B29C 73/10
F04D 27/02	(22) 15.10.2018	F03D 80/50
(11) EP3693572	(54) METHOD AND DEVICE FOR	B29C 73/12
(21) EP20152032.7	CHARACTERIZING THE INJECTION	(11) EP3712423
(47) 28.12.2022	BEHAVIOR OF AN INJECTION VALVE	(21) EP19164332.9
(22) 15.01.2020	FOR LIQUIDS	(47) 28.12.2022
(54) POWER ASSISTED ENGINE START	(73) Robert Bosch GmbH	(22) 21.03.2019
BLEED SYSTEM	(72) MAJER, Clemens	(54) METHOD OF REPAIRING A DAMAGED
(73) Raytheon Technologies Corporation	SANDER, Wolfgang	SPAR CAP OF A WIND TURBINE
(72) AMARI, Martin Richard	MUELDERS, Stefan	BLADE OF A WIND TURBINE
(31) 201916654202	BOERNER, Markus	(73) Siemens Gamesa Renewable Energy A/
201962801296 P	HARTUNG, Iris	S
(32) 16.10.2019	(31) 102017222234	(72) Girolamo, Donato
05.02.2019	(32) 08.12.2017	(51) F03D 1/06
(33) United States of America	(33) Germany	F03D 7/02
United States of America	(51) F03B 17/06	(11) EP3825546
(51) F02C 7/18	E02B 3/04	(21) EP20208698.9
F02C 7/224	E02B 9/00	(47) 28.12.2022
F02C 6/06	E02B 9/02	(22) 19.11.2020
F28D 7/00	E02B 9/04	(54) SYSTEM AND METHOD FOR
F28D 7/16	(11) EP3682107	INSTALLING AND SERVICING A
(11) EP3715603	(21) EP18855328.3	

JOINTED ROTOR BLADE OF A WIND TURBINE	B63B 35/44	(33) Japan
(73) General Electric Company	F03D 7/02	Japan
(72) Baker, Jonathon Paul	F03D 7/04	(51) F04C 18/16
(31) 201916687754	G05D 1/00	F04C 23/00
(32) 19.11.2019	(11) EP3548740	F04C 28/12
(33) United States of America	(21) EP16922973.9	(11) EP3623629
(51) F03D 1/06	(47) 28.12.2022	(21) EP19194857.9
F03D 80/30	(87) NO2016050245	(47) 28.12.2022
B29C 70/34	07.06.2018	(22) 02.09.2019
B29C 70/88	(22) 29.11.2016	(54) FLUID MACHINE
B32B 5/26	(54) CONTROL SYSTEM FOR A FLOATING WIND TURBINE STRUCTURE	(73) Fu Sheng Industrial Co., Ltd.
B32B 15/14	(73) HYWIND AS	(72) LIU, Yao-Chung
(11) EP3408532	(72) NIELSEN, Finn Gunnar	(31) 107132066
(21) EP17702577.2	SKAARE, Bjørn	(32) 12.09.2018
(47) 28.12.2022	(51) F04B 9/129	(33) Taiwan, Province of China
(87) EP2017051663	(11) EP3730786	(51) F04D 1/00
03.08.2017	(21) EP20169079.9	F04D 29/08
(22) 26.01.2017	(47) 28.12.2022	F04D 29/42
(54) ROTOR BLADE OF WIND TURBINE COMPRISING A SPAR CAP AND PRODUCTION METHOD	(22) 09.04.2020	F04D 29/62
(73) Wobben Properties GmbH	(54) RECIPROCATING FLUID PUMPS INCLUDING MAGNETS, AND RELATED ASSEMBLIES, SYSTEMS, AND METHODS	(11) EP3425203
(72) RUBNER, Florian	(73) White Knight Fluid Handling Inc.	(21) EP18174411.1
VINKE, Daniel	(72) Simmons, Tom	(47) 28.12.2022
(31) 102016219873	White, Geoffrey	(22) 25.05.2018
102016101663	Simmons, David M.	(54) PUMP CASING FOR A CENTRIFUGAL PUMP AND CENTRIFUGAL PUMP
(32) 12.10.2016	(31) 201962836551 P	(73) Sulzer Management AG
29.01.2016	(32) 19.04.2019	(72) Welschinger, Thomas
(33) Germany	(33) United States of America	Ugale, Nitin
Germany	(51) F04B 35/04	Johne, Torsten
(51) F03D 7/02	F04B 49/06	(31) 17179462
(11) EP3098441	F04B 49/20	(32) 04.07.2017
(21) EP15169430.4	F04C 28/08	(33) European Patent Office (EPO)
(47) 28.12.2022	F04D 27/02	(51) F04D 25/08
(22) 27.05.2015	(11) EP3771827	F04F 5/16
(54) PITCH SYSTEM LOCKING ARRANGEMENT	(21) EP20187851.9	F04F 1/00
(73) Siemens Gamesa Renewable Energy A/S	(47) 28.12.2022	(11) EP3875771
(72) Ebbesen, Henning	(22) 27.07.2020	(21) EP21160599.3
Laursen, Christian	(54) METHOD FOR OPERATING A COOLANT COMPRESSOR AND COOLANT COMPRESSOR SYSTEM	(47) 28.12.2022
(51) F03D 7/04	(73) Robert Bosch GmbH	(22) 04.03.2021
F03D 7/02	(72) Pfeil, Dennis	(54) BLOWER
(11) EP3724490	(31) 102019211503	(73) LG Electronics Inc.
(21) EP19702015.9	(32) 01.08.2019	(72) Jung, Jaehyuk
(47) 28.12.2022	(33) Germany	Kim, Kidong
(87) EP2019051059	(51) F04C 2/18	Choi, Seokho
01.08.2019	F03C 2/08	Park, Hyungho
(22) 16.01.2019	F04C 15/00	Kim, Hoojin
(54) METHOD AND APPARATUS FOR COOPERATIVE CONTROLLING WIND TURBINES OF A WIND FARM	F04C 2/08	Jung, Haein
(73) Siemens Gamesa Renewable Energy A/S	F01C 21/10	Lee, Changhoon
(72) KAISER, Markus	F04C 29/02	Kim, Yongmin
UDLUFT, Steffen	F04C 13/00	Choi, Chiyoung
WEBER, Marc Christian	(11) EP3048303	(31) 20200066280
EGEDAL, Per	(21) EP14845988.6	20200066279
ENEVOLDSEN, Peder Bay	(47) 28.12.2022	20200066278
HENTSCHEL, Alexander	(87) JP2014071332	20200057727
OTTE, Clemens	26.03.2015	20200026973
STERZING, Volkmar	(22) 12.08.2014	(32) 02.06.2020
(31) 18153414	(54) GEAR FLUID DEVICE	02.06.2020
(32) 25.01.2018	(73) Daikin Industries, Ltd.	14.05.2020
(33) European Patent Office (EPO)	(72) TSUZUKI, Katsunari	04.03.2020
(51) F03D 13/25	(31) 2014147177	(33) Korea (Republic)
B63B 21/50	2013193276	Korea (Republic)
	(32) 17.07.2014	Korea (Republic)
	18.09.2013	Korea (Republic)
		(51) F04D 27/00
		F02C 9/00
		(11) EP3891401

(21) EP19835458.1	E02F 9/22	(54) DIRECTIONAL CONTROL VALVE
(47) 28.12.2022	F15B 11/02	WITH A DAMPING SYSTEM, FOR
(87) FR2019052853	F15B 11/17	CONTROLLING THE SWING MOTOR
11.06.2020	E02F 3/42	OF A CONSTRUCTION MACHINE
(22) 29.11.2019	(11) EP3193024	(73) HYDAC Systems & Services GmbH
(54) METHOD AND DEVICE FOR	(21) EP15839308.2	(72) BIWERSI, Sascha Alexander
DETECTING A ROTATING STALL	(47) 28.12.2022	(31) 102016011860
ADVERSELY AFFECTING A TURBOJET	(87) JP2015061486	(32) 01.10.2016
ENGINE COMPRESSOR	17.03.2016	(33) Germany
(73) SAFRAN AIRCRAFT ENGINES	(22) 14.04.2015	(51) F15B 13/043
(72) HERDA, Soufiane	(54) HYDRAULIC CONTROL DEVICE FOR	(11) EP3536980
CABRET, Vincent	WORK MACHINE	(21) EP18461531.8
DJELASSI, Cedric	(73) Hitachi Construction Machinery Co., Ltd.	(47) 28.12.2022
(31) 1872254	(72) MORIKI, Hidekazu	(22) 08.03.2018
(32) 03.12.2018	IMURA, Shinya	(54) VALVE BODY FOR A SERVOVALVE
(33) France	ISHIKAWA, Kouji	(73) Hamilton Sundstrand Corporation
(51) F04D 29/30	YAMASHITA, Ryohei	(72) Sawicki, Piotr
F04D 29/28	(31) 2014187120	CIS, Marcin
(11) EP3763945	(32) 12.09.2014	(51) F15B 13/043
(21) EP18922482.7	(33) Japan	F16K 31/06
(47) 28.12.2022	(51) F15B 11/12	F16K 31/10
(87) JP2018022178	F15B 11/036	(11) EP3597937
19.12.2019	F15B 15/16	(21) EP18461583.9
(22) 11.06.2018	A01G 23/087	(47) 28.12.2022
(54) ROTOR AND CENTRIFUGAL	F15B 11/032	(22) 20.07.2018
COMPRESSOR COMPRISING ROTOR	F15B 11/20	(54) SERVO VALVE
(73) MITSUBISHI HEAVY INDUSTRIES	F15B 15/20	(73) Hamilton Sundstrand Corporation
ENGINE & TURBOCHARGER, LTD.	(11) EP3523541	(72) Korczynski, Marcin
(72) HAYASHI, Yoshihiro	(21) EP17857897.7	(51) F16B 5/02
FUJITA, Yutaka	(47) 28.12.2022	(11) EP3726068
OKA, Nobuhito	(87) FI2017050699	(21) EP20167313.4
TAKAHASHI, Koichi	12.04.2018	(47) 28.12.2022
NISHI, Hayato	(22) 05.10.2017	(22) 31.03.2020
(51) F04D 29/42	(54) ENERGY-WOOD GRAPPLE	(54) TOLERANCE COMPENSATING DEVICE
F04D 29/60	(73) TMK Energiakoura Oy	(73) Witte Automotive GmbH
F04D 29/62	(72) KOPONEN, Tenho	(72) Mosch, Gerhard
F04D 13/06	KOPONEN, Mika	Spickenheier, Klaus
(11) EP3299633	(31) 20165808	Radanovic, Vladimir
(21) EP16190681.3	20165753	(31) 102019110201
(47) 28.12.2022	(32) 26.10.2016	(32) 17.04.2019
(22) 26.09.2016	06.10.2016	(33) Germany
(54) CIRCULATOR PUMP SYSTEM	(33) Finland	(51) F16B 19/00
(73) Robert Bosch GmbH	Finland	F16B 43/00
(72) Bedin, Dario	(51) F15B 11/16	F16B 5/06
Mondin, Roberto	E02F 9/22	F16B 21/08
Melison, Marco	F02D 29/04	(11) EP3726069
Daglioz, Ozkan	(11) EP3611388	(21) EP19382295.4
Pekguzelsu, Mustafa	(21) EP18784619.1	(47) 28.12.2022
Onal, Yasar	(47) 28.12.2022	(22) 16.04.2019
Erdogan, Hasan Cosan	(87) JP2018014920	(54) FIXATION CLIP
Konuk, Gokhan	18.10.2018	(73) Illinois Tool Works Inc.
Kirgiz, Saim	(22) 09.04.2018	(72) Arteta, Javier
(51) F04D 29/66	(54) CONTROL DEVICE FOR HYDRAULIC	Cuervas, Francisco
F04D 27/00	MACHINE	Criado, Francisco
(11) EP3372843	(73) Yanmar Power Technology Co., Ltd.	(51) F16B 35/00
(21) EP18160224.4	(72) SHIROUZU, Takayuki	F16B 47/00
(47) 28.12.2022	MATSUYAMA, Hiroshi	(11) EP3754210
(22) 06.03.2018	ITANI, Masahiro	(21) EP20000259.0
(54) METHOD FOR OPERATING A	(31) 2017077859	(47) 28.12.2022
VENTILATION APPARATUS AND	(32) 10.04.2017	(22) 19.05.2018
CORRESPONDING VENTILATION	(33) Japan	(54) MOUNTING SYSTEM
APPARATUS	(51) F15B 13/04	(73) Ronnenberg, Dieter
(73) MAICO Elektroapparate-Fabrik GmbH	(11) EP3519701	Ortwein, Ernst-Georg
(72) Wiedmann, Frank	(21) EP17765078.5	(72) RONNENBERG, Dieter
(31) 102017204046	(47) 28.12.2022	ORTWEIN, Moritz
(32) 10.03.2017	(87) EP2017001033	ORTWEIN, Ernst-Georg
(33) Germany	05.04.2018	(31) 102017005100
(51) F15B 11/00	(22) 31.08.2017	

(32) 19.05.2017	03.09.2020	F16D 3/72
(33) Germany	(22) 25.02.2020	F16D 3/78
(51) F16B 43/00	(54) CHARGED ROLLER	(11) EP3707401
F02C 7/32	(73) NOK Corporation	(21) EP18811451.6
H02K 7/18	(72) UEMATSU Asami	(47) 28.12.2022
(11) EP3489532	IKEDA Atsushi	(87) EP2018080865
(21) EP18207233.0	SUZUKI Shogo	16.05.2019
(47) 28.12.2022	OURA Kosuke	(22) 12.11.2018
(22) 20.11.2018	HUKUOKA Satoshi	(54) COUPLING DEVICE
(54) WEAR RING FOR INTEGRATED DRIVE GENERATOR	SASAKI Kenji	(73) Süddeutsche Gelenkscheibenfabrik GmbH & Co. KG
(73) Hamilton Sundstrand Corporation	(31) 2019034888	Siemens Mobility GmbH
(72) HOCHSTETLER, Derek R.	(32) 27.02.2019	(72) HUBER, Armin
MARTIN, Ted A.	(33) Japan	OUDE KOTTE, Freerk Jacobus
JOHNSON, Duane C.	(51) F16C 17/04	EBERLER, Josef
LEMMERS, Glenn C. Jr.	F16C 17/26	(31) 102018007793
(31) 201715820673	F16C 23/04	102017010439
(32) 22.11.2017	B63H 5/125	(32) 02.10.2018
(33) United States of America	B63H 23/32	10.11.2017
(51) F16C 7/06	(11) EP3892872	(33) Germany
F16M 11/28	(21) EP20168637.5	Germany
F16B 2/24	(47) 28.12.2022	(51) F16D 1/10
(11) EP4010601	(22) 08.04.2020	(11) EP3472481
(21) EP20792518.1	(54) A PROPULSION UNIT	(21) EP17730780.8
(47) 28.12.2022	(73) ABB Oy	(47) 28.12.2022
(87) AT2020060356	(72) Pellinen, Petri	(87) EP2017064776
15.04.2021	Turunen, Ari	21.12.2017
(22) 07.10.2020	Siipilehto, Sakari	(22) 16.06.2017
(54) LOCKING ELEMENT FOR RELEASABLY LOCKING A ROTATIONAL MOVEMENT OF AN ADAPTER RELATIVE TO A BODY OF A PUSH-PULL ROD, AND PUSH-PULL ROD COMPRISING SUCH A LOCKING ELEMENT	(51) F16C 19/18	(54) TOOTHED SHAFT, METHOD FOR PRODUCING SAME, AND METHOD FOR PRODUCING A FUNCTIONAL SHAFT
(73) FACC AG	F16C 33/78	(73) thyssenkrupp Dynamic Components TecCenter AG
(72) KLEMBARA, Lukas	(11) EP3612743	thyssenkrupp AG
KAMMERER, Bernhard	(21) EP18716159.1	(72) MUSTER, Manfred
(31) 5017619 U	(47) 28.12.2022	CURLIC, Marko
(32) 07.10.2019	(87) EP2018057847	PFITSCHER, Aaron
(33) Austria	25.10.2018	(31) 102016111029
(51) F16C 11/06	(22) 28.03.2018	(32) 16.06.2016
A01D 75/00	(54) TRANSMISSION ASSEMBLY COMPRISING AXIAL TILT SEGMENTS	(33) Germany
A01D 34/13	(73) ZF Friedrichshafen AG	(51) F16D 11/14
(11) EP3642495	ZF Wind Power Antwerpen N.V.	F16D 28/00
(21) EP18738095.1	(72) KUTLUAY, Ümit	H02K 37/12
(47) 28.12.2022	KRIECKEMANS, Koen	H02P 8/42
(87) US2018037673	BERKMANS, Yvan	H02P 29/00
27.12.2018	GOOVAERTS, Michel	F16D 11/00
(22) 15.06.2018	BOGAERT, Roger	(11) EP3877665
(54) SICKLE BAR OF A COMBINE WITH DUST BOOT FOR A TIE ROD END OF THE SICKLE BAR AND A METHOD OF MAKING	OOMS, Maarten	(21) EP19808705.8
(73) Federal-Mogul Motorparts LLC	(31) 102017206680	(47) 28.12.2022
(72) SEIBERT, Trevor, G.	(32) 20.04.2017	(87) EP2019080686
(31) 201715629844	(33) Germany	14.05.2020
(32) 22.06.2017	(51) F16C 33/38	(22) 08.11.2019
(33) United States of America	F16C 33/46	(54) DOG CLUTCH ACTUATOR
(51) F16C 13/00	F16C 43/04	(73) BorgWarner Sweden AB
G03G 15/00	(11) EP3855035	(72) NILSSON, Peter
G03G 15/02	(21) EP21152783.3	(31) 1851393
G03G 15/08	(47) 28.12.2022	(32) 09.11.2018
G03G 15/16	(22) 21.01.2021	(33) Sweden
(11) EP3933220	(54) ROLLER BEARING CAGE RETENTION APPARATUS	(51) F16D 25/0638
(21) EP20762940.3	(73) Raytheon Technologies Corporation	F16D 25/12
(47) 28.12.2022	(72) NELSON, Alexander	(11) EP3726086
(87) JP2020007349	DUFFY, Kevin	(21) EP19212094.7
	(31) 202016785194	(47) 28.12.2022
	202062963876 P	(22) 28.11.2019
	(32) 07.02.2020	(54) HYDRAULIC CLUTCH ASSEMBLIES
	21.01.2020	(73) Hamilton Sundstrand Corporation
	(33) United States of America	(72) BORTOLI, Stephen Michael
	United States of America	
	(51) F16D 1/076	
	F16D 3/62	

FINKE, Aaron M.	(11) EP3783242	04.06.2020
FRANKLIN, Mark J.	(21) EP19193161.7	(22) 13.11.2019
(31) 201916388254	(47) 28.12.2022	(54) BRAKE PAD RETURN SPRING
(32) 18.04.2019	(22) 22.08.2019	PROVIDED WITH COLD WORKED
(33) United States of America	(54) DISC BRAKE FOR VEHICLES,	CLAMP
(51) F16D 27/118	ESPECIALLY FOR COMMERCIAL	(73) Hitachi Astemo France
F16D 27/09	VEHICLES, WITH AN	(72) KONGO KONDE, Ange
(11) EP3748185	ELECTROMECHANICAL ACTUATOR	LABARRE, Xavier
(21) EP19774919.5	(73) ZF CV Systems Global GmbH	ESNEE, Didier
(47) 28.12.2022	(72) Henning, Paul	BONNEC, Jean-Louis
(87) CN2019070222	Tomala, Bartlomiej	(31) 1872091
03.10.2019	(51) F16D 55/226	(32) 29.11.2018
(22) 03.01.2019	F16D 65/00	(33) France
(54) TOOTHED ELECTROMAGNETIC	F16D 65/092	(51) F16D 65/54
CLUTCH	F16D 55/00	(11) EP3864317
(73) Jing-Jin Electric Technologies Co., Ltd	(11) EP3797228	(21) EP19868190.0
(72) PEI, Zhengqiang	(21) EP18730651.9	(47) 28.12.2022
YU, Ping	(47) 28.12.2022	(87) FR2019052824
WANG, Xueliang	(87) EP2018063512	04.06.2020
LI, Jianwen	28.11.2019	(22) 27.11.2019
QIU, Chouwu	(22) 23.05.2018	(54) SELF-ADJUSTING BRAKE PAD
(31) 201810252107	(54) DIRECTIONAL ARROW ON THE	RETURN SPRING AND METHOD FOR
(32) 26.03.2018	BRAKE CARRIER	MANUFACTURING A DISC BRAKE
(33) China	(73) ZF CV Systems Europe BV	COMPRISING SUCH SPRINGS
(51) F16D 55/224	(72) REDEMANN, Bernward	(73) Hitachi Astemo France
B61H 5/00	SCHERER, Vitalij	(72) KONGO KONDE, Ange
(11) EP3916261	(51) F16D 55/228	ESNEE, Didier
(21) EP21170072.9	F16D 121/24	BONNEC, Jean-Louis
(47) 28.12.2022	F16D 121/04	LABARRE, Xavier
(22) 23.04.2021	F16D 125/28	CHAIGNEAU, Fabien
(54) BRAKE DEVICE AND GAP ADJUSTING	F16D 125/36	(31) 1872090
MECHANISM FOR BRAKE DEVICE	F16D 125/40	(32) 29.11.2018
(73) Nabtesco Corporation	F16D 125/64	(33) France
(72) OHNO, Tomoya	(11) EP3338000	(51) F16F 9/46
(31) 2020091658	(21) EP16756768.4	B60G 17/08
(32) 26.05.2020	(47) 28.12.2022	F16F 9/34
(33) Japan	(87) GB2016052582	F16F 9/44
(51) F16D 55/224	02.03.2017	(11) EP3631234
F16D 65/56	(22) 19.08.2016	(21) EP18722457.1
(11) EP3916262	(54) BRAKE CALIPER	(47) 28.12.2022
(21) EP21170073.7	(73) Liberty Vehicle Technologies Limited	(87) EP2018061133
(47) 28.12.2022	(72) THOMAS, Philip	29.11.2018
(22) 23.04.2021	BLACKWELL, Anthony	(22) 02.05.2018
(54) BRAKE DEVICE	MUTCH-MATHIESON, Daniel	(54) CONTROLLABLE VIBRATION DAMPER
(73) Nabtesco Corporation	PHILIPS, Anthony	(73) Kendrion (Villingen) GmbH
(72) OHNO, Tomoya	RIPPIN, Laurie	(72) BERGFELD, Björn
(31) 2020091657	SHEPHERD, Benjamin	ZELANO, Frank
(32) 26.05.2020	(31) 201514925	BRANDENBURG, Holger
(33) Japan	(32) 21.08.2015	(31) 102017111157
(51) F16D 55/2255	(33) United Kingdom	(32) 22.05.2017
F16D 65/00	(51) F16D 65/18	(33) Germany
F16D 65/18	F16D 55/2255	(51) F16G 15/12
F16D 65/56	F16D 121/24	F16G 13/12
(11) EP3751167	(11) EP3783243	(11) EP3861230
(21) EP19179446.0	(21) EP19193160.9	(21) EP19782595.3
(47) 28.12.2022	(47) 28.12.2022	(47) 28.12.2022
(22) 11.06.2019	(22) 22.08.2019	(87) EP2019076779
(54) DISC BRAKE WITH A RESET DEVICE	(54) ELECTROMECHANICAL BRAKE	09.04.2020
FOR A MOTOR VEHICLE AND MOTOR	ACTUATOR FOR A DISC BRAKE	(22) 02.10.2019
VEHICLE WITH A DISC BRAKE	(73) ZF CV Systems Global GmbH	(54) CHAIN, IN PARTICULAR A HEAVY
(73) ZF CV Systems Europe BV	(72) BEIER, Peter	DUTY HOIST CHAIN
(72) JUNGSMANN, Hans-Christian	HENNING, Paul	(73) Westdeutscher Drahtseil-Verkauf
STUMPF, Martin	TOMALA, Barolomiej	Dolezych GmbH & Co. KG
(51) F16D 55/2255	(51) F16D 65/54	(72) DOLEZYCH, Tim
F16D 121/24	(11) EP3867545	(31) 202018105723 U
F16D 65/00	(21) EP19829273.2	(32) 05.10.2018
F16D 125/32	(47) 28.12.2022	(33) Germany
	(87) FR2019052693	(51) F16H 1/08

(11) EP3728897	(11) EP3919778	HANNIMÄKI, Ari
(21) EP18808252.3	(21) EP21176549.0	VUOLLE, Mika
(47) 28.12.2022	(47) 28.12.2022	(31) 20185393
(87) EP2018081607	(22) 28.05.2021	(32) 27.04.2018
27.06.2019	(54) INTERNAL COMBUSTION ENGINE	(33) Finland
(22) 16.11.2018	AND STRADDLED VEHICLE	(51) F16H 57/04
(54) GEARWHEEL TRANSMISSION	(73) Yamaha Hatsudoki Kabushiki Kaisha	(11) EP3657045
(73) ZF Friedrichshafen AG	(72) HASHIMOTO, Hideaki	(21) EP19210523.7
(72) REISCH, Matthias	YAMAMOTO, Kensuke	(47) 28.12.2022
ERKENS, Christoph	IIDA, Kaichi	(22) 21.11.2019
LÜBKE, Eckhardt	MOTOWAKI, Takayuki	(54) DISPENSER OF LUBRICATING OIL
RATTAY, Martin	KAWAMOTO, Hironobu	FOR A MECHANICAL GEAR OF AN
SEEBERGER, Marc	MOTOMIYA, Yusuke	AIRCRAFT TURBINE ENGINE
(31) 102017223018	OCHIAI, Kazuki	(73) Safran Transmission Systems
(32) 18.12.2017	KUROKAWA, Shingo	(72) DI GIOVANNI, Jean-Charles, Michel,
(33) Germany	(31) 2020098411	Pierre
(51) F16H 3/00	(32) 05.06.2020	(31) 1871757
B60K 6/547	(33) Japan	(32) 23.11.2018
F16H 3/093	(51) F16H 25/20	(33) France
F16H 37/04	A47C 20/04	(51) F16H 57/04
(11) EP3911873	F16H 57/021	B60K 1/00
(21) EP20701432.5	F16H 1/22	F16H 57/02
(47) 28.12.2022	(11) EP3768992	F16H 57/037
(87) EP2020051198	(21) EP19713014.9	(11) EP3534042
23.07.2020	(47) 28.12.2022	(21) EP19156137.2
(22) 17.01.2020	(87) EP2019057269	(47) 28.12.2022
(54) DUAL CLUTCH TRANSMISSION	26.09.2019	(22) 08.02.2019
ELECTRIC HYBRID ARCHITECTURE	(22) 22.03.2019	(54) VEHICLE DRIVE DEVICE
FOR AGRICULTURAL VEHICLES	(54) ELECTRIC MOTOR-POWERED	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
(73) CNH Industrial Italia S.p.A.	FURNITURE DRIVE	AISIN AW CO., LTD.
(72) FORTE, Michelantonio	(73) DewertOkin Technology Group Co., Ltd.	(72) ITO, Eiji
BORGHI, Alberto	(72) MÜLLER, Sven	TAKAGI, Kiyonori
SEDONI, Enrico	(31) 102018106789	TOYA, Kazuki
(31) 201900000813	(32) 22.03.2018	KAWAMOTO, Yuki
(32) 18.01.2019	(33) Germany	JINNAI, Naoyu
(33) Italy	(51) F16H 25/20	(31) 2018022507
(51) F16H 3/091	A47C 20/04	(32) 09.02.2018
F16H 3/093	F16H 57/021	(33) Japan
F16H 3/097	F16H 1/22	(51) F16H 59/18
B60K 6/547	(11) EP3768993	F16H 59/36
(11) EP3889463	(21) EP19713015.6	F16H 59/48
(21) EP21157772.1	(47) 28.12.2022	F16H 59/50
(47) 28.12.2022	(87) EP2019057270	F16H 61/08
(22) 18.02.2021	26.09.2019	F16H 61/16
(54) HYBRID DRIVE MODULE	(22) 22.03.2019	F16H 61/682
(73) Getrag Ford Transmissions GmbH	(54) ELECTROMOTIVE FURNITURE DRIVE	F16H 61/10
(72) Nasdal, Roland	COMPRISING A GEAR ASSEMBLY	F16H 59/44
(31) 102020108833	HAVING AN INTERMEDIATE SHAFT	F16H 61/02
(32) 31.03.2020	(73) DewertOkin Technology Group Co., Ltd.	(11) EP3901493
(33) Germany	(72) MÜLLER, Sven	(21) EP20752825.8
(51) F16H 7/08	(31) 102018106788	(47) 28.12.2022
(11) EP3913256	(32) 22.03.2018	(87) JP2020004672
(21) EP21174800.9	(33) Germany	13.08.2020
(47) 28.12.2022	(51) F16H 55/12	(22) 06.02.2020
(22) 19.05.2021	F16H 55/17	(54) LEANING VEHICLE
(54) TENSIONING DEVICE FOR A BELT OR	F16H 55/30	(73) Yamaha Hatsudoki Kabushiki Kaisha
CHAIN TRANSMISSION	F16H 55/46	(72) OHATA Shinobu
(73) Grimme Landmaschinenfabrik GmbH &	F16B 4/00	(31) 2019019426
Co. KG	(11) EP3784928	(32) 06.02.2019
(72) Dr. Heilig, Ansgar	(21) EP19792427.7	(33) Japan
Sander, Malte	(47) 28.12.2022	(51) F16H 61/06
(31) 102020113511	(87) FI2019050335	(11) EP3945226
(32) 19.05.2020	31.10.2019	(21) EP21178254.5
(33) Germany	(22) 25.04.2019	(47) 28.12.2022
(51) F16H 7/08	(54) TRANSMISSION WHEEL AND A	(22) 08.06.2021
F02B 67/06	METHOD FOR ITS MOUNTING	(54) GEAR-SHIFT CONTROL DATA
F16G 13/04	(73) Andritz Oy	GENERATION METHOD, GEAR-SHIFT
F16H 7/18	(72) KAARAKAINEN, Pekka	

CONTROL DEVICE, AND GEAR-SHIFT CONTROL SYSTEM	(73) Raytheon Technologies Corporation	(54) THREADED CONNECTION FOR STEEL PIPE
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	(72) LAPERA, Joshua G.	(73) Nippon Steel Corporation
(72) FUJII, Kota	HAZZARD, Robert L.	Vallourec Oil and Gas France
TABATA, Atsushi	(31) 201816188599	(72) OKU, Yousuke
OKUDA, Koichi	(32) 13.11.2018	SUGINO, Masaaki
IMAMURA, Ken	(33) United States of America	(31) 2017216690
BUNAZAWA, Hideaki	(51) F16K 17/40	(32) 09.11.2017
SASAKI, Keita	F16L 37/088	(33) Japan
(31) 2020127658	F16L 37/413	(51) F16L 19/04
(32) 28.07.2020	(11) EP3259509	F16L 33/22
(33) Japan	(21) EP16752810.8	F16L 47/04
(51) F16J 9/14	(47) 28.12.2022	(11) EP3604883
(11) EP3589868	(87) US2016017130	(21) EP18775546.7
(21) EP18705823.5	25.08.2016	(47) 28.12.2022
(47) 28.12.2022	(22) 09.02.2016	(87) JP2018000798
(87) DE2018100098	(54) SYSTEM INCLUDING A TUBULAR FLUID CONDUIT AND A QUICK CONNECTOR FLUID COUPLING WITH INTEGRATED CHECK VALVE	(22) 15.01.2018
07.09.2018	(73) Oetiker NY, Inc.	(54) RESINOUS PIPE JOINT
(22) 06.02.2018	(72) KUJAWSKI, James, Jr.	(73) Nippon Pillar Packing Co., Ltd.
(54) PISTON RING	(31) 201615005685	(72) FUJII Makoto
(73) Federal-Mogul Burscheid GmbH	201562117635 P	IIDA Toshihide
(72) BÄRENREUTER, Dirk	(32) 25.01.2016	KOIKE Tomoyuki
KELLNER, Markus	(32) 01.03.2017	NARUO Motoaki
(31) 102017104221	(33) United States of America	(31) 2017066844
(32) 01.03.2017	United States of America	(32) 30.03.2017
(33) Germany	(51) F16K 31/08	(33) Japan
(51) F16J 15/3256	B05B 1/16	(51) F16L 21/02
F16J 15/3264	(11) EP3443247	F16L 21/00
(11) EP3891421	(21) EP17730958.0	F16L 21/03
(21) EP19818349.3	(47) 28.12.2022	F16L 25/00
(47) 28.12.2022	(87) NO2017050086	F16L 37/14
(87) US2019061376	19.10.2017	F16L 39/00
11.06.2020	(22) 07.04.2017	F16L 37/088
(22) 14.11.2019	(54) VALVE NOZZLE AND VALVE NOZZLE ASSEMBLY	(11) EP3577382
(54) CRANKSHAFT SEAL DESIGN	(73) Kilter AS	(21) EP18748248.4
(73) Caterpillar Inc.	(72) OVERSKEID, Øyvind	(47) 28.12.2022
(72) SABOTTA, Christian	BREVIK, Anders	(87) US2018016689
MASHAK, John M.	VATNE, Jan Kåre	09.08.2018
RICE, Scott	URDAL, Frode	(22) 02.02.2018
DAVIS, Tyler J.	UTSTUMO, Trygve	(54) SYSTEM WITH CONDUIT SQUEEZE RETAINER
O'CONNOR, Nicholas	(31) 20160612	(73) North American Pipe Corporation
(31) 201816209321	(32) 13.04.2016	(72) CLAPPER, Joshua, E.
(32) 04.12.2018	(33) Norway	YASHIN, Dmitry
(33) United States of America	(51) F16L 13/02	DEAN, Roy, L.
(51) F16J 15/34	(11) EP3705766	(31) 201815882726
F04B 39/00	(21) EP20160725.6	201815882696
F04B 53/00	(47) 28.12.2022	201762560045 P
(11) EP3270015	(22) 03.03.2020	201762459040 P
(21) EP16761457.7	(54) METHOD FOR CONNECTING COATED STEEL PIPE ENDS	(32) 29.01.2018
(47) 28.12.2022	(73) Mannesmann Line Pipe GmbH	29.01.2018
(87) JP2016054866	(72) SÖKER, Marcus	18.09.2017
15.09.2016	WEIL, Christoph	14.02.2017
(22) 19.02.2016	(31) 102019105367	02.02.2017
(54) FLOATING RING MECHANICAL SEAL	(32) 04.03.2019	(33) United States of America
(73) Nippon Pillar Packing Co., Ltd.	(33) Germany	United States of America
(72) SATO, Yuji	(51) F16L 15/04	United States of America
NISHI, Takashi	E21B 17/042	United States of America
(31) 2015045740	F16L 15/00	(51) F16L 23/08
(32) 09.03.2015	(11) EP3660378	F16L 23/00
(33) Japan	(21) EP18876740.4	F16B 2/06
(51) F16J 15/44	(47) 28.12.2022	F16L 41/00
F01D 11/00	(87) JP2018041148	F01N 13/18
F01D 11/02	16.05.2019	F01N 13/00
(11) EP3653915	(22) 06.11.2018	(11) EP3593024
(21) EP19208985.2		
(47) 28.12.2022		
(22) 13.11.2019		
(54) SEAL DISASSEMBLY AID		

(21) EP18763446.4	(22) 10.07.2020	(22) 18.03.2021
(47) 28.12.2022	(54) COMPACT AND DEMOUNTABLE FLUID CONNECTION DEVICE	(54) DEVICE FOR FILLING PRESSURISED GAS TANKS
(87) US2018021393	(73) A. Raymond et Cie	(73) L'Air Liquide, société anonyme pour l'Étude et l'Exploitation des procédés Georges Claude
13.09.2018	(72) GUIBERT, Kévin	(72) WERLEN, Etienne
(22) 07.03.2018	(31) 1907930	(72) DEVILLIERS, Clemence
(54) PIPE CLAMP AND PIPE JOINT WITH SENSOR ACCOMMODATION	(32) 15.07.2019	(31) 2003618
(73) Norma U.S. Holding LLC	(33) France	(32) 10.04.2020
(72) IGNACZAK, Brian T.	(51) F16L 47/04	(33) France
GEESE, Brian T.	(11) EP3521678	(51) F17C 9/00
BAUDOIN, Manuel	(21) EP17858018.9	(11) EP3614035
AKREMI, Belal	(47) 28.12.2022	(21) EP19187952.7
JAROSZ, Mateusz	(87) JP2017022142	(47) 28.12.2022
RUMBAUSKIENE, Tatjana	12.04.2018	(22) 11.11.2015
(31) 201762468056 P	(22) 15.06.2017	(54) NATURAL GAS RECOVERY SYSTEM AND VEHICLE COMPRISING SAID SYSTEM
(32) 07.03.2017	(54) RESIN PIPE FITTING	(73) Iveco S.p.A.
(33) United States of America	(73) Nippon Pillar Packing Co., Ltd.	(72) BASILE, Salvatore
(51) F16L 25/00	(72) FUJII, Makoto	D'EPIRO, Clino
H02G 3/06	MIYAMOTO, Masaki	(31) TO20140937
(11) EP4027046	FUJII, Tatsuya	(32) 11.11.2014
(21) EP22150052.3	IIDA, Toshihide	(33) Italy
(47) 28.12.2022	KOIKE, Tomoyuki	(51) F17C 9/02
(22) 03.01.2022	MAKIHATA, Shintaro	(11) EP3593030
(54) CORRUGATED-TUBE PROTECTIVE MEMBER	(31) 2016195427	(21) EP17713336.0
(73) Yazaki Corporation	2016195426	(47) 28.12.2022
(72) Takagi, Ayumu	(32) 03.10.2016	(87) FI2017050154
Nomoto, Takashi	03.10.2016	13.09.2018
Yoshimura, Katsuya	(33) Japan	(22) 08.03.2017
(31) 2021001214	Japan	(54) A LIQUEFIED GAS TANK ARRANGEMENT AND METHOD OF OPERATING A LIQUEFIED GAS TANK ARRANGEMENT
(32) 07.01.2021	(51) F16L 47/04	(73) Wärtsilä Finland Oy
(33) Japan	(11) EP3521679	(72) D'URSO, Emanuele
(51) F16L 27/04	(21) EP17858019.7	BOARO, Luca
(11) EP3907422	(47) 28.12.2022	(51) F17C 13/04
(21) EP21000124.4	(87) JP2017022143	F15B 20/00
(47) 28.12.2022	12.04.2018	F15B 1/08
(22) 04.05.2021	(22) 15.06.2017	(11) EP3665415
(54) TUBE CONNECTION WITH SPHERICAL FLARED FITTINGS	(54) RESIN PIPE FITTING	(21) EP18758832.2
(73) Noksel España, S.A.	(73) Nippon Pillar Packing Co., Ltd.	(47) 28.12.2022
(72) Carretero, Manuel Cortés	(72) FUJII, Makoto	(87) EP2018071644
(31) 202030779 U	MIYAMOTO, Masaki	21.02.2019
(32) 04.05.2020	FUJII, Tatsuya	(22) 09.08.2018
(33) Spain	IIDA, Toshihide	(54) SAFETY SYSTEM FOR A PRESSURE VESSEL
(51) F16L 37/088	KOIKE, Tomoyuki	(73) Hydac Technology GmbH
F16L 37/098	MAKIHATA, Shintaro	(72) KREUTZER, Thomas
F16L 37/091	(31) 2016195429	GÖTZ, Thomas
(11) EP3999765	2016195428	(31) 102017007628
(21) EP20750710.4	(32) 03.10.2016	(32) 12.08.2017
(47) 28.12.2022	03.10.2016	(33) Germany
(87) FR2020051254	(33) Japan	(51) F17C 13/04
21.01.2021	Japan	F17C 13/06
(22) 10.07.2020	(51) F16L 55/027	(11) EP3636984
(54) COMPACT AND DEMOUNTABLE FLUID CONNECTION DEVICE	F01N 1/00	(21) EP19199791.5
(73) A. Raymond et Cie	F01N 1/10	(47) 28.12.2022
(72) GUIBERT, Kévin	(11) EP3653918	(22) 26.09.2019
(31) 1907932	(21) EP19208300.4	(54) HOUSING FOR RECEIVING A GAS VALVE UNIT (GUV) FOR A VESSEL WITH A GAS DRIVE
(32) 15.07.2019	(47) 28.12.2022	(73) UNI-Geräte E. Mangelmann
(33) France	(22) 11.11.2019	Elektrotechnische Fabrik GmbH
(51) F16L 37/098	(54) FLUID PULSATION ATTENUATING ARRANGEMENT	(72) Schneider, Norbert
F16L 37/10	(73) Hamilton Sundstrand Corporation	
F16L 37/113	(72) ELDER, James	
(11) EP3999766	(31) 201816192412	
(21) EP20750709.6	(32) 15.11.2018	
(47) 28.12.2022	(33) United States of America	
(87) FR2020051252	(51) F17C 5/06	
21.01.2021	(11) EP3892910	
	(21) EP21163460.5	
	(47) 28.12.2022	

(31) 202018105532 U	F21S 41/147	(11) EP3872398
(32) 26.09.2018	F21S 41/176	(21) EP21158115.2
(33) Germany	F21S 41/20	(47) 28.12.2022
(51) F21K 9/232	F21S 41/32	(22) 19.02.2021
F21V 29/70	F21S 41/365	(54) LIGHT GUIDE AND LIGHTING SYSTEM WITH LIGHT GUIDE
F21Y 115/10	F21S 45/47	(73) Seat, S.A.
(11) EP3874196	F21S 41/19	(72) CORULL MASSANA, Ernest
(21) EP19787278.1	(11) EP3627037	MORÓN MORTE, Juan Carlos
(47) 28.12.2022	(21) EP18801581.2	PIQUÉ COSCONERA, Xavier
(87) EP2019078518	(47) 28.12.2022	POZO VALIENTE, Aitor
07.05.2020	(87) JP2018018778	GURMENDI CULLA, Mikel
(22) 21.10.2019	22.11.2018	(31) 202030162
(54) LED FILAMENT ARRANGEMENT WITH HEAT SINK STRUCTURE	(22) 15.05.2018	(32) 26.02.2020
(73) Signify Holding B.V.	(54) VEHICULAR LAMP	(33) Spain
(72) HIKMET, Rifat, Ata, Mustafa	(73) Stanley Electric Co., Ltd.	(51) F21V 3/04
VAN BOMMEL, Ties	(72) KOGURE Shinya	F21S 8/00
(31) 18203060	OWADA Ryotaro	G02B 5/02
(32) 29.10.2018	(31) 2017098967	G02B 5/08
(33) European Patent Office (EPO)	(32) 18.05.2017	(11) EP3322933
(51) F21S 41/143	(33) Japan	(21) EP15816660.3
F21S 41/151	(51) F21S 41/20	(47) 28.12.2022
B60Q 1/24	F21S 41/663	(87) EP2015002319
B60Q 1/32	F21V 5/00	19.01.2017
(11) EP3368370	F21V 5/02	(22) 19.11.2015
(21) EP16782051.3	F21W 102/00	(54) CHROMATIC REFLECTIVE UNIT
(47) 28.12.2022	F21Y 105/10	(73) CoeLux S.r.l.
(87) EP2016074708	F21Y 115/10	(72) DI TRAPANI, Paolo
04.05.2017	F21S 41/153	MAGATTI, Davide
(22) 14.10.2016	F21S 41/25	LOTTI, Antonio
(54) MOTOR VEHICLE AND DEVICE TO ILLUMINATE A VEHICLE SURROUNDINGS	F21S 41/275	(31) PCT/EP2015/001454
(73) Bayerische Motoren Werke Aktiengesellschaft	F21S 41/143	(32) 15.07.2015
(72) GOCKE, Tim	G02B 5/04	(33) World Intellectual Property Office (WIPO)
SIELER, Marcel	G02B 27/09	(51) F21V 9/00
(31) 102015220911	(11) EP3633263	F21V 9/30
(32) 27.10.2015	(21) EP18806604.7	G02B 5/20
(33) Germany	(47) 28.12.2022	F21S 2/00
(51) F21S 41/143	(87) JP2018019177	F21Y 115/30
F21S 41/255	29.11.2018	H01S 5/022
F21S 41/265	(22) 17.05.2018	G03B 21/20
F21S 41/151	(54) LAMP FITTING	G02F 1/13357
F21S 41/20	(73) Stanley Electric Co., Ltd.	F21Y 101/00
(11) EP3296622	(72) KAWAI, Ryosuke	F21V 29/502
(21) EP16792802.7	(31) 2017102482	(11) EP3572853
(47) 28.12.2022	(32) 24.05.2017	(21) EP17892529.3
(87) JP2016064380	(33) Japan	(47) 28.12.2022
17.11.2016	(51) F21S 41/37	(87) JP2017041469
(22) 13.05.2016	F21S 41/147	26.07.2018
(54) MOTOR-VEHICLE HEADLAMP	F21S 41/32	(22) 17.11.2017
(73) Ichikoh Industries, Ltd.	F21S 45/47	(54) OPTICAL COMPONENT AND LIGHTING DEVICE
(72) OKUBO Yasuhiro	(11) EP3889495	(73) NGK Insulators, Ltd.
(31) 2015098572	(21) EP19917016.8	(72) OKADA, Naotake
(32) 13.05.2015	(47) 28.12.2022	KONDO, Jungo
(33) Japan	(87) CN2019117369	YAMAGUCHI, Shoichiro
(51) F21S 41/16	03.09.2020	OHWADA, Iwao
B60Q 1/04	(22) 12.11.2019	(31) 2017006504
B60Q 11/00	(54) VEHICLE LAMP MODULE AND VEHICLE USING SAME	(32) 18.01.2017
F21S 41/265	(73) Hasco Vision Technology Co., Ltd.	(33) Japan
F21S 45/10	(72) ZHU, He	(51) F22B 31/00
F21V 5/00	QIU, Zhiping	F23D 14/78
F21V 7/30	LI, Cong	F22B 13/06
F21V 9/08	(31) 201910144380	(11) EP3913283
F21W 102/00	(32) 26.02.2019	(21) EP20760113.9
F21Y 115/30	(33) China	(47) 28.12.2022
F21S 41/27	(51) F21S 43/239	(87) JP2020000220
	F21S 43/245	27.08.2020
	F21V 8/00	(22) 08.01.2020
	G02B 6/00	

(54) BOILER	(72) Schmöller, Anton	LEHNERT, Frank
(73) Mitsubishi Heavy Industries Marine Machinery & Equipment Co., Ltd.	(31) 102017221459	NIEDERHAUSER, Urs
(72) TERAHARA, Takazumi	(32) 29.11.2017	THUILLARD, Marc
MORI, Masafumi	(33) Germany	(31) 2512019
NAKAMURA, Ryuta	(51) F24D 17/02	(32) 01.03.2019
AMANO, Hideki	F24D 19/10	(33) Switzerland
(31) 2019030836	F24H 4/02	(51) F24F 13/14
(32) 22.02.2019	F25B 13/00	F16K 1/22
(33) Japan	F25B 7/00	(11) EP3091301
(51) F23R 3/00	F24F 3/06	(21) EP15197190.0
F23R 3/28	F24F 5/00	(47) 28.12.2022
(11) EP3822541	(11) EP3561396	(22) 01.12.2015
(21) EP20206289.9	(21) EP19167588.3	(54) ASSEMBLY FOR VOLUME FLOW
(47) 28.12.2022	(47) 28.12.2022	REGULATION IN AN AIR CANAL, IN
(22) 06.11.2020	(22) 07.04.2011	WHICH A FLOW OF AIR CREATED BY
(54) INTEGRATED FRONT PANEL FOR A BURNER OF A GAS TURBINE ENGINE	(54) HOT WATER SUPPLY APPARATUS FOR COMBINED USE OF AIR CONDITIONER	VENTILATION UNITS OR THE LIKE EXISTS
(73) General Electric Company	(73) LG Electronics Inc.	(73) Naber Holding GmbH & Co. KG
(72) BOLANOS CHAVERRI, Felipe	(72) WOO, Hyongsuk	(72) Friebel, Lennart Simon
PALYS, Dariusz Oliwiusz	HA, Jongchul	Naber, Hans-Joachim
THEUER, Andre	(31) 20100110008	(31) 102015104520
DE JONGE, Jeffrey	(32) 05.11.2010	(32) 25.03.2015
(31) 201916680550	(33) Korea (Republic)	(33) Germany
(32) 12.11.2019	(51) F24F 1/56	(51) F24F 13/20
(33) United States of America	F24F 13/20	F24F 13/02
(51) F23R 3/28	(11) EP3587941	F16L 9/17
F23R 3/36	(21) EP17897333.5	F16J 15/14
F23R 3/34	(47) 28.12.2022	(11) EP2917655
(11) EP3845812	(87) JP2017006908	(21) EP13837965.6
(21) EP20204212.3	30.08.2018	(47) 28.12.2022
(47) 28.12.2022	(22) 23.02.2017	(87) US2013060113
(22) 27.10.2020	(54) OUTDOOR UNIT FOR AIR CONDITIONER	20.03.2014
(54) GAS TURBINE COMBUSTOR WITH DUAL PRESSURE PREMIXING NOZZLES	(73) Mitsubishi Electric Corporation	(22) 17.09.2013
(73) General Electric Company	(72) KURINO, Hayato	(54) DUCT WITH PAINT SEALANT
(72) BERRY, Jonathan Dwight	KUBONO, Toshiyuki	(73) Gray, Martin E.
(31) 201916731207	(51) F24F 11/00	(72) Gray, Martin E.
(32) 31.12.2019	E04H 1/04	(31) 201261701945 P
(33) United States of America	(11) EP3626899	(32) 17.09.2012
(51) F24B 1/193	(21) EP18197588.9	(33) United States of America
F23H 1/06	(47) 28.12.2022	(51) F24H 1/43
F23H 1/08	(22) 28.09.2018	F24H 9/02
F23B 20/00	(54) MULTI-LAYER BUILDING WITH SECURE ACCESS AND ESCAPE ROUTES IN CASE OF FIRE	F28D 7/02
F23B 60/00	(73) Bernhard, Regli	F28D 21/00
(11) EP3862633	(72) Bernhard, Regli	F28F 1/02
(21) EP20196578.7	(31) 11332018	B21D 53/02
(47) 28.12.2022	(32) 20.09.2018	B21D 53/06
(22) 17.09.2020	(33) Switzerland	(11) EP3770528
(54) FIREWOOD COMBUSTION STAND FOR OPEN AND CLOSED FIREPLACES, METHOD OF MANUFACTURE AND USE	(51) F24F 11/00	(21) EP20189876.4
(73) Schmid, Christian Peter	F24F 11/30	(47) 28.12.2022
(72) Schmid, Christian Peter	F24F 11/74	(22) 11.07.2017
(31) 1332020	F24F 11/32	(54) HEAT EXCHANGER FOR BOILER
(32) 05.02.2020	F24F 11/38	(73) Valmex S.p.A.
(33) Switzerland	G01F 25/00	(72) BAMBOZZI, Benedetta
(51) F24C 15/10	(11) EP3702686	CHIAVETTI, Flavio
F24C 15/20	(21) EP20156664.3	PUCCIARELLI, Renzo
F24C 11/00	(47) 28.12.2022	SPURI, Claudio
(11) EP3492819	(22) 11.02.2020	(31) 201600074665
(21) EP18207792.5	(54) A METHOD OF MONITORING AN AIR FLOW IN A ZONE OF AN HVAC SYSTEM, AND CORRESPONDING CONTROL SYSTEM AND COMPUTER PROGRAM	(32) 18.07.2016
(47) 28.12.2022	(73) Belimo Holding AG	(33) Italy
(22) 22.11.2018	(72) SCHMIDLIN, Peter	(51) F24S 25/12
(54) HOB SYSTEM		F24S 30/425
(73) Bruckbauer, Wilhelm		F24S 50/00
		F24S 50/20
		F24S 50/80
		(11) EP3892938
		(21) EP21174126.9
		(47) 28.12.2022
		(22) 31.05.2016

(54) METHOD FOR PREDICTIVE CONTROL OF THE ORIENTATION OF A SOLAR TRACKER	30.04.2020	(51) F27B 5/14
(73) NEXTracker, Inc.	(22) 30.05.2019	F27B 5/16
(72) Blanc, Philippe	(54) HEAT PUMP SYSTEM AND AIR CONDITIONER	F27D 1/00
Crucifix, Adrien	(73) HEFEI MIDEA HEATING & VENTILATING EQUIPMENT CO., LTD.	F27D 11/02
Arliaud, Jérôme	GD Midea Heating & Ventilating Equipment Co., Ltd.	(11) EP3911905
(31) 1555063	(72) LUO, Bin	(21) EP20708217.3
(32) 03.06.2015	YANG, Kun	(47) 28.12.2022
(33) France	ZHAN, Lei	(87) PL2020000001
(51) F24S 60/30	LIU, Shuqing	23.07.2020
F24S 10/75	TAN, Zhijun	(22) 10.01.2020
F24S 90/10	(31) 201811253993	(54) A PIT TYPE FURNACE FOR VACUUM CARBURIZATION OF WORKPIECES
F24S 10/30	(32) 24.10.2018	(73) Seco/Warwick S.A.
(11) EP3282207	(33) China	(72) FUJAK, Wieslaw
(21) EP17184833.6	(51) F25D 23/02	OSINSKI, Radoslaw
(47) 28.12.2022	F25D 23/04	PIECHOWICZ, Lukasz
(22) 04.08.2017	F25D 27/00	OLEJNIK, Józef
(54) IMPROVED NATURAL CIRCULATION SYSTEM INTEGRATED WITHIN A SOLAR COLLECTOR AND ASSEMBLY COMPRISING A PLURALITY OF NATURAL CIRCULATION SYSTEMS PROVIDED INSIDE SAID SOLAR COLLECTOR	F25D 25/02	KORECKI, Maciej
(73) Cordivari S.r.l.	(11) EP3614081	(31) 42859019
(72) DI GIANNATALE, Daniele	(21) EP19200363.0	(32) 15.01.2019
CORDIVARI, Ercole	(47) 28.12.2022	(33) Poland
(31) 201600084082	(22) 19.01.2011	(51) F27B 9/02
(32) 10.08.2016	(54) REFRIGERATOR	F27B 9/40
(33) Italy	(73) LG Electronics Inc.	F27D 17/00
(51) F25B 9/00	(72) Lee, Eun Joo	H05K 3/34
C09K 5/04	Lee, Hang Bok	F27B 9/12
F24F 3/00	(31) 20100008977	F27D 9/00
(11) EP3430325	20100008978	(11) EP3844448
(21) EP17716133.8	(32) 01.02.2010	(21) EP19765614.3
(47) 28.12.2022	01.02.2010	(47) 28.12.2022
(87) EP2017055863	(33) Korea (Republic)	(87) US2019048370
21.09.2017	Korea (Republic)	05.03.2020
(22) 13.03.2017	(51) F25D 23/06	(22) 27.08.2019
(54) TEST CHAMBER	F16L 59/06	(54) A COOLING SYSTEM FOR A REFLOW FURNACE
(73) Weiss Technik GmbH	F16B 11/00	(73) Illinois Tool Works Inc.
(72) HAACK, Christian	(11) EP3583367	(72) YAN, Shenghu
KLEE, Gerald	(21) EP17896908.5	SHU, Peng
(31) 102016204378	(47) 28.12.2022	ZHANG, Dong
(32) 16.03.2016	(87) US2017017802	(31) 201810993604
(33) Germany	23.08.2018	(32) 29.08.2018
(51) F25B 13/00	(22) 14.02.2017	(33) China
F25B 5/02	(54) MULTI-LAYER ENCAPSULATION SYSTEM FOR JOINT SEALING OF VACUUM INSULATED CABINETS	(51) F28F 1/32
F25B 6/04	(73) Whirlpool Corporation	(11) EP3903058
F25B 41/00	(72) DEKA, Lakshya J.	(21) EP18836928.4
F25B 41/24	LIU, Hua	(47) 28.12.2022
(11) EP3792568	NAIK, Abhay	(87) JP2018048612
(21) EP18918248.8	(51) F26B 5/00	02.07.2020
(47) 28.12.2022	F26B 3/06	(22) 28.12.2018
(87) JP2018018168	F26B 5/08	(54) FIN USING IN A HEAT EXCHANGER, HEAT EXCHANGER HAVING THE FINS, AND REFRIGERATION CYCLE DEVICE HAVING THE HEAT EXCHANGER
14.11.2019	F26B 17/22	(73) DAIKIN INDUSTRIES, LTD.
(22) 10.05.2018	F26B 17/24	Daikin Europe N.V.
(54) REFRIGERATION CYCLE DEVICE	F26B 11/16	(72) VAN DER VEEN, Dennis
(73) Mitsubishi Electric Corporation	(11) EP3385651	(51) F28F 7/02
(72) MATSUDA, Takuya	(21) EP18173985.5	(11) EP3625511
(51) F25B 13/00	(47) 28.12.2022	(21) EP18726053.4
F25B 47/02	(22) 05.10.2017	(47) 28.12.2022
F25B 41/20	(54) CENTRIFUGAL PELLET DRYER	(87) EP2018025137
(11) EP3680578	(73) Maag Gala, Inc.	22.11.2018
(21) EP19801655.2	(72) SHORTT, Louis Cody	(22) 11.05.2018
(47) 28.12.2022	THRASHER, Jr., Richard Borland	(54) DEVICE FOR COOLING, HEATING OR TRANSFERRING HEAT
(87) CN2019089266	MORRIS, Kerry Patrick	(73) Degner GmbH&Co. KG
	(31) 201615293990	(72) DEGNER, Helmut
	(32) 14.10.2016	OSTAPENKO, Wladimir
	(33) United States of America	

(31) 102017004671	(21) EP20161656.2	B21B 38/00
(32) 16.05.2017	(47) 28.12.2022	(11) EP3859271
(33) Germany	(22) 06.03.2020	(21) EP21154383.0
(51) F28G 1/16	(54) IMPROVED SIGNAL CONDITIONING	(47) 28.12.2022
F28G 15/02	CIRCUIT FOR USE WITH ACTIVE	(22) 29.01.2021
F28G 15/04	MAGNETIC BEARINGS	(54) APPARATUS AND METHOD FOR
(11) EP3957944	(73) Waukesha Bearings Limited	MEASURING A SHAPED WIRE
(21) EP21181855.4	(72) Davies, Nigel	OBJECT
(47) 28.12.2022	Leung, Chiu	(73) Microstudio S.r.l.
(22) 25.06.2021	(31) 201903224	(72) CALAFA', Giampaolo
(54) FLEXIBLE TUBE CLEANING LANCE	(32) 08.03.2019	(31) 202000001957
POSITIONER FRAME APPARATUS	(33) United Kingdom	(32) 31.01.2020
(73) Stoneage, Inc.	(51) G01B 7/06	(33) Italy
(72) HASTEY, Matthew B.	G01B 5/00	(51) G01B 11/25
MONTOYA, Cody R.	(11) EP2905573	G01B 5/00
SCHNEIDER, Joseph A.	(21) EP15152292.7	H04N 5/232
(31) 202016996689	(47) 28.12.2022	H04N 5/33
(32) 18.08.2020	(22) 23.01.2015	H05B 47/18
(33) United States of America	(54) Method for electrically controlling a	G06T 7/521
(51) F41J 3/00	gauge stand and gauge stand for holding	G06V 10/145
F41J 3/02	a measurement gauge	G06V 20/64
(11) EP3473968	(73) Helmut Fischer GmbH Institut für	G06V 40/16
(21) EP17211057.9	Elektronik und Messtechnik	H05B 47/10
(47) 28.12.2022	(72) Fischer, Helmut	H04N 13/00
(22) 29.12.2017	(31) 102014101577	(11) EP3672223
(54) DART GAME APPARATUS AND DART	(32) 07.02.2014	(21) EP19792981.3
GAME SYSTEM	(33) Germany	(47) 28.12.2022
(73) Phoenixdarts Co., Ltd.	(51) G01B 7/30	(87) CN2019083854
(72) HONG, Sang Uk	G01D 5/14	31.10.2019
(31) 20170134890	G01D 5/244	(22) 23.04.2019
(32) 17.10.2017	(11) EP3640579	(54) DATA PROCESSING METHOD,
(33) Korea (Republic)	(21) EP18817574.9	ELECTRONIC DEVICE, AND
(51) F41J 3/00	(47) 28.12.2022	COMPUTER-READABLE STORAGE
F41J 3/02	(87) JP2018017714	MEDIUM
(11) EP3473969	20.12.2018	(73) GUANGDONG OPPO MOBILE
(21) EP17211067.8	(22) 08.05.2018	TELECOMMUNICATIONS CORP., LTD.
(47) 28.12.2022	(54) ROTATION DETECTION DEVICE	(72) ZHOU, Haitao
(22) 29.12.2017	(73) Alps Alpine Co., Ltd.	TAN, Guohui
(54) TARGET DART GAME APPARATUS	(72) KIKUCHI, Shinji	GUO, Ziqing
AND DART GAME SYSTEM WITH	NAKAYAMA, Keisuke	TAN, Xiao
ILLUMINATION UNIT	(31) 2017117451	(31) 201810401326
(73) Phoenixdarts Co., Ltd.	(32) 15.06.2017	201810402999
(72) HONG, Sang Uk	(33) Japan	201810402998
(31) 20170134894	(51) G01B 11/24	(32) 28.04.2018
(32) 17.10.2017	B24B 9/14	28.04.2018
(33) Korea (Republic)	G02C 13/00	28.04.2018
(51) G01B 5/02	G01B 11/25	(33) China
G01B 5/08	(11) EP3663708	China
G01B 21/04	(21) EP18842012.9	China
G01B 3/00	(47) 28.12.2022	(51) G01C 19/00
(11) EP3913321	(87) JP2018021700	B60W 40/076
(21) EP21174662.3	07.02.2019	B60W 40/11
(47) 28.12.2022	(22) 06.06.2018	B60W 40/112
(22) 19.05.2021	(54) EYEGLASS FRAME SHAPE	B60W 40/12
(54) EQUIPMENT FOR THE RESET,	MEASUREMENT DEVICE AND LENS	B60W 40/13
CALIBRATION AND MEASUREMENT	PROCESSING DEVICE	B62J 99/00
OF MEASURING INSTRUMENTS	(73) Nidek Co., Ltd.	G01P 21/00
(73) G.V. Societa' a Responsabilita' Limitata	(72) TAKII, Michihiro	(11) EP3441718
(72) BALBONI, Gabriele	MIZUKOSHI, Kunihito	(21) EP17779222.3
(31) 202000011857	ISHII, Tomoya	(47) 28.12.2022
(32) 21.05.2020	TAKEICHI, Kyoji	(87) JP2017014422
(33) Italy	(31) 2017148366	12.10.2017
(51) G01B 7/02	(32) 31.07.2017	(22) 06.04.2017
G01D 5/20	(33) Japan	(54) ORIENTATION ESTIMATION DEVICE
G01B 7/14	(51) G01B 11/24	AND TRANSPORT EQUIPMENT
F16C 32/04	G01B 11/245	(73) Yamaha Hatsudoki Kabushiki Kaisha
(11) EP3705839	G06T 7/55	(72) TAKAHASHI, Go
	B21C 51/00	FUJII, Takahiro

(31) 2016076545	(51) G01D 18/00	RAVEDATI, Paolo
(32) 06.04.2016	A61B 6/00	(31) 201800007022
(33) Japan	A61B 6/03	(32) 09.07.2018
(51) G01C 21/20	G12B 13/00	(33) Italy
H04W 4/021	G01T 1/164	(51) G01G 19/08
G01C 21/00	G01T 7/00	(11) EP3875922
H04W 4/33	(11) EP3532803	(21) EP21170239.4
(11) EP3794312	(21) EP16916375.5	(47) 28.12.2022
(21) EP19735083.8	(47) 28.12.2022	(22) 17.07.2014
(47) 28.12.2022	(87) US2016052457	(54) A METHOD OF WEIGHING A LOAD
(87) US2019037592	22.03.2018	(73) J.C. Bamford Excavators Limited
02.01.2020	(22) 19.09.2016	(72) Ellis, Luke Francis
(22) 18.06.2019	(54) FLEXIBLE APPLICATION OF CROSS-	Argentieri, Luciano
(54) INDOOR LOCATION-BASED SERVICE	CALIBRATION FOR QUANTITATIVE	Brooks, Richard
(73) Microsoft Technology Licensing, LLC	FUNCTIONAL IMAGING	(31) 201313376
(72) KARLSSON, Börje Felipe Fernandes	(73) Siemens Medical Solutions USA, Inc.	(32) 26.07.2013
SHU, Yuanchao	(72) BHATTACHARYA, Manojeeet	(33) United Kingdom
DU, Ruogu	DING, Xinhong	(51) G01G 19/14
JIANG, Yi	(51) G01F 1/37	G01G 19/00
(31) 201810714698	G01F 1/42	(11) EP3760987
(32) 29.06.2018	G01F 15/18	(21) EP19184134.5
(33) China	(11) EP3132233	(47) 28.12.2022
(51) G01C 21/36	(21) EP15716699.2	(22) 03.07.2019
(11) EP3584538	(47) 28.12.2022	(54) METHOD AND DEVICE FOR LOAD
(21) EP19178223.4	(87) US2015024460	MONITORING
(47) 28.12.2022	22.10.2015	(73) Koskisen Oy
(22) 25.06.2015	(22) 06.04.2015	(72) Strauch, Andreas
(54) GENERATING TURN-BY-TURN	(54) FLOW METER	(51) G01H 3/04
DIRECTION PREVIEWS	(73) Dieterich Standard, Inc.	G01H 13/00
(73) Google LLC	(72) VERHAAGEN, Donald Robert	G01S 7/521
(72) SHERIDAN, Alan	STEFFL, Chad Andrew	H04R 3/00
FILIP, Daniel Joseph	SHATTELL, Fred	G01S 15/931
(31) 201514640524	HERING, Mike	G01S 7/52
201414317706	COLEMAN, Darrel	(11) EP3576428
(32) 06.03.2015	SNYDER, Paul	(21) EP18744293.4
27.06.2014	REHN, Joe	(47) 28.12.2022
(33) United States of America	(31) 201414497556	(87) JP2018000268
United States of America	201461980176 P	02.08.2018
(51) G01C 21/36	(32) 26.09.2014	(22) 10.01.2018
(11) EP3359918	16.04.2014	(54) ULTRASONIC APPARATUS WITH AN
(21) EP17701203.6	(33) United States of America	ANOMALY DETERMINING UNIT
(47) 28.12.2022	United States of America	(73) Murata Manufacturing Co., Ltd.
(87) US2017012118	(51) G01F 1/74	(72) WATANABE, Kosuke
20.07.2017	G01F 1/84	NAKAO, Motoyasu
(22) 04.01.2017	G01F 15/00	(31) 2017011157
(54) SYSTEMS AND METHODS FOR	(11) EP3710791	(32) 25.01.2017
ORIENTING A USER IN A MAP	(21) EP17804408.7	(33) Japan
DISPLAY	(47) 28.12.2022	(51) G01H 9/00
(73) Google LLC	(87) US2017061255	E21B 43/01
(72) SCHPOK, Joshua S.	16.05.2019	E21B 47/0228
(31) 201614995385	(22) 13.11.2017	E21B 47/0224
(32) 14.01.2016	(54) FLOWING VAPOR PRESSURE	E21B 47/07
(33) United States of America	APPARATUS AND RELATED METHOD	E21B 47/135
(51) G01D 5/20	(73) Micro Motion, Inc.	G01K 11/32
G01D 5/22	(72) HOLLINGSWORTH, Justin Craig	G01V 1/22
(11) EP3919870	BUTTNER, Marc Allan	G01V 1/40
(21) EP21177399.9	LEAPLEY, Jason Alan	(11) EP3665449
(47) 28.12.2022	(51) G01F 3/10	(21) EP17764141.2
(22) 02.06.2021	G01F 15/14	(47) 28.12.2022
(54) POSITION SENSOR WITH VARYING	(11) EP3594637	(87) US2017021667
OUTPUT SLOPE	(21) EP19184645.0	14.09.2017
(73) Renesas Electronics America Inc.	(47) 28.12.2022	(22) 09.03.2017
(72) QAMA, Gentjan	(22) 05.07.2019	(54) MEASURING DOWNHOLE
KERNHOF, Jürgen	(54) VOLUMETRIC FLOW METER	TEMPERATURE BY COMBINING DAS/
(31) 202016890340	(73) ELBI International S.p.A.	DTS DATA
(32) 02.06.2020	(72) PARIS, Maurizio	(73) ConocoPhillips Company
(33) United States of America	DAVI, Massimo	(72) JIN, Ge
	RENDESI, Maurizio	SWAN, Herbert W.

ROY, Baishali	(73) Sensirion AG	(47) 28.12.2022
KRUEGER, Kyle R.	(72) WINGER, MARTIN	(87) DE2019100710
(31) 201715453216	VON WALDKIRCH, Marc	28.05.2020
201662305777 P	STREIFF, Matthias	(22) 06.08.2019
201662305758 P	LOCHBAUM, Alexander	(54) METHOD FOR DETERMINING
(32) 08.03.2017	LEUTHOLD, Jürg	LUBRICANT PROPERTIES
09.03.2016	(51) G01M 15/12	(73) Schaeffler Technologies GmbH & Co. KG
09.03.2016	F02D 35/02	(72) BERG, Franziska
(33) United States of America	F02D 41/22	(31) 102018129457
United States of America	F02D 41/28	(32) 22.11.2018
United States of America	(11) EP3644038	(33) Germany
(51) G01H 9/00	(21) EP19020590.6	(51) G01N 15/02
G01H 1/00	(47) 28.12.2022	G01N 15/00
A61B 5/05	(22) 22.10.2019	(11) EP3353527
A61B 5/024	(54) METHOD FOR PREDICTING THE	(21) EP16766597.5
A61B 5/11	MAINTENANCE OF COMPONENTS OF	(47) 28.12.2022
A61B 5/00	A COMBUSTION ENGINE BY MEANS	(87) GB2016052786
G08C 17/02	OF A STRUCTURE-BORNE SOUND	30.03.2017
(11) EP3396338	SENSOR	(22) 09.09.2016
(21) EP18162925.4	(73) IAV GmbH	(54) PARTICLE CHARACTERISATION
(47) 28.12.2022	(72) Lebendt, Thomas	(73) Malvern Panalytical Limited
(22) 20.03.2018	Friedrich, Ingo	(72) CORBETT, Jason
(54) VIBRATION SENSOR	Mollik, Robert	MALM, Alex
(73) NXP B.V.	(31) 102018126501	(31) 201610718
(72) KERSELAERS, Anthony	(32) 24.10.2018	201516853
GOMMÉ, Liesbeth	(33) Germany	(32) 20.06.2016
(31) 201715582093	(51) G01N 1/06	23.09.2015
(32) 28.04.2017	(11) EP3625533	(33) United Kingdom
(33) United States of America	(21) EP18810995.3	United Kingdom
(51) G01J 1/10	(47) 28.12.2022	(51) G01N 15/02
(11) EP2850402	(87) EP2018082578	G01N 27/02
(21) EP13727278.7	06.06.2019	(11) EP3855158
(47) 28.12.2022	(22) 26.11.2018	(21) EP21153049.8
(87) FR2013051040	(54) MICROTOME AND METHOD FOR	(47) 28.12.2022
21.11.2013	POSITIONING A MICROTOME OBJECT	(22) 22.01.2021
(22) 13.05.2013	HEAD	(54) UNIFORMITY PROPERTY
(54) ESTIMATION OF DRIFT IN A SOLAR	(73) Leica Biosystems Nussloch GmbH	ACQUISITION APPARATUS, METHOD
RADIATION SENSOR	(72) HEINRICH, Mark-Oliver	OF ACQUIRING UNIFORMITY
(73) Commissariat à l'Énergie Atomique et	(31) 102017128491	PROPERTY AND NON-TRANSITORY
aux Énergies Alternatives	(32) 30.11.2017	COMPUTER-READABLE RECORDING
(72) LESPINATS, Sylvain	(33) Germany	MEDIUM
LE PIVERT, Xavier	(51) G01N 3/40	(73) Hioki E.E. Corporation
(31) 1254377	G01N 3/42	(72) NAKAYAMA, Naoto
(32) 14.05.2012	C12M 1/42	SHIOIRI, Akihiro
(33) France	(11) EP3602000	KAWAMURO, Yuki
(51) G01J 3/28	(21) EP18715211.1	(31) 2020009424
G01J 3/26	(47) 28.12.2022	2020009423
(11) EP3633334	(87) FR2018050670	(32) 23.01.2020
(21) EP18198547.4	27.09.2018	23.01.2020
(47) 28.12.2022	(22) 20.03.2018	(33) Japan
(22) 04.10.2018	(54) DEVICE FOR MECHANICALLY	Japan
(54) SPECTRAL SENSOR FOR	CHARACTERIZING AN ELEMENT OF	(51) G01N 17/00
MULTISPECTRAL IMAGING	INTEREST SUCH AS AN OOCYTE	F25B 40/02
(73) IMEC vzw	(73) Centre National de la Recherche	F25B 40/00
(72) Tack, Nicolaas	Scientifique	F25B 41/20
Spooren, Nick	Universite De Franche Comte	F25B 49/02
Vereecke, Bart	Ecole Nationale Supérieure de	(11) EP3511695
(51) G01J 3/42	Mecanique et Des Microtechniques	(21) EP19156106.7
G01J 3/427	(72) ABADIE, Joel	(47) 28.12.2022
G01N 21/35	GAN, Racha	(22) 01.11.2016
G01J 5/08	PIAT, Emmanuel	(54) TEST CHAMBER
(11) EP3368871	(31) 1752330	(73) Weiss Technik GmbH
(21) EP15812935.3	(32) 21.03.2017	(72) HAACK, Christian
(47) 28.12.2022	(33) France	TEICHMANN, Johannes
(87) CH2015000172	(51) G01N 11/14	(51) G01N 21/17
01.06.2017	G01N 33/30	G01N 33/00
(22) 26.11.2015	(11) EP3884261	(11) EP3483589
(54) INFRARED DEVICE	(21) EP19761725.1	(21) EP18202100.6

(47) 28.12.2022	G01B 11/245	MATSUMOTO Masahiro
(22) 23.10.2018	G01N 21/95	ASANO Satoshi
(54) PHOTOACOUSTIC GAS SENSOR SYSTEM AND METHOD	(11) EP3743713	ONOSE Yasuo
(73) Infineon Technologies AG	(21) EP19743320.4	(31) 2013052603
(72) TUMPOLD, David	(47) 28.12.2022	(32) 15.03.2013
GLACER, Christoph	(87) US2019000003	(33) Japan
(31) 201715791132	01.08.2019	(51) G01N 25/72
(32) 23.10.2017	(22) 25.01.2019	(11) EP3680651
(33) United States of America	(54) VEHICLE SURFACE SCANNING SYSTEM	(21) EP20150555.9
(51) G01N 21/27	(73) Vehicle Service Group, LLC	(47) 28.12.2022
G01N 21/47	(72) GRAUZINIS, Aivaras	(22) 07.01.2020
B60W 40/06	WILLEMS, Geert	(54) THERMOGRAPHIC SYSTEM FOR DETECTING WATER IN A FAN CASE
G01N 21/3554	ADELMAN, Richard	(73) General Electric Company
G01N 21/359	FINKLE, Robert	(72) NALLADEGA, Venkata Vijayaraghava
(11) EP3686576	(31) 201862709723 P	GEIGER, Charles Joseph
(21) EP18859726.4	(32) 26.01.2018	BEWLAY, Bernard Patrick
(47) 28.12.2022	(33) United States of America	(31) 201916244962
(87) JP2018023852	(51) G01N 23/04	(32) 10.01.2019
28.03.2019	G01N 23/087	(33) United States of America
(22) 22.06.2018	G01N 23/18	(51) G01N 27/327
(54) ROAD-SURFACE-DETECTION DEVICE AND VEHICLE	(11) EP3546930	G01N 27/31
(73) Yamaha Hatsudoki Kabushiki Kaisha	(21) EP17873854.8	(11) EP3832296
(72) OOHORI, Noriko	(47) 28.12.2022	(21) EP19840187.9
MOROMOTO, Hiroyuki	(87) JP2017041255	(47) 28.12.2022
(31) 2017180075	31.05.2018	(87) CN2019084254
(32) 20.09.2017	(22) 16.11.2017	30.01.2020
(33) Japan	(54) RADIATION DETECTION DEVICE, RADIATION IMAGE ACQUISITION DEVICE, AND RADIATION IMAGE ACQUISITION METHOD	(22) 25.04.2019
(51) G01N 21/31	(73) Hamamatsu Photonics K.K.	(54) METHOD FOR PREPARING BIOSENSING FILM, BIOSENSING FILM AND MONITORING DEVICE
G01N 27/22	(72) SUYAMA Toshiyasu	(73) Sinocare Inc.
G01N 33/24	ONISHI Tatsuya	(72) GAO, Zhiqiang
A01G 25/16	(31) 2016229359	(31) 201810846227
G01N 27/403	(32) 25.11.2016	(32) 27.07.2018
G01N 27/30	(33) Japan	(33) China
G01N 21/359	(51) G01N 23/18	(51) G01N 27/447
(11) EP3791161	B23K 31/12	B01D 57/02
(21) EP19725292.7	B23K 37/053	C07K 1/26
(47) 28.12.2022	G01N 23/04	G01N 27/403
(87) EP2019061870	B23K 101/06	(11) EP2503328
14.11.2019	(11) EP3779416	(21) EP12160935.8
(22) 08.05.2019	(21) EP19784726.2	(47) 28.12.2022
(54) DEVICES AND METHODS FOR IN SITU SOIL ANALYSIS	(47) 28.12.2022	(22) 23.03.2012
(73) STENON GMBH	(87) JP2019015535	(54) ANALYSIS APPARATUS AND ANALYSIS METHOD
(72) GRABBERT, Niels	17.10.2019	(73) ARKRAY, Inc.
ROTH, Dominic	(22) 10.04.2019	(72) Shiraki, Yasunori
(31) 102018111336	(54) JOINT CONNECTION METHOD FOR LONG PIPES, AND METHOD FOR PRODUCING COILED TUBING WITH JOINTS	Matsumoto, Daisuke
(32) 11.05.2018	(73) NIPPON STEEL CORPORATION	Adachi, Genki
(33) Germany	(72) TSUTO, Akira	Nakayama, Yusuke
(51) G01N 21/51	KAITANI, Hiroyuki	(31) 2012043555
G01N 21/15	(31) 2018077855	2011064411
(11) EP3571490	(32) 13.04.2018	(32) 29.02.2012
(21) EP17700666.5	(33) Japan	23.03.2011
(47) 28.12.2022	(51) G01N 25/18	(33) Japan
(87) EP2017050901	(11) EP2975385	(51) G01N 29/04
26.07.2018	(21) EP14764983.4	G01N 29/44
(22) 17.01.2017	(47) 28.12.2022	(11) EP3625558
(54) TURBIDIMETER DEVICE, SLUDGE THICKENING ARRANGEMENT, AND METHOD FOR DETERMINING THE TURBIDITY OF A LIQUID SAMPLE WITH A TURBIDIMETER DEVICE	(87) JP2014050394	(21) EP18720553.9
(73) Hach Lange GmbH	18.09.2014	(47) 28.12.2022
(72) SIMON, Jochen	(22) 14.01.2014	(87) EP2018060098
HAHN, Harald	(54) GAS SENSOR	22.11.2018
BITSCHNAU, Hans-Christian	(73) Hitachi Astemo, Ltd.	(22) 19.04.2018
(51) G01N 21/88	(72) NAKANO Hiroshi	(54) ULTRASONIC DETECTION SYSTEM AND METHOD
		(73) Metso Outotec Finland Oy

(72) HÄLLEVALL, Niclas JONSSON, Cecilia	201462029199 P 201461987726 P	(11) EP3260865 (21) EP17172222.6
(31) PCT/EP2017/062131	(32) 30.09.2014	(47) 28.12.2022
(32) 19.05.2017	25.07.2014	(22) 05.04.2013
(33) World Intellectual Property Office (WIPO)	02.05.2014	(54) METHOD FOR THE TREATMENT OF BLOOD, BLOOD PRODUCTS AND ORGANS
(51) G01N 33/00 G01N 27/22 G01N 27/12	(33) United States of America United States of America United States of America	(73) Priavoid GmbH (72) Willbold, Dieter (31) 102012108599 102012108598 102012102999
(11) EP3004868	(51) G01N 33/53	(32) 14.09.2012
(21) EP14805060.2	G01N 33/543	14.09.2012
(47) 28.12.2022	(11) EP3821247	05.04.2012
(87) FI2014050416	(21) EP19742670.3	(33) Germany Germany Germany
04.12.2014	(47) 28.12.2022	(51) G01N 33/74 G01N 33/543
(22) 27.05.2014	(87) AT2019060230	(11) EP3147371 (21) EP15795399.3
(54) A DUAL GAS SENSOR STRUCTURE AND MEASUREMENT METHOD	16.01.2020	(47) 28.12.2022
(73) VAISALA OYJ	(22) 11.07.2019	(87) KR2015005191
(72) VIITANEN, Veli-Pekka	(54) METHOD AND APPARATUS FOR PERFORMING HETEROGENEOUS IMMUNOASSAY	26.11.2015
LEHMUS, Kaisa	(73) MEON Medical Solutions GmbH & Co KG	(22) 22.05.2015
LEPPÄNEN, Jukka	(72) SPRENGERS, Wolfgang	(54) NOVEL METHOD FOR DETECTING DETECTION OBJECT IN SAMPLE, AND DETECTION KIT USING SAME
(31) 20135595	BARTEL, Arnold	(73) Nanoentek Inc. (72) SEO, Joon Seok SHIM, Kyu Hwan
(32) 30.05.2013	MARIK, Reinhard	(31) 20140062143
(33) Finland	(31) 506032018	(32) 23.05.2014
(51) G01N 33/18 G01N 27/07 G01F 23/2962 G01F 23/296	(32) 13.07.2018	(33) Korea (Republic)
(11) EP3676576	(33) Austria	(51) G01N 35/00 G01N 35/04
(21) EP18758579.9	(51) G01N 33/574	(11) EP3507606 (21) EP17754114.1
(47) 28.12.2022	C12Q 1/6886	(47) 28.12.2022
(87) EP2018072282	(11) EP3623815	(87) EP2017069689
07.03.2019	(21) EP18799158.3	08.03.2018
(22) 16.08.2018	(47) 28.12.2022	(22) 03.08.2017
(54) DEVICE FOR DETERMINING A FLUID LEVEL AND A QUALITY OF A FLUID	(87) KR2018005443	(54) METHOD FOR RECEIVING A SAMPLE VESSEL FROM A SAMPLE CARRIER, AND DEVICE DESIGNED TO CARRY OUT THE METHOD
(73) Vitesco Technologies Germany GmbH	15.11.2018	(73) Hamilton Storage GmbH (72) SEEBER, Johann (31) 102016116498
(72) PFEIFFER, Karl-Friedrich	(22) 11.05.2018	(32) 02.09.2016
WEBER, Claus	(54) METHOD FOR DIAGNOSIS OF BILE DUCT CANCER USING METHIONYL- TRNA SYNTHETASE IN BILE DUCT CELL	(33) Germany
(31) 102017215214	(73) Oncotag Diagnostics Co., Ltd.	(51) G01N 35/10 B01L 3/00 B01L 9/06
(32) 31.08.2017	(72) KIM, Sunghoon	(11) EP2092348 (21) EP07822569.5
(33) Germany	KWON, Nam Hoon	(47) 28.12.2022
(51) G01N 33/28	LEE, Dong Ki	(87) EP2007062306
(11) EP3469355	LIM, Beom Jin	22.05.2008
(21) EP17761912.9	JANG, Sung Ill	(22) 14.11.2007
(47) 28.12.2022	(31) 20170059318	(54) Automated analysis system with a reagent carousel and with interchangeable reagent containers of different sizes for liquid reagents
(87) FI2017050581	(32) 12.05.2017	(73) Diasys Technologies S.A.R.L. (72) SCHENK, Roland (31) 202006017454 U
21.02.2019	(33) Korea (Republic)	
(22) 18.08.2017	(51) G01N 33/68	
(54) ANALYZING FAULT GAS CONCENTRATION IN LIQUID	(11) EP3413052	
(73) Vaisala, OYJ	(21) EP18165873.3	
(72) VIRTANEN, Sami	(47) 28.12.2022	
(51) G01N 33/483	(22) 26.03.2014	
C12M 3/00	(54) IGFBP7 FOR DIAGNOSING DIASTOLIC DYSFUNCTION	
C12M 1/34	(73) F. Hoffmann-La Roche AG	
G08C 17/00	(72) Karl, Johann	
G01N 33/18	Wienhues-Thelen, Ursula-Henrike	
(11) EP3137592	Block, Dirk	
(21) EP15786477.8	Zaugg, Christian	
(47) 28.12.2022	Brunner, Hans-Peter	
(87) US2015028192	Januzzi, James	
05.11.2015	Ziegler, André	
(22) 29.04.2015	Braz, Julian	
(54) SINGLE-USE BIOREACTOR SENSOR ARCHITECTURE	Dieterle, Thomas	
(73) Rosemount Inc.	Kaiser, Edelgard	
(72) SCHUMACHER, Mark, S.	(51) G01N 33/68	
(31) 201414502502	C07K 7/04	

(32) 14.11.2006	(54) SYSTEMS AND METHODS FOR	(21) EP18881146.7
(33) Germany	REMOTELY DETERMINING A	(47) 28.12.2022
(51) G01R 31/00	BATTERY CHARACTERISTIC	(87) US2018057443
G01R 31/52	(73) Duracell U.S. Operations, Inc.	31.05.2019
G01R 31/54	(72) DEMPSEY, Nancy, Taylor	(22) 25.10.2018
G01R 31/58	MCGINNIS, Karen, Coltharp	(54) SELF-ORIENTING BURIED MARKER
G01R 31/327	WENZEL, Elizabeth, Jane	(73) Greenlee Textron Inc.
B60L 3/00	AMANN, Mathias	(72) TAYLOR, Curtis Clifford
(11) EP3951407	BOURILKOV, Jordan, Todorov	UGALE, Daniel
(21) EP21748483.1	CORONADO HORTAL, Sergio	STARK, Kenneth Ollie
(47) 28.12.2022	JOYCE, Jonathan, Livingston	(31) 201715821237
(87) CN2021081138	SHERMAN, Faiz, Feisal	(32) 22.11.2017
16.12.2021	SPECHT, Steven, Jeffrey	(33) United States of America
(22) 16.03.2021	(31) 201414259677	(51) G01S 5/00
(54) HIGH-VOLTAGE INTERLOCK DEVICE	201361837879 P	G06Q 10/08
AND TEST METHOD THEREOF	(32) 23.04.2014	G01S 19/34
(73) Contemporary Amperex Technology Co.,	21.06.2013	(11) EP3835805
Limited	(33) United States of America	(21) EP20207696.4
(72) XIAO, Qi	United States of America	(47) 28.12.2022
FU, Yanhui	(51) G01R 31/392	(22) 16.11.2020
WANG, Xingchang	G01R 31/396	(54) METHOD FOR LOCATING A
LIU, Changjian	G01R 31/3835	GEOLOCATION BEACON
(31) 202010538231	B60L 58/12	(73) ORANGE
(32) 12.06.2020	B60L 58/21	(72) CAZOULAT, Renaud
(33) China	(11) EP3517987	CUSSAC, Pierre
(51) G01R 31/28	(21) EP18207530.9	MEZA BALANTA, Claudia
H01L 21/66	(47) 28.12.2022	(31) 1914018
H01L 23/538	(22) 21.11.2018	(32) 10.12.2019
(11) EP2985615	(54) METHOD AND APPARATUS	(33) France
(21) EP15179023.5	ESTIMATING A STATE OF BATTERY	(51) G01S 7/00
(47) 28.12.2022	(73) Samsung Electronics Co., Ltd.	G01S 13/00
(22) 30.07.2015	(72) KIM, Jinho	G01S 13/90
(54) SEMICONDUCTOR DEVICE	SUNG, Young Hun	(11) EP3812788
AND METHOD OF TESTING	Song, Tae Won	(21) EP20172991.0
SEMICONDUCTOR DEVICE	(31) 20180117812	(47) 28.12.2022
(73) FUJITSU LIMITED	20180037674	(22) 05.05.2020
(72) SHIKIBU, Takahiro	201762599856 P	(54) DEVICE AND SYSTEM FOR SIGNAL
NAKADA, Tatsumi	(32) 02.10.2018	SYNCHRONIZATION
(31) 2014163764	30.03.2018	(73) Institute of Electronics, Chinese
(32) 11.08.2014	18.12.2017	Academy of Sciences
(33) Japan	(33) Korea (Republic)	(72) WANG, Yu
(51) G01R 31/36	Korea (Republic)	LIANG, Da
H01M 10/42	United States of America	LIU, Kaiyu
G01R 31/367	(51) G01R 31/52	LIN, Haoyu
G01R 31/382	H02H 3/16	ZHANG, Heng
H02J 7/00	H02H 7/08	CHEN, Yafeng
(11) EP3480611	(11) EP2439827	LIU, Dacheng
(21) EP17913116.4	(21) EP11184530.1	DENG, Yunkai
(47) 28.12.2022	(47) 28.12.2022	(31) 201911019680
(87) CN2017099125	(22) 10.10.2011	(32) 24.10.2019
28.02.2019	(54) System for detection of a ground fault in	(33) China
(22) 25.08.2017	a high resistance ground network	(51) G01S 7/48
(54) TERMINAL DEVICE, ADAPTER,	(73) Rockwell Automation Technologies, Inc.	G01S 7/481
BATTERY SAFETY MONITORING	(72) Wei, Lixiang	G01S 17/10
METHOD AND MONITORING SYSTEM	Liu, Zhijun	(11) EP3715903
(73) GUANGDONG OPPO MOBILE	Brown, Brian Patrick	(21) EP19165773.3
TELECOMMUNICATIONS CORP., LTD.	Kirschnik, David W.	(47) 28.12.2022
(72) CHEN, Wei	Kerkman, Russ J.	(22) 28.03.2019
(51) G01R 31/36	Lukaszewski, Richard A.	(54) LASER DISTANCE METER AND
H01M 10/42	Skibinski, Gary	METHOD OF MEASURING A
H01M 10/48	Rodriguez-Valdez, Carlos Daniel	DISTANCE
(11) EP3011352	(31) 901512	(73) Vestel Elektronik Sanayi ve Ticaret A.S.
(21) EP14813210.3	(32) 09.10.2010	(72) YILMAZLAR, İsmail
(47) 28.12.2022	(33) United States of America	(51) G01S 7/497
(87) US2014042898	(51) G01S 1/04	G01S 17/86
24.12.2014	G01S 5/02	(11) EP3627180
(22) 18.06.2014	G01V 15/00	(21) EP19195851.1
	(11) EP3714195	(47) 28.12.2022

- (22) 06.09.2019
(54) SENSOR CALIBRATION METHOD AND DEVICE, COMPUTER DEVICE, MEDIUM, AND VEHICLE
(73) Apollo Intelligent Driving Technology (Beijing) Co., Ltd.
(72) LI, Shirui
XIE, Yuanfan
ZHOU, Xun
WANG, Liang
(31) 201811094353
(32) 19.09.2018
(33) China
-
- (51) G01S 11/06
(11) EP3714288
(21) EP18811638.8
(47) 28.12.2022
(87) GB2018053398
31.05.2019
(22) 23.11.2018
(54) PROXIMITY DETERMINATION USING RADIO DEVICES
(73) NORBIT ITS AS
(72) BREDE, Steinar
(31) 201719545
(32) 24.11.2017
(33) United Kingdom
-
- (51) G01S 13/32
G01S 13/36
G01S 13/87
G01S 13/46
(11) EP3719532
(21) EP20172631.2
(47) 28.12.2022
(22) 01.05.2020
(54) TECHNOLOGIES FOR ACTING BASED ON OBJECT TRACKING
(73) Transrobotics, Inc.
Alalusi, Sayf
Arhror, Youssef
(72) ALALUSI, Sayf
ARRHOR, Youssef
(31) 201962829262 P
(32) 04.04.2019
(33) United States of America
-
- (51) G01S 13/78
G01S 13/76
G01S 13/91
G01S 7/03
G01S 7/28
(11) EP3896484
(21) EP21166308.3
(47) 28.12.2022
(22) 31.03.2021
(54) SECONDARY META RADAR
(73) THALES
(72) BILLAUD, Philippe
COLIN, Sylvain
JOLY, Philippe
(31) 2003806
(32) 16.04.2020
(33) France
-
- (51) G01S 13/90
G01S 7/40
(11) EP3865908
(21) EP20176890.0
(47) 28.12.2022
(22) 27.05.2020
- (54) BISTATIC SAR PHASE SYNCHRONIZATION SIGNAL PROCESSING METHOD AND DEVICE
(73) Institute of Electronics, Chinese Academy of Sciences
(72) WANG, Yu
LIN, Haoyu
LIANG, Da
Zhang, Heng
LIU, Kaiyu
CHEN, Yafeng
LIU, Dacheng
DENG, Yunkai
(31) 202010089336
(32) 12.02.2020
(33) China
-
- (51) G01S 13/931
G01S 7/02
G01S 13/34
G01S 7/35
G01S 13/42
(11) EP3779508
(21) EP19211579.8
(47) 28.12.2022
(22) 26.11.2019
(54) RE-DIRECTING RADAR TRANSMISSION POWER FOR INTERFERENCE MITIGATION
(73) Veoneer Sweden AB
(72) Kritzner, Michael
Goelz, Hans
Moss, Jonathan
Fuchs, Martin
Lefevre, Andreas
(31) 19191476
(32) 13.08.2019
(33) European Patent Office (EPO)
-
- (51) G01S 17/933
G01S 13/60
G01S 13/88
G01S 17/58
G08G 5/00
G01C 23/00
B64D 45/04
(11) EP3572774
(21) EP19174905.0
(47) 28.12.2022
(22) 16.05.2019
(54) METHOD AND DEVICE FOR DETERMINING AND DISPLAYING A SAFETY DISTANCE OF A ROTORCRAFT TAKING INTO ACCOUNT THE HEIGHT OF THE WAVES
(73) Airbus Helicopters
(72) SALESSE-LAVERGNE, Marc
(31) 1800508
(32) 24.05.2018
(33) France
-
- (51) G01T 1/20
G01T 1/24
(11) EP3942336
(21) EP20711891.0
(47) 28.12.2022
(87) EP2020057015
24.09.2020
(22) 16.03.2020
- (54) QUANTUM DOT POROUS SILICON MEMBRANE-BASED RADIATION DETECTOR
(73) Koninklijke Philips N.V.
Wayne State University
(72) CHAPPO, Marc Anthony
BROCK, Stephanie Lee
(31) 201962820918 P
(32) 20.03.2019
(33) United States of America
-
- (51) G01T 1/29
G01T 1/24
(11) EP3719542
(21) EP19167331.8
(47) 28.12.2022
(22) 04.04.2019
(54) DEVICE FOR NON-FULLY INTERCEPTING SENSOR MONITORS FOR IONIZING BEAMS
(73) PAUL SCHERRER INSTITUT
(72) CAMARDA, Massimo
PRADERVAND, Claude
-
- (51) G01V 1/30
G01V 1/40
(11) EP3259621
(21) EP16753230.8
(47) 28.12.2022
(87) US2016018971
25.08.2016
(22) 22.02.2016
(54) PORE-PRESSURE PREDICTION BASED ON VELOCITIES COUPLED WITH GEOMECHANICAL MODELING
(73) Board of Regents, The University of Texas System
(72) FLEMINGS, Peter
NIKOLINAKOU, Maria A.
HEIDARI-MOGHADAM, Mahdi
(31) 201562118713 P
(32) 20.02.2015
(33) United States of America
-
- (51) G02B 1/00
G02B 27/01
(11) EP3602147
(21) EP18716403.3
(47) 28.12.2022
(87) US2018022525
04.10.2018
(22) 15.03.2018
(54) ACHROMATIZED METASURFACE LENS
(73) Microsoft Technology Licensing, LLC
(72) GUENTER, Brian
(31) 201715473208
(32) 29.03.2017
(33) United States of America
-
- (51) G02B 1/11
G02B 1/118
(11) EP3264144
(21) EP15899153.9
(47) 28.12.2022
(87) CN2015085113
02.02.2017
(22) 24.07.2015
(54) CAMERA MODULE AND TERMINAL
(73) Huawei Technologies Co., Ltd.
(72) YE, Haishui
YU, Feng

SUSUMU, Tateoka	(73) 3M Innovative Properties Company	OSATO Ken
(51) G02B 5/00	(72) BENOIT, Gilles J.	(31) 2018192706
G02B 1/00	NEVITT, Timothy J.	(32) 11.10.2018
G02F 1/29	JOHNSON, Matthew B.	(33) Japan
H01L 33/50	(31) 201662427450 P	(51) G02B 7/04
(11) EP3598184	(32) 29.11.2016	G03B 5/02
(21) EP19186700.1	(33) United States of America	G02B 27/64
(47) 28.12.2022	(51) G02B 6/00	G03B 3/10
(22) 17.07.2019	F21V 8/00	G03B 5/00
(54) WAVELENGTH CONVERSION DEVICE	F21S 41/24	(11) EP3633433
AND LIGHT SOURCE DEVICE	F21S 43/14	(21) EP19211304.1
(73) Kyoto University	F21S 43/27	(47) 28.12.2022
STANLEY ELECTRIC CO., LTD.	F21S 43/239	(22) 30.05.2014
(72) MURAI, Shunsuke	F21S 43/243	(54) LENS DRIVING DEVICE
YOKOBAYASHI, Yusuke	F21S 43/245	(73) LG Innotek Co., Ltd.
KAWAKAMI, Yasuyuki	F21S 43/247	(72) In, Jae Yeo
TAKASHIMA, Keijiro	F21S 43/50	(31) 20130083924
KUBO, Syousaku	(11) EP2924479	20130082879
MAEMURA, Yosuke	(21) EP15157564.4	20130061035
(31) 2018134291	(47) 28.12.2022	(32) 17.07.2013
(32) 17.07.2018	(22) 04.03.2015	15.07.2013
(33) Japan	(54) Vehicle headlight with light coupling	29.05.2013
(51) G02B 5/22	protection between light functions	(33) Korea (Republic)
(11) EP3384329	(73) ZKW Group GmbH	Korea (Republic)
(21) EP16723195.0	(72) Berger, Martin	Korea (Republic)
(47) 28.12.2022	(31) 501612014	(51) G02B 7/08
(87) US2016028756	(32) 04.03.2014	(11) EP2983026
08.06.2017	(33) Austria	(21) EP15179612.5
(22) 22.04.2016	(51) G02B 6/00	(47) 28.12.2022
(54) ELECTROMAGNETIC ENERGY-	F21V 8/00	(22) 04.08.2015
ABSORBING OPTICAL PRODUCT	G02B 6/02	(54) LENS MOVING APPARATUS AND
(73) Eastman Chemical Company	G02B 6/036	CAMERA MODULE INCLUDING THE
(72) BOMAN, Lee, Campbell	G09F 13/00	SAME
HAWKINS, Michael	F21K 9/61	(73) LG Innotek Co., Ltd.
ISBELL, Jeremy, L.	F21S 8/00	(72) Park, Sang Ok
KROGMAN, Kevin, C.	F21S 43/237	Lee, Seong Min
NAND, Brija	F21S 43/245	Lee, Jun Taek
PATEL, Kayur, Ashwin	F21S 43/247	(31) 20140110515
PORT, Anthony, Brian	F21S 43/20	20140101504
(31) 201615134864	F21Y 101/00	(32) 25.08.2014
PCT/US2015/063082	(11) EP3605170	07.08.2014
(32) 21.04.2016	(21) EP18776795.9	(33) Korea (Republic)
01.12.2015	(47) 28.12.2022	Korea (Republic)
(33) United States of America	(87) JP2018010622	(51) G02B 13/00
World Intellectual Property Office (WIPO)	04.10.2018	G02B 9/62
(51) G02B 5/23	(22) 16.03.2018	G02B 9/60
G02F 1/13357	(54) THERMOPLASTIC RESIN MOLDING	G02B 9/64
(11) EP2734875	OF PERIPHERAL SURFACE LIGHT-	(11) EP3792674
(21) EP12814589.3	EMITTING TYPE	(21) EP19819966.3
(47) 28.12.2022	(73) Kuraray Co., Ltd.	(47) 28.12.2022
(87) KR2012004625	(72) KANAMORI, Naoaki	(87) CN2019085184
24.01.2013	SUGAWARA, Toshiaki	19.12.2019
(22) 12.06.2012	OSHIMA, Hiroshi	(22) 30.04.2019
(54) OPTICAL MEMBER AND DISPLAY	KATAOKA, Dai	(54) OPTICAL LENS SYSTEM
DEVICE HAVING THE SAME	(31) PCT/JP2017/013681	(73) Jiangxi Lianchuang Electronic Co., Ltd.
(73) LG Innotek Co., Ltd.	(32) 31.03.2017	(72) WEI, Wenzhe
(72) PARK, Seung Ryong	(33) World Intellectual Property Office (WIPO)	BAO, Yumin
(31) 20110071135	(51) G02B 6/44	CHEN, Weijian
(32) 18.07.2011	(11) EP3796060	LIU, Xuming
(33) Korea (Republic)	(21) EP19870931.3	ZENG, Jiyong
(51) G02B 5/30	(47) 28.12.2022	WANG, Keming
(11) EP3548940	(87) JP2019039740	(31) 201810614191
(21) EP17877049.1	16.04.2020	(32) 14.06.2018
(47) 28.12.2022	(22) 09.10.2019	(33) China
(87) US2017062735	(54) OPTICAL FIBER CABLE	(51) G02B 13/00
07.06.2018	(73) Fujikura Ltd.	G02B 13/16
(22) 21.11.2017	(72) SHIMIZU Shogo	G02B 13/18
(54) DISPLAY WITH OPTICAL STACK	NAMAZUE Akira	G02B 13/00

(11) EP3611547	VARIABLE MAGNIFICATION OPTICAL SYSTEM	(54) IMAGE DISPLAY DEVICE AND IMAGE DISPLAY METHOD
(21) EP18784208.3	(73) Nikon Corporation	(73) JVC Kenwood Corporation
(47) 28.12.2022	(72) UMEDA, Takeshi	(72) TABATA, Kiyofumi
(87) JP2018007353	(72) ITO, Tomoki	(31) 2014030126
18.10.2018	(72) SHIBAYAMA, Atsushi	(32) 20.02.2014
(22) 27.02.2018	(31) 2016198640	(33) Japan
(54) SINGLE-FOCAL LENS SYSTEM, IMAGING DEVICE HAVING SINGLE-FOCAL LENS SYSTEM, AND MOVING BODY HAVING IMAGING DEVICE	(32) 07.10.2016	(51) G02B 26/12
(73) Panasonic Intellectual Property Management Co., Ltd.	(33) Japan	G03G 15/04
(72) IWASHITA, Tsutomu	(51) G02B 17/06	(11) EP3575850
(31) 2017080186	G01J 5/08	(21) EP19174562.9
(32) 14.04.2017	G08B 13/193	(47) 28.12.2022
(33) Japan	G02B 17/08	(22) 15.05.2019
(51) G02B 13/00	(11) EP3908873	(54) OPTICAL SCANNING APPARATUS AND IMAGE FORMING APPARATUS
G02B 21/00	(21) EP20701258.4	(73) CANON KABUSHIKI KAISHA
G02B 21/02	(47) 28.12.2022	(72) SANO, Atsushi
G02B 7/04	(87) EP2020050310	(31) 2018098663
G02B 3/14	16.07.2020	(32) 23.05.2018
(11) EP3714305	(22) 08.01.2020	(33) Japan
(21) EP18815031.2	(54) VERY WIDE-ANGLE VIEWING ACCESSORY FOR INFRARED DETECTOR	(51) G02B 27/01
(47) 28.12.2022	(73) Centre Scientifique Et Technique Du Batiment (CSTB)	(11) EP3274758
(87) IB2018059120	(72) MARTINSONS, Christophe	(21) EP16754860.1
31.05.2019	LEPRETRE, Pierre	(47) 28.12.2022
(22) 20.11.2018	(31) 1900159	(87) IL2016050212
(54) LENS SYSTEM INTENDED FOR MICROSCOPIC OBSERVATION AND OPERATIONALLY ASSOCIABLE WITH AN IMAGE ACQUISITION DEVICE AND A LIGHT SOURCE	(32) 08.01.2019	01.09.2016
(73) Fondazione Istituto Italiano di Tecnologia Smartmicrooptics S.r.l.	(33) France	(22) 25.02.2016
(72) ANTONINI, Andrea	(51) G02B 21/00	(54) WEARABLE OPTICAL DISPLAY SYSTEM FOR UNOBSTRUCTED VIEWING
(31) 201700132836	G02B 17/08	(73) Everysight Ltd.
(32) 21.11.2017	(11) EP2876479	(72) ASHKENAZI, Asaf
(33) Italy	(21) EP14185400.0	SHAMIR, Hanan
(51) G02B 13/06	(47) 28.12.2022	(31) 23744715
G09B 27/00	(22) 18.09.2014	(32) 26.02.2015
G02B 13/22	(54) two mirror optical arrangement for digital micromirror device	(33) Israel
(11) EP2249193	(73) Cairn Research Limited	(51) G02B 27/01
(21) EP09715446.2	(72) Thomas, Martin	(11) EP3683614
(47) 28.12.2022	(31) 201320802	(21) EP18874723.2
(87) JP2009053013	(32) 26.11.2013	(47) 28.12.2022
03.09.2009	(33) United Kingdom	(87) CN2018091076
(22) 20.02.2009	(51) G02B 26/06	09.05.2019
(54) MAGNIFIED-PROJECTION OPTICAL SYSTEM, AND DIGITAL TYPE PLANETARIUM DEVICE	G02B 26/10	(22) 13.06.2018
(73) Konica Minolta Opto, Inc.	G02B 27/00	(54) DISPLAY APPARATUS AND METHOD AND DEVICE FOR ADJUSTING IMAGE DISPLAY OF THE DISPLAY APPARATUS
(72) SHIMO, Mitsuki	(11) EP3933484	(73) Huawei Technologies Co., Ltd.
TAKAMOTO, Katsuhiko	(21) EP21180310.1	(72) LIU, Mu
(31) 2008050819	(47) 28.12.2022	(31) 201711038481
(32) 29.02.2008	(22) 18.06.2021	(32) 30.10.2017
(33) Japan	(54) OPTICAL SCANNER	(33) China
(51) G02B 15/14	(73) Commissariat à l'énergie atomique et aux énergies alternatives	(51) G02B 27/01
G02B 27/64	(72) MOLLARD, Laurent	G09B 23/18
(11) EP3547004	DIEPPEDALE, Christel	G01S 5/16
(21) EP17858484.3	FANGET, Stéphane	G06F 3/01
(47) 28.12.2022	FOWLER, Daivid	G06F 3/0346
(87) JP2017036289	HUE, Jean	(11) EP3265866
12.04.2018	(31) 2006927	(21) EP16759643.6
(22) 05.10.2017	(32) 01.07.2020	(47) 28.12.2022
(54) VARIABLE MAGNIFICATION OPTICAL SYSTEM, OPTICAL DEVICE AND MANUFACTURING METHOD FOR	(33) France	(87) US2016021095
(73) Magic Leap, Inc.	(51) G02B 26/10	09.09.2016
(72) WOODS, Michael J.	(11) EP3109686	(22) 05.03.2016
(31) 201662292185 P	(21) EP14883402.1	(54) SYSTEMS AND METHODS FOR AUGMENTED REALITY
	(47) 28.12.2022	(73) Magic Leap, Inc.
	(87) JP2014005432	(72) WOODS, Michael J.
	27.08.2015	(31) 201662292185 P
	(22) 28.10.2014	

201562128993 P	KIM, Jinwon	(73) Samsung Display Co., Ltd.
(32) 05.02.2016	KIM, Taeho	(72) Lee, Chung Seok
05.03.2015	(31) 20180008410	Heo, Kyeong Yeol
(33) United States of America	(32) 23.01.2018	(31) 20180037625
United States of America	(33) Korea (Republic)	(32) 30.03.2018
(51) G02B 27/30	(51) G02F 1/13363	(33) Korea (Republic)
(11) EP3748416	G02F 1/1333	(51) G02F 1/153
(21) EP18857419.8	G02F 1/137	G02F 1/155
(47) 28.12.2022	G02F 1/13	B60R 1/12
(87) CN2018107323	G02B 27/01	B60R 1/04
01.08.2019	G02F 1/01	B60R 1/08
(22) 25.09.2018	G02F 1/1337	E06B 3/67
(54) AUGMENTED REALITY DEVICE, AUGMENTED REALITY SYSTEM AND INFORMATION PROMPTING METHOD THEREFOR	B32B 27/06	E06B 9/24
(73) BOE TECHNOLOGY GROUP CO., LTD.	B32B 7/00	(11) EP3198335
(72) HONG, Tao	G02C 7/10	(21) EP15845302.7
(31) 201810084344	(11) EP3617786	(47) 28.12.2022
(32) 29.01.2018	(21) EP18792339.6	(87) US2015051637
(33) China	(47) 28.12.2022	31.03.2016
(51) G02B 30/22	(87) KR2018005021	(22) 23.09.2015
G02B 27/01	01.11.2018	(54) ELECTRO-OPTIC ELEMENT WITH ABLATION-FORMED INDICIA AND METHODS FOR MAKING THE SAME
H04N 13/00	(22) 30.04.2018	(73) Gentex Corporation
(11) EP3287837	(54) OPTICAL MODULATION DEVICE	(72) CAMMENGA, David J.
(21) EP17181355.3	(73) LG Chem, Ltd.	HEINTZELMAN, Adam R.
(47) 28.12.2022	(72) LIM, Eun Jung	GEERLINGS, Kurtis L.
(22) 27.01.2016	KIM, Nam Hun	(31) 201462054580 P
(54) HEAD-MOUNTABLE DISPLAY SYSTEM	YOU, Jung Sun	(32) 24.09.2014
(73) Sony Interactive Entertainment Inc.	KIM, Jin Hong	(33) United States of America
(72) BICKERSTAFF, Ian Henry	LEE, Hyun Jun	(51) G03B 21/20
RAGHOEBARDAJAL, Sharwin Winesh	GIM, Min Jun	G02B 26/04
BENSON, Simon Mark	HONG, Kyung Ki	G03B 33/12
(31) 201501985	MUN, In Ju	H04N 9/31
(32) 06.02.2015	OH, Dong Hyun	(11) EP3608716
(33) United Kingdom	(31) 20180004305	(21) EP17904831.9
(51) G02F 1/017	20180003789	(47) 28.12.2022
G02F 1/1335	20180003788	(87) CN2017109340
C09K 9/00	20180003787	11.10.2018
C09K 11/02	20180003786	(22) 03.11.2017
C09K 11/08	20180003785	(54) DISPLAY SYSTEM
C09K 11/89	20180003784	(73) APPOTRONICS CORPORATION LIMITED
G02B 5/02	20180003783	(72) GUO, Zuqiang
G02B 5/20	20170054964	HU, Fei
G02B 5/22	(32) 12.01.2018	LI, Yi
G03F 7/028	11.01.2018	(31) 201710221224
G03F 7/032	11.01.2018	(32) 06.04.2017
H01L 27/32	11.01.2018	(33) China
H01L 33/50	11.01.2018	(51) G03F 1/78
G03F 7/00	28.04.2017	G02B 5/18
B82Y 20/00	(33) Korea (Republic)	(11) EP3637157
B82Y 30/00	Korea (Republic)	(21) EP19186204.4
B82Y 40/00	Korea (Republic)	(47) 28.12.2022
(11) EP3514615	Korea (Republic)	(22) 15.07.2019
(21) EP19153352.0	Korea (Republic)	(54) GRATING STRUCTURE FOR DIFFRACTIVE OPTICS
(47) 28.12.2022	Korea (Republic)	(73) Dr. Johannes Heidenhain GmbH
(22) 23.01.2019	Korea (Republic)	(72) WEIDMANN, Josef
(54) PHOTORESIST RESIN COMPOSITION, FILM PREPARED THEREFROM, COLOR CONVERSION ELEMENT INCLUDING THE FILM, AND ELECTRONIC DEVICE INCLUDING THE COLOR CONVERSION ELEMENT	Korea (Republic)	SPECKBACHER, Peter
(73) Samsung Display Co., Ltd	(51) G02F 1/1345	(31) 102018217199
(72) PARK, Kyoungwon	H05K 1/11	(32) 09.10.2018
KIM, Songyi	H05K 3/32	(33) Germany
NAM, Minki	(11) EP3547020	(51) G03F 7/20
KIM, Sujin	(21) EP19164010.1	G06N 3/04
	(47) 28.12.2022	(11) EP3935448
	(22) 20.03.2019	(21) EP20703998.3
	(54) DISPLAY DEVICE INCLUDING AN ANISOTROPIC CONDUCTIVE FILM	(47) 28.12.2022
		(87) EP2020052953

10.09.2020	OKINO, Ayatomo	(33) Switzerland
(22) 06.02.2020	MURAKAMI, Katsuya	(51) G05B 9/03
(54) EXTRACTING A FEATURE FROM A DATA SET	NAGASHIMA, Toshiaki	B64C 13/18
(73) ASML Netherlands B.V.	TAZAWA, Fumio	B64C 13/42
(72) LARRANAGA, Maialen	(31) 2011126137	B64C 13/50
GKOROU, Dimitra	(32) 06.06.2011	(11) EP3667438
HASIBI, Faegheh	(33) Japan	(21) EP19206101.8
YPMA, Alexander	(51) G03G 15/08	(47) 28.12.2022
(31) 19160933	G03G 21/18	(22) 30.10.2019
(32) 06.03.2019	(11) EP3658993	(54) SYSTEM FOR FLIGHT CONTROL OF AN AIRCRAFT
(33) European Patent Office (EPO)	(21) EP19756084.0	(73) AIRBUS OPERATIONS (S.A.S.)
(51) G03F 7/20	(47) 28.12.2022	(72) FERVEL, Marc
H01L 21/687	(87) JP2019026053	(31) 1871824
C09J 7/00	02.04.2020	(32) 26.11.2018
C09J 5/00	(22) 01.07.2019	(33) France
(11) EP3904959	(54) DEVELOPING CARTRIDGE	(51) G05B 19/042
(21) EP21162139.6	(73) Brother Kogyo Kabushiki Kaisha	(11) EP3757688
(47) 28.12.2022	(72) WANG, Yuwen	(21) EP19181916.8
(22) 11.03.2021	HASHIMOTO, Junichi	(47) 28.12.2022
(54) METHOD FOR CONTROLLING FLATNESS, METHOD FOR FORMING COATING FILM, APPARATUS FOR CONTROLLING FLATNESS, AND APPARATUS FOR FORMING COATING FILM	(31) 2018183058	(22) 24.06.2019
(73) Shin-Etsu Chemical Co., Ltd.	(32) 28.09.2018	(54) METHOD FOR CONFIGURING AN INDUSTRIAL MACHINE
(72) Ogihara, Tsutomu	(33) Japan	(73) SICK AG
(31) 2020077061	(51) G03G 15/08	(72) Ams, Mathias
(32) 24.04.2020	G03G 21/18	Fecher, Dr., Harald
(33) Japan	(11) EP3796094	Wehrle, Dr., Martin
(51) G03G 15/00	(21) EP20196374.1	Ziegenmeyer, Dr., Marco
B32B 1/08	(47) 28.12.2022	(51) G05B 19/042
B32B 25/00	(22) 16.09.2020	(11) EP2997427
F16C 13/00	(54) IMAGE FORMING UNIT AND IMAGE FORMING APPARATUS	(21) EP14724725.8
G03G 15/02	(73) CANON KABUSHIKI KAISHA	(47) 28.12.2022
G03G 15/08	(72) SHIMIZU, Hiroki	(87) EP2014059908
G03G 15/16	KUSANO, Yohei	20.11.2014
G03G 21/06	ASANUMA, Naoya	(22) 15.05.2014
(11) EP3848759	(31) 2019168873	(54) CONTROL DEVICE AND METHOD FOR SWITCHING INPUT/OUTPUT UNITS OF A CONTROLLER
(21) EP19857830.4	(32) 17.09.2019	(73) Wago Verwaltungsgesellschaft mbH
(47) 28.12.2022	(33) Japan	(72) BUDA, Aurel
(87) JP2019033942	(51) G03G 21/00	GALKA, Peter
12.03.2020	(11) EP3814845	HILGERS, Detmar
(22) 29.08.2019	(21) EP19870556.8	(31) 102013105097
(54) CHARGING ROLL	(47) 28.12.2022	(32) 17.05.2013
(73) NOK Corporation	(87) US2019033528	(33) Germany
(72) OURA Kosuke	16.04.2020	(51) G05B 19/042
SUZUKI Shogo	(22) 22.05.2019	G05B 19/05
HUKUOKA Satoshi	(54) LUBRICANT APPLICATOR	(11) EP3770703
SASAKI Kenji	(73) HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.	(21) EP19187557.4
(31) 2018165846	(72) ISHII, Yasuyuki	(47) 28.12.2022
(32) 05.09.2018	HIGASHIDA, Katsushi	(22) 22.07.2019
(33) Japan	TAKASHIMA, Koichiro	(54) METHOD FOR CONFIGURING AN INDUSTRIAL AUTOMATION COMPONENT, INDUSTRIAL AUTOMATION COMPONENT, COMPUTER PROGRAM AND COMPUTER-READABLE MEDIUM
(51) G03G 15/08	(31) 2018193359	(73) Siemens Aktiengesellschaft
G03G 15/00	(32) 12.10.2018	(72) Strobel, Holger
G03G 21/16	(33) Japan	(51) G05B 19/042
(11) EP2720088	(51) G04G 17/08	H04B 10/25
(21) EP12797466.5	G04B 37/00	H04B 10/27
(47) 28.12.2022	(11) EP3717972	B25J 19/02
(87) JP2012065062	(21) EP18796659.3	(11) EP3742630
13.12.2012	(47) 28.12.2022	(21) EP19854828.1
(22) 06.06.2012	(87) EP2018080060	(47) 28.12.2022
(54) DEVELOPER REPLENISHMENT CONTAINER AND DEVELOPER REPLENISHMENT SYSTEM	31.05.2019	(87) CN2019095283
(73) Canon Kabushiki Kaisha	(22) 02.11.2018	
(72) JIMBA, Manabu	(54) ERGONOMIC HOUSING WITH MULTIPLE COMPARTMENTS	
	(73) IMERIUM Sarl	
	(72) SCHENK, Bernard	
	(31) 14382017	
	(32) 27.11.2017	

05.03.2020	(47) 28.12.2022	B64D 39/00
(22) 09.07.2019	(87) US2019020438	(11) EP3879376
(54) ROBOT CONTROL METHOD, DEVICE, STORAGE MEDIUM, AND ELECTRONIC APPARATUS	06.09.2019	(21) EP21153124.9
(73) CLOUDMINDS ROBOTICS Co., Ltd.	(22) 01.03.2019	(47) 28.12.2022
(72) HUANG, William Xiao-Qing	(54) CAMERA BASED LOCALIZATION FOR AUTONOMOUS VEHICLES	(22) 24.01.2021
ZHANG, Yong	(73) DeepMap Inc.	(54) AUTOMATIC AIRCRAFT POSITIONING SYSTEMS AND METHODS
WEI, Xubin	(72) ZHANG, Ronghua	(73) The Boeing Company
(31) 201811014445	YANG, Lin	(72) Wittenberg, Peter S.
(32) 31.08.2018	(31) 201862637997 P	Martin, Michael K.
(33) China	(32) 02.03.2018	(31) 202016817661
(51) G05B 19/18	(33) United States of America	(32) 13.03.2020
F16H 55/08	(51) G05D 1/00	(33) United States of America
(11) EP3977216	G05D 1/02	(51) G05D 1/10
(21) EP20714883.4	B60Q 1/50	G06T 17/00
(47) 28.12.2022	G01S 5/16	G01C 21/32
(87) EP2020056482	G08G 1/00	G06K 9/00
03.12.2020	G01C 21/32	G06T 15/00
(22) 11.03.2020	G01S 7/497	(11) EP3696643
(54) PRODUCTION METHOD FOR A COG, TOOL AND MACHINE COMPONENT	G01S 17/87	(21) EP19211334.8
(73) Flender GmbH	G06V 20/56	(47) 28.12.2022
(72) HESS, Ralf	G01S 13/86	(22) 25.11.2019
(31) 19176917	G01S 5/00	(54) OCCUPANCY MAP SYNCHRONIZATION IN MULTI- VEHICLE NETWORKS
(32) 28.05.2019	G01S 13/931	(73) Rockwell Collins, Inc.
(33) European Patent Office (EPO)	G01S 13/87	(72) TAYLOR, Max G.
(51) G05B 19/19	(11) EP3371668	BOGGS, Christopher M.
G05B 19/416	(21) EP16804949.2	FUSTER, Joel J.
(11) EP3353612	(47) 28.12.2022	(31) 201916277645
(21) EP16766969.6	(87) US2016060018	(32) 15.02.2019
(47) 28.12.2022	11.05.2017	(33) United States of America
(87) EP2016072136	(22) 02.11.2016	(51) G05G 5/00
30.03.2017	(54) TELEOPERATION SYSTEM AND MODIFICATION OF AUTONOMOUS VEHICLES	G05G 5/28
(22) 19.09.2016	(73) Zoox, Inc.	B66F 9/075
(54) METHOD FOR CONTROLLING AN ELECTRICAL DRIVE, AND ELECTRICAL DRIVE	(72) LEVINSON, Jesse, Sol	B66F 9/24
(73) SCHUNK Electronic Solutions GmbH	KENTLEY-KLAY, Timothy, David	G05G 1/01
(72) FELLHAUER, Bruno	SIBLEY, Gabriel, Thurston	G05G 1/30
HÖPFL, Sebastian	GAMARA, Rachad, Youssef	(11) EP3539920
KHOURY, Jakob	REGE, Ashutosh, Gajanan	(21) EP17859364.6
DIETERLE, Franz	LINSCOTT, Gary	(47) 28.12.2022
HEILMANN, Matthias	(31) 201514932966	(87) JP2017031351
RUGGIERI, Patrick	(32) 04.11.2015	17.05.2018
(31) 102015218203	(33) United States of America	(22) 31.08.2017
(32) 22.09.2015	(51) G05D 1/02	(54) STANDUP-TYPE CARGO HANDLING VEHICLE
(33) Germany	B60W 30/00	(73) Mitsubishi Logisnext Co., Ltd.
(51) G05B 23/02	G08G 1/16	(72) ONISHI, Mariko
(11) EP3660612	(11) EP3714345	(31) 2016218621
(21) EP18209564.6	(21) EP18825823.0	(32) 09.11.2016
(47) 28.12.2022	(47) 28.12.2022	(33) Japan
(22) 30.11.2018	(87) US2018062171	(51) G05G 5/03
(54) METHOD AND SYSTEM FOR ELIMINATION OF FAULT CONDITIONS IN A TECHNICAL INSTALLATION	31.05.2019	B60K 20/02
(73) Siemens Aktiengesellschaft	(22) 21.11.2018	G05G 5/05
(72) SIROHI, Ajay	(54) OBJECT INTERACTION PREDICTION SYSTEMS AND METHODS FOR AUTONOMOUS VEHICLES	G05G 1/04
ALAM, Shamim	(73) UATC, LLC	(11) EP3736656
(51) G05D 1/00	(72) LAN, Tian	(21) EP18898931.3
B60W 30/18	HAYNES, Galen Clark	(47) 28.12.2022
G06F 16/29	STYLER, Alexander David	(87) JP2018037227
G01C 21/20	(31) 201715848564	11.07.2019
G01C 21/36	201762589951 P	(22) 04.10.2018
G05D 1/02	(32) 20.12.2017	(54) OPERATION DEVICE
G06T 7/73	22.11.2017	(73) Alps Alpine Co., Ltd.
(11) EP3759562	(33) United States of America	(72) FURUKI, Shigeru
(21) EP19761697.2	United States of America	(31) 2018000646
	(51) G05D 1/10	(32) 05.01.2018
		(33) Japan
		(51) G05G 5/03

G05G 1/08	(72) DALLASERRA, Luc	(22) 20.09.2017
G05G 25/00	RAETH, Marc	(54) METHOD FOR DISPLAYING A
G06F 3/01	(31) 1902830	NAVIGATOR ASSOCIATED WITH
(11) EP3770718	(32) 19.03.2019	CONTENT AND ELECTRONIC DEVICE
(21) EP19771981.8	(33) France	FOR IMPLEMENTING THE SAME
(47) 28.12.2022	(51) G06F 3/00	(73) Samsung Electronics Co., Ltd.
(87) JP2019005119	H01R 13/52	(72) HAN, Jonghyun
26.09.2019	H04M 1/02	LEE, Ho Young
(22) 13.02.2019	H01M 10/42	LEE, Chaekyung
(54) INPUT DEVICE	H01R 13/73	KIM, Bo-Keun
(73) Alps Alpine Co., Ltd.	H01R 24/60	(31) 20160120610
(72) OGAWA, Toshio	H01R 27/02	(32) 21.09.2016
UENOMACHI, Takashi	H01R 29/00	(33) Korea (Republic)
MUTO, Shinya	(11) EP3428777	(51) G06F 3/01
WAKITA, Yoshitsugu	(21) EP16897597.7	H04N 13/383
MIYAKO, Ikuyasu	(47) 28.12.2022	G02B 27/01
KIMURA, Wataru	(87) CN2016078884	G02B 27/00
(31) 2018051380	12.10.2017	G02B 3/08
(32) 19.03.2018	(22) 08.04.2016	(11) EP3590027
(33) Japan	(54) ELECTRONIC DEVICE HAVING USB	(21) EP18746800.4
(51) G05G 7/00	TYPE-C INTERFACE	(47) 28.12.2022
G05G 1/02	(73) Huawei Technologies Co., Ltd.	(87) US2018040896
F16H 59/10	(72) WANG, Xiaolong	09.05.2019
H01H 25/00	WANG, Qiliang	(22) 05.07.2018
(11) EP3731058	WANG, Gaofeng	(54) MULTI-PERSPECTIVE EYE-TRACKING
(21) EP18902701.4	LI, Hui	FOR VR/AR SYSTEMS
(47) 28.12.2022	LIU, Xuelong	(73) Google LLC
(87) JP2018001938	(51) G06F 3/01	(72) PERREAULT, John D.
01.08.2019	G02B 27/01	(31) 201715832275
(22) 23.01.2018	G02B 27/00	201762579203 P
(54) OPERATION INPUT DEVICE	(11) EP3144779	(32) 05.12.2017
(73) Mitsubishi Electric Corporation	(21) EP16187657.8	31.10.2017
(72) YOKOSUKA, Yusuke	(47) 28.12.2022	(33) United States of America
MAETANI, Noriaki	(22) 07.09.2016	United States of America
FUJIKAWA, Yuko	(54) METHOD AND APPARATUS FOR	(51) G06F 3/03
(51) G06F 1/16	COMPENSATING FOR MOVEMENT OF	G06F 3/041
H04M 1/02	HEAD-MOUNTED DISPLAY	G06F 3/044
B32B 7/14	(73) Samsung Electronics Co., Ltd.	(11) EP3761155
B32B 3/08	(72) HWANG, Seokjoong	(21) EP20192060.0
B32B 3/30	SHIN, Youngsam	(47) 28.12.2022
B32B 5/18	LEE, Wonjong	(22) 19.04.2016
B32B 5/22	(31) 20150133087	(54) SENSOR CONTROLLER, POSITION
B32B 7/05	(32) 21.09.2015	INDICATOR, AND POSITION
B32B 7/12	(33) Korea (Republic)	DETECTING SYSTEM
B32B 17/06	(51) G06F 3/01	(73) Wacom Co., Ltd.
(11) EP3693830	G06F 3/044	(72) ODA, Yasuo
(21) EP17933537.7	(11) EP3662351	YAMAMOTO, Sadao
(47) 28.12.2022	(21) EP18745641.3	(31) 201562207257 P
(87) CN2017114000	(47) 28.12.2022	PCT/JP2016/058254
06.06.2019	(87) EP2018070802	(32) 19.08.2015
(22) 30.11.2017	07.02.2019	16.03.2016
(54) STRUCTURAL ASSEMBLY AND	(22) 31.07.2018	(33) United States of America
MOBILE TERMINAL	(54) HAPTIC FEEDBACK INTERFACE FOR	World Intellectual Property Office (WIPO)
(73) Honor Device Co., Ltd.	A MOTOR VEHICLE	(51) G06F 3/0354
(72) GUO, Renwei	(73) Valeo Comfort and Driving Assistance	G06F 3/0346
DAI, Xixiang	(72) AUBRY, Anthony	G01S 17/48
(51) G06F 1/20	(31) 1757312	G01S 17/46
H01L 23/367	(32) 31.07.2017	G01S 17/08
H01L 23/473	(33) France	G01S 17/88
H05K 7/20	(51) G06F 3/01	(11) EP3640773
H01L 23/40	H04N 5/232	(21) EP18200805.2
(11) EP3712744	G06F 3/04815	(47) 28.12.2022
(21) EP20163449.0	G06F 3/0484	(22) 16.10.2018
(47) 28.12.2022	G06F 3/0482	(54) INPUT PEN WITH DISTANCE METER
(22) 16.03.2020	G06F 3/04842	(73) Leica Geosystems AG
(54) HEAT SINK FOR A PLURALITY OF	(11) EP3299933	(72) BÖCKEM, Burkhard
MEMORY MODULES	(21) EP17192241.2	(51) G06F 3/041
(73) Bull SAS	(47) 28.12.2022	G06F 3/044

(11) EP2954392	G06F 3/0482	07.03.2019
(21) EP14707268.0	G06F 3/04847	(22) 31.08.2017
(47) 28.12.2022	G06F 3/0488	(54) INFORMATION WRITING METHOD
(87) US2014015157	G06F 3/04886	AND DEVICE
14.08.2014	(11) EP2780783	(73) Huawei Technologies Co., Ltd.
(22) 06.02.2014	(21) EP12849599.1	(72) LONGNOS, Florian
(54) FORCE DETERMINATION BASED ON	(47) 28.12.2022	YANG, Feng
CAPACITIVE SENSING	(87) US2012065939	YANG, Wei
(73) Apple Inc.	23.05.2013	<hr/>
(72) HARLEY, Jonah, A.	(22) 19.11.2012	(51) G06F 3/12
HUPPI, Brian, Q.	(54) DETECTING TOUCH INPUT FORCE	(11) EP3702901
SHAH, Dhaval, N.	(73) Sentons Inc.	(21) EP20157384.7
GRUNTHANER, Martin, P.	(72) LYNN, Lapoe, E.	(47) 28.12.2022
HOTELLING, Steven, P.	SHENG, Samuel, W.	(22) 14.02.2020
CHRISTOPHY, Miguel, C.	SHIH, Shih-Ming	(54) PROGRAM, PRINTING CONTROL
KATIYAR, Vivek	HSIEH, Yenyu	APPARATUS, AND CONTROL METHOD
TAN, Tan, Yew	(31) 201261673102 P	(73) CANON KABUSHIKI KAISHA
BUTLER, Christopher, J.	201213451288	(72) SAWADA, Hideharu
DE JONG, Erik, G.	201161561697 P	(31) 2019034741
QIAO, Rui	201161561660 P	(32) 27.02.2019
MARTISAUSKAS, Steven, J.	(32) 18.07.2012	(33) Japan
HOEN, Storrs, T.	19.04.2012	<hr/>
DINH, Richard, Hung, Minh	18.11.2011	(51) G06F 3/16
HOOTON, Lee, E.	18.11.2011	G06F 3/01
SPRAGGS, Ian, A.	(33) United States of America	H04S 7/00
COHEN, Sawyer, I.	United States of America	(11) EP3506082
PAKULA, David, A.	United States of America	(21) EP17210633.8
RICHARDS, Peter, W.	United States of America	(47) 28.12.2022
LEUNG, Omar, Sze	(51) G06F 3/0481	(22) 27.12.2017
SARTEE, Ming	G06F 3/0484	(54) AUDIO RENDERING FOR
(31) 201361883181 P	(11) EP3764211	AUGMENTED REALITY
201361762843 P	(21) EP19764501.3	(73) Nokia Technologies Oy
(32) 26.09.2013	(47) 28.12.2022	(72) LEPPÄNEN, Jussi
08.02.2013	(87) CN2019075184	LEHTINIEMI, Arto
(33) United States of America	12.09.2019	ERONEN, Antti
United States of America	(22) 15.02.2019	<hr/>
(51) G06F 3/041	(54) DISPLAY METHOD AND MOBILE	(51) G06F 3/16
G06F 3/046	TERMINAL	H04M 19/04
(11) EP3771974	(73) Vivo Mobile Communication Co., Ltd.	H03G 5/16
(21) EP20188274.3	(72) ZHAO, Junjie	(11) EP3401776
(47) 28.12.2022	(31) 201810179182	(21) EP17812750.2
(22) 29.07.2020	(32) 05.03.2018	(47) 28.12.2022
(54) ELECTRONIC APPARATUS	(33) China	(87) CN2017088505
(73) Samsung Display Co., Ltd.	(51) G06F 3/04842	21.12.2017
(72) Kishimoto, Hirotsugu	G06F 3/04883	(22) 15.06.2017
Hwang, Hyun-Been	G06F 3/0485	(54) SOUND EFFECT CONFIGURATION
Choi, Cheol Ho	G06F 3/0482	METHOD AND SYSTEM AND RELATED
(31) 20190170341	(11) EP3410283	DEVICE
20190094449	(21) EP17744510.3	(73) GUANGDONG OPPO MOBILE
(32) 19.12.2019	(47) 28.12.2022	TELECOMMUNICATIONS CORP., LTD.
02.08.2019	(87) KR2017000664	(72) GAN, Gaoting
(33) Korea (Republic)	03.08.2017	LI, Yajun
Korea (Republic)	(22) 19.01.2017	TU, Guang
(51) G06F 3/041	(54) METHOD FOR SELECTING CONTENT	YANG, Hai
G06V 40/13	AND ELECTRONIC DEVICE	(31) 201610438748
(11) EP3828676	THEREFOR	(32) 16.06.2016
(21) EP20201123.5	(73) Samsung Electronics Co., Ltd.	(33) China
(47) 28.12.2022	(72) BAE, Soojung	<hr/>
(22) 09.10.2020	(31) 20160010820	(51) G06F 8/38
(54) SIGNAL DETECTION METHOD AND	(32) 28.01.2016	G06F 9/445
ELECTRONIC DEVICE	(33) Korea (Republic)	(11) EP3494467
(73) Beijing Xiaomi Mobile Software Co., Ltd.	(51) G06F 3/06	(21) EP17745363.6
(72) CHENG, Chih-jen	G11C 16/10	(47) 28.12.2022
(31) 201911205670	G06F 12/02	(87) EP2017069719
(32) 29.11.2019	(11) EP3663901	08.02.2018
(33) China	(21) EP17923196.4	(22) 03.08.2017
(51) G06F 3/043	(47) 28.12.2022	(54) PERFORMING A CONTEXT-
G06F 3/041	(87) CN2017100098	DEPENDENT TASK IN A PROGRAM
		(73) Nagravision Sàrl
		(72) LE PERLERIN, Alain
		SARDA, Pierre
		(31) 16182645

(32) 03.08.2016	(72) DIAMOND, Jeffrey R.	08.05.2014
(33) European Patent Office (EPO)	PATEL, Avadh P.	(22) 30.10.2013
(51) G06F 8/38	(31) 201815941975	(54) METADATA-BASED VIRTUAL MACHINE
G06F 9/451	201762556274 P	CONFIGURATION
(11) EP3236352	(32) 30.03.2018	(73) Google LLC
(21) EP17167428.6	08.09.2017	(72) BEDA, Joseph S., III
(47) 28.12.2022	(33) United States of America	MCLUCKIE, Craig I.
(22) 20.04.2017	United States of America	ECK, Christopher L.
(54) AUTOMATED GRAPHICAL USER	(51) G06F 9/30	GANNHOLM, Martin R.
INTERFACE CONFIGURATION	G06F 21/52	ANDERSON, Evan K.
(73) AVEVA Software, LLC	G06F 12/14	MILLS, Matthew A.
(72) KANE, Douglas Paul	(11) EP3800546	(31) 201213665890
COBLE, Christopher R.	(21) EP20209381.1	(32) 31.10.2012
WEINRICH, Steven Michael	(47) 28.12.2022	(33) United States of America
KAMBACH, Julius Robert	(22) 26.05.2016	(51) G06F 9/455
KRAJEWSKI III, John Joseph	(54) PROCESSORS, METHODS, SYSTEMS,	H04L 9/40
SINGH, Manoranjan Kumar	AND INSTRUCTIONS TO PROTECT	(11) EP3893460
TRAN, Dave	SHADOW STACKS	(21) EP20185025.2
KUMAR, Raju Uthu	(73) Intel Corporation	(47) 28.12.2022
(31) 201715437267	(72) Shanbhogue, Vedvyas	(22) 09.07.2020
201662325670 P	Brandt, Jason W.	(54) AUTOTUNING A VIRTUAL FIREWALL
(32) 20.02.2017	Sahita, Ravi L.	(73) Juniper Networks, Inc.
21.04.2016	Huntley, Barry E.	(72) ALEXIS, Antony Ruban
(33) United States of America	Patel, Baiju V.	RAMANATHAN, Sai Prashanth
United States of America	(31) 201514752221	GANESAN, Ramasubramaniam
(51) G06F 8/41	(32) 26.06.2015	(31) 202041015775
G06F 9/455	(33) United States of America	202016883652
(11) EP3702908	(51) G06F 9/4401	(32) 11.04.2020
(21) EP19205354.4	G06F 9/50	26.05.2020
(47) 28.12.2022	G06F 21/51	(33) India
(22) 24.06.2016	G06F 3/06	United States of America
(54) HARDWARE ACCELERATION	H03M 7/30	(51) G06F 9/48
METHOD AND THE CORRESPONDING	(11) EP3518100	G06F 9/445
PROGRAM	(21) EP17862572.9	(11) EP3502889
(73) Huawei Technologies Co. Ltd.	(47) 28.12.2022	(21) EP18206899.9
(72) CHEN, Jian	(87) CN2017106554	(47) 28.12.2022
ZHOU, Hong	26.04.2018	(22) 19.11.2018
HU, Xinyu	(22) 17.10.2017	(54) METHOD AND DEVICE FOR
GUAN, Hongguang	(54) QUICK LOADING METHOD	PRELOADING APPLICATION,
ZHANG, Xiaojun	FOR KERNEL IMAGE FILE, AND	STORAGE MEDIUM, AND TERMINAL
(31) 201510373054	APPARATUS	DEVICE
(32) 30.06.2015	(73) Huawei Technologies Co., Ltd.	(73) GUANGDONG OPPO MOBILE
(33) China	(72) HU, Huifeng	TELECOMMUNICATIONS CORP., LTD.
(51) G06F 8/65	(31) 201610912248	(72) CHEN, Yan
G06F 9/50	(32) 19.10.2016	LIU, Yaoyong
(11) EP3792751	(33) China	(31) 201711396149
(21) EP20189343.5	(51) G06F 9/445	(32) 21.12.2017
(47) 28.12.2022	H04L 41/084	(33) China
(22) 04.08.2020	(11) EP3639134	(51) G06F 9/50
(54) VEHICLE ON-BOARD	(21) EP18737756.9	(11) EP3718008
COMMUNICATION DEVICE AND	(47) 28.12.2022	(21) EP18821890.3
COMMUNICATION METHOD	(87) US2018037208	(47) 28.12.2022
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	20.12.2018	(87) US2018063455
(72) TSUJI, Keisuke	(22) 13.06.2018	06.06.2019
MIYAUCHI, Kunihiro	(54) DETECTING AND MANAGING	(22) 30.11.2018
(31) 2019162239	RECURRING PATTERNS IN DEVICE	(54) PROVISIONING USING PRE-FETCHED
(32) 05.09.2019	AND SERVICE CONFIGURATION DATA	DATA IN SERVERLESS COMPUTING
(33) Japan	(73) Cisco Technology, Inc.	ENVIRONMENTS
(51) G06F 9/30	(72) BEVEMYR, Johan	(73) Cisco Technology, Inc.
(11) EP3676700	MOBERG, Carl	(72) SHIMAMURA, Komei
(21) EP18779130.6	(31) 201715621255	SAHA, Amit, Kumar
(47) 28.12.2022	(32) 13.06.2017	DUTTA, Debojyoti
(87) US2018049666	(33) United States of America	(31) 201715827969
14.03.2019	(51) G06F 9/455	(32) 30.11.2017
(22) 06.09.2018	(11) EP2915042	(33) United States of America
(54) EFFICIENT DIRECT CONVOLUTION	(21) EP13789937.3	(51) G06F 9/50
USING SIMD INSTRUCTIONS	(47) 28.12.2022	G06F 1/3206
(73) Oracle International Corporation	(87) US2013067507	G06F 9/451

G06F 11/30	G06F 11/07	(21) EP19186868.6
G06F 11/34	G06F 11/14	(47) 28.12.2022
G06F 21/62	(11) EP3876101	(22) 17.07.2019
G06T 15/00	(21) EP18941018.6	(54) DIRECT MEMORY ACCESS
H04N 21/414	(47) 28.12.2022	(73) STMicroelectronics (Grenoble 2) SAS
H04N 21/443	(87) CN2018116198	STMicroelectronics (Rousset) SAS
G09G 5/36	28.05.2020	(72) CLOUTE, François
G06F 1/324	(22) 19.11.2018	LENDRE, Sandrine
G06F 1/3234	(54) ABNORMALITY PROCESSING	(31) 1871349
G06F 1/3287	METHOD, TERMINAL DEVICE AND	1856705
G06F 1/329	STORAGE MEDIUM	(32) 02.11.2018
(11) EP3751418	(73) SHENZHEN HEYTAP TECHNOLOGY	19.07.2018
(21) EP19767053.2	CORP., LTD.	(33) France
(47) 28.12.2022	GUANGDONG OPPO MOBILE	France
(87) CN2019077964	TELECOMMUNICATIONS CORP., LTD.	(51) G06F 13/38
19.09.2019	(72) HUI, Tao	G06F 21/85
(22) 13.03.2019	(51) G06F 11/34	H04L 9/40
(54) RESOURCE CONFIGURATION	G06T 15/00	(11) EP3180705
METHOD AND APPARATUS,	G06F 11/30	(21) EP15831930.1
TERMINAL, AND STORAGE MEDIUM	(11) EP3316143	(47) 28.12.2022
(73) GUANGDONG OPPO MOBILE	(21) EP17199467.6	(87) US2015045294
TELECOMMUNICATIONS CORP., LTD.	(47) 28.12.2022	18.02.2016
(72) CHEN, Yan	(22) 31.10.2017	(22) 14.08.2015
CHENG, Jie	(54) PERFORMANCE PROFILING OF A	(54) END POINT SECURED NETWORK
(31) 201810550970	GRAPHICS UNIT	(73) Masergy Communications, Inc.
201810206376	(73) Imagination Technologies Limited	(72) STUTE, Michael Roy
(32) 31.05.2018	(72) FOO, Yoong-Chert	(31) 201414459409
13.03.2018	(31) 201618358	(32) 14.08.2014
(33) China	(32) 31.10.2016	(33) United States of America
China	(33) United Kingdom	(51) G06F 15/02
(51) G06F 9/50	(51) G06F 12/14	(11) EP2889781
G08C 17/00	G06F 12/10	(21) EP14198487.2
H05B 1/02	G06F 12/02	(47) 28.12.2022
(11) EP3617878	G06F 12/109	(22) 17.12.2014
(21) EP17911177.8	G06F 9/455	(54) Graph display control device, electronic
(47) 28.12.2022	G06F 13/16	device, graph display method and
(87) JP2017019371	(11) EP3901776	storage medium recording graph display
29.11.2018	(21) EP21168816.3	control processing program
(22) 24.05.2017	(47) 28.12.2022	(73) Casio Computer Co., Ltd.
(54) DATA PROCESSING SYSTEM, DATA	(22) 16.04.2021	(72) Endo, Kota
PROCESSING DEVICE, AND DATA	(54) REMAP ADDRESS SPACE	Suzuki, Kentaro
PROCESSING PROGRAM	CONTROLLER	Karaji, Kosuke
(73) Mitsubishi Electric Corporation	(73) NXP USA, Inc.	(31) 2013271793
(72) NAKANISHI, Sunao	(72) Dorris, Roderick Lee	(32) 27.12.2013
KAEDA, Satoshi	(31) 202016856210	(33) Japan
(51) G06F 11/07	(32) 23.04.2020	(51) G06F 15/16
G06F 1/24	(33) United States of America	G16H 10/20
G01R 31/3181	(51) G06F 12/14	H04W 76/18
G01R 31/317	G06F 12/1081	H04L 41/0654
G06F 1/26	G06F 21/62	H04L 47/726
H03K 19/007	(11) EP3798856	H04L 47/74
G06F 11/27	(21) EP20180443.2	H04L 45/00
(11) EP3236357	(47) 28.12.2022	H04L 45/28
(21) EP17166120.0	(22) 17.06.2020	(11) EP3483735
(47) 28.12.2022	(54) SECURE ADDRESS TRANSLATION	(21) EP18192579.3
(22) 11.04.2017	SERVICES USING MESSAGE	(47) 28.12.2022
(54) SYSTEM AND METHOD FOR	AUTHENTICATION CODES AND	(22) 25.09.2012
MANAGING SINGLE EVENT LATCHED	INVALIDATION TRACKING	(54) NETWORK CONNECTIVITY METHODS
(SEL) CONDITIONS	(73) Intel Corporation	AND SYSTEMS
(73) Hamilton Sundstrand Corporation	(72) KOUNAVIS, Michael	(73) Labrador Diagnostics LLC
(72) DICKEY, John A.	KOUFATY, David	(72) BALWANI, Sunny
HANSON, Michael J.	VAKHARWALA, Rupin	(31) 201113244836
KNOPE, Daniel	TRIKALINOU, Anna	(32) 26.09.2011
EARING, Matt	(31) 201916582919	(33) United States of America
(31) 201615134047	(32) 25.09.2019	(51) G06F 16/174
(32) 20.04.2016	(33) United States of America	G06F 3/06
(33) United States of America	(51) G06F 13/28	H03M 7/30
(51) G06F 11/28	(11) EP3598315	(11) EP3432168

(21) EP18184842.5	27.04.2017	(11) EP3891630
(47) 28.12.2022	(22) 21.10.2016	(21) EP19701654.6
(22) 20.07.2018	(54) RESERVOIR SOURING FORECASTING	(47) 28.12.2022
(54) METADATA SEPARATED CONTAINER FORMAT	(73) ConocoPhillips Company	(87) EP2019051817
(73) EMC IP Holding Company LLC	(72) JENNEMAN, Gary E.	30.07.2020
(72) LIANG, Shuang	BURGER, Edward	(22) 25.01.2019
KAMAT, Mahesh	KOLADE, Babajide	(54) METHOD FOR END ENTITY ATTESTATION
BHANJOIS, Bhimsen	(31) 201562245135 P	(73) Huawei Technologies Co., Ltd.
(31) 201715656338	(32) 22.10.2015	(72) EKBERG, Jan-Erik
(32) 21.07.2017	(33) United States of America	SOVIO, Sampo
(33) United States of America	(51) G06F 21/10	(51) G06F 21/64
(51) G06F 16/178	G06F 21/16	H04L 9/40
(11) EP3824396	G11B 20/00	H04L 9/32
(21) EP19739780.5	G10L 19/018	G06Q 20/02
(47) 28.12.2022	(11) EP3651034	G06Q 20/06
(87) US2019037584	(21) EP19207685.9	G06Q 20/22
23.01.2020	(47) 28.12.2022	G06Q 20/36
(22) 18.06.2019	(22) 07.11.2019	G06Q 20/38
(54) LONG UPLOAD TIME DETECTION AND MANAGEMENT	(54) SYSTEMS AND METHODS FOR WATERMARKING AUDIO OF SAAS APPLICATIONS	H04L 9/00
(73) Microsoft Technology Licensing, LLC	(73) Citrix Systems, Inc.	(11) EP3812936
(72) BARRETO, Jose Araujo	(72) CHAUHAN, Abhishek	(21) EP19883766.8
CHELARESCU, Filip	(31) 201816185805	(47) 28.12.2022
GLOVER, Andrew Keith	(32) 09.11.2018	(87) CN2019106591
RODRIGUES, John David	(33) United States of America	22.05.2020
ABERGEL, Meir Elie	(51) G06F 21/31	(2) 19.09.2019
BAILEY, Steven J.	G06F 21/57	(54) CROSS-BLOCKCHAIN DATA PROCESSING METHOD AND DEVICE, CLIENT TERMINAL, AND BLOCKCHAIN SYSTEM
(31) 201816036874	G06F 21/62	(73) Advanced New Technologies Co., Ltd.
(32) 16.07.2018	G06F 21/55	(72) QIU, Honglin
(33) United States of America	H04L 9/40	(31) 201811364964
(51) G06F 16/242	(11) EP3885946	(32) 16.11.2018
(11) EP3321818	(21) EP21164170.9	(33) China
(21) EP15898202.5	(47) 28.12.2022	(51) G06F 21/78
(47) 28.12.2022	(22) 23.03.2021	G06F 21/60
(87) JP2015069847	(54) METHOD OF MONITORING AND PROTECTING ACCESS TO AN ONLINE SERVICE	G06F 21/72
19.01.2017	(73) Cleafy Società per Azioni	H04L 9/06
(22) 10.07.2015	(72) Pastore, Nicolò	H04L 9/08
(54) DATA ACQUISITION DEVICE, DATA ACQUISITION METHOD AND DATA ACQUISITION PROGRAM	Parrinello, Emanuele	H04L 9/32
(73) Mitsubishi Electric Corporation	Giangregorio, Carmine	G06F 12/02
(72) TANAKA, Satoru	(31) 202000006340	G06F 12/14
KORI, Mitsunori	(32) 25.03.2020	G06F 9/30
(51) G06F 16/25	(33) Italy	G06F 9/35
G06F 16/2453	(51) G06F 21/42	(11) EP3757853
(11) EP3916577	H04L 9/40	(21) EP20163670.1
(21) EP21174135.0	(11) EP3918495	(47) 28.12.2022
(47) 28.12.2022	(21) EP20708904.6	(22) 17.03.2020
(22) 17.05.2021	(47) 28.12.2022	(54) CRYPTOGRAPHIC COMPUTING USING ENCRYPTED BASE ADDRESSES AND USED IN MULTI- TENANT ENVIRONMENTS
(54) PARALLEL LOAD OF MAPPING CONTAINERS FOR DATABASE SYSTEM START AND RESTART OPERATIONS	(87) US2020015924 06.08.2020	(73) Intel Corporation
(73) SAP SE	(22) 30.01.2020	(72) NEIGER, Gilbert
(72) THOMSEN, Dirk	(54) METHODS, SYSTEMS, AND APPARATUSES FOR IMPROVED MULTI-FACTOR AUTHENTICATION IN A MULTI-APP COMMUNICATION SYSTEM	DURHAM, David M
GLEBE, Thorsten	(73) Slack Technologies, LLC	BRANDT, Jason
SCHEUER, Tobias	(72) PIKE, Mark	LEMAY, Michael
THESING, Werner	SCHEMERS, Roland	JAYARAM MASTI, Ramya
GLOECKLE, Johannes	MCPHAIL, James	(31) 201916724026
(31) 202016883241	WAHL, Matthew	201916723871
(32) 26.05.2020	(31) 201916263889	201916723977
(33) United States of America	(32) 31.01.2019	201916724105
(51) G06F 17/40	(33) United States of America	201916723927
(11) EP3479148	(51) G06F 21/44	201916722342
(21) EP16858349.0	G06F 21/57	201916722707
(47) 28.12.2022		202016740359
(87) US2016058226		201916724059

201916723468	(11) EP3550467	(51) G06N 3/04
201962868884 P	(21) EP17835784.4	G06N 3/08
(32) 20.12.2019	(47) 28.12.2022	G05B 19/042
20.12.2019	(87) CN2017091581	G05B 23/02
20.12.2019	07.06.2018	G05B 19/418
20.12.2019	(22) 04.07.2017	(11) EP3899679
20.12.2019	(54) IMAGE MATCHING METHOD, DEVICE	(21) EP20718163.7
20.12.2019	AND SYSTEM, AND STORAGE	(47) 28.12.2022
20.12.2019	MEDIUM	(87) EP2020058069
10.01.2020	(73) BOE Technology Group Co., Ltd.	08.10.2020
20.12.2019	(72) TANG, Xiaojun	(22) 24.03.2020
20.12.2019	(31) 201611094077	(54) METHOD AND DEVICE FOR
29.06.2019	(32) 01.12.2016	MONITORING A MILLING PROCESS
(33) United States of America	(33) China	(73) Siemens Aktiengesellschaft
United States of America	(51) G06K 19/06	(72) OCHSENFELD, Henning
United States of America	(11) EP3454258	PETTIGREW, Liam
United States of America	(21) EP17845133.2	REIMANN, Thorsten
United States of America	(47) 28.12.2022	(31) 19166079
United States of America	(87) CN2017095569	(32) 29.03.2019
United States of America	08.03.2018	(33) European Patent Office (EPO)
United States of America	(22) 02.08.2017	(51) G06N 10/00
United States of America	(54) GRAPHIC IDENTIFICATION CODE	G02F 1/33
United States of America	GENERATION METHOD AND	(11) EP3785185
United States of America	APPARATUS	(21) EP19749525.2
(51) G06G 7/60	(73) Tencent Technology (Shenzhen)	(47) 28.12.2022
G06N 3/063	Company Limited	(87) US2019042841
H01L 21/822	(72) MAI, Jinkai	20.02.2020
H01L 21/8239	HE, Ruibang	(22) 22.07.2019
H01L 27/04	DAI, Yunfeng	(54) ACOUSTO-OPTIC MODULATOR
H01L 27/105	WU, Hanjie	CONFIGURATIONS FOR QUANTUM
H01L 29/82	LUO, Fangning	PROCESSING
(11) EP3767517	(31) 201610799548	(73) University of Maryland, College Park
(21) EP19767397.3	(32) 31.08.2016	IonQ, Inc.
(47) 28.12.2022	(33) China	(72) AMINI, Jason Madjdi
(87) JP2019007557	(51) G06K 19/07	MIZRAHI, Jonathan
19.09.2019	H02M 3/156	HUDEK, Kai
(22) 27.02.2019	G05F 1/56	GOLDMAN, Michael
(54) PRODUCT-SUM OPERATION DEVICE,	(11) EP3336773	SU, Yuan
NEUROMORPHIC DEVICE, AND	(21) EP17200377.4	(31) 201916515508
METHOD FOR USING PRODUCT-SUM	(47) 28.12.2022	201862702111 P
OPERATION DEVICE	(22) 07.11.2017	(32) 18.07.2019
(73) TDK Corporation	(54) VOLTAGE REGULATION CIRCUIT FOR	23.07.2018
(72) SHIBATA Tatsuo	AN RFID CIRCUIT	(33) United States of America
SASAKI Tomoyuki	(73) EM Microelectronic-Marin SA	United States of America
(31) 2018049766	(72) Buescher, Kevin Scott	(51) G06Q 30/06
(32) 16.03.2018	(31) 201615380663	G06Q 20/38
(33) Japan	(32) 15.12.2016	G06Q 20/40
(51) G06K 7/08	(33) United States of America	G06Q 40/00
(11) EP3522065	(51) G06K 19/077	G06Q 20/06
(21) EP19155254.6	(11) EP2727052	(11) EP3816910
(47) 28.12.2022	(21) EP12735234.2	(21) EP19874820.4
(22) 04.02.2019	(47) 28.12.2022	(47) 28.12.2022
(54) MAGNETIC STRIP READER, METHOD	(87) EP2012062153	(87) CN2019103238
FOR DETERMINING THE STRIP	10.01.2013	30.04.2020
SCANNING SPEED, METHOD FOR	(22) 22.06.2012	(22) 29.08.2019
RECOGNISING DATA RECORDED ON	(54) PORTABLE DEVICE WITH	(54) BLOCKCHAIN-BASED TRANSACTION
THE STRIP AND CORRESPONDING	APERTURED ELECTRICAL CONTACTS	PROCESSING METHOD AND
DEVICES	(73) Thales Dis France SAS	APPARATUS, AND ELECTRONIC
(73) Banks and Acquirers International	(72) MERLIN, Lionel	DEVICE
Holding	LAHOU, Nizar	(73) Advanced New Technologies Co., Ltd.
(72) CARABELLI, Andre	BUYUKKALENDER, Arek	(72) WANG, Jiyuan
(31) 1850976	DOSSETTO, Lucile	YAN, Xuebing
(32) 06.02.2018	ROBERTET, Laurence	(31) 201811253444
(33) France	BRONDINO, Catherine	(32) 25.10.2018
(51) G06K 9/62	SEBAN, Frédéric	(33) China
G06T 7/33	(31) 11305857	(51) G06V 10/24
G06V 10/46	(32) 01.07.2011	G06V 20/20
G06V 10/75	(33) European Patent Office (EPO)	G06K 7/10

G06T 7/80	(73) Witte Automotive GmbH	(87) IB2017056873
G06V 10/56	(72) MENSCH, Reinaldo	17.05.2018
(11) EP3343443	GOLDSCHMIDT, Christian	(22) 03.11.2017
(21) EP17197411.6	(31) 102015120296	(54) SYSTEMS AND METHODS FOR
(47) 28.12.2022	(32) 24.11.2015	SUPERVISION OF LOCAL ANALYTICS
(22) 19.10.2017	(33) Germany	(73) 3M Innovative Properties Company
(54) OBJECT DETECTION FOR VIDEO	(51) G07C 9/00	(72) BROOKS, Brian E.
CAMERA SELF-CALIBRATION	H04W 4/021	BENOIT, Gilles J.
(73) Accenture Global Solutions Limited	B60R 25/24	(31) 201662420137 P
(72) BATALLER, Cyrille	G01S 5/02	(32) 10.11.2016
ASTROM, Anders	G01S 11/06	(33) United States of America
(31) 201615395770	H04Q 9/00	(51) G08G 1/14
(32) 30.12.2016	(11) EP3591429	A47G 1/16
(33) United States of America	(21) EP18761850.9	G09F 27/00
(51) G06V 10/44	(47) 28.12.2022	G09F 7/22
(11) EP3005237	(87) JP2018000927	G08B 5/22
(21) EP14804913.3	07.09.2018	G08G 3/00
(47) 28.12.2022	(22) 16.01.2018	G09F 7/00
(87) US2014039315	(54) LOCATION DETERMINATION SYSTEM	(11) EP3639254
04.12.2014	(73) DENSO CORPORATION	(21) EP18732692.1
(22) 23.05.2014	(72) SANJI, Kenichiro	(47) 28.12.2022
(54) AUTOMATIC DETECTION OF	YAMAGUCHI, Taichi	(87) EP2018065147
REGULAR PATTERNS OF FEATURES	MATSUMOTO, Munenori	20.12.2018
(73) Siemens Industry Software Inc.	HIRAO, Noritaka	(22) 08.06.2018
(72) MATTSON, Howard Charles Duncan	(31) 2017226766	(54) DEVICE AND METHOD FOR
KING, Douglas Joseph	2017036124	INDICATION OF AVAILABILITY OF
STAPLES, Daniel C.	(32) 27.11.2017	OCCUPIABLE SPACE
(31) 201313907034	28.02.2017	(73) Outsmart AB
(32) 31.05.2013	(33) Japan	(72) LEANDERSSON, Carl Fredrik
(33) United States of America	Japan	(31) 1750764
(51) G06V 40/13	(51) G07D 11/00	(32) 15.06.2017
G06F 3/041	(11) EP3616170	(33) Sweden
G06K 9/00	(21) EP18725395.0	(51) G08G 1/16
G06F 1/16	(47) 28.12.2022	B60R 21/00
H04M 1/02	(87) EP2018000221	G06Q 50/30
(11) EP3467701	01.11.2018	G08G 1/09
(21) EP16902744.8	(22) 25.04.2018	B60R 21/013
(47) 28.12.2022	(54) SYSTEM FOR PROCESSING AND	H04W 4/44
(87) CN2016083755	PACKAGING DOCUMENTS OF VALUE,	(11) EP3309769
30.11.2017	IN PARTICULAR BANKNOTES	(21) EP16807644.6
(22) 27.05.2016	(73) Giesecke+Devrient Currency Technology	(47) 28.12.2022
(54) FINGERPRINT MODULE AND	GmbH	(87) JP2016067580
ELECTRONIC DEVICE	(72) CHRISTL, Rudolf	15.12.2016
(73) Honor Device Co., Ltd.	HÖSSLE, Gerhard	(22) 13.06.2016
(72) ZHAO, Kuibing	(31) 102017004064	(54) VEHICLE-MOUNTED DEVICE AND
GUO, Wenping	(32) 27.04.2017	VEHICLE COLLISION PREVENTION
MA, Dong	(33) Germany	METHOD
(51) G07C 1/22	(51) G08B 17/113	(73) Hitachi Construction Machinery Co., Ltd.
A63B 24/00	G08B 29/14	(72) KATOU, Seiya
(11) EP3139349	G08B 29/04	WATANABE, Hiroshi
(21) EP15183712.7	(11) EP3836104	ITO, Takeshi
(47) 28.12.2022	(21) EP20208139.4	(31) 2015119094
(22) 03.09.2015	(47) 28.12.2022	(32) 12.06.2015
(54) METHOD AND SYSTEM FOR	(22) 17.11.2020	(33) Japan
MEASURING OR PREDICTING A	(54) IDENTIFICATION OF CAP OR COVER	(51) G08G 1/16
HURDLE RACE TIME	ON A DETECTOR	G05D 1/02
(73) Swiss Timing Ltd.	(73) Carrier Corporation	G08G 9/02
(72) Galli, Reto M.	(72) KYBARSHI, Eranna	H04W 4/40
Richard, Pascal M.	CHALLA, SirishaDL	H04W 4/70
(51) G07C 9/00	KALAGANI, Ramana Babu	(11) EP3401891
G07C 9/37	(31) 201911051253	(21) EP17170224.4
(11) EP3362997	(32) 11.12.2019	(47) 28.12.2022
(21) EP16801186.4	(33) India	(22) 09.05.2017
(47) 28.12.2022	(51) G08B 29/18	(54) DISTRIBUTED CONSENSUS
(87) EP2016078524	G08B 21/16	NETWORKS SUPPORTING MOBILE
01.06.2017	(11) EP3539028	EDGE COMPUTING
(22) 23.11.2016	(21) EP17869137.4	(73) Deutsche Telekom AG
(54) CLOSABLE CONTAINER	(47) 28.12.2022	(72) HEIDER-AVIET, Andreas

HETZER, Dirk	(33) Japan	(32) 26.07.2016
(51) G08G 1/16	(51) G09F 3/03	(33) China
G08G 1/00	(11) EP3152749	(51) G09G 3/36
G01S 13/931	(21) EP15731391.7	(11) EP2975606
(11) EP3471076	(47) 28.12.2022	(21) EP13859608.5
(21) EP18195453.8	(87) GB2015051710	(47) 28.12.2022
(47) 28.12.2022	17.12.2015	(87) CN2013075503
(22) 19.09.2018	(22) 10.06.2015	18.09.2014
(54) ELECTRONIC DEVICE AND VEHICLE	(54) TAMPER-EVIDENT RING ASSEMBLIES	(22) 10.05.2013
(73) LG Electronics Inc.	(73) Assa Abloy Limited	(54) REPAIR CIRCUIT OF DISPLAY PANEL
(72) PARK, Yongsoo	(72) SMITH, Robert	(73) BOE Technology Group Co., Ltd.
KONG, Kwangsik	WINNER, Duncan	Beijing BOE Display Technology Co., Ltd.
(31) 20170122052	HOLLAND, Janusz Lucien	(72) XU, Yizhen
(32) 21.09.2017	(31) 201410587	SUN, Zhihua
(33) Korea (Republic)	(32) 13.06.2014	WU, Xingji
(51) G08G 5/00	(33) United Kingdom	WANG, Jianming
G05D 1/06	(51) G09F 9/33	ZHANG, Liang
(11) EP3792896	G09F 9/302	(31) 201310081681
(21) EP20194210.9	(11) EP3828873	(32) 14.03.2013
(47) 28.12.2022	(21) EP19924637.2	(33) China
(22) 02.09.2020	(47) 28.12.2022	(51) G10H 1/00
(54) AUTOMATIC DESCENT METHOD FOR	(87) CN2019117901	G10H 1/36
AN AIRCRAFT FROM SUPERSONIC	22.04.2021	G10L 21/0272
REGIME AND ASSOCIATED SYSTEM	(22) 13.11.2019	G10L 25/30
(73) Honeywell International Inc.	(54) LED DISPLAY PANEL	(11) EP3608903
(72) MELENDEZ, Luis	(73) Shenzhen Infiled Electronics Co., Ltd	(21) EP19188427.9
(31) 201916570781	(72) HAO, Zongchao	(47) 28.12.2022
(32) 13.09.2019	LIU, Qiuhe	(22) 25.07.2019
(33) United States of America	WEI, Wentao	(54) SINGING VOICE SEPARATION WITH
(51) G09B 23/28	(31) 201910993354	DEEP U-NET CONVOLUTIONAL
G09B 23/30	(32) 18.10.2019	NETWORKS
(11) EP3517168	(33) China	(73) Spotify AB
(21) EP19164729.6	(51) G09F 13/04	(72) JANSSON, Andreas Simon Thore
(47) 28.12.2022	G09F 13/08	SACKFIELD, Angus William
(22) 06.03.2018	G09F 23/04	SUNG, Ching Chuan
(54) 3-D ELECTROPHYSIOLOGY HEART	G05B 19/05	(31) 201816165498
SIMULATION SYSTEM AND RELATED	(11) EP3521951	201816055870
METHODS	(21) EP17855463.0	(32) 19.10.2018
(73) Biosense Webster (Israel) Ltd.	(47) 28.12.2022	06.08.2018
(72) LU, Albert	(87) JP2017029430	(33) United States of America
WU, Guoqiang	05.04.2018	United States of America
LAI, Weiguo	(22) 16.08.2017	(51) G10K 11/16
(31) 201715633224	(54) INDUSTRIAL ELECTRONIC	F01N 1/02
201762468283 P	APPARATUS	F02C 7/24
(32) 26.06.2017	(73) Omron Corporation	F02M 35/12
07.03.2017	(72) OTSU, Sadahito	F23R 3/00
(33) United States of America	NADA, Heita	F23R 3/06
United States of America	AZUMA, Yoshimi	(11) EP3655946
(51) G09C 1/00	(31) 2016194532	(21) EP18835586.1
H04L 9/28	(32) 30.09.2016	(47) 28.12.2022
G06F 7/24	(33) Japan	(87) US2018042928
H04L 9/08	(51) G09G 3/3208	24.01.2019
(11) EP3696795	(11) EP3493188	(22) 19.07.2018
(21) EP18865539.3	(21) EP17761174.6	(54) ACOUSTIC DAMPER FOR GAS
(47) 28.12.2022	(47) 28.12.2022	TURBINE COMBUSTORS
(87) JP2018037897	(87) CN2017073790	(73) President and Fellows of Harvard
18.04.2019	01.02.2018	College
(22) 11.10.2018	(22) 16.02.2017	Siemens Canada Limited
(54) CONFIDENTIAL SORT SYSTEM AND	(54) PIXEL ARRANGEMENT STRUCTURE,	(72) BERTOLDI, Katia
METHOD	PIXEL CIRCUIT, DISPLAY PANEL, AND	JAVID, Farhad
(73) Nippon Telegraph And Telephone	DRIVING METHOD	BOURGEOIS, Genevieve
Corporation	(73) BOE Technology Group Co., Ltd.	JETTE, François-Xavier
(72) IKARASHI, Dai	Chengdu BOE Optoelectronics	PHAM, Minh Quan
HAMADA, Koki	Technology Co., Ltd.	SHANIAN, Ali
CHIDA, Koji	(72) WU, Yuan	SCHAENZER, Megan
(31) 2017199210	JIANG, Luxia	(31) 201762534767 P
(32) 13.10.2017	DAI, Hongwei	(32) 20.07.2017
	(31) 201610596086	(33) United States of America

(51) G10K 11/178	SCHULZE, Katrin	(21) EP21160112.5
(11) EP2987162	SHEN, Zhongnan	(47) 28.12.2022
(21) EP14711079.5	ANGKITITRAKUL, Pongtep	(22) 21.08.2018
(47) 28.12.2022	BEI, Gengyan	(54) ENCODING APPARATUS
(87) US2014019395	XIONG, Nikita	(73) HUAWEI TECHNOLOGIES CO., LTD.
23.10.2014	(31) 201462014469 P	(72) Shlomot, Eyal
(22) 28.02.2014	(32) 19.06.2014	Gibbs, Jonathan Alastair
(54) SYSTEMS AND METHODS	(33) United States of America	Li, Haiting
FOR HYBRID ADAPTIVE NOISE	(51) G10L 15/22	(31) 201710731482
CANCELLATION	H04L 65/80	(32) 23.08.2017
(73) Cirrus Logic, Inc.	G06F 3/16	(33) China
(72) HELLMAN, Ryan A.	H04L 67/568	(51) G10L 19/26
(31) 201313924935	H04L 67/61	G10L 21/0324
201361812823 P	G10L 15/30	G10L 21/0364
(32) 24.06.2013	G10L 15/08	G10L 25/90
17.04.2013	(11) EP3906549	(11) EP3792917
(33) United States of America	(21) EP19707535.1	(21) EP19800273.5
United States of America	(47) 28.12.2022	(47) 28.12.2022
(51) G10K 11/34	(87) US2019016882	(87) JP2019011984
B06B 1/02	13.08.2020	14.11.2019
G01S 7/52	(22) 06.02.2019	(22) 22.03.2019
G01S 15/89	(54) VOICE QUERY QOS BASED ON	(54) PITCH ENHANCEMENT APPARATUS,
(11) EP3751558	CLIENT-COMPUTED CONTENT	METHOD, COMPUTER PROGRAM
(21) EP19179597.0	METADATA	AND RECORDING MEDIUM FOR THE
(47) 28.12.2022	(73) Google LLC	SAME
(22) 12.06.2019	(72) SHARIFI, Matthew	(73) NIPPON TELEGRAPH AND
(54) METHOD FOR GENERATING	KRACUN, Aleksandar	TELEPHONE CORPORATION
ULTRASOUND TRANSMISSION	(51) G10L 15/22	(72) KAMAMOTO, Yutaka
WAVES AND ULTRASOUND SYSTEM	H04W 48/18	SUGIURA, Ryosuke
FOR CARRYING OUT THE METHOD	G06F 3/16	MORIYA, Takehiro
(73) Esaote S.p.A.	H04W 88/06	(31) 2018091199
(72) CROCCO, MARCO	(11) EP3526789	(32) 10.05.2018
BIORDI, FULVIO	(21) EP17862881.4	(33) Japan
PELLEGRETTI, PAOLO	(47) 28.12.2022	(51) G10L 21/0208
(51) G10L 15/06	(87) US2017056828	H04M 9/08
G10L 15/02	26.04.2018	(11) EP3800639
G10L 15/187	(22) 16.10.2017	(21) EP20204378.2
G10L 15/193	(54) VOICE CAPABILITIES FOR PORTABLE	(47) 28.12.2022
(11) EP3373293	AUDIO DEVICE	(22) 21.03.2016
(21) EP16861490.7	(73) Harman International Industries,	(54) ADAPTIVE AUDIO FILTERING
(47) 28.12.2022	Incorporated	(73) Dolby Laboratories Licensing Corporation
(87) CN2016103691	(72) OWENS, David	(72) SHI, Dong
11.05.2017	(31) 201662409287 P	DICKINS, Glenn N.
(22) 28.10.2016	(32) 17.10.2016	GUNAWAN, David
(54) SPEECH RECOGNITION METHOD	(33) United States of America	SUN, Xuejing
AND APPARATUS	(51) G10L 17/00	(31) 201562162937 P
(73) Alibaba Group Holding Limited	G10L 17/04	PCT/CN2015/075208
(72) Li, Xiaohui	G10L 17/14	15169483
Li, Hongyan	H04M 3/22	(32) 18.05.2015
(31) 201510752397	H04M 3/493	27.03.2015
(32) 06.11.2015	(11) EP3659139	27.05.2015
(33) China	(21) EP18837292.4	(33) United States of America
(51) G10L 15/22	(47) 28.12.2022	World Intellectual Property Office (WIPO)
G06F 3/16	(87) US2018039782	European Patent Office (EPO)
G10L 17/00	31.01.2019	(51) G10L 21/0272
(11) EP3158427	(22) 27.06.2018	G10L 15/20
(21) EP15809779.0	(54) AN ADAPTIVE, MULTI-MODAL FRAUD	G10L 15/00
(47) 28.12.2022	DETECTION SYSTEM	H04R 3/00
(87) US2015036676	(73) Vail Systems, Inc.	G10L 21/0216
23.12.2015	(72) RAO, Srinivasa	(11) EP3688751
(22) 19.06.2015	WHITELEY, Todd	(21) EP17927221.6
(54) SYSTEM AND METHOD FOR	(31) 201715658994	(47) 28.12.2022
SPEECH-ENABLED PERSONALIZED	(32) 25.07.2017	(87) CN2017103846
OPERATION OF DEVICES AND	(33) United States of America	04.04.2019
SERVICES IN MULTIPLE OPERATING	(51) G10L 19/008	(22) 28.09.2017
ENVIRONMENTS	G10L 19/04	(54) METHOD AND DEVICE FOR VOICE
(73) Robert Bosch GmbH	G10L 25/45	RECOGNITION
(72) WENG, Fuliang	(11) EP3901949	

(73) Harman International Industries, Incorporated	(87) GB2019051290 05.12.2019	(54) SPD PLUG-IN MODULE, SPD BASE AND PLUG-IN SPD
(72) Bi, Xiangru	(22) 10.05.2019	(73) Longke Electronics (Huiyang) Co., Ltd.
ZHANG, Guoxia	(54) JET IMPINGEMENT COOLING APPARATUS AND METHOD	(72) TSENG, Chinglung
(51) G11C 16/16	(73) Oxford University Innovation Limited	CHEN, Zetong
G11C 16/32	(72) NICHOLAS, Jack	(31) 202010237699
G11C 16/04	HOLT WONG, Tsun	(32) 30.03.2020
(11) EP3381038	PEARCE, Robert	(33) China
(21) EP16801256.5	IRELAND, Peter	(51) H01F 3/10
(47) 28.12.2022	(31) 201808726	H01F 27/28
(87) EP2016078823	(32) 29.05.2018	H01F 27/40
01.06.2017	(33) United Kingdom	(11) EP3739601
(22) 25.11.2016	(51) H01B 1/08	(21) EP19175151.0
(54) ELECTRONIC DEVICE WITH MEMORY ERASED BY PAGE	H01B 1/14	(47) 28.12.2022
(73) Thales Dis France SAS	H01B 1/06	(22) 17.05.2019
(72) GALLAS, Frederic	C01G 33/00	(54) INTERLEAVED LLC CONVERTER
YANTO, Rudy	C01G 35/00	(73) Infineon Technologies Austria AG
DUMAS, Vincent	H01M 10/052	(72) WEGER, Robert
VERGNES, Fabrice	H01M 10/0562	(51) H01G 11/48
(31) 15306881	H01M 4/62	H01G 11/86
(32) 26.11.2015	C01B 25/455	H01M 4/60
(33) European Patent Office (EPO)	C01G 35/02	H01G 11/02
(51) G11C 16/28	H01M 10/0525	(11) EP3786995
G11C 16/34	(11) EP3904283	(21) EP19194900.7
(11) EP3642842	(21) EP19904950.3	(47) 28.12.2022
(21) EP18848740.9	(47) 28.12.2022	(22) 02.09.2019
(47) 28.12.2022	(87) JP2019046737	(54) PACA:PEDOT ELECTRODE MATERIALS
(87) US2018041332	02.07.2020	(73) Ligna Energy AB
28.02.2019	(22) 29.11.2019	(72) Inganäs, Olle
(22) 09.07.2018	(54) SOLID ELECTROLYTE MATERIAL AND BATTERY USING SAME	Ajjan, Nadia
(54) IMPROVED SENSE AMPLIFIER CIRCUIT FOR READING DATA IN A FLASH MEMORY CELL	(73) Panasonic Intellectual Property Management Co., Ltd.	(51) H01G 13/02
(73) Silicon Storage Technology, Inc.	(72) UENO, Koki	H01G 13/00
(72) TRAN, Hieu, Van	TANAKA, Yoshiaki	H01G 11/84
LY, Anh	ICHIKAWA, Kazuhide	H01G 11/74
VU, Thuan	ASANO, Tetsuya	H01G 11/76
HONG, Stanley	SAKAI, Akihiro	H01M 10/04
(31) 201715687092	(31) 2019190374	H01M 4/70
(32) 25.08.2017	2019159080	B65H 20/24
(33) United States of America	2019125548	H01M 10/0587
(51) G16H 10/60	2018248586	H01M 50/538
G16H 20/40	2018248585	(11) EP3586346
G16H 30/20	(32) 17.10.2019	(21) EP18712011.8
(11) EP3314491	30.08.2019	(47) 28.12.2022
(21) EP16759967.9	04.07.2019	(87) IB2018051021
(47) 28.12.2022	28.12.2018	30.08.2018
(87) DE2016200279	28.12.2018	(22) 20.02.2018
29.12.2016	(33) Japan	(54) MACHINING APPARATUS AND METHOD
(22) 16.06.2016	Japan	(73) Manz Italy S.r.l.
(54) METHOD FOR VALIDATING PATIENTS, AND DEVICE FOR USING THE METHOD	Japan	(72) SALE, Massimiliano
(73) Opasca GmbH	Japan	BARBIERI, Pantaleone
(72) LIEBSCHER, Steffen	(51) H01C 7/112	(31) 201700019166
MACHMER, Timo	H01C 7/12	201700019147
SWERDLOW, Alexej	H01H 37/08	201700019129
(31) 102015211567	H01H 9/16	(32) 21.02.2017
(32) 23.06.2015	H01H 9/32	21.02.2017
(33) Germany	H01H 37/76	(33) Italy
(51) G21B 1/13	H01H 83/10	Italy
H01L 23/473	H01T 1/12	(51) H01H 9/16
H01S 3/04	H01T 1/14	(11) EP3799088
H01S 3/042	H01T 4/04	(21) EP20306129.6
(11) EP3803903	(11) EP3889975	(47) 28.12.2022
(21) EP19724584.8	(21) EP20207391.2	(22) 30.09.2020
(47) 28.12.2022	(47) 28.12.2022	(54) INDICATING DEVICE OF DUAL-POWER AUTOMATIC TRANSFER SWITCH
	(22) 13.11.2020	

AND DUAL-POWER AUTOMATIC TRANSFER SWITCH	(31) 2018075905	(54) CRYOTRANSFER HOLDER AND WORKSTATION
(73) Schneider Electric Industries SAS	(32) 11.04.2018	(73) Gatan, Inc.
(72) Zeng, Xiaojing	(33) Japan	(72) Gubbens, Alexander Jozef
Wang, Han	(51) H01H 50/54	Hunt, John Andrew
Ma, Qian	H01H 1/20	Azimi, Masoud
(31) 201921673466 U	(11) EP3116015	Pantelic, Radosav
(32) 30.09.2019	(21) EP16178664.5	Zolkowski, Ron
(33) China	(47) 28.12.2022	Booth, Chris
(51) H01H 9/28	(22) 08.07.2016	(31) 201762579040 P
H01H 13/50	(54) CONTACT BRIDGE ARRANGEMENT FOR AN ELECTRICAL SWITCHING ELEMENT	(32) 30.10.2017
(11) EP3913651	(73) TE Connectivity Germany GmbH	(33) United States of America
(21) EP21173859.6	(72) KROEKER, Matthias	(51) H01J 49/06
(47) 28.12.2022	SANDECK, Peter	(11) EP3776623
(22) 14.05.2021	GABEL, Udo	(21) EP19714459.5
(54) APPARATUS AND METHOD FOR ACTIVATING SWITCHES	HAEHNEL, Thomas	(47) 28.12.2022
(73) Gulfstream Aerospace Corporation	(31) 102015212817	(87) EP2019058678
(72) PARKER, David	(32) 08.07.2015	10.10.2019
FROST, Ryan	(33) Germany	(22) 05.04.2019
(31) 202015929809	(51) H01H 85/00	(54) PARTLY SEALED ION GUIDE AND ION BEAM DEPOSITION SYSTEM
(32) 22.05.2020	H01H 85/175	(73) Technische Universität München
(33) United States of America	H01H 85/12	(72) KAPOSÍ, Tobias
(51) H01H 9/54	H01H 37/76	SCHLICHTING, Hartmut
(11) EP3688780	H01H 85/08	BARTH, Johannes
(21) EP18780053.7	H01H 85/18	WALZ, Andreas
(47) 28.12.2022	H01H 85/38	(31) 18165950
(87) EP2018075853	H01H 85/147	18165949
04.04.2019	(11) EP3910660	18165948
(22) 25.09.2018	(21) EP19919800.3	(32) 05.04.2018
(54) LOW-VOLTAGE CIRCUIT BREAKER DEVICE	(47) 28.12.2022	05.04.2018
(73) Eaton Intelligent Power Limited	(87) CN2019106991	05.04.2018
(72) ASKAN, Kenan	24.09.2020	(33) European Patent Office (EPO)
(31) 102017122218	(22) 20.09.2019	European Patent Office (EPO)
(32) 26.09.2017	(54) THERMAL CUTOFF	European Patent Office (EPO)
(33) Germany	(73) Xiamen Set Electronics Co., Ltd	(51) H01L 21/20
(51) H01H 9/54	(72) HONG, Yaoxiang	(11) EP3455874
H02H 7/22	(31) 201920354461 U	(21) EP17722645.3
H01L 23/053	(32) 20.03.2019	(47) 28.12.2022
H05K 5/00	(33) China	(87) US2017030124
(11) EP3711075	(51) H01J 37/147	16.11.2017
(21) EP18800628.2	H01J 37/04	(22) 28.04.2017
(47) 28.12.2022	(11) EP3400608	(54) DIRECT FORMATION OF HEXAGONAL BORON NITRIDE ON SILICON BASED DIELECTRICS
(87) EP2018080778	(21) EP17736363.7	(73) Globalwafers Co., Ltd.
23.05.2019	(47) 28.12.2022	The Board of Trustees of the University of Illinois
(22) 09.11.2018	(87) US2017012386	(72) BERRY, Vikas
(54) MECHATRONIC MODULE HAVING A HYBRID CIRCUIT ARRANGEMENT	13.07.2017	BEHURA, Sanjay
(73) Eaton Intelligent Power Limited	(22) 05.01.2017	NGUYEN, Phong
(72) ASKAN, Kenan	(54) ELEKTRON BEAM APPARATUS COMPRISING BLANKING SYSTEM WITH IMPROVED HEAT DISTRIBUTION	SEACRIST, Michael R.
(31) 102017127076	(73) Kla-Tencor Corporation	(31) 201662335149 P
(32) 17.11.2017	(72) JIANG, Xinrong	(32) 12.05.2016
(33) Germany	SEARS, Christopher	(33) United States of America
(51) H01H 25/04	LARSON, Doug	(51) H01L 21/3213
H01H 25/06	(31) 201615255314	C09K 13/08
H01H 3/50	201662276824 P	H01L 29/66
(11) EP3780054	(32) 02.09.2016	H01L 29/49
(21) EP19784917.7	09.01.2016	H01L 29/51
(47) 28.12.2022	(33) United States of America	(11) EP3381046
(87) JP2019007838	United States of America	(21) EP16869167.3
17.10.2019	(51) H01J 37/20	(47) 28.12.2022
(22) 28.02.2019	G01N 1/42	(87) US2016063323
(54) MULTIDIRECTIONAL INPUT DEVICE	(11) EP3477680	01.06.2017
(73) Alps Alpine Co., Ltd.	(21) EP18202746.6	(22) 22.11.2016
(72) URAYAMA, Shinya	(47) 28.12.2022	
IMAI, Toshio	(22) 26.10.2018	
TAGUCHI, Sachio		

(54) PROCESS FOR SELECTIVELY ETCHING P-DOPED POLYSILICON RELATIVE TO SILICON NITRIDE	(11) EP3734654 (21) EP20180726.0 (47) 28.12.2022 (22) 23.06.2017	United States of America
(73) Entegris, Inc.	(54) METHOD FOR MANUFACTURING INSULATED CIRCUIT BOARD, INSULATED CIRCUIT BOARD, AND THERMOELECTRIC CONVERSION MODULE	(51) H01L 23/58 H04L 9/00 G09C 1/00
(72) BILODEAU, Steven COOPER, Emanuel I.	(73) Mitsubishi Materials Corporation (72) Terasaki, Nobuyuki Ohashi, Toyo	(11) EP3086368 (21) EP16165837.2 (47) 28.12.2022 (22) 18.04.2016
(31) 201662353228 P 201662288809 P 201562258735 P	(31) 2017121741 2016124667	(54) ELECTRONIC CHIP COMPRISING A PROTECTED REAR SURFACE
(32) 22.06.2016 29.01.2016 23.11.2015	(32) 21.06.2017 23.06.2016	(73) Commissariat à l'Énergie Atomique et aux Énergies Alternatives
(33) United States of America United States of America United States of America	(33) Japan Japan	(72) CHARBONNIER, Jean BOREL, Stéphan
(51) H01L 21/329 H01L 21/337 H01L 29/808 H01L 29/872 H01L 29/739 H01L 29/78 H01L 29/06 H01L 29/16 H01L 29/36 H01L 29/10	(32) 21.06.2017 23.06.2016	(31) 1553505 (32) 20.04.2015 (33) France
(11) EP3682467 (21) EP18770009.1 (47) 28.12.2022 (87) EP2018074908 21.03.2019	(33) Japan Japan	(51) H01L 23/66 H03F 3/195 H03F 3/213 H03F 1/02 H03F 1/56 H03F 3/24
(2) 14.09.2018	(51) H01L 23/373 (11) EP3890007 (21) EP19890026.8 (47) 28.12.2022 (87) JP2019045208 04.06.2020	(11) EP3817224 (21) EP20200886.8 (47) 28.12.2022 (22) 08.10.2020
(54) A METHOD FOR MANUFACTURING A P-DOPED GRID IN AN N-DOPED SIC LAYER	(22) 19.11.2019 (54) HEAT DISSIPATION MEMBER	(54) RF AMPLIFIERS WITH INPUT-SIDE FRACTIONAL HARMONIC RESONATOR CIRCUITS
(73) Ascatron AB	(73) Denka Company Limited	(73) NXP USA, Inc.
(72) SCHÖNER, Adolf RESHANOV, Sergey THIERRY-JEBALI, Nicolas ELAHIPANAH, Hossein	(72) ISHIHARA, Yosuke GOTO, Daisuke	(72) Roberts, Jeffrey Spencer Zhu, Ning Holmes, Damon G. Jones, Jeffrey Kevin
(31) 1751138 (32) 15.09.2017 (33) Sweden	(31) 2018223830 (32) 29.11.2018 (33) Japan	(31) 201916667068 (32) 29.10.2019 (33) United States of America
(51) H01L 21/8234 H01L 29/78 H01L 21/28 H01L 29/66	(51) H01L 23/427 (11) EP3900034 (21) EP20710841.6 (47) 28.12.2022 (87) EP2020055575 15.10.2020	(51) H01L 27/12 H01L 29/786 G02F 1/1333 G02F 1/1362
(11) EP3783644 (21) EP20190405.9 (47) 28.12.2022 (22) 11.08.2020	(22) 03.03.2020 (54) HEAT TRANSFER DEVICE AND COMPONENT	(11) EP3346496 (21) EP16826692.2 (47) 28.12.2022 (87) CN2016071734 09.03.2017
(54) METHOD FOR MANUFACTURING MICROELECTRONIC COMPONENTS	(73) Siemens Aktiengesellschaft	(22) 22.01.2016 (54) ARRAY SUBSTRATE AND DISPLAY DEVICE
(73) Commissariat à l'Énergie Atomique et aux Énergies Alternatives	(72) SCHWARZ, Florian (31) 19168170 (32) 09.04.2019 (33) European Patent Office (EPO)	(73) BOE Technology Group Co., Ltd.
(72) POSSEME, Nicolas LE ROYER, Cyrille NEMOUCHI, Fabrice	(51) H01L 23/495 H01L 21/48 H01L 23/31 H01L 21/56	(72) LIU, Guanghui ZHOU, Bin
(31) 1909376 (32) 23.08.2019 (33) France	(11) EP3440697 (21) EP17719767.0 (47) 28.12.2022 (87) US2017026500 12.10.2017	(31) 201510549808 (32) 31.08.2015 (33) China
(51) H01L 23/36 H01L 23/12 H01L 35/08 H01L 23/373 H01L 23/498 H01L 23/00 H05K 1/03 H05K 3/06	(22) 07.04.2017 (54) FLAT NO-LEADS PACKAGE WITH IMPROVED CONTACT LEADS	(51) H01L 27/146 (11) EP3655991 (21) EP18737579.5 (47) 28.12.2022 (87) EP20180067913 24.01.2019
	(73) Microchip Technology Incorporated	(22) 03.07.2018 (54) BACK SIDE ILLUMINATED PHOTODETECTOR FOR CMOS IMAGING SENSOR WITH PHOTOACTIVE LAYER IN A CAVITY
	(72) KITNARONG, Rangsun PUNYAPOR, Prachit POOLSUP, Pattarapon KUMSAI, Swat	(73) Emberion Oy
	(31) 201715480661 201662319512 P (32) 06.04.2017 07.04.2016 (33) United States of America	

(72) POHJONEN, Helena KALLIOINEN, Sami (31) 20175697 (32) 19.07.2017 (33) Finland	(47) 28.12.2022 (87) US2018019129 30.08.2018 (22) 22.02.2018 (54) METHOD OF PREPARING AND TREATING P-TYPE PHOTOVOLTAIC SEMICONDUCTOR LAYERS	(21) EP17707319.4 (47) 28.12.2022 (87) EP2017054454 21.09.2017 (22) 27.02.2017 (54) PIEZOELECTRIC ACTUATOR COMPONENT AND PRODUCTION METHOD FOR PRODUCING A PIEZOELECTRIC ACTUATOR COMPONENT
(51) H01L 27/30 H01L 51/42 (11) EP3522227 (21) EP19155806.3 (47) 28.12.2022 (22) 06.02.2019 (54) ORGANIC IMAGE SENSORS WITHOUT COLOR FILTERS	(73) First Solar, Inc. (72) GROVER, Sachit LI, Xiaoping MALIK, Roger SEYEDMOHAMMADI, Shahram XIONG, Gang ZHANG, Wei IRVINE, Stuart (31) 201762463579 P (32) 24.02.2017 (33) United States of America	(73) Vitesco Technologies GmbH (72) ZUMSTRULL, Claus (31) 102016204308 (32) 16.03.2016 (33) Germany
(73) Samsung Electronics Co., Ltd. (72) LEE, Gae Hwang LEE, Kwang Hee YUN, Sung Young LEEM, Dong-Seok JIN, Yong Wan	(31) 201762463579 P (32) 24.02.2017 (33) United States of America	(51) H01L 51/00 C01B 32/172 H01L 51/05
(31) 20180014579 (32) 06.02.2018 (33) Korea (Republic)	(51) H01L 31/05 H01L 31/042 H01L 31/0224 (11) EP3355363 (21) EP16816964.7 (47) 28.12.2022 (87) CN2016077563 05.01.2017 (22) 28.03.2016 (54) SOLAR CELL MODULE	(11) EP3197830 (21) EP15766506.8 (47) 28.12.2022 (87) EP2015071640 31.03.2016 (22) 22.09.2015 (54) SEPARATION OF SEMI-CONDUCTING AND METALLIC SINGLE-WALLED CARBON NANOTUBES USING A POLYTUNGSTATE
(51) H01L 29/78 H01L 21/336 H01L 29/872 H01L 29/06 H01L 29/16 (11) EP3425676 (21) EP18181848.5 (47) 28.12.2022 (22) 05.07.2018 (54) MOSFET DEVICE OF SILICON CARBIDE HAVING AN INTEGRATED DIODE AND MANUFACTURING PROCESS THEREOF	(31) 201610089428 201510381209 (32) 17.02.2016 02.07.2015 (33) China China	(73) CLAP Co., Ltd. (72) REIS, Wieland KRAUS, Alexander MIKHAEI, Jules KAISER, Michael SCHWAB, Matthias Georg WEITZ, Thomas KETTNER, Michel
(73) STMicroelectronics S.r.l. (72) SAGGIO, Mario Giuseppe RASCUNA, Simone	(33) China China	(31) 14185950 (32) 23.09.2014 (33) European Patent Office (EPO)
(31) 201700073767 (32) 05.07.2017 (33) Italy	(51) H01L 33/48 (11) EP3686486 (21) EP20152597.9 (47) 28.12.2022 (22) 20.01.2020 (54) LIGHT-EMITTING DEVICE HOLDER AND LIGHT SOURCE DEVICE	(51) H01L 51/00 H01L 27/32 (11) EP3477622 (21) EP17854726.1 (47) 28.12.2022 (87) CN2017102279 05.04.2018 (22) 19.09.2017 (54) FLEXIBLE, FOLDABLE DISPLAY SCREEN AND PREPARATION METHOD THEREFOR
(51) H01L 31/0224 H01L 31/068 H01L 31/18 (11) EP3591714 (21) EP18760574.6 (47) 28.12.2022 (87) CN2018077591 07.09.2018 (22) 28.02.2018 (54) P-TYPE PERC DOUBLE-SIDED SOLAR CELL, ASSEMBLY THEREOF, SYSTEM THEREOF AND PREPARATION METHOD THEREFOR	(31) 2019184979 2019008415 (32) 08.10.2019 22.01.2019 (33) Japan Japan	(73) Kunshan New Flat Panel Display Technology Center Co., Ltd. Kunshan Go-Visionox Opto-Electronics Co., Ltd.
(73) Guangdong Aiko Solar Energy Technology Co., Ltd. Zhejiang Aiko Solar Energy Technology Co., Ltd.	(51) H01L 33/50 (11) EP3933943 (21) EP21182546.8 (47) 28.12.2022 (22) 29.06.2021 (54) LIGHT EMITTING DEVICE	(72) DING, Liwei HUANG, Xiuqi ZHU, Hui ZHANG, Xiaobao
(72) LIN, Kang-Cheng FANG, Jiebin CHEN, Gang	(73) Nichia Corporation (72) NIKI, Kenta TAKAHASHI, Jun	(31) 201610864036 (32) 29.09.2016 (33) China
(31) 201710122400 (32) 03.03.2017 (33) China	(31) 2020113376 (32) 30.06.2020 (33) Japan	(51) H01L 51/50 (11) EP3355378 (21) EP17153811.9 (47) 28.12.2022 (22) 30.01.2017 (54) ELECTROLUMINESCENT DEVICE COMPRISING A DEFINED LAYER
(51) H01L 31/0296 H01L 31/18 (11) EP3586374 (21) EP18709856.1	(51) H01L 41/43 H01L 41/083 (11) EP3430653	

ARRANGEMENT COMPRISING A LIGHT EMITTING LAYER, A HOLE TRANSPORT LAYER AND AN ELECTRON TRANSPORT LAYER	(51) H01M 4/131 H01M 4/36 H01M 4/505 H01M 4/525 H01M 4/02 H01M 10/052	(72) CHOI, Jung Hyun LEE, So Ra KIM, Eun Kyung LEE, Yong Ju SHIN, Sun Young SONG, Hyeon Min KIM, Jee Eun KWON, Seo Young OH, Il Geun LEE, Jae Young
(73) Novaled GmbH	(11) EP3955336	(31) 20170116083
(72) JANKUS, Vyintas	(21) EP19924181.1	(32) 11.09.2017
PAVICIC, Domagoj	(47) 28.12.2022	(33) Korea (Republic)
ROTHE, Carsten	(87) JP2019015502 15.10.2020	
(51) H01L 51/52	(22) 09.04.2019	(51) H01M 4/36
H01L 27/32	(54) ELECTRODE, ELECTRODE GROUP, BATTERY, AND BATTERY PACK	H01M 4/48
(11) EP3245678	(73) KABUSHIKI KAISHA TOSHIBA	H01M 4/04
(21) EP16701567.6	(72) HOSHINA, Keigo	H01M 4/134
(47) 28.12.2022	YAMAMOTO, Dai	H01M 4/1395
(87) US2016012734	KANO, Tetsuro	H01M 4/38
21.07.2016	TANAKA, Masanori	H01M 4/587
(22) 08.01.2016	WATANABE, Yuki	H01M 4/62
(54) FLEXIBLE DISPLAY PANEL WITH BENT SUBSTRATE	NEGISHI, Nobuyasu	H01M 10/0525
(73) Apple Inc.	(51) H01M 4/1391	H01M 4/02
(72) ZHANG, Zhen	H01M 4/04	(11) EP3799164
TAO, Yi	H01M 10/058	(21) EP20819609.7
DRZAIC, Paul, S.	H01M 10/0525	(47) 28.12.2022
WURZEL, Joshua, G.	H01M 4/36	(87) CN2020101816
(31) 201614987129	H01M 4/1395	04.02.2021
201562102284 P	H01M 4/1393	(22) 14.07.2020
(32) 04.01.2016	H01M 4/62	(54) NEGATIVE ACTIVE MATERIAL, PREPARATION METHOD THEREOF, SECONDARY BATTERY AND RELATED BATTERY MODULE, BATTERY PACK AND DEVICE
12.01.2015	(11) EP3649690	(73) Contemporary Amperex Technology Co., Limited
(33) United States of America	(21) EP18748998.4	(72) LIANG, Chengdu
United States of America	(47) 28.12.2022	ZHAO, Yuzhen
(51) H01L 51/52	(87) FR2018051541	GUAN, Yingjie
H01L 51/00	10.01.2019	WEN, Yan
H01L 27/32	(22) 25.06.2018	HUANG, Qisen
(11) EP3754740	(54) METHOD FOR MANUFACTURING A LITHIUM-ION BATTERY	(31) 201910687980
(21) EP20181216.1	(73) Renault s.a.s	(32) 29.07.2019
(47) 28.12.2022	(72) SANNIER, Lucas	(33) China
(22) 19.06.2020	CHAKIR, Mohamed	(51) H01M 4/86
(54) ELECTRONIC PANEL AND ELECTRONIC APPARATUS HAVING THE SAME	WILMS, Yoan	H01M 4/92
(73) Samsung Display Co., Ltd.	COURBARON, Gwenaëlle	B01J 35/00
(72) KWAK, Wonkyu	ITO, Atsushi	H01M 4/36
BANG, Gyeongnam	(31) 1756411	H01M 4/90
MOON, Dongjin	(32) 07.07.2017	H01M 4/62
YI, Chung	(33) France	H01M 8/10
(31) 20190074367	(51) H01M 4/36	(11) EP3622575
(32) 21.06.2019	H01M 4/38	(21) EP18729567.0
(33) Korea (Republic)	H01M 4/587	(47) 28.12.2022
(51) H01M 4/13	H01M 4/62	(87) EP2018061690
H01M 4/36	H01M 10/0525	15.11.2018
H01M 4/62	H01M 10/0585	(22) 07.05.2018
H01M 10/0525	H01M 10/42	(54) USE OF AN ELECTRICALLY CONDUCTIVE CARBON MATERIAL
H01M 10/0585	H01M 4/02	(73) Bayerische Motoren Werke Aktiengesellschaft
H01M 10/42	(11) EP3544091	(72) ORFANIDI, Alin
H01M 4/02	(21) EP18192419.2	(31) 102017207730
(11) EP3544091	(47) 28.12.2022	(32) 08.05.2017
(21) EP18192419.2	(22) 04.09.2018	(33) Germany
(47) 28.12.2022	(54) ELECTRODE, SECONDARY BATTERY, BATTERY PACK, AND VEHICLE	(51) H01M 4/92
(22) 04.09.2018	(73) Kabushiki Kaisha Toshiba	B01J 23/40
(54) ELECTRODE, SECONDARY BATTERY, BATTERY PACK, AND VEHICLE	(72) Yoshima, Kazuomi	B01J 23/89
(73) Kabushiki Kaisha Toshiba	Zhang, Wen	
(72) Yoshima, Kazuomi	Harada, Yasuhiro	
Zhang, Wen	Takami, Norio	
Harada, Yasuhiro	(31) 2018054006	
Takami, Norio	(32) 22.03.2018	
(31) 2018054006	(33) Japan	
(32) 22.03.2018		
(33) Japan	(73) LG Energy Solution, Ltd.	

B01J 35/00	B01D 71/02	SUZUKI, Masamitsu
B01J 37/34	B01D 69/12	AOKI, Noriyuki
H01M 4/86	B01D 71/26	MOROOKA, Masahiro
H01M 4/90	H01M 50/403	(31) 2016223542
B01J 35/02	H01M 50/409	(32) 16.11.2016
(11) EP3776704	H01M 50/411	(33) Japan
(21) EP19725858.5	H01M 50/431	(51) H01M 10/0567
(47) 28.12.2022	H01M 50/44	H01M 10/052
(87) IB2019053006	H01M 10/0525	H01M 4/505
17.10.2019	H01M 50/414	H01M 4/52
(22) 11.04.2019	(11) EP3876330	H01M 4/58
(54) CATALYST	(21) EP21159704.2	H01M 10/0568
(73) 3M Innovative Properties Company	(47) 28.12.2022	(11) EP3907803
(72) STEINBACH, Andrew J.L.	(22) 26.02.2021	(21) EP20736037.1
HAUG, Andrew T.	(54) METHOD FOR MANUFACTURING AN	(47) 28.12.2022
LEWINSKI, Krzysztof A.	ELECTROLYTE MEMBRANE	(87) CN2020070004
HESTER, Amy E.	(73) Commissariat à l'énergie atomique et aux	09.07.2020
THOMA, Grant M.	énergies alternatives	(22) 02.01.2020
BEDOYA, Cedric	Centre National de la Recherche	(54) NON-AQUEOUS ELECTROLYTE FOR
(31) 201862657184 P	Scientifique	LITHIUM ION BATTERY AND LITHIUM
(32) 13.04.2018	(72) BELIME, Agathe	ION BATTERY
(33) United States of America	BENWADIH, Mohamed	(73) Shenzhen Capchem Technology Co.,
(51) H01M 8/065	RAMOS, Raphaël	Ltd.
H01M 8/0662	BERROD, Quentin	(72) ZHENG, Zhongtian
H01M 8/1018	ZANOTTI, Jean-Marc	ZHONG, Ling
B01D 19/00	(31) 2002224	HU, Shiguang
F17C 11/00	(32) 05.03.2020	TU, Kai
H01M 8/04082	(33) France	SHI, Qiao
(11) EP3819972	(51) H01M 10/0562	XIONG, Dejun
(21) EP19208033.1	C01B 17/22	(31) 201910002263
(47) 28.12.2022	C01B 25/14	(32) 02.01.2019
(22) 08.11.2019	H01M 10/052	(33) China
(54) POWER SUPPLY SYSTEM FOR	(11) EP3930068	(51) H01M 10/0567
UNDERWATER VEHICLES	(21) EP20794184.0	H01M 10/0568
(73) Helmholtz-Zentrum hereon GmbH	(47) 28.12.2022	H01M 10/0569
(72) Merckelbach, Lucas	(87) CN2020085649	H01M 10/0525
Georgopanos, Prokopios	29.10.2020	H01M 4/133
Brinkmann, Torsten	(22) 20.04.2020	H01M 4/505
Baschek, Burkard	(54) SULFIDE SOLID ELECTROLYTE AND	H01M 4/525
(51) H01M 8/248	METHOD FOR THE PREPARATION	H01M 4/58
H01M 8/1018	THEREOF, ALL SOLID-STATE	H01M 4/36
H01M 8/04007	LITHIUM SECONDARY BATTERY, AND	H01M 4/38
H01M 8/04014	APPARATUS CONTAINING THE SAME	H01M 4/48
C25B 1/04	(73) Contemporary Amperex Technology Co.,	H01M 4/587
C25B 9/00	Limited	H01M 50/209
C25B 9/73	(72) LIANG, Chengdu	H01M 50/55
C25B 15/02	FU, Jiawei	(11) EP3913718
H01M 8/10	LIU, Chengyong	(21) EP19957782.6
(11) EP3881383	GUO, Yongsheng	(47) 28.12.2022
(21) EP19829262.5	HU, Bobing	(87) CN2019127983
(47) 28.12.2022	(31) 201910338105	01.07.2021
(87) FR2019052593	(32) 25.04.2019	(22) 24.12.2019
22.05.2020	(33) China	(54) SECONDARY BATTERY AND DEVICE
(22) 04.11.2019	(51) H01M 10/0562	CONTAINING SAME
(54) SOLID OXIDE ELECTROCHEMICAL	H01M 4/62	(73) Contemporary Amperex Technology Co.,
DEVICE PROVIDED WITH COMPACT	(11) EP3699995	Limited
INTEGRATED OVERHEATING MEANS	(21) EP17870884.8	(72) WU, Zeli
(73) Commissariat à l'énergie atomique et aux	(47) 28.12.2022	HAN, Changlong
énergies alternatives	(87) JP2017029591	(51) H01M 50/20
(72) PLANQUE, Michel	24.05.2018	H01M 50/30
BERNARD, Charlotte	(22) 18.08.2017	H01M 10/613
ROUX, Guilhem	(54) SOLID STATE BATTERY, BATTERY	H01M 10/655
(31) 1860641	PACK, VEHICLE, POWER STORAGE	H01M 10/667
(32) 16.11.2018	SYSTEM, ELECTRIC TOOL AND	H01M 10/0525
(33) France	ELECTRONIC APPARATUS	(11) EP3660945
(51) H01M 10/056	(73) Murata Manufacturing Co., Ltd.	(21) EP18838146.1
B01D 67/00	(72) SHIMIZU, Keisuke	(47) 28.12.2022
B01D 69/14	KATO, Tomohiro	(87) JP2018026691

31.01.2019	(33) China	H01Q 21/28
(22) 17.07.2018	(51) H01P 1/22	H05K 5/02
(54) POWER SUPPLY DEVICE	H01P 1/203	H01Q 21/20
(73) Sanyo Electric Co., Ltd.	(11) EP3844840	H01Q 1/00
(72) HAINO Masami	(21) EP19755893.5	H05K 1/14
MURAMATSU Koichi	(47) 28.12.2022	H05K 3/36
HATTORI Kiyohisa	(87) EP2019071958	H05K 1/02
(31) 2017143559	05.03.2020	(11) EP3286801
(32) 25.07.2017	(22) 15.08.2019	(21) EP15890143.9
(33) Japan	(54) PACKAGING AND THERMALIZATION	(47) 28.12.2022
(51) H01M 50/507	OF CRYOGENIC DISPERSIVE-	(87) US2015050583
H01M 50/519	RESISTIVE HYBRID ATTENUATORS	27.10.2016
H01M 50/572	FOR QUANTUM MICROWAVE	(22) 17.09.2015
H05K 1/02	CIRCUITS	(54) STRAIN RELIEF ANTENNA WIRING
H05K 1/18	(73) International Business Machines	CONNECTOR IN AN ELECTRONIC
(11) EP3944408	Corporation	DEVICE
(21) EP20879946.0	(72) GUMANN, Patryk	(73) InterDigital Madison Patent Holdings,
(47) 28.12.2022	ABDO, Baleegh	SAS
(87) CN2020121720	(31) 201816114793	(72) BOSE, William Hofmann
29.04.2021	201816114890	HUNT, Mickey Jay
(22) 17.10.2020	(32) 28.08.2018	(31) 201562150062 P
(54) CONNECTION ASSEMBLY, BATTERY	28.08.2018	(32) 20.04.2015
MODULE, BATTERY PACK AND	(33) United States of America	(33) United States of America
APPARATUS	United States of America	
(73) Contemporary Amperex Technology Co.,	(51) H01P 3/16	(51) H01Q 3/32
Limited	H01P 5/08	H01Q 3/02
(72) XU, Wencai	H05K 1/11	H01Q 1/12
QIAN, Mu	H01R 12/53	F16H 3/22
YAO, Jihua	(11) EP3764458	F16H 25/20
HUANG, Yincheng	(21) EP20161133.2	(11) EP3723201
WANG, Xuguang	(47) 28.12.2022	(21) EP18852766.7
(31) 201911002508	(22) 05.03.2020	(47) 28.12.2022
201911001727	(54) CONNECTION WITH A HYBRID CABLE	(87) CN2018080474
(32) 21.10.2019	ARRANGEMENT AND A CIRCUIT	13.06.2019
21.10.2019	BOARD ARRANGEMENT	(22) 26.03.2018
(33) China	(73) MD Elektronik GmbH	(54) MULTI-FREQUENCY ANTENNA
China	(72) Huber, Martin	TRANSMISSION DEVICE
(51) H01M 50/54	(31) 102019118733	(73) Shenzhen Zhaowei
H01M 50/103	(32) 10.07.2019	Machinery&Electronics Co., Ltd.
H01M 10/0525	(33) Germany	(72) XIE, Weiqun
(11) EP3352249	(51) H01P 5/12	LI, Ping
(21) EP17152144.6	H01S 5/42	LI, Jiemo
(47) 28.12.2022	H01S 5/02345	(31) 201711276400
(22) 19.01.2017	H01S 5/00	(32) 06.12.2017
(54) BATTERY CELL AND METHOD OF	H01S 5/042	(33) China
MANUFACTURING A BATTERY CELL	H01S 5/062	(51) H01Q 9/30
(73) Robert Bosch GmbH	H01S 5/022	H01Q 9/40
GS Yuasa International Ltd.	(11) EP3526854	H01Q 13/10
(72) Brieger, Franz	(21) EP17862969.7	H01Q 13/18
Gerlach, Martin	(47) 28.12.2022	H01Q 21/28
Herold, Juergen	(87) US2017056913	H01Q 21/30
Postler, Florian	26.04.2018	(11) EP3586402
Schlund, Christoph	(22) 17.10.2017	(21) EP17713291.7
(51) H01M 50/543	(54) MATCHING DRIVE DEVICE FOR	(47) 28.12.2022
(11) EP3806178	MULTI-BEAM OPTOELECTRONIC	(87) EP2017057045
(21) EP20827983.6	ARRAYS	27.09.2018
(47) 28.12.2022	(73) Lumentum Operations LLC	(22) 24.03.2017
(87) CN2020106465	(72) BROCATO, Robert, W.	(54) MIMO ANTENNA MODULE
18.02.2021	ARMENDARIZ, Marcelino	(73) Huawei Technologies Co., Ltd.
(22) 31.07.2020	(31) 201715785312	(72) KHRIPKOV, Alexander
(54) BATTERY MODULE	201662409144 P	MILOSAVLJEVIC, Zlatoljub
(73) Contemporary Amperex Technology Co.,	(32) 16.10.2017	(51) H01Q 21/00
Limited	17.10.2016	H01Q 3/44
(72) XU, Wencai	(33) United States of America	H01Q 9/14
LIU, Jun	United States of America	H01Q 9/04
YAO, Jihua	(51) H01Q 1/22	H01Q 21/06
(31) 201921323599 U	H01Q 1/42	H01Q 1/50
(32) 15.08.2019	H01Q 1/12	H01Q 1/48
		H01Q 3/36

H01Q 21/24	(11) EP3804050	(54) METHOD FOR ROBOT BASED
G02F 1/13	(21) EP19731607.8	CABLING OF ELECTRIC
(11) EP3507864	(47) 28.12.2022	COMPONENTS OF A SWITCHGEAR
(21) EP17847661.0	(87) EP2019064225	MOUNTED ON A MOUNTING PLATE
(47) 28.12.2022	12.12.2019	(73) Rittal GmbH & Co. KG
(87) US2017049962	(22) 31.05.2019	(72) BÄCHLER, Andreas Michael
08.03.2018	(54) METHODS AND SYSTEMS FOR	(31) 102018133319
(22) 01.09.2017	GENERATING HIGH PEAK POWER	(32) 21.12.2018
(54) METHOD OF MANUFACTURING	LASER PULSES	(33) Germany
SOFTWARE CONTROLLED ANTENNA	(73) Imagine Optic	<hr/>
(73) Wafer LLC	(72) GORJU, Guillaume	(51) H02G 3/04
(72) HAZIZA, Dedi David	AYEB, Adam	H02G 3/32
(31) 201715667584	LEVECCQ, Xavier	(11) EP3435501
201715654643	(31) 1854860	(21) EP18185188.2
201715421388	(32) 05.06.2018	(47) 28.12.2022
201662431393 P	(33) France	(22) 24.07.2018
201662382506 P	<hr/>	(54) CABLE CHANNEL
201662382489 P	(51) H01S 3/067	(73) ALSTOM Transport Technologies
(32) 02.08.2017	H01S 3/00	(72) PAUSTIAN, Harald
19.07.2017	H01S 3/16	SIANO-KEUNE, Susanne
31.01.2017	(11) EP3479444	(31) 102017116679
07.12.2016	(21) EP17821331.0	(32) 24.07.2017
01.09.2016	(47) 28.12.2022	(33) Germany
01.09.2016	(87) US2017040213	<hr/>
(33) United States of America	04.01.2018	(51) H02H 1/00
United States of America	(22) 30.06.2017	H01F 38/30
United States of America	(54) FIBER LASER SYSTEM WITH	H02H 7/20
United States of America	MECHANISM FOR INDUCING	(11) EP3161919
United States of America	PARASITIC LIGHT LOSSES	(21) EP15753761.4
United States of America	(73) IPG Photonics Corporation	(47) 28.12.2022
United States of America	(72) MASHKIN, Andrey	(87) IB2015054869
<hr/>	FOMIN, Valentin	07.01.2016
(51) H01R 12/72	SHCHERBINA, Fedor	(22) 29.06.2015
H01R 12/73	DRONOV, Alexander	(54) DEVICE FOR PROTECTING A DIRECT
H01R 12/58	ABRAMOV, Andrey	CURRENT PHOTOVOLTAIC PLANT
(11) EP3743962	MIRONOV, Vadim	(73) Societa' Elettrica S.r.l.
(21) EP19701963.1	SCHERBAKOV, Eugene	Marangoni, Euro
(47) 28.12.2022	(31) 201662357564 P	(72) BAMBI, Carlo
(87) DE2019100009	(32) 01.07.2016	RANDI, Armando
01.08.2019	(33) United States of America	MARANGONI, Euro
(22) 08.01.2019	<hr/>	(31) BO20140357
(54) PRINTED-CIRCUIT BOARD	(51) H01T 2/02	(32) 30.06.2014
CONNECTOR FOR HIGH-CURRENT	H01T 4/16	(33) Italy
TRANSMISSION	(11) EP3654464	<hr/>
(73) HARTING Electric GmbH & Co. KG	(21) EP19208234.5	(51) H02H 3/02
(72) KLIEVER, Wilhelm	(47) 28.12.2022	(11) EP3688852
(31) 102018101792	(22) 11.11.2019	(21) EP18774044.4
(32) 26.01.2018	(54) GAS DISCHARGE TUBE ASSEMBLIES	(47) 28.12.2022
(33) Germany	(73) RIPD IP Development Ltd	(87) EP2018075856
<hr/>	(72) ROZMAN, Robert	04.04.2019
(51) H01R 13/52	(31) 201916667939	(22) 25.09.2018
H01R 13/58	201962864867 P	(54) CIRCUIT BREAKER AND METHOD
(11) EP3654457	201862767917 P	FOR OPERATING SAME
(21) EP19208129.7	(32) 30.10.2019	(73) Eaton Intelligent Power Limited
(47) 28.12.2022	21.06.2019	(72) KOCH, Michael
(22) 08.11.2019	15.11.2018	(31) 102017122220
(54) ELECTRICAL CONNECTOR SEALING	(33) United States of America	(32) 26.09.2017
SYSTEM	United States of America	(33) Germany
(73) GE Aviation Systems LLC	United States of America	<hr/>
(72) MEARS, John	(51) H02B 3/00	(51) H02H 3/087
HATHAWAY, Samuel Robert	H02B 9/16	H02H 7/28
NIERGARTH, Daniel Alan	H02B 1/20	H02H 3/093
KLOOS, David George	H02G 1/12	(11) EP3120433
(31) 201816189523	(11) EP3900131	(21) EP15715030.1
(32) 13.11.2018	(21) EP19836458.0	(47) 28.12.2022
(33) United States of America	(47) 28.12.2022	(87) US2015021565
<hr/>	(87) DE2019101017	24.09.2015
(51) H01S 3/00	(22) 27.11.2019	(22) 19.03.2015
H01S 3/094		(54) METHOD AND APPARATUS FOR THE
H01S 3/0941		PROTECTION OF DC DISTRIBUTION
H01S 3/102		SYSTEMS
H01S 3/23		(73) ABB Schweiz AG

(72) QI, Li PAN, Jiuping	WU, Xiaofan MÜNZ, Ulrich	(33) World Intellectual Property Office (WIPO)
(31) 201414255674 201461968559 P	(51) H02J 7/00	(51) H02J 50/12
(32) 17.04.2014 21.03.2014	(11) EP3672016 (21) EP18932974.1 (47) 28.12.2022	H02H 9/04 H02H 3/20 H02H 7/122 H05B 6/12 H02M 1/32
(33) United States of America United States of America	(87) CN2018105178 19.03.2020	(11) EP3687034 (21) EP17929604.1 (47) 28.12.2022
(51) H02H 7/12 (11) EP3493342 (21) EP18208597.7 (47) 28.12.2022 (22) 27.11.2018	(22) 12.09.2018 (54) CHARGING MANAGEMENT CIRCUIT, TERMINAL AND CHARGING METHOD (73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(87) CN2017111148 02.05.2019 (22) 15.11.2017
(54) SAFETY SYSTEM FOR MOTOR DRIVE (73) Rockwell Automation Technologies, Inc.	(72) TIAN, Chen (51) H02J 7/00	(54) ELECTROMAGNETIC INDUCTION TYPE WIRELESS POWER SUPPLY SYSTEM AND LOAD SUDDEN-CHANGE PROTECTION CIRCUIT THEREFOR
(72) RILEY, Joseph D. BARTZ, William A. WIELEBSKI, Michael W. PIERONEK, Mark F.	H02J 7/04 H04M 1/725 G06F 1/26 H02J 7/02	(73) Foshan Shunde Midea Electrical Heating Appliances Manufacturing Co., Limited
(31) 201715828873 (32) 01.12.2017 (33) United States of America	(11) EP3142341 (21) EP15891688.2 (47) 28.12.2022	(72) ZHANG, Fan WANG, Yunfeng ZENG, Lutian LIU, Wenhua HUANG, Shufeng LEI, Jun JIANG, Deyong
(51) H02J 3/00 H02J 3/16 H02J 3/38	(87) CN2015094625 17.11.2016 (22) 13.11.2015	(31) 201721384652 U (32) 24.10.2017 (33) China
(11) EP3742570 (21) EP20175016.3 (47) 28.12.2022 (22) 15.05.2020	(54) FAST CHARGING METHOD, POWER ADAPTER AND MOBILE TERMINAL (73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(31) 201721384652 U (32) 24.10.2017 (33) China
(54) SYSTEM AND METHOD FOR MITIGATING FLICKER IN A POWER GRID FROM A WIND TURBINE POWER SYSTEM (73) General Electric Company	(72) ZENG, Yuanqing (31) PCT/CN2015/078898 PCT/CN2015/078908 (32) 13.05.2015 13.05.2015	(51) H02J 50/12 H02J 50/80 B60L 53/122 (11) EP3799257 (21) EP19902660.0 (47) 28.12.2022
(72) Smith, David Barton, Werner Gerhard	(33) World Intellectual Property Office (WIPO) World Intellectual Property Office (WIPO)	(47) 28.12.2022
(31) 201916419364 (32) 22.05.2019 (33) United States of America	(51) H02J 9/06 H02M 1/10 (11) EP3621176 (21) EP19186907.2 (47) 28.12.2022 (22) 02.07.2014	(87) CN2019107427 02.07.2020 (22) 24.09.2019 (54) RECEIVING END AND TRANSMITTING END OF WIRELESS CHARGING SYSTEM AND WIRELESS CHARGING SYSTEM
(51) H02J 3/00 H02J 3/32 G05B 15/02 G06Q 50/06	(54) METHOD OF MODIFYING A POWER SYSTEM COMPRISING AN UNINTERRUPTIBLE POWER SUPPLY (73) Eaton Intelligent Power Limited	(73) HUAWEI TECHNOLOGIES CO., LTD. (72) MAO, Yunhe WU, Zhixian ZENG, Xiaosheng
(11) EP3439129 (21) EP18182444.2 (47) 28.12.2022 (22) 09.07.2018	(72) NAVARRO, George Arthur (31) 201313935533 (32) 04.07.2013	(31) 201811612206 (32) 27.12.2018 (33) China
(54) DIMENSIONING OF AN ENERGY STORAGE DEVICE AND AN INVERTER (73) GreenCom Networks AG	(33) United States of America	(33) China
(72) KRUPPA, Simon KLAES, Marcel	(51) H02J 50/10 H02J 7/00 H02J 50/80	(51) H02J 50/90 H02J 7/00 H02J 50/10 B60L 53/39
(31) 102017117216 (32) 31.07.2017 (33) Germany	(11) EP3609049 (21) EP18780781.3 (47) 28.12.2022	(11) EP3806286 (21) EP18920835.8 (47) 28.12.2022
(51) H02J 3/00 H02J 3/38	(87) CN2018081971 11.10.2018 (22) 04.04.2018	(87) JP2018020365 05.12.2019 (22) 28.05.2018
(11) EP3824523 (21) EP18769918.6 (47) 28.12.2022	(54) WIRELESS CHARGING DEVICE AND WIRELESS CHARGING METHOD (73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(54) DEFROSTING METHOD FOR POWER TRANSMISSION DEVICE, WIRELESS POWER SUPPLY SYSTEM, AND POWER TRANSMISSION DEVICE
(87) US2018047076 27.02.2020 (22) 20.08.2018	(72) LIN, Shangbo WAN, Shiming ZHANG, Jialiang	(73) NISSAN MOTOR CO., LTD. (72) OZAKI, Michio
(54) GRID IMPEDENCE ESTIMATION FOR POWER CONVERTER CONTROLLER (73) Siemens Aktiengesellschaft	(31) PCT/CN2017/079784 (32) 07.04.2017	(51) H02K 1/04 H02K 15/02
(72) HERBST, Gernot KLOESER, Daniel		

(11) EP3921919	201762515251 P	(72) SHIN, Hojun
(21) EP20721461.0	(32) 18.05.2018	SUNG, Wonjung
(47) 28.12.2022	05.06.2017	PARK, Gyeongjae
(87) EP2020060661	05.06.2017	LEE, Jeongmin
12.11.2020	(33) United States of America	(31) 20200032811
(22) 16.04.2020	United States of America	(32) 17.03.2020
(54) MAGNETIC SHEET STACK, METHOD FOR PRODUCING SAME AND ELECTRICAL MACHINE	United States of America	(33) Korea (Republic)
(73) Siemens Aktiengesellschaft	(51) H02K 1/276	(51) H02K 33/12
(72) BUSCHBECK, Jörg	H02K 1/30	H02K 33/14
RIEGER, Gotthard	H02K 1/24	H02K 5/18
SCHUH, Carsten	(11) EP3403315	(11) EP3723251
SOLLER, Thomas	(21) EP17700719.2	(21) EP19204881.7
VOLLMER, Rolf	(47) 28.12.2022	(47) 28.12.2022
(31) 19172809	(87) GB2017050044	(22) 23.10.2019
(32) 06.05.2019	20.07.2017	(54) LINEAR ACTUATOR AND TUFTING MACHINE USING THE SAME
(33) European Patent Office (EPO)	(22) 10.01.2017	(73) Michishita Iron Works Co., Ltd.
(51) H02K 1/14	(54) ROTOR ASSEMBLY	(72) MICHISHITA, Kenji
H02K 1/18	(73) ADVANCED ELECTRIC MACHINES GROUP LIMITED	(31) 2019073562
(11) EP3614530	(72) WIDMER, James Dumesnil	(32) 08.04.2019
(21) EP19193013.0	KIMIABEIGI, Mohammad	(33) Japan
(47) 28.12.2022	(31) 201600730	(51) H02M 5/458
(22) 22.08.2019	(32) 14.01.2016	H02M 1/00
(54) AXIAL FLUX ELECTRIC MACHINE AND METHODS OF ASSEMBLING THE SAME	(33) United Kingdom	H02M 3/155
(73) REGAL BELOIT AMERICA, INC.	(51) H02K 1/276	H02M 1/32
(72) POST, Steven W.	H02K 11/01	(11) EP3695500
CUPPS, Jay Matthew	(11) EP3683932	(21) EP18810914.4
ENGLISH, Stephen Thomas	(21) EP20150874.4	(47) 28.12.2022
(31) 201816112327	(47) 28.12.2022	(87) EP2018081343
(32) 24.08.2018	(22) 09.01.2020	06.06.2019
(33) United States of America	(54) MOTOR ROTOR	(22) 15.11.2018
(51) H02K 1/18	(73) Ford Global Technologies, LLC	(54) INTERMEDIATE CIRCUIT CONVERTER WITH TARGETED COUPLING WITH AT LEAST ONE OTHER INTERMEDIATE CIRCUIT CONVERTER
H02K 5/24	(72) DENG, Chuan	(73) Siemens Aktiengesellschaft
H02K 5/10	YUAN, Alvin	(72) LANGE, Robert
(11) EP3782264	DU, Leila	SEJA, Marco
(21) EP19715945.2	GONG, Joy	(31) 17203953
(47) 28.12.2022	(31) 201910047304	(32) 28.11.2017
(87) EP2019059247	(32) 18.01.2019	(33) European Patent Office (EPO)
24.10.2019	(33) China	(51) H02M 7/483
(22) 11.04.2019	(51) H02K 1/278	H02M 7/49
(54) STATOR ASSEMBLY	H02K 15/03	H02M 1/00
(73) Renault s.a.s	(11) EP3836355	(11) EP3709497
NISSAN MOTOR CO., LTD.	(21) EP19860249.2	(21) EP19162755.3
(72) DUMAS, Eric	(47) 28.12.2022	(47) 28.12.2022
PARIS, Francois	(87) JP2019025267	(22) 14.03.2019
KALOS, Thomas	19.03.2020	(54) CASCADED PULSE WIDTH MODULATION CONVERTER CONTROL
MOTTE, Emmanuel	(22) 26.06.2019	(73) ABB Schweiz AG
(31) 1853521	(54) METHOD FOR MANUFACTURING A ROTOR FOR A PERMANENT MAGNET SURFACE AFFIXATION-TYPE ROTATING MACHINE	(72) Schweizer, Mario
(32) 20.04.2018	(73) Meidensha Corporation	Geyer, Tobias
(33) France	(72) HIGASHI, Yoshitaka	Tsoumas, Ioannis
(51) H02K 1/27	(31) 2018168722	
H02K 15/03	(32) 10.09.2018	(51) H02M 7/487
(11) EP3635848	(33) Japan	H02M 1/32
(21) EP18731306.9	(51) H02K 3/38	H02M 1/36
(47) 28.12.2022	H02K 3/12	(11) EP3654518
(87) US2018034569	H02K 3/30	(21) EP19208197.4
13.12.2018	H02K 15/10	(47) 28.12.2022
(22) 25.05.2018	H02K 15/12	(22) 08.11.2019
(54) PRE-WARPED ROTORS FOR CONTROL OF MAGNET-STATOR GAP IN AXIAL FLUX MACHINES	(11) EP3883097	(54) METHOD FOR SHUTDOWN OF AN ACTIVE NEUTRAL POINT CLAMPED CONVERTER
(73) E-Circuit Motors, Inc.	(21) EP20206949.8	(73) General Electric Company
(72) MILHEIM, George, Harder	(47) 28.12.2022	(72) PAN, Di
(31) 201815983985	(22) 11.11.2020	DAME, Mark Edward
201762515256 P	(54) STATOR AND METHOD FOR MANUFACTURING THE SAME	ZHANG, Di
	(73) LG Magna e-Powertrain Co., Ltd.	

HE, Jiangbiao	(73) Shindengen Electric MFG. Co., Ltd.	B62D 5/04
(31) 201816192668	(72) ARAI Tatsuya	B62D 6/00
(32) 15.11.2018	(51) H02P 9/10	H02J 1/00
(33) United States of America	F03D 7/02	H02M 7/48
(51) H02M 7/5395	F03D 7/04	B62D 101/00
H02P 27/08	F03D 9/25	B62D 119/00
H02M 1/00	(11) EP2682601	(11) EP3809588
(11) EP3881424	(21) EP11721218.3	(21) EP20756281.0
(21) EP19798661.5	(47) 28.12.2022	(47) 28.12.2022
(47) 28.12.2022	(87) JP2011054463	(87) JP2020004903
(87) EP2019080981	07.09.2012	20.08.2020
22.05.2020	(22) 28.02.2011	(22) 07.02.2020
(22) 12.11.2019	(54) WIND POWER GENERATOR, AND	(54) POWER SUPPLY CURRENT CONTROL
(54) METHOD OF CONTROL FOR POWER	METHOD FOR CONTROLLING SAME	DEVICE, ELECTRIC ACTUATOR
CONVERTER, ASSOCIATED SYSTEM	(73) Mitsubishi Heavy Industries, Ltd.	PRODUCT, AND ELECTRIC POWER
AND DEVICE	(72) YASUGI, Akira	STEERING DEVICE
(73) GE Energy Power Conversion	WAKASA, Tsuyoshi	(73) NSK LTD.
Technology Ltd	SHINODA, Hisanobu	(72) MIKI, Yasutoshi
(72) EL JIHAD, Hamza	(51) H02P 27/08	(31) 2019023750
SAVARIT, Elise	H02P 21/00	(32) 13.02.2019
SIALA, Sami	(11) EP3254372	(33) Japan
(31) 1860477	(21) EP16708001.9	(51) H02S 20/32
(32) 14.11.2018	(47) 28.12.2022	F24S 30/40
(33) France	(87) US2016016308	F16F 1/38
(51) H02P 6/20	11.08.2016	F24S 30/00
H02P 29/032	(22) 03.02.2016	F24S 30/425
H02P 29/024	(54) DRIVE AND CONTROL FOR SIX-	(11) EP3589899
H02P 27/08	PHASE ELECTRICAL MACHINES	(21) EP18760854.2
H02P 21/34	WITH NEGLIGIBLE COMMON-MODE	(47) 28.12.2022
(11) EP3334029	VOLTAGE	(87) US2018020386
(21) EP15900394.6	(73) Otis Elevator Company	07.09.2018
(47) 28.12.2022	(72) JIANG, Dong	(22) 01.03.2018
(87) JP2015072088	KRISHNAMURTHY, Shashank	(54) SPRING COUNTER-BALANCE
09.02.2017	MARVIN, Daryl J.	ASSEMBLIES AND SOLAR TRACKERS
(22) 04.08.2015	(31) 201562112272 P	INCORPORATING SPRING COUNTER-
(54) SYNCHRONOUS MOTOR CONTROL	(32) 05.02.2015	BALANCE ASSEMBLIES
DEVICE, COMPRESSOR DRIVE	(33) United States of America	(73) Array Technologies, Inc.
DEVICE, AND AIR-CONDITIONER	(51) H02P 29/02	(72) CORIO, Ronald, P.
(73) Mitsubishi Electric Corporation	H02M 1/32	(31) 201762466235 P
(72) KASHIMA, Mitsuo	H02H 7/12	(32) 02.03.2017
KUTSUKI, Tomohiro	H02M 1/00	(33) United States of America
HIGASHIKAWA, Tomomi	(11) EP3087669	(51) H03B 5/14
MURAMATSU, Akiyoshi	(21) EP14723075.9	H03B 5/12
(51) H02P 9/00	(47) 28.12.2022	H03L 7/081
(11) EP3748839	(87) EP2014059569	H03L 7/197
(21) EP19212675.3	02.07.2015	H03L 7/099
(47) 28.12.2022	(22) 09.05.2014	(11) EP3202031
(22) 29.11.2019	(54) MULTI-PHASE ELECTRIC DRIVE AND	(21) EP15847592.1
(54) DC GENERATOR SYSTEM	METHOD THEREFOR	(47) 28.12.2022
(73) Hamilton Sundstrand Corporation	(73) ABB Schweiz AG	(87) US2015053891
(72) LEGROS, Craig R.	(72) TRAN, Quyen	07.04.2016
UTECHT, Tom A.	VOEGELI, Andreas	(22) 03.10.2015
(31) 201916429953	(31) 201310727132	(54) SWITCHING CURRENT SOURCE
(32) 03.06.2019	(32) 25.12.2013	RADIO FREQUENCY OSCILLATOR
(33) United States of America	(33) China	(73) Short Circuit Technologies LLC
(51) H02P 9/04	(51) H02P 29/10	(72) BABAIE, Masoud
F02N 11/04	H02P 27/08	STASZEWSKI, Robert, Bogdan
H02P 25/22	H02P 7/29	(31) 201462059415 P
F02N 11/08	(11) EP3657670	(32) 03.10.2014
(11) EP3270506	(21) EP18208372.5	(33) United States of America
(21) EP15884532.1	(47) 28.12.2022	(51) H03B 11/02
(47) 28.12.2022	(22) 26.11.2018	F41H 13/00
(87) JP2015056846	(54) METHOD AND DEVICE FOR FAIL-SAFE	(11) EP3579408
15.09.2016	SPEED MONITORING	(21) EP19175941.4
(22) 09.03.2015	(73) KEB Automation KG	(47) 28.12.2022
(54) STARTER GENERATOR DEVICE,	(72) Musiolik, Stephan	(22) 22.05.2019
AND STARTING AND GENERATING	(51) H02P 31/00	
METHOD		

- | | | |
|---|--|--|
| (54) RADIATION SOURCE FOR
MICROWAVE PULSE AND RADIATING
DEVICE | (51) H03M 1/68
H03M 1/74
H03M 1/76
H03M 1/78
H03M 1/80 | (21) EP18754178.4
(47) 28.12.2022
(87) JP2018003898
23.08.2018
(22) 06.02.2018 |
| (73) Diehl Defence GmbH & Co. KG | (11) EP3442123 | (54) BIT INTERLEAVING FOR LDPC CODES
OF LENGTH 69120 AND RATE 3/16 IN
COMBINATION WITH 64QAM |
| (72) Stark, Robert
Hertel, Martin | (21) EP18186255.8
(47) 28.12.2022
(32) 30.07.2018 | (73) Sony Group Corporation
(72) SHINOHARA, Yuji
YAMAMOTO, Makiko |
| (31) 102018004568 | (54) DIGITAL TO ANALOG CONVERTER
(DAC) HAVING SUB-DACS WITH
ARRAYS OF RESISTORS | (31) 2017056764
2017028565 |
| (32) 08.06.2018 | (73) NXP USA, Inc. | (32) 23.03.2017 |
| (33) Germany | (72) Pietri, Stefano
Feddeler, James Robert
Berens, Michael Todd
Zhang, Yizhong | (20.02.2017
(33) Japan
Japan |
| (51) H03F 1/56
H03K 17/06
H03F 3/193
H03J 3/24
H03J 3/32 | (31) 201710673370
(32) 08.08.2017
(33) China | (51) H03M 13/13
H03M 13/25
H03M 13/27
H03M 13/29
H03M 13/35
H03M 13/37
H03M 13/45
H03M 13/00
H04L 1/00
H03M 13/09 |
| (11) EP3759818 | (51) H03M 3/02
H03M 3/04 | (11) EP3577766
(21) EP17838000.2
(47) 28.12.2022
(87) JP2017047421
09.08.2018
(22) 26.12.2017 |
| (21) EP19920624.4
(47) 28.12.2022 | (11) EP3859975
(21) EP21151784.2
(47) 28.12.2022
(22) 15.01.2021 | (54) IRREGULAR POLAR CODING
(73) Mitsubishi Electric Corporation
(72) AKINO, Toshiaki
WANG, Ye
DRAPER, Stark, C. |
| (87) CN2019111145
29.10.2020 | (54) A COMPENSATION CIRCUIT FOR
DELTA-SIGMA MODULATORS,
CORRESPONDING DEVICE AND
METHOD | (31) 201715467369
201762455172 P
(32) 23.03.2017
06.02.2017
(33) United States of America
United States of America |
| (22) 15.10.2019 | (73) STMicroelectronics S.r.l.
(72) MODAFFARI, Roberto
PESENTI, Paolo
NICOLLINI, Germano | (51) H03M 13/15
H04B 3/02
H04B 17/364
H04L 1/00
H04L 25/03
H04L 25/08
H03M 13/19
H03M 13/13
H03M 13/37 |
| (54) DIFFERENTIAL SWITCHABLE
CAPACITORS FOR
RADIOFREQUENCY POWER
AMPLIFIERS | (31) 20200001918
(32) 31.01.2020
(33) Italy | (11) EP3610576
(21) EP18784600.1
(47) 28.12.2022
(87) US2018027791
18.10.2018
(22) 16.04.2018 |
| (73) SHENZHEN GOODIX TECHNOLOGY
CO., LTD. | (51) H03M 13/11
H03M 13/25
H03M 13/27
H03M 13/29
H03M 13/03 | (54) PIPELINED FORWARD ERROR
CORRECTION FOR VECTOR
SIGNALING CODE CHANNEL |
| (72) EMIRA, Ahmed
FARES, Mounir | (11) EP3584938
(21) EP18753795.6
(47) 28.12.2022
(87) JP2018003900
23.08.2018
(22) 06.02.2018 | (73) Kandou Labs, S.A.
(72) SHOKROLLAHI, Amin
CARNELLI, Dario |
| (31) 201916395222
(32) 25.04.2019 | (73) STMicroelectronics S.r.l.
(72) MODAFFARI, Roberto
PESENTI, Paolo
NICOLLINI, Germano | (31) 201762485677 P
(32) 14.04.2017
(33) United States of America |
| (33) United States of America | (51) H03M 13/11
H03M 13/25
H03M 13/27
H03M 13/29
H03M 13/03 | |
| (51) H03K 19/003
(11) EP3694108
(21) EP20154525.8
(47) 28.12.2022
(22) 30.01.2020 | (54) PROTECTION CIRCUIT | |
| (73) NXP USA, Inc. | (73) Jagannathan, Srikanth
Abhishek, Kumar | |
| (72) Jagannathan, Srikanth
Abhishek, Kumar | (31) 201916270002
(32) 07.02.2019
(33) United States of America | |
| (31) 201916270002
(32) 07.02.2019 | (11) EP3584938
(21) EP18753795.6
(47) 28.12.2022
(87) JP2018003900
23.08.2018
(22) 06.02.2018 | |
| (33) United States of America | (54) BIT INTERLEAVING FOR LDPC CODES
OF LENGTH 69120 AND RATE 3/16 IN
COMBINATION WITH 1024QAM | |
| (51) H03M 1/06
H03M 1/12 | (73) Sony Group Corporation
(72) SHINOHARA, Yuji
YAMAMOTO, Makiko | |
| (11) EP3818636
(21) EP18739832.6
(47) 28.12.2022
(87) EP2018068424
09.01.2020 | (31) 2017056766
2017028567
(32) 23.03.2017
20.02.2017
(33) Japan
Japan | |
| (22) 06.07.2018 | (51) H03M 13/11
H03M 13/25
H03M 13/27
H03M 13/29
H03M 13/03
H04L 1/00
H04L 27/20 | |
| (54) RECEIVER CIRCUIT FOR AN
ANTENNA ARRAY SYSTEM | (11) EP3754853
(21) EP19180669.4
(47) 28.12.2022
(22) 17.06.2019 | |
| (73) TELEFONAKTIEBOLAGET LM
ERICSSON (PUBL) | (73) Socionext Inc. | |
| (72) SUNDSTRÖM, Lars
JAKOBSSON, Peter | (72) JALILI SEBARDAN, Armin
GRATREX, Alistair John | |
| (51) H03M 1/12
(11) EP3754853
(21) EP19180669.4
(47) 28.12.2022
(22) 17.06.2019 | (54) CURRENT SIGNAL GENERATION
USEFUL FOR SAMPLING | |
| (54) CURRENT SIGNAL GENERATION
USEFUL FOR SAMPLING | (73) JALILI SEBARDAN, Armin
GRATREX, Alistair John | |
| (73) Socionext Inc. | | |
| (72) JALILI SEBARDAN, Armin
GRATREX, Alistair John | | |

(51) H03M 13/25 H03M 13/03 H03M 13/11 H03M 13/27 H03M 13/29 H04L 1/00 H04L 27/20	(54) METHOD AND APPARATUS (73) Swisscom AG (72) JAMALY, Nima (31) 201911016 201815362 (32) 01.08.2019 20.09.2018 (33) United Kingdom United Kingdom	(73) Baker Hughes Energy Technology UK Limited (72) Davis, Julian R. (31) 0823009 (32) 18.12.2008 (33) United Kingdom
(11) EP3584942 (21) EP18755111.4 (47) 28.12.2022 (87) JP2018003901 23.08.2018 (22) 06.02.2018	(33) United Kingdom (51) H04B 1/00 H04L 67/10 (11) EP3643027 (21) EP18820675.9 (47) 28.12.2022 (87) US2018038397 27.12.2018 (22) 20.06.2018	(51) H04B 7/06 H04B 7/04 (11) EP3788724 (21) EP18722982.8 (47) 28.12.2022 (87) EP2018061633 07.11.2019 (22) 04.05.2018
(54) BIT INTERLEAVING FOR LDPC CODES OF LENGTH 69120 AND RATE 2/16 IN COMBINATION WITH 4096QAM (73) Sony Group Corporation (72) SHINOHARA Yuji YAMAMOTO Makiko (31) 2017056767 2017028568 (32) 23.03.2017 20.02.2017 (33) Japan Japan	(47) 28.12.2022 (87) US2018038397 27.12.2018 (22) 20.06.2018 (54) SOFTWARE BASED CLOUD COMPUTING MODULATOR/ DEMODULATOR MODEM (73) Apothym Technologies Group, LLC (72) BEELER, Michael TOYSERKANI, Kasra (31) 201715782651 201762523713 P (32) 12.10.2017 22.06.2017 (33) United States of America United States of America	(22) 04.05.2018 (54) BEAM MANAGEMENT AND PARTICIPATION IN A BEAM MANAGEMENT PROCEDURE (73) Telefonaktiebolaget LM Ericsson (publ) (72) NILSSON, Andreas ATHLEY, Fredrik
(51) H03M 13/25 H03M 13/11 H03M 13/27 H03M 13/29 H03M 13/03 H04L 1/00 H04L 27/20	(32) 12.10.2017 22.06.2017 (33) United States of America United States of America (51) H04B 3/04 H03H 17/02 H04L 27/00 (11) EP2613452 (21) EP11821630.8 (47) 28.12.2022 (87) JP2011069103 08.03.2012 (22) 18.08.2011	(51) H04B 7/06 H04B 7/08 H04W 16/14 H04W 24/00 H04W 24/02 H04W 74/08 H04W 88/08 (11) EP3739931 (21) EP18900328.8 (47) 28.12.2022 (87) CN2018072495 18.07.2019 (22) 12.01.2018
(11) EP3584940 (21) EP18754480.4 (47) 28.12.2022 (87) JP2018003899 23.08.2018 (22) 06.02.2018	(21) EP11821630.8 (47) 28.12.2022 (87) JP2011069103 08.03.2012 (22) 18.08.2011 (54) DIGITAL FILTER DEVICE, DIGITAL FILTERING METHOD, AND CONTROL PROGRAM FOR DIGITAL FILTER DEVICE (73) NEC Corporation (72) ABE, Junichi NOGUCHI, Hidemi (31) 2010195370 (32) 01.09.2010 (33) Japan	(54) METHOD AND DEVICE FOR TRANSMITTING INFORMATION (73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. (72) TANG, Hai
(54) BIT INTERLEAVING FOR LDPC CODES OF LENGTH 69120 AND RATE 2/16 IN COMBINATION WITH 256QAM (73) Sony Group Corporation (72) SHINOHARA Yuji YAMAMOTO Makiko (31) 2017056765 2017028566 (32) 23.03.2017 20.02.2017 (33) Japan Japan	(54) DIGITAL FILTER DEVICE, DIGITAL FILTERING METHOD, AND CONTROL PROGRAM FOR DIGITAL FILTER DEVICE (73) NEC Corporation (72) ABE, Junichi NOGUCHI, Hidemi (31) 2010195370 (32) 01.09.2010 (33) Japan (51) H04B 5/00 G01R 29/08 (11) EP3896863 (21) EP21165364.7 (47) 28.12.2022 (22) 26.03.2021 (54) NEAR-FIELD MEASURING DEVICE (73) NXP B.V. (72) Kerselaers, Anthony Gommé, Liesbeth (31) 202016840495 (32) 06.04.2020 (33) United States of America	(51) H04B 7/06 H04W 16/28 H04W 88/02 H04W 88/08 H04W 52/02 H04W 68/00 H04W 76/28 (11) EP3577935 (21) EP18706053.8 (47) 28.12.2022 (87) US2018016653 09.08.2018 (22) 02.02.2018
(51) H04B 1/00 (11) EP3823171 (21) EP19209503.2 (47) 28.12.2022 (22) 15.11.2019	(51) H04B 5/00 H04L 12/40 (11) EP2199534 (21) EP09176532.1 (47) 28.12.2022 (22) 19.11.2009 (54) Subsea electronic module	(54) APPARATUSES FOR TRANSMISSION OF PAGING BLOCKS IN SWEPT DOWNLINK BEAMS (73) IPLA Holdings Inc. (72) MURRAY, Joseph M. ADJAKPLE, Pascal M. TSAI, Allan Y. LI, Qing IYER, Lakshmi R. CHEN, Wei ZHANG, Guodong LI, Yifan AWADIN, Mohamed
(54) APPARATUS AND METHOD FOR DATA TRANSMISSIONS THROUGH ROTABLE JOINTS (73) HENSOLDT Sensors GmbH (72) Baras, Torben Knopf, Sebastian Priewe, Klaus-Dieter	(33) United States of America (51) H04B 5/00 H04L 12/40 (11) EP2199534 (21) EP09176532.1 (47) 28.12.2022 (22) 19.11.2009 (54) Subsea electronic module	(72) MURRAY, Joseph M. ADJAKPLE, Pascal M. TSAI, Allan Y. LI, Qing IYER, Lakshmi R. CHEN, Wei ZHANG, Guodong LI, Yifan AWADIN, Mohamed (31) 201762586552 P 201762564476 P 201762501547 P 201762453880 P

(32) 15.11.2017 28.09.2017 04.05.2017 02.02.2017	24.07.2014 (22) 16.01.2014 (54) METHOD FOR PERFORMING COMMUNICATION BETWEEN TERMINALS AND APPARATUS THEREFOR	(22) 10.05.2019 (54) SYSTEMS AND METHODS FOR ANGLE OF ARRIVAL ESTIMATION (73) Qorvo US, Inc. (72) Fort, Andrew Van den Bosch, Bram
(33) United States of America United States of America United States of America United States of America	(73) LG Electronics Inc. (72) SEO, Hanbyul KIM, Hakseong KIM, Byoungsoon	(31) 201816220371 (32) 14.12.2018 (33) United States of America
(51) H04B 7/155 (11) EP3745610 (21) EP20169337.1 (47) 28.12.2022 (22) 23.10.2015 (54) MODULE FOR COMBINING SIGNALS HAVING DIFFERENT FREQUENCIES	(31) 201361876211 P 201361843061 P 201361765019 P 201361753417 P (32) 10.09.2013 05.07.2013 14.02.2013 16.01.2013	(32) 14.12.2018 (33) United States of America (51) H04B 17/318 H04W 52/34 H04W 52/24 (11) EP3501124 (21) EP17751522.8 (47) 28.12.2022 (87) US2017043966 01.03.2018 (22) 26.07.2017
(73) Andrew Wireless Systems GmbH (72) KUMMETZ, Thomas SCHMID, Peter DUSSMANN, Alfons FACKLER, Karl-heinz HOFMAN, Roman	(33) United States of America United States of America United States of America United States of America	(54) METHODS AND APPARATUSES FOR CONTROLLING ALLOCATIONS FOR INDEPENDENT LINKS (73) QUALCOMM Incorporated
(31) 201562135787 P (32) 20.03.2015 (33) United States of America	(51) H04B 10/25 H04Q 11/00 (11) EP3836428 (21) EP18931644.1 (47) 28.12.2022 (87) CN2018103630 05.03.2020 (22) 31.08.2018	(72) LUO, Tao MONTJOJO, Juan KADOUS, Tamer LI, Junyi ZHANG, Xiaoxia SUN, Jing YOO, Taesang MALLIK, Siddhartha
(51) H04B 7/185 (11) EP3562062 (21) EP19177380.3 (47) 28.12.2022 (22) 28.06.2016 (54) METHOD AND APPARATUS FOR EFFICIENT DATA TRANSMISSIONS IN HALF-DUPLEX COMMUNICATION SYSTEMS WITH LARGE PROPAGATION DELAYS	(54) INFORMATION TRANSMISSION METHOD, OPTICAL LINE TERMINATION, OPTICAL NETWORK UNIT AND COMMUNICATION SYSTEM (73) HUAWEI TECHNOLOGIES CO., LTD. (72) ZHANG, Lun ZHENG, Gang	(31) 201715659580 201762447534 P 201662378137 P (32) 25.07.2017 18.01.2017 22.08.2016 (33) United States of America United States of America United States of America
(73) QUALCOMM Incorporated (72) WU, Qiang BLACK, Peter John DAMNJANOVIC, Jelena	(51) H04B 10/69 G06F 1/30 G06F 1/32 G06F 1/3203 H04B 10/25 G06F 1/3234 H04B 10/40 H04B 10/80	(31) 201715659580 201762447534 P 201662378137 P (32) 25.07.2017 18.01.2017 22.08.2016 (33) United States of America United States of America United States of America
(31) 201615190601 201562188317 P (32) 23.06.2016 02.07.2015 (33) United States of America United States of America	(11) EP3358762 (21) EP16851326.5 (47) 28.12.2022 (87) JP2016077896 06.04.2017 (22) 21.09.2016 (54) COMMUNICATION DEVICE, INFORMATION PROCESSING DEVICE, AND COMMUNICATION METHOD	(51) H04L 1/00 (11) EP2974495 (21) EP14724854.6 (47) 28.12.2022 (87) US2014027909 18.09.2014 (22) 14.03.2014 (54) PROTECTION OF COMMERCIAL COMMUNICATIONS (73) Northrop Grumman Systems Corporation (72) ATKINSON, Leonard (31) 201361791057 P (32) 15.03.2013 (33) United States of America
(51) H04B 7/26 (11) EP3723348 (21) EP19736191.8 (47) 28.12.2022 (87) KR2019000224 11.07.2019 (22) 07.01.2019 (54) METHOD FOR SEPARATING PHYSICAL LAYER FUNCTIONS IN WIRELESS COMMUNICATION SYSTEM	(73) Sony Group Corporation (72) TAKAHASHI, Ryohei TOBA, Kazuaki HYAKUDAI, Toshihisa MORITA, Hiroshi	(51) H04L 1/00 (11) EP3681063 (21) EP18880452.0 (47) 28.12.2022 (87) CN2018115613 31.05.2019 (22) 15.11.2018 (54) DATA REPORTING METHOD, DATA RECEIVING METHOD AND RELEVANT APPARATUSES (73) Huawei Technologies Co., Ltd. (72) XU, Minghui ZHANG, Xi
(73) Samsung Electronics Co., Ltd. (72) MOON, Jicheol KWON, Ojin JEON, Namryul	(31) 2015194126 (32) 30.09.2015 (33) Japan	(31) 201711197927 (32) 25.11.2017
(31) 201862614711 P (32) 08.01.2018 (33) United States of America	(51) H04B 17/27 G01S 3/04 G01S 3/48 (11) EP3667354 (21) EP19173739.4 (47) 28.12.2022	
(51) H04B 7/26 H04W 56/00 H04W 72/04 (11) EP2947792 (21) EP14740719.1 (47) 28.12.2022 (87) KR2014000467		

(33) China	(33) United States of America	(22) 12.08.2019
(51) H04L 1/00	United States of America	(54) METHOD FOR TRANSMITTING AND RECEIVING HARQ INFORMATION IN WIRELESS COMMUNICATION SYSTEM, AND DEVICE THEREFOR
H03M 13/25	(51) H04L 1/08	(73) LG Electronics Inc.
H03M 13/27	(11) EP3766200	(72) KIM, Kyuseok
H03M 13/00	(21) EP19713989.2	YANG, Suckchel
H04W 52/02	(47) 28.12.2022	KANG, Jiwon
H04L 27/36	(87) US2019022228	KIM, Hyungtae
H04L 27/34	19.09.2019	(31) 20190017914
(11) EP3442146	(22) 14.03.2019	20180094031
(21) EP17186056.2	(54) REPETITION-BASED TRANSMISSIONS	(32) 15.02.2019
(47) 28.12.2022	(73) QUALCOMM INCORPORATED	10.08.2018
(22) 11.08.2017	(72) HOSSEINI, Seyedkianoush	(33) Korea (Republic)
(54) ENCODER INPUT SELECTOR	CHEN, Wanshi	Korea (Republic)
(73) NXP B.V.	LI, Chih-Ping	(51) H04L 5/00
(72) SERBETLI, Semih	JIANG, Jing	H04W 72/00
VAN HOUTUM, Wim	(31) 201916352568	(11) EP3210330
GULTEKIN, Yunus Can	201862644324 P	(21) EP15781005.2
WILLEMS, Frans M.J.	(32) 13.03.2019	(47) 28.12.2022
(51) H04L 1/00	16.03.2018	(87) US2015053081
H04L 27/26	(33) United States of America	28.04.2016
H04B 7/0404	United States of America	(22) 30.09.2015
H04B 7/0456	(51) H04L 1/14	(54) FLEXIBLE MULTIPLEXING AND FEEDBACK FOR VARIABLE TRANSMISSION TIME INTERVALS
H04L 5/00	H04L 1/16	(73) Qualcomm Incorporated
(11) EP3692665	(11) EP3767857	(72) DAMNJANOVIĆ, Jelena
(21) EP18865919.7	(21) EP20190707.8	YOO, Taesang
(47) 28.12.2022	(47) 28.12.2022	MALLIK, Siddhartha
(87) CN2018109277	(22) 16.10.2018	DAMNJANOVIĆ, Aleksandar
18.04.2019	(54) AVOIDING MULTIPLE RETRANSMISSIONS OF SIGNALLING TRANSPORTED BY 5G NAS TRANSPORT	CHENDAMARAI KANNAN, Arumugam
(22) 08.10.2018	(73) Telefonaktiebolaget LM Ericsson (publ)	VAJAPAYAM, Madhavan, Srinivasan
(54) USER EQUIPMENT, ACCESS NODE AND METHOD FOR CONTROL SIGNALING	(72) Sedlacek, Ivo	MALLADI, Durga, Prasad
(73) Huawei Technologies Co., Ltd.	Wass, Mikael	WEI, Yongbin
(72) LIU, Bin	Johansson, Kaj	LUO, Tao
LIU, Xianda	(31) 201762572699 P	(31) 201514869152
LIU, Kunpeng	(32) 16.10.2017	201462075624 P
KWON, Younghoon	(33) United States of America	201462068416 P
(31) 201816015842	(51) H04L 1/18	(32) 29.09.2015
201762589945 P	H04L 1/16	05.11.2014
201762570418 P	H04L 5/00	24.10.2014
(32) 22.06.2018	H04B 17/382	(33) United States of America
22.11.2017	(11) EP3843311	United States of America
10.10.2017	(21) EP19870030.4	United States of America
(33) United States of America	(47) 28.12.2022	United States of America
United States of America	(87) KR2019012906	(51) H04L 5/00
United States of America	09.04.2020	H04W 72/04
(51) H04L 1/00	(22) 02.10.2019	(11) EP2863696
H04W 56/00	(54) METHOD AND APPARATUS FOR TRANSMITTING SIDELINK HARQ FEEDBACK IN NR V2X	(21) EP13820179.3
H04W 74/00	(73) LG Electronics Inc.	(47) 28.12.2022
H04W 74/08	(72) LEE, Seungmin	(87) JP2013069647
(11) EP3466179	SEO, Hanbyul	23.01.2014
(21) EP17730021.7	(31) 201862741474 P	(22) 19.07.2013
(47) 28.12.2022	(32) 04.10.2018	(54) WIRELESS COMMUNICATION SYSTEM, AND WIRELESS COMMUNICATION METHOD
(87) US2017035888	(33) United States of America	(73) Nippon Telegraph and Telephone Corporation
14.12.2017	(51) H04L 5/00	(72) ABEYSEKERA Hirantha Sithira
(22) 05.06.2017	H04L 1/18	INOUE Yasuhiko
(54) CHANNEL STATE INFORMATION REPORTING FOR RANDOM ACCESS PROCEDURES	H04B 7/0456	ASAI Yusuke
(73) QUALCOMM Incorporated	H04B 7/024	SHINOHARA Shoko
(72) YERRAMALLI, Srinivas	H04L 1/00	ICHIKAWA Takeo
LUO, Tao	H04L 1/16	MIZOGUCHI Masato
ZHANG, Xiaoxia	(11) EP3817268	(31) 2012160873
MALLADI, Durga Prasad	(21) EP19847518.8	2012160872
(31) 201715611553	(47) 28.12.2022	2012160845
201662346056 P	(87) KR2019010239	
(32) 01.06.2017	13.02.2020	
06.06.2016		

(32) 19.07.2012 19.07.2012 19.07.2012	SHIN, Seokmin YANG, Suckchel HWANG, Seunggye	(11) EP3580887 (21) EP17714787.3 (47) 28.12.2022
(33) Japan Japan Japan	(31) 201762574223 P 201762543353 P	(87) EP2017057787 04.10.2018
(51) H04L 5/00 H04W 72/04	(32) 19.10.2017 09.08.2017	(22) 31.03.2017
(11) EP3496319	(33) United States of America United States of America	(54) GAUSSIAN CONTINUOUS VARIABLE QUANTUM KEY DISTRIBUTION SYSTEM AND METHOD
(21) EP17839711.3 (47) 28.12.2022 (87) KR2017008246 15.02.2018	(51) H04L 9/00 (11) EP3664404 (21) EP18848646.8 (47) 28.12.2022	(73) Huawei Technologies Duesseldorf GmbH (72) FUNG, Fred, Chi, Hang WANG, Dawei
(22) 31.07.2017 (54) METHOD FOR ESTABLISHING EXTENDED NARROWBAND IN NARROWBAND WIRELESS COMMUNICATION SYSTEM, AND APPARATUS THEREFOR	(87) CN2018094845 28.02.2019 (2) 06.07.2018 (54) EFFICIENT COMMUNICATION METHOD BETWEEN A TERMINAL AND AMS PLUS SMF	(51) H04L 9/08 H04L 9/32 (11) EP4046324 (21) EP20804394.3 (47) 28.12.2022 (87) US2020056160 22.04.2021
(73) LG Electronics Inc. (72) HWANG, Daesung AHN, Joonkui LEE, Seungmin YI, Yunjung YOU, Hyangsun	(73) Huawei Technologies Co., Ltd. (72) CHEN, Jing PAN, Kai LI, He	(22) 16.10.2020 (54) SYSTEMS AND METHODS FOR QUANTUM-SECURED, PRIVATE- PRESERVING COMPUTATIONS
(31) 201662417258 P 201662400615 P 201662398493 P 201662371833 P	(31) 201710723994 (32) 21.08.2017 (33) China	(73) The Trustees Of The Stevens Institute Of Technology (72) HUANG, Yuping NGUYEN, Lac Thi Thanh
(32) 03.11.2016 27.09.2016 22.09.2016 07.08.2016	(51) H04L 9/00 H04L 9/32 (11) EP3957025 (21) EP20897640.7 (47) 28.12.2022 (87) CN2020100190 06.01.2022	(31) 201962923322 P (32) 18.10.2019 (33) United States of America
(33) United States of America United States of America United States of America United States of America	(22) 03.07.2020 (54) SYSTEM AND METHOD FOR PROVIDING PRIVACY AND SECURITY PROTECTION IN BLOCKCHAIN-BASED PRIVATE TRANSACTIONS	(51) H04L 9/08 H04L 9/40 (11) EP3329636 (21) EP16766470.5 (47) 28.12.2022 (87) DE2016100338 02.02.2017
(51) H04L 5/00 H04W 74/04	(73) Alipay (Hangzhou) Information Technology Co., Ltd.	(22) 26.07.2016 (54) METHOD FOR GENERATING A CRYPTOGRAPHIC KEY FOR A CABLE- BASED COMMUNICATION
(11) EP3897054 (21) EP19913216.8 (47) 28.12.2022 (87) CN2019074721 06.08.2020	(72) YANG, Dayi XIA, Ning LI, Kang	(73) Jacobs University Bremen GmbH (72) HENKEL, Werner (31) 102015112224 (32) 27.07.2015 (33) Germany
(22) 03.02.2019 (54) COMMUNICATION METHOD AND APPARATUS	(47) 28.12.2022 (87) EP20702213.8 (47) 28.12.2022 (87) EP2020050697 20.08.2020	(51) H04L 9/32 G03F 7/00 G06F 21/73 H01L 21/027 H01L 21/768 H01L 23/544 H01L 23/58 H01L 23/528 B82Y 40/00
(73) Huawei Technologies Co., Ltd. (72) SU, Yuwan LI, Jun JIN, Zhe	(22) 13.01.2020 (54) METHOD OF OPERATING KEYSTREAM GENERATORS IN COUNTER MODE FOR SECURE DATA TRANSMISSION, KEYSTREAM GENERATOR WITH COUNTER MODE FOR SECURE DATA TRANSMISSION AND COMPUTER PROGRAM PRODUCT FOR KEYSTREAM GENERATION	(11) EP3889683 (21) EP21165587.3 (47) 28.12.2022 (22) 29.03.2021 (54) METHOD FOR MAKING A RANDOMISED ZONE OF AN INTEGRATED CIRCUIT
(51) H04L 5/00 H04W 74/08 H04W 74/00	(73) Siemens Aktiengesellschaft (72) ASCHAUER, Hans AYDOS, Gökçe HEINTEL, Markus ZWANZGER, Johannes	(73) Commissariat à l'Energie Atomique et aux Energies Alternatives (72) TEYSSÉDRE, Hubert LANDIS, Stefan MAY, Michaël
(11) EP3668251 (21) EP18844167.9 (47) 28.12.2022 (87) KR2018009084 14.02.2019	(31) 19157373 (32) 15.02.2019 (33) European Patent Office (EPO)	(22) 29.03.2021 (54) METHOD FOR MAKING A RANDOMISED ZONE OF AN INTEGRATED CIRCUIT
(22) 09.08.2018 (54) METHOD FOR PERFORMING RANDOM ACCESS PROCESS AND DEVICE THEREFOR	(31) 19157373 (32) 15.02.2019 (33) European Patent Office (EPO)	(22) 29.03.2021 (54) METHOD FOR MAKING A RANDOMISED ZONE OF AN INTEGRATED CIRCUIT
(73) LG Electronics Inc. (72) KIM, Jaehyung AHN, Joonkui KIM, Byounghoon PARK, Changhwan	(51) H04L 9/08	(31) 2003110

(32) 30.03.2020	STEVENS, Christoph	H04W 12/04
(33) France	(51) H04L 9/40	H04W 12/37
(51) H04L 9/40	H04L 9/00	(11) EP3576378
(11) EP3384655	H04L 9/32	(21) EP19176822.5
(21) EP16816108.1	H04L 9/30	(47) 28.12.2022
(47) 28.12.2022	(11) EP3725033	(22) 27.05.2019
(87) US2016064705	(21) EP18836293.3	(54) TRANSFERRING CONTROL OF VEHICLES
08.06.2017	(47) 28.12.2022	(73) BlackBerry Limited
(22) 02.12.2016	(87) IB2018059922	(72) MONTEMURRO, Michael Peter
(54) SYSTEMS AND METHODS FOR SCALABLE-FACTOR AUTHENTICATION	20.06.2019	LEPP, James Randolph Winter
(73) Cernoch, Dan	(22) 12.12.2018	DEVER, Jeffrey Scott
Pondicherry, Ajay	(54) SECURITY-ENHANCED ORIGINATION OF BLOCKCHAIN TRANSACTIONS	(31) 201815994576
Refsland, David	(73) nChain Licensing AG	(32) 31.05.2018
Ives-Halperin, Kenneth	(72) BARTOLUCCI, Silvia	(33) United States of America
(72) Cernoch, Dan	BERNAT, Pauline	(51) H04L 9/40
Pondicherry, Ajay	JOSEPH, Daniel	H04W 12/041
Refsland, David	(31) 201721021	H04W 12/069
Ives-Halperin, Kenneth	(32) 15.12.2017	(11) EP3345417
(31) 201562263290 P	(33) United Kingdom	(21) EP16736089.0
(32) 04.12.2015	(51) H04L 9/40	(47) 28.12.2022
(33) United States of America	H04L 9/08	(87) EP2016065840
(51) H04L 9/40	H04W 12/04	09.03.2017
(11) EP3923535	H04W 84/06	(22) 05.07.2016
(21) EP20214542.1	H04W 4/48	(54) METHOD TO AUTHENTICATE A SUBSCRIBER IN A LOCAL NETWORK
(47) 28.12.2022	H04W 12/00	(73) Thales Dis France SAS
(22) 16.12.2020	H04L 9/32	(72) PAULIAC, Mireille
(54) METHOD FOR DATA PROTECTION IN A DATA PROCESSING CLUSTER WITH POLICY-BASED PARTITION	H04W 12/03	PRADEN, Anne-Marie
(73) Baidu USA LLC	H04W 12/043	(31) 15306361
KunlunXin Technology (Beijing) Company Limited	(11) EP3553998	(32) 04.09.2015
(72) CHENG, Yueqiang	(21) EP19169082.5	(33) European Patent Office (EPO)
ZHU, Hefei	(47) 28.12.2022	(51) H04L 12/04
(31) 202016899846	(22) 12.04.2019	H04W 12/04
(32) 12.06.2020	(54) NETWORK SECURITY FRAMEWORK FOR WIRELESS AIRCRAFT COMMUNICATION	H04W 36/00
(33) United States of America	(73) Simmonds Precision Products, Inc.	(11) EP3659365
(51) H04L 9/40	(72) DAS, Subhra Kanti	(21) EP18750565.6
G06F 21/36	SIVARAMASASTRY, Adishesha	(47) 28.12.2022
G06F 21/30	Chinknyakanhalli	(87) US2018042292
G06F 3/04886	LYNCH, Michael A.	31.01.2019
H04L 9/32	THUPAKULA, Kiran	(22) 16.07.2018
G06F 21/31	(31) 201811014030	(54) SECURITY KEY DERIVATION FOR HANDOVER
(11) EP3979107	(32) 12.04.2018	(73) Qualcomm Incorporated
(21) EP21189142.9	(33) India	(72) LEE, Soo Bum
(47) 28.12.2022	(51) H04L 9/40	ESCOTT, Adrian, Edward
(22) 02.08.2021	H04L 9/14	PALANIGOUNDER, Anand
(54) ELECTRONIC COMMUNICATION DEVICE FOR PERFORMING AN AUTHENTICATION OPERATION	(11) EP2267937	(31) 201816035239
(73) Ruben AG	(21) EP09727376.7	201762538626 P
(72) SPITZ, Stephan	(47) 28.12.2022	(32) 13.07.2018
(31) 20199393	(87) JP2009057407	28.07.2017
(32) 30.09.2020	08.10.2009	(33) United States of America
(33) European Patent Office (EPO)	(22) 06.04.2009	United States of America
(51) H04L 9/40	(54) TRANSMISSION/RECEPTION SYSTEM, TRANSMISSION DEVICE, RECEPTION DEVICE, AUTHENTICATION DEVICE, USER EQUIPMENT, METHOD EXECUTED USING THESE, AND PROGRAM	(51) H04L 12/40
G06F 21/60	(73) N-Crypt Lab., Inc.	B60R 16/023
(11) EP3404887	(72) NAKAMURA, Takatoshi	G06F 21/55
(21) EP17171372.0	(31) 2008098784	H04L 12/403
(47) 28.12.2022	(32) 04.04.2008	B60W 50/02
(22) 16.05.2017	(33) Japan	H04L 67/12
(54) ALTERED-REALITY RIGHTS SETTING	(51) H04L 9/40	H04L 9/40
(73) Nokia Technologies Oy	H04W 4/80	(11) EP3832954
(72) TYTGAT, Donny	H04W 4/02	(21) EP19840645.6
LIEVENS, Sammy	H04L 67/125	(47) 28.12.2022
		(87) JP2019029251
		30.01.2020
		(22) 25.07.2019
		(54) FRAUD DETECTION METHOD AND FRAUD DETECTION DEVICE

(73) Panasonic Intellectual Property Corporation of America	(72) LI, Xinwei ZHA, Riyong XU, Meiqing	(31) 201715652199 201715652196
(72) KISHIKAWA, Takeshi UJIIE, Yoshihiro HIRANO, Ryo WAKABAYASHI, Tohru	(31) 201710538844 (32) 04.07.2017 (33) China	(32) 17.07.2017 17.07.2017 (33) United States of America United States of America
(31) PCT/JP2018/028290 (32) 27.07.2018 (33) World Intellectual Property Office (WIPO)	(51) H04L 41/082 H04W 88/08 H04L 41/5051 H04W 92/04	(51) H04L 45/28 (11) EP3342108 (21) EP16760619.3 (47) 28.12.2022 (87) US2016048487 02.03.2017 (22) 24.08.2016
(51) H04L 12/40 B60W 60/00 (11) EP3725634 (21) EP18888251.8 (47) 28.12.2022 (87) JP2018041528 20.06.2019 (22) 08.11.2018 (54) VEHICLE-MOUNTED SYSTEM (73) YAZAKI CORPORATION (72) FUJIHIRA, Katsuya YANAGIDA, You	(11) EP3761565 (21) EP20183090.8 (47) 28.12.2022 (22) 30.06.2020 (54) UPDATE OF A NETWORK DEVICE IN A MOBILE COMMUNICATION NETWORK (73) Telia Company AB (72) JALKANEN, Tero SARAJISTO, Tomi	(54) METHOD AND APPARATUS FOR SUPPORTING HIGH AVAILABILITY (73) Cisco Technology, Inc. (72) NARANG, Rajeev HENDRICKSON, Mark L. S V, Somashekar THAMARAISAMY, Subramanian
(31) 2017237418 (32) 12.12.2017 (33) Japan	(31) 20195612 (32) 04.07.2019 (33) Finland	(31) 201514835370 (32) 25.08.2015 (33) United States of America
(51) H04L 27/26 H04L 25/02 H04L 25/03 H04L 27/38 H04L 5/00 (11) EP3391606 (21) EP17744578.0 (47) 28.12.2022 (87) KR2017000933 03.08.2017 (22) 26.01.2017 (54) METHOD AND APPARATUS FOR ESTIMATING AND CORRECTING PHASE ERROR IN WIRELESS COMMUNICATION SYSTEM (73) Samsung Electronics Co., Ltd.	(11) EP3874691 (21) EP19868186.8 (47) 28.12.2022 (87) FR2019052820 18.06.2020 (22) 27.11.2019 (54) METHOD FOR MEASURING A TRANSMISSION DELAY WITH CONTROL OF DEGREES OF CONTENTION APPLIED TO A DATA FRAME (73) Commissariat à l'Energie Atomique et aux Energies Alternatives (72) JAN, Mathieu	(51) H04L 45/64 H04L 12/18 H04L 12/46 H04L 45/16 (11) EP3694163 (21) EP18873380.2 (47) 28.12.2022 (87) CN2018111921 09.05.2019 (22) 25.10.2018 (54) METHOD AND DEVICE FOR IMPLEMENTING MULTICAST SERVICE (73) Huawei Technologies Co., Ltd.
(72) OH, Jongho LIM, Hyoungjin KIM, Jaewon YU, Hyunkyuu YOO, Hyunil CHEUN, Kyungwhoon OH, Jisung HA, Kilsik	(31) 1872616 (32) 10.12.2018 (33) France	(72) MENG, Rui WANG, Chuang CHEN, Zhe
(31) 20160049882 20160010235 (32) 25.04.2016 27.01.2016 (33) Korea (Republic) Korea (Republic)	(51) H04L 43/50 H04L 12/40 (11) EP3550769 (21) EP19164834.4 (47) 28.12.2022 (22) 25.03.2019 (54) COMMUNICATION CIRCUITRY INTEGRITY ASSESSMENT (73) NXP B.V. (72) ELEND, Bernd Uwe Gerhard	(31) 201711046331 (32) 31.10.2017 (33) China (51) H04L 47/36 H04L 47/56 H04L 47/6275 H04L 47/6295 (11) EP3573297 (21) EP17896756.8 (47) 28.12.2022 (87) CN2017109365 23.08.2018 (22) 03.11.2017
(51) H04L 41/0806 H04L 41/082 H04L 41/50 (11) EP3649762 (21) EP18760001.0 (47) 28.12.2022 (87) IB2018000821 10.01.2019 (22) 04.07.2018 (54) METHOD AND APPARATUS FOR RAPIDLY CONFIGURING NETWORK ELEMENT DEVICE FOR PLUG AND PLAY (73) Alcatel Lucent	(31) 201815946460 (32) 05.04.2018 (33) United States of America (51) H04L 45/16 (11) EP3656099 (21) EP18755335.9 (47) 28.12.2022 (87) US2018042234 24.01.2019 (22) 16.07.2018 (54) DISTRIBUTED MULTICAST LOGICAL ROUTER (73) Nicira Inc. (72) BOUTROS, Sami BHAT, Sharath CATROUILLET, Jerome MATTHEW, Subin Cyriac TESSMER, Alexander	(54) PACKET PROCESSING METHOD AND APPARATUS (73) Huawei Technologies Co., Ltd. (72) QI, Yunlei LI, Chunrong HU, Yongjian (31) 201710087163 (32) 17.02.2017 (33) China (51) H04L 65/80 H04L 65/60 (11) EP2897340 (21) EP15151373.6 (47) 28.12.2022 (22) 16.01.2015

(54) ROUTING PROXY FOR ADAPTIVE STREAMING	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(54) INITIATING COMMUNICATION BETWEEN FIRST AND SECOND USERS
(73) Koninklijke KPN N.V.	(72) CHEN, Jia	(73) Nokia Technologies Oy
iMinds	(31) 201822002804 U	(72) WRIGHT, Christopher
Ghent University	(32) 30.11.2018	LAWRENSON, Matthew
(72) Famaey, Jeroen	(33) China	DUFFY, David
Latré, Steven	(51) H04M 1/725	
(31) 14151619	G04G 13/02	(51) H04M 11/06
(32) 17.01.2014	(11) EP2871825	H04L 47/10
(33) European Patent Office (EPO)	(21) EP13829756.9	(11) EP3672213
(51) H04L 67/141	(47) 28.12.2022	(21) EP20151715.8
H04L 65/1069	(87) CN2013081526	(47) 28.12.2022
H04L 69/24	20.02.2014	(22) 13.03.2015
(11) EP2816778	(22) 15.08.2013	(54) FLOW CONTROL ON WIRELINE NETWORK
(21) EP14172575.4	(54) METHOD FOR ENABLING SHUTDOWN ALARM CLOCK AND MOBILE TERMINAL	(73) Lantiq Beteiligungs-GmbH & Co. KG
(47) 28.12.2022	(73) Xiaomi Inc.	(72) JAIN, Raj Kumar
(22) 16.06.2014	(72) GU, Linghua	(31) 201461953733 P
(54) Establishing a communication between a Web application and a terminal	LIU, Anyu	(32) 14.03.2014
(73) ORANGE	QI, Dongjie	(33) United States of America
(72) Bertin, Emmanuel	LIU, Xinyu	
Cazeaux, Stéphane	(31) 201210291619	(51) H04N 1/00
(31) 1355939	(32) 15.08.2012	(11) EP3217277
(32) 21.06.2013	(33) China	(21) EP17159711.5
(33) France		(47) 28.12.2022
(51) H04L 69/04	(51) H04M 3/38	(22) 07.03.2017
H04L 69/324	G06F 9/54	(54) INFORMATION PROCESSING APPARATUS, METHOD FOR CONTROLLING INFORMATION PROCESSING APPARATUS, AND RECORDING MEDIUM
H04L 69/22	G06Q 10/06	(73) Canon Kabushiki Kaisha
(11) EP3905626	(11) EP3735773	(72) SATO, Tomoya
(21) EP19922297.7	(21) EP19756590.6	(31) 2016044983
(47) 28.12.2022	(47) 28.12.2022	(32) 08.03.2016
(87) CN2019080654	(87) IB2019051348	(33) Japan
08.10.2020	29.08.2019	
(22) 29.03.2019	(22) 20.02.2019	(51) H04N 1/32
(54) COMPRESSION PROCESSING METHOD, DECOMPRESSION PROCESSING METHOD AND RELATED DEVICES	(54) TELEPHONY SOFTWARE CONTROL VIA WEB APPLICATION	G06T 1/00
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(73) nimbus Cloud IPCo Pty Ltd	G10L 19/018
(72) TANG, Hai	(72) CUSTANCE, Grant	(11) EP3063930
(51) H04L 69/22	(31) 201815924097	(21) EP14805998.3
G06F 9/455	201862632779 P	(47) 28.12.2022
G06F 12/02	(32) 16.03.2018	(87) FR2014052768
H04L 69/166	20.02.2018	07.05.2015
G06F 12/109	(33) United States of America	(22) 30.10.2014
(11) EP3771169	United States of America	(54) METHOD FOR INCREASING THE SENSITIVITY OF A WATERMARK DETECTOR
(21) EP19853179.0	(51) H04M 3/436	(73) Dolby Laboratories Licensing Corporation
(47) 28.12.2022	G06F 3/0488	(72) NGUYEN, Philippe
(87) CN2019084285	H04M 1/725	RIZKO, Camille
27.02.2020	(11) EP3366030	(31) 1360656
(22) 25.04.2019	(21) EP16785315.9	(32) 31.10.2013
(54) MESSAGE PROCESSING METHOD AND RELATED DEVICE	(47) 28.12.2022	(33) France
(73) HUAWEI TECHNOLOGIES CO., LTD.	(87) US2016056527	
(72) WANG, Liang	27.04.2017	(51) H04N 1/401
ZHANG, Xu	(22) 12.10.2016	B41J 2/21
CAO, Shui	(54) REJECTING OR ACCEPTING A PHONE CALL	B41J 25/00
(31) 201810949396	(73) Microsoft Technology Licensing, LLC	H04N 1/407
(32) 20.08.2018	(72) RASTAS, Johannes	(11) EP3909776
(33) China	(31) 201514886355	(21) EP21160106.7
(51) H04M 1/02	(32) 19.10.2015	(47) 28.12.2022
(11) EP3860100	(33) United States of America	(22) 02.03.2021
(21) EP21161817.8	(51) H04M 7/00	(54) INK DISCHARGE COMPLEMENTING METHOD AND PRINTING APPARATUS
(47) 28.12.2022	G06F 16/435	(73) SCREEN Holdings Co., Ltd.
(22) 25.11.2019	H04N 21/422	(72) FUKUI, Kazuki
(54) TRANSMISSION MECHANISM AND MOBILE TERMINAL	(11) EP3799407	(31) 2020054013
	(21) EP19199874.9	(32) 25.03.2020
	(47) 28.12.2022	
	(22) 26.09.2019	

(33) Japan	(47) 28.12.2022	REPRODUCTION DEVICE, AND
(51) H04N 1/405	(87) CN2017084217	REPRODUCTION METHOD
B41M 1/04	01.02.2018	(73) Sony Group Corporation
B41M 1/06	(22) 12.05.2017	(72) KATSUMATA Mitsuru
B41J 2/205	(54) IMAGING METHOD, IMAGING DEVICE,	HIRABAYASHI Mitsuhiro
B41C 1/02	AND ELECTRONIC DEVICE	HAMADA Toshiya
B41C 1/10	(73) GUANGDONG OPPO MOBILE	(31) 2016030859
B41M 3/00	TELECOMMUNICATIONS CORP., LTD.	(32) 22.02.2016
B41N 1/12	(72) WEI, Yi	(33) Japan
B41N 1/22	ZHOU, Qiqun	(51) H04N 5/76
(11) EP3701710	(31) 201610616350	G07C 5/08
(21) EP18803866.5	(32) 29.07.2016	(11) EP3846452
(47) 28.12.2022	(33) China	(21) EP19856053.4
(87) EP2018079011	(51) H04N 5/225	(47) 28.12.2022
02.05.2019	H04N 5/232	(87) JP2019028628
(22) 23.10.2018	H04N 5/235	05.03.2020
(54) DIGITAL HALFTONING WITH SPIRAL	H04N 5/33	(22) 22.07.2019
DOTS	(11) EP3884656	(54) ELECTRONIC APPARATUS,
(73) AGFA OFFSET BV	(21) EP19802208.9	OPERATION METHOD, AND
(72) BARTELS, Rudolf	(47) 28.12.2022	PROGRAM
(31) 18188424	(87) EP2019081893	(73) JVCKenwood Corporation
17198925	28.05.2020	(72) MATSUMOTO, Masaki
(32) 10.08.2018	(22) 20.11.2019	SATO, Morihito
27.10.2017	(54) DEVICE AND METHOD FOR	(31) 2018161146
(33) European Patent Office (EPO)	OBSERVING A SCENE COMPRISING A	(32) 30.08.2018
European Patent Office (EPO)	TARGET	(33) Japan
(51) H04N 5/225	(73) Safran Electronics & Defense	(51) H04N 5/913
G02B 27/58	(72) ROUX, Nicolas	(11) EP3718300
H04N 1/40	LERAT, Brice	(21) EP17817501.4
G06T 7/00	BERTHIER, Héloïse	(47) 28.12.2022
G06T 3/40	(31) 1871619	(87) US2017063489
G06T 5/50	(32) 20.11.2018	06.06.2019
H04N 5/232	(33) France	(22) 28.11.2017
(11) EP2403233	(51) H04N 5/232	(54) DIGITAL LEDGER CAMERA AND
(21) EP11182727.5	G03B 17/18	IMAGE FUNCTIONS
(47) 28.12.2022	G03B 17/14	(73) Sony Group Corporation
(22) 29.09.2009	(11) EP3522521	(72) STAMCAR, Damjan
(54) Image processing apparatus and method	(21) EP19164302.2	(51) H04N 7/015
(73) Samsung Electronics Co., Ltd.	(47) 28.12.2022	H04N 7/08
(72) Lim, Jae-guyn	(22) 11.05.2012	H04N 21/2343
Ok, Hyun-wook	(54) EXCHANGEABLE LENS AND	H04N 21/2365
Park, Byung-kwan	CAMERA BODY WITH REDUCED	G09G 5/00
Lee, Seong-deok	INITIALISATION TIME AND METHOD	G09G 5/36
Kang, Joo-young	OF TRANSMITTING DATA OF AN	G09G 5/391
(31) 20080121864	EXCHANGEABLE LENS	G09G 5/397
20080099611	(73) Nikon Corporation	(11) EP3284251
(32) 03.12.2008	(72) Oikawa, Masafumi	(21) EP16717692.4
10.10.2008	Imafuji, Kazuharu	(47) 28.12.2022
(33) Korea (Republic)	Takahashi, Shigeo	(87) GB2016051048
Korea (Republic)	Nagaya, Shunji	20.10.2016
(51) H04N 5/225	(31) 2011108214	(22) 14.04.2016
G06F 1/16	(32) 13.05.2011	(54) A SYSTEM AND METHOD FOR
(11) EP3661184	(33) Japan	HANDLING VIDEO DATA
(21) EP19209647.7	(51) H04N 5/76	(73) Disguise Technologies Limited
(47) 28.12.2022	G06T 1/00	(72) NEHRU, Ashraf
(22) 18.11.2019	H04N 5/91	(31) 201517475
(54) MOBILE TERMINAL AND IMAGE	H04N 5/92	201506328
ACQUISITION MODULE	H04N 13/00	(32) 02.10.2015
(73) GUANGDONG OPPO MOBILE	H04N 21/2362	14.04.2015
TELECOMMUNICATIONS CORP., LTD.	H04N 9/82	(33) United Kingdom
(72) LI, Biao	(11) EP3422702	United Kingdom
(31) 201822001397 U	(21) EP17756197.4	(51) H04N 7/18
(32) 30.11.2018	(47) 28.12.2022	B60R 1/00
(33) China	(87) JP2017004531	G06T 3/00
(51) H04N 5/225	31.08.2017	G08G 1/16
H04N 5/232	(22) 08.02.2017	(11) EP3817373
(11) EP3454543	(54) FILE GENERATION DEVICE,	(21) EP19844974.6
(21) EP17833303.5	FILE GENERATION METHOD,	(47) 28.12.2022

(87) JP2019028285 06.02.2020	(51) H04N 17/00 H04N 17/04 G05B 23/00	(31) 201710132526 (32) 07.03.2017 (33) China
(22) 18.07.2019	G06F 11/34 G09G 3/00	
(54) OVERHEAD IMAGE GENERATION APPARATUS, OVERHEAD IMAGE GENERATION METHOD, AND PROGRAM	H04N 5/60 H04N 21/43 H04N 19/00	(51) H04N 19/174 H04N 19/164 H04N 19/23
(73) JVCKenwood Corporation	(11) EP3823277	(11) EP3021582
(72) KANO, Kenichi	(21) EP20205567.9	(21) EP15193478.3
(31) 2018142139	(47) 28.12.2022	(47) 28.12.2022
(32) 30.07.2018	(22) 03.11.2020	(22) 06.11.2015
(33) Japan	(54) MEASURING METHOD FOR A VIDEO LATENCY	(54) CONTINUOUS GENERATION OF NON- DISPLAYED REFERENCE FRAME IN VIDEO ENCODING AND DECODING
(51) H04N 7/18 B61L 25/04	(73) SAGEMCOM BROADBAND SAS	(73) Cisco Technology, Inc.
(11) EP3606056	(72) DELPLACE, Stéphane	(72) DAVIES, Thomas
(21) EP18777933.5	GAVALDA, Benjamin	(31) 201414538272
(47) 28.12.2022	BERGER, Jérôme	(32) 11.11.2014
(87) JP2018008790 04.10.2018	(31) 1912733	(33) United States of America
(22) 07.03.2018	(32) 14.11.2019	(51) H04N 19/31 H04N 19/182 H04N 19/186 H04N 19/33 H04N 5/345 H04N 5/355 H04N 5/235
(54) MONITORING SYSTEM AND MONITORING METHOD	(33) France	(11) EP3884673
(73) Hitachi Kokusai Electric Inc.	(51) H04N 19/105 H04N 19/109 H04N 19/11 H04N 19/119 H04N 19/136 H04N 19/176 H04N 19/196 H04N 19/46 H04N 19/593	(21) EP19818370.9 (47) 28.12.2022 (87) US2019061627 28.05.2020
(72) OHKI, Kana	(11) EP3567856	(22) 15.11.2019
(31) 2017062942	(21) EP19184147.7	(54) VIDEO ENCODER AND ENCODING METHOD
(32) 28.03.2017	(47) 28.12.2022	(73) Dolby Laboratories Licensing Corporation
(33) Japan	(22) 16.03.2010	(72) WARD, Gregory John
(51) H04N 7/18 G06T 7/215 G06T 7/11 G08B 13/196	(54) IMAGE PREDICTIVE DECODING DEVICE AND IMAGE PREDICTIVE DECODING METHOD	(31) 201862769223 P 18207029
(11) EP3515065	(73) NTT DoCoMo, Inc.	(32) 19.11.2018 19.11.2018
(21) EP19151079.1	(72) SUZUKI, Yoshinori	(33) United States of America European Patent Office (EPO)
(47) 28.12.2022	BOON, Choong Seng	(51) H04N 19/467 H04N 5/235 H04N 19/184 H04N 19/36 H04N 1/32
(22) 10.01.2019	(31) 2009069975	(11) EP3092800
(54) METHOD AND SYSTEM FOR IMPROVING CONSTRUCTION OF REGIONS OF INTEREST	(32) 23.03.2009	(21) EP15700935.8 (47) 28.12.2022
(73) CANON KABUSHIKI KAISHA	(33) Japan	(87) US2015010299 16.07.2015
(72) CITERIN, Johann VISA, Pierre TANNHAUSER, Falk KERGOURLAY, Gérald	(51) H04N 19/107 H04N 19/147 H04N 19/172 H04N 19/19 H04N 19/115	(22) 06.01.2015
(31) 201814723 201801111	(11) EP3595305	(54) TECHNIQUES FOR ENCODING, DECODING AND REPRESENTING HIGH DYNAMIC RANGE IMAGES
(32) 11.09.2018 23.01.2018	(21) EP18763703.8	(73) Dolby Laboratories Licensing Corporation
(33) United Kingdom United Kingdom	(47) 28.12.2022	(72) NINAN, Ajit
(51) H04N 9/31 F21S 41/16 H04N 5/235 B60Q 1/14	(87) CN2018077993 13.09.2018	(31) 201461924345 P (32) 07.01.2014
(11) EP3191887	(22) 05.03.2018	(33) United States of America
(21) EP15839810.7	(54) METHOD FOR ALLOCATING CODE RATES FOR INTRA-FRAME CODED FRAMES, COMPUTER DEVICE AND STORAGE MEDIUM	(51) H04N 19/52 H04N 19/61
(47) 28.12.2022	(73) Tencent Technology (Shenzhen) Company Limited	(11) EP3826306
(87) US2015048834 17.03.2016	(72) MAO, Xunan GUO, Yaoyao GUO, Licai SHI, Yongfang GAO, Anlin DENG, Haibo GU, Chenchen LV, Jing	(21) EP20217808.3 (47) 28.12.2022 (22) 20.12.2011
(22) 08.09.2015		(54) PREDICTIVE ENCODING METHOD, PREDICTIVE ENCODING DEVICE,
(54) METHOD AND SYSTEM FOR CONTROLLING A LASER-BASED LIGHTING SYSTEM		
(73) Google LLC		
(72) ABELE, Nicolas COMBES, Michel		
(31) 201414480580		
(32) 08.09.2014		
(33) United States of America		

AND PREDICTIVE ENCODING PROGRAM OF MOTION VECTOR, AND, PREDICTIVE DECODING METHOD, PREDICTIVE DECODING DEVICE, AND PREDICTIVE DECODING PROGRAM OF MOTION VECTOR	SUGIO, Toshiyasu TANIKAWA, Kyoko MATSUNOBU, Toru TERADA, Kengo	(31) 201715807311 (32) 08.11.2017 (33) United States of America
(73) NTT DoCoMo, Inc.	(31) 201161556398 P	(51) H04N 21/431
(72) FUJIBAYASHI, Akira	(32) 07.11.2011	(11) EP3726843
SUZUKI, Yoshinori	(33) United States of America	(21) EP18888608.9
BOON, Choong Seng	(51) H04N 21/236	(47) 28.12.2022
(31) 2011002205	H04H 20/28	(87) CN2018117278
(32) 07.01.2011	H04H 60/07	20.06.2019
(33) Japan	H04N 21/2389	(22) 23.11.2018
(51) H04N 19/593	H04N 21/4385	(54) ANIMATION IMPLEMENTATION METHOD, TERMINAL AND STORAGE MEDIUM
H04N 19/186	(11) EP3035690	(73) Tencent Technology (Shenzhen) Company Limited
(11) EP3815377	(21) EP14836904.4	(72) PAN, Wenting
(21) EP19837624.6	(47) 28.12.2022	NING, Binquan
(47) 28.12.2022	(87) JP2014068644	CHENG, Ping
(87) CN2019096191	19.02.2015	CAO, Chaoli
23.01.2020	(22) 11.07.2014	QIN, Xiaolong
(22) 16.07.2019	(54) TRANSMISSION APPARATUS, TRANSMISSION METHOD, RECEPTION APPARATUS, AND RECEPTION METHOD	YU, Fan
(54) VIDEO ENCODER, VIDEO DECODER, AND CORRESPONDING ENCODING AND DECODING METHODS	(73) Saturn Licensing LLC	(31) 201711339423
(73) HUAWEI TECHNOLOGIES CO., LTD.	(72) KITAZATO, Naohisa	(32) 14.12.2017
(72) MA, Xiang	(31) 2013167605	(33) China
ZHAO, Yin	(32) 12.08.2013	(51) H04N 21/61
YANG, Haitao	(33) Japan	H04N 21/43
CHEN, Jianle	(51) H04N 21/254	H04N 21/235
(31) 201862698991 P	H04N 21/436	H04H 20/42
201862698924 P	H04N 21/45	(11) EP3011750
(32) 17.07.2018	H04N 21/4627	(21) EP14818369.2
16.07.2018	G06F 21/10	(47) 28.12.2022
(33) United States of America	G06F 21/33	(87) KR2014005592
United States of America	G06F 21/44	31.12.2014
(51) H04N 19/91	G06F 21/62	(22) 24.06.2014
H04N 19/12	G06F 16/43	(54) TRANSMITTER, RECEIVER, AND CONTROL METHOD THEREOF
H04N 19/46	H04L 9/40	(73) Samsung Electronics Co., Ltd.
(11) EP3849198	(11) EP3228083	(72) HWANG, Sung-hee
(21) EP21158451.1	(21) EP15808747.8	YANG, Hyun-koo
(47) 28.12.2022	(47) 28.12.2022	LEE, Hak-ju
(22) 06.11.2012	(87) FR2015053227	(31) 20130075725
(54) IMAGE DECODING METHOD AND IMAGE DECODING DEVICE	09.06.2016	(32) 28.06.2013
(73) TAGIVAN II LLC	(22) 26.11.2015	(33) Korea (Republic)
(72) SASAI, Hisao	(54) METHOD TO MANAGE ACCESS RIGHTS TO A DIGITAL CONTENT	(51) H04Q 9/00
NISHI, Takahiro	(73) ORANGE	G06Q 10/08
SHIBAHARA, Youji	(72) CONAN, Martin	H04M 1/725
SUGIO, Toshiyasu	LE GUILLLOU, Xavier	(11) EP3753258
TANIKAWA, Kyoko	(31) 1461921	(21) EP19719066.3
MATSUNOBU, Toru	(32) 04.12.2014	(47) 28.12.2022
TERADA, Kengo	(33) France	(87) US2019026479
(31) 201161556398 P	(51) H04N 21/41	17.10.2019
(32) 07.11.2011	G06F 1/16	(22) 09.04.2019
(33) United States of America	G06F 3/01	(54) METHOD AND SYSTEM FOR MOVING STATUS DETECTION FOR A SENSOR APPARATUS
(51) H04N 19/91	H04N 21/414	(73) BlackBerry Limited
H04N 19/12	H04N 21/422	(72) CAI, Zhijun
H04N 19/46	(11) EP3635963	QU, Shouxing
(11) EP3849199	(21) EP18769540.8	GAO, Yu
(21) EP21158463.6	(47) 28.12.2022	MARTIN-COCHER, Gaëlle Christine
(47) 28.12.2022	(87) US2018046892	BENNETT, Jesse William
(22) 06.11.2012	16.05.2019	(31) 201815949747
(54) IMAGE DECODING METHOD AND IMAGE DECODING DEVICE	(22) 17.08.2018	(32) 10.04.2018
(73) TAGIVAN II LLC	(54) METHODS, SYSTEMS, AND MEDIA FOR PRESENTING A USER INTERFACE IN A WEARABLE DEVICE	(33) United States of America
(72) SASAI, Hisao	(73) Google LLC	(51) H04R 1/00
NISHI, Takahiro	(72) D'SOUZA, Julius	H04R 3/00
SHIBAHARA, Youji	AHN, Chul Jin	H04R 1/32
		H04R 1/40

(11) EP3843419	26.09.2019	16.11.2017
(21) EP20209487.6	13.09.2019	(22) 09.05.2016
(47) 28.12.2022	21.06.2019	(54) NOISE DETECTION AND NOISE REDUCTION
(22) 24.11.2020	28.09.2018	(73) Harman International Industries, Incorporated
(54) METHOD FOR CONTROLLING A MICROPHONE ARRAY AND DEVICE FOR CONTROLLING A MICROPHONE ARRAY	28.09.2018 28.09.2018 28.09.2018 28.09.2018	(72) YANG, Dong XUE, Zhengliang MAO, Lan
(73) Sennheiser electronic GmbH & Co. KG	28.09.2018	
(72) Krüger, Alexander Pellegrini, Renato	(33) United States of America United States of America	(51) H04R 3/00 H04R 1/02 A62B 18/02 A62B 18/08 H04R 1/08
(31) 102019134541	United States of America	
(32) 16.12.2019	United States of America	
(33) Germany	United States of America	
(51) H04R 1/08	United States of America	(11) EP2818205
H04R 1/10	United States of America	(21) EP13751763.7
A45C 13/10	United States of America	(47) 28.12.2022
H04B 1/3827	United States of America	(87) JP2013054410 29.08.2013
A45C 11/00	United States of America	(22) 21.02.2013
(11) EP3629593	United States of America	(54) RESPIRATORY PROTECTIVE EQUIPMENT
(21) EP19200553.6	United States of America	(73) Koken Ltd.
(47) 28.12.2022	United States of America	(72) FURUICHI, Ryohei ISHIKAWA, Yu
(22) 30.09.2019	United States of America	(31) 2012038048
(54) EARTIPS FOR COUPLING VIA WIREFORM ATTACHMENT MECHANISMS	United States of America	(32) 23.02.2012
(73) Apple Inc.	(51) H04R 1/10	(33) Japan
(72) MCINTOSH, Sean T. DELLA ROSA, Jason C. PARKER, Samuel G. COUSINS, Benjamin A. HUWE, Ethan L. GRINKER, Scott ANDERSEN, Esge STANLEY, Craig M. JUHNKE, Ethan W SIAHAAN, Edward ZHANG, Mei TWEHUES, Brian R. HUA, Thanh P SANG, Haochuan CHAWAN, Arun D PANECKI, Lee M LEBLANC, Jason J. JI, Qigen GHAHRI SARABI, Mohammad Soroush HAO, Zhu	(31) 2012038048 (32) 23.02.2012 (33) Japan (51) H04R 3/04 H03G 5/00 H03G 5/16 (11) EP3603106 (21) EP18746413.6 (47) 28.12.2022 (87) US2018041069 11.04.2019 (22) 06.07.2018 (54) DYNAMICALLY EXTENDING LOUDSPEAKER CAPABILITIES (73) Google LLC (72) SLOTNICK, Gabriel Fisher (31) 201715841398 201762567710 P (32) 14.12.2017 03.10.2017 (33) United States of America United States of America	
(31) 201916584939 201916584934 201916584929 201916584920 201916584914 201916584905 201916584894 201962900307 P 201962865070 P 201862738843 P 201862738828 P 201862738813 P 201862738803 P 201862738788 P 201862738772 P	(51) H04R 1/10 (11) EP3499910 (21) EP17207463.5 (47) 28.12.2022 (22) 14.12.2017 (54) DEVICE AND METHOD FOR DETECTING REMOVAL OF AN IN-THE-EAR HEADPHONE FROM A USER'S EAR (73) Vestel Elektronik Sanayi ve Ticaret A.S. (72) ÇUBUKÇU, Baran ÖZBAY, Mustafa Caner	(51) H04R 3/00 H04M 1/02 H04R 9/02 H05K 5/06 H04R 1/02 H04R 1/30 H04M 1/03 H04M 1/18 (11) EP3745742 (21) EP18723657.5 (47) 28.12.2022 (87) CN2018087467 01.08.2019 (22) 18.05.2018 (54) SPEAKER MOUNTING STRUCTURE AND ELECTRONIC DEVICE PROVIDED WITH SAME (73) Mobvoi Information Technology Company Limited (72) WANG, Baolin LI, Jianguo
(32) 26.09.2019 26.09.2019 26.09.2019 26.09.2019 26.09.2019 26.09.2019	(51) H04R 1/44 H04M 1/18 H04M 1/03 H04R 29/00 H04M 1/02 (11) EP3574633 (21) EP18750771.0 (47) 28.12.2022 (87) KR2018001639 16.08.2018 (22) 07.02.2018 (54) ELECTRONIC DEVICE INCLUDING SPEAKER (73) Samsung Electronics Co., Ltd. (72) PARK, Soo Hyun KIM, Joo Hyun YOON, Doo Sun CHOI, Seung Bum YOO, Min Woo CHOI, Jong Chul (31) 20170017722 (32) 08.02.2017 (33) Korea (Republic)	
	(51) H04R 3/00 G10L 25/51 H04R 1/10 G10L 25/06 G10L 25/45 (11) EP3456067 (21) EP16901219.2 (47) 28.12.2022 (87) CN2016081454	

(31) 201810069346	(73) Sivantos Pte. Ltd.	HOSHINO, Kenji
(32) 24.01.2018	(72) KÜBERT, Thomas	(31) 2018018968
(33) China	WURZBACHER, Tobias	(32) 06.02.2018
(51) H04R 23/00	(31) 102018206975	(33) Japan
(11) EP3742757	(32) 04.05.2018	(51) H04W 4/90
(21) EP19175935.6	(33) Germany	H04H 60/91
(47) 28.12.2022	(51) H04R 25/00	H04B 1/3805
(22) 22.05.2019	H05K 1/14	H04H 20/59
(54) OPTICAL TRANSDUCER AND	(11) EP3490272	H04L 12/18
METHOD FOR MEASURING	(21) EP18204016.2	H04W 48/08
DISPLACEMENT	(47) 28.12.2022	H04W 52/02
(73) ams International AG	(22) 02.11.2018	(11) EP3763140
(72) DEKKER, Ronald	(54) BATCH OF LISTENING DEVICES AND	(21) EP19716384.3
HEIDEMAN, Rene	METHOD FOR PRODUCING A BATCH	(47) 28.12.2022
LEINSE, Arne	OF LISTENING DEVICES	(87) EP2019058574
LAZAR, Catalin	(73) Sivantos Pte. Ltd.	12.12.2019
NEVOU, Laurent	(72) GEBHARDT, Volker	(22) 04.04.2019
STEELE, Colin	KRAL, Holger	(54) PUBLIC WARNING SYSTEM
PIRES SINGULANI, Anderson	SCHMITT, Christian	NOTIFICATIONS IN A MOBILE DEVICE
STOJANOVIC, Goran	(31) 102017221332	USING ALTERNATIVE WIRELESS
MUELLER, Simon	(32) 28.11.2017	TECHNOLOGIES
(51) H04R 25/00	(33) Germany	(73) BlackBerry Limited
(11) EP3716649	(51) H04S 7/00	(72) BUCKLEY, Adrian
(21) EP19165553.9	(11) EP3570566	YOUNG, Gordon Peter
(47) 28.12.2022	(21) EP18171975.8	MONTEMURRO, Michael Peter
(22) 27.03.2019	(47) 28.12.2022	MCCANN, Stephen
(54) HEARING DEVICE COMPRISING	(22) 14.05.2018	(31) 201816001663
A VENT WITH AN ADJUSTABLE	(54) PREVIEWING SPATIAL AUDIO	(32) 06.06.2018
ACOUSTIC VALVE	SCENES COMPRISING MULTIPLE	(33) United States of America
(73) Sonova AG	SOUND SOURCES	(51) H04W 8/00
(72) Kuipers, Erwin	(73) Nokia Technologies Oy	H04W 40/24
(51) H04R 25/00	(72) LAAKSONEN, Lasse	H04W 84/18
(11) EP3836567	VILERMO, Miikka	H04W 88/16
(21) EP20209873.7	LEHTINIEMI, Arto	(11) EP3329702
(47) 28.12.2022	MATE, Sujeet Shyamsundar	(21) EP16744360.5
(22) 25.11.2020	(51) H04S 7/00	(47) 28.12.2022
(54) HEARING DEVICE AND METHOD FOR	G09B 5/06	(87) EP2016067666
OPERATING A HEARING DEVICE	G09B 5/12	02.02.2017
(73) Sivantos Pte. Ltd.	G09B 5/04	(22) 25.07.2016
(72) HEMPEL, Thomas	(11) EP3709677	(54) METHOD FOR NODE DISCOVERY IN
(31) 102019219567	(21) EP20171652.9	AN AD-HOC NETWORK
(32) 13.12.2019	(47) 28.12.2022	(73) AIRBUS DS SAS
(33) Germany	(22) 13.03.2015	(72) LABBÉ, Patrick
(51) H04R 25/00	(54) MOBILE DEVICE FOR IMMERSIVE	LEGOIX, Olivier
(11) EP2981099	SOUND EXPERIENCES	LE FUR, Cédric
(21) EP15178938.5	(73) Framed Immersive Projects GmbH & Co.	RADOVANOVIC, Dejan
(47) 28.12.2022	Kg	(31) 1501630
(22) 29.07.2015	(72) Armbruster, Steffen	(32) 29.07.2015
(54) METHOD AND DEVICE FOR	(31) 102014204630	(33) France
SUPPRESSING FEEDBACK	(32) 13.03.2014	(51) H04W 12/02
(73) Sivantos Pte. Ltd.	(33) Germany	H04L 9/40
(72) ROSENKRANZ, Tobias Daniel	(51) H04W 4/40	H04W 12/106
PUDER, Henning	H04W 4/08	(11) EP3709690
WURZBACHER, Tobias	H04L 67/125	(21) EP17931697.1
(31) 102014215165	H04B 7/185	(47) 28.12.2022
(32) 01.08.2014	B64C 39/02	(87) CN2017109805
(33) Germany	(11) EP3751885	16.05.2019
(51) H04R 25/00	(21) EP19750866.6	(22) 07.11.2017
G01C 21/16	(47) 28.12.2022	(54) DATA PROCESSING METHOD AND
(11) EP3788802	(87) JP2019001917	NETWORK DEVICE
(21) EP19703315.2	15.08.2019	(73) GUANGDONG OPPO MOBILE
(47) 28.12.2022	(22) 22.01.2019	TELECOMMUNICATIONS CORP., LTD.
(87) EP2019052774	(54) METHOD, APPARATUS AND	(72) LIU, Jianhua
07.11.2019	SYSTEMS FOR HAPS COORDINATED	(51) H04W 12/02
(22) 05.02.2019	FLIGHT	H04W 12/06
(54) METHOD FOR OPERATING A	(73) SoftBank Corp.	H04L 9/40
HEARING AID, AND HEARING AID	(72) FUJII, Takafumi	H04W 12/71
	OTA, Yoshichika	(11) EP3095265

(21) EP15700385.6	(11) EP3713277	(51) H04W 24/10
(47) 28.12.2022	(21) EP20174308.5	H04M 1/00
(87) EP2015050601	(47) 28.12.2022	H04M 11/00
23.07.2015	(22) 18.01.2018	H04W 16/18
(22) 14.01.2015	(54) PAGING USER EQUIPMENTS ON A	H04W 52/02
(54) IDENTIFICATION AND/OR	SHARED COMMUNICATION MEDIUM	(11) EP3214867
AUTHENTICATION SYSTEM AND	(73) QUALCOMM Incorporated	(21) EP17151507.5
METHOD	(72) LIU, Chih-Hao	(47) 28.12.2022
(73) Pirwitz, Bjoern	YERRAMALLI, Srinivas	(22) 05.01.2011
Vantaggiato, Daniele	KADOUS, Tamer	(54) RADIO COMMUNICATION SYSTEM,
(72) Pirwitz, Bjoern	(31) 201815870824	RADIO TERMINAL, RADIO NETWORK,
Vantaggiato, Daniele	201762462212 P	RADIO COMMUNICATION METHOD
(31) 201414155257	(32) 12.01.2018	AND PROGRAM
(32) 14.01.2014	22.02.2017	(73) NEC Corporation
(33) United States of America	(33) United States of America	(72) FUTAKI, Hisashi
(51) H04W 12/06	United States of America	KOBAYASHI, Kosei
H04W 12/02	(51) H04W 16/14	AMINAKA, Hiroaki
H04W 12/30	H04W 72/04	(31) 2010002366
(11) EP3892022	H04W 72/12	(32) 07.01.2010
(21) EP19805326.6	H04W 76/16	(33) Japan
(47) 28.12.2022	(11) EP3429253	(51) H04W 28/02
(87) EP2019082139	(21) EP18193247.6	H04L 47/12
23.04.2020	(47) 28.12.2022	H04W 4/70
(22) 21.11.2019	(22) 28.08.2015	H04W 8/18
(54) METHOD AND APPARATUSES	(54) TERMINAL DEVICE FOR WIRELESS	H04W 48/02
FOR ENSURING SECURE	TELECOMMUNICATIONS SYSTEM	H04W 48/08
ATTACHMENT IN SIZE CONSTRAINED	(73) Sony Group Corporation	H04W 60/04
AUTHENTICATION PROTOCOLS	(72) MARTIN, Brian Alexander	H04L 47/32
(73) Thales Dis France SAS	(31) 14186237	(11) EP3515110
(72) LAMBERTON, Marc	(32) 24.09.2014	(21) EP19159685.7
BRETAGNE, Eric	(33) European Patent Office (EPO)	(47) 28.12.2022
GOUGET, Aline	(51) H04W 24/00	(22) 22.06.2016
MORANDI, Sylvain	H04W 24/02	(54) SYSTEMS AND METHODS FOR
SCHWARTZ, Arnaud	H04W 24/10	REGULATING USER DATA TRAFFIC IN
(31) 18306602	H04L 1/00	A WIRELESS NETWORK
(32) 03.12.2018	(11) EP3684093	(73) Telefonaktiebolaget LM Ericsson (publ)
(33) European Patent Office (EPO)	(21) EP18879315.2	(72) RÖNNEKE, Hans Bertil
(51) H04W 16/10	(47) 28.12.2022	(31) 201514826899
H04W 16/02	(87) CN2018115626	(32) 14.08.2015
(11) EP3735078	23.05.2019	(33) United States of America
(21) EP20171971.3	(22) 15.11.2018	(51) H04W 28/02
(47) 28.12.2022	(54) COMMUNICATION METHODS AND	H04W 28/24
(22) 29.04.2020	APPARATUSES	H04W 88/08
(54) CELL RESOURCE ALLOCATION	(73) Huawei Technologies Co., Ltd.	(11) EP3445082
(73) Accenture Global Solutions Limited	(72) GUAN, Peng	(21) EP17851050.9
(72) MOHEN VENKATAKRISHNAN, Ram	ZHANG, Xi	(47) 28.12.2022
Mohen	ZHANG, Min	(87) KR2017002367
VISWANATH, Romesh	SHI, Hongzhe	22.03.2018
SHARMA, Deepak A.	(31) 201711146689	(22) 06.03.2017
MALLICK, Chandradeep	(32) 17.11.2017	(54) BASE STATION APPARATUS,
(31) 201916400797	(33) China	TERMINAL APPARATUS, AND QOS
(32) 01.05.2019	(51) H04W 24/08	CONTROL METHOD
(33) United States of America	H04W 28/16	(73) SK Telecom Co., Ltd.
(51) H04W 16/14	H04W 72/04	(72) JEONG, Sang Soo
(11) EP3755027	(11) EP3516895	PARK, Jong Han
(21) EP18909835.3	(21) EP16784156.8	(31) 20160119450
(47) 28.12.2022	(47) 28.12.2022	(32) 19.09.2016
(87) CN2018079358	(87) EP2016074617	(33) Korea (Republic)
19.09.2019	19.04.2018	(51) H04W 28/02
(22) 16.03.2018	(22) 13.10.2016	H04W 72/10
(54) COMMUNICATION METHOD AND	(54) METHOD AND UNIT FOR RADIO	H04W 72/14
DEVICE	RESOURCE MANAGEMENT USING	(11) EP3888391
(73) GUANGDONG OPPO MOBILE	REINFORCEMENT LEARNING	(21) EP20736117.1
TELECOMMUNICATIONS CORP., LTD.	(73) Huawei Technologies Co., Ltd.	(47) 28.12.2022
(72) TANG, Hai	(72) CALABRESE, Francesco Davide	(87) KR2020000165
(51) H04W 16/14	SOLDATI, Pablo	09.07.2020
H04W 68/02	PETERS, Gunnar	(22) 06.01.2020
H04L 5/00	GHADIMI, Euhanna	

(54) METHOD AND DEVICE FOR PERFORMING UPLINK STATUS REPORT FOR LOW LATENCY IN NEXT-GENERATION MOBILE COMMUNICATION SYSTEM	(87) CN2018072253 18.07.2019	ZHANG, Haibo
(73) Samsung Electronics Co., Ltd.	(22) 11.01.2018	(31) 201610461474
(72) BAEK, Sangkyu AGIWAL, Anil	(54) SERVICE-BASED PROCESSING METHOD, TERMINAL DEVICE, AND NETWORK DEVICE	(32) 22.06.2016
(31) 20190001290	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(33) China
(32) 04.01.2019	(72) LIU, Jianhua	(51) H04W 52/06
(33) Korea (Republic)	(51) H04W 48/10	H04W 52/14
(51) H04W 28/14	H04W 16/28	H04W 52/28
H04W 52/02	H04W 88/04	H04W 52/24
H04W 68/00	(11) EP3738352	(11) EP3689047
H04W 68/02	(21) EP19700026.8	(21) EP18793268.6
(11) EP3280167	(47) 28.12.2022	(47) 28.12.2022
(21) EP16771297.5	(87) EP2019050111 18.07.2019	(87) IB2018057586 04.04.2019
(47) 28.12.2022	(22) 03.01.2019	(22) 28.09.2018
(87) CN2016076968 06.10.2016	(54) WIRELESS COMMUNICATIONS DEVICE AND METHOD	(54) DYNAMIC UPLINK TARGET RECEIVE POWER ADJUSTMENT FOR UPLINK INTERFERENCE MITIGATION
(22) 22.03.2016	(73) Sony Group Corporation	(73) Telefonaktiebolaget LM Ericsson (publ)
(54) METHOD AND DEVICE FOR CONTROLLING SET-UP OF USER SIDE BEARER	(72) SHARMA, Vivek WAKABAYASHI, Hideji WEI, Yuxin	(72) GAO, Shiwei LIN, Xingqin MURUGANATHAN, Siva YAJNANARAYANA, Vijaya
(73) Datang Mobile Communications Equipment Co., Ltd.	(31) 18151305	(31) 201762565977 P
(72) AI, Ming	(32) 11.01.2018	(32) 29.09.2017
(31) 201510149289	(33) European Patent Office (EPO)	(33) United States of America
(32) 31.03.2015	(51) H04W 48/16	(51) H04W 52/54
(33) China	H04W 28/02	H04W 52/36
(51) H04W 28/18	H04W 40/12	H04W 52/14
(11) EP3419330	H04W 40/24	H04W 52/22
(21) EP16898201.5	H04W 84/12	H04W 52/60
(47) 28.12.2022	(11) EP3703426	(11) EP3707937
(87) CN2016079095 19.10.2017	(21) EP17929882.3	(21) EP18872390.2
(22) 12.04.2016	(47) 28.12.2022	(47) 28.12.2022
(54) METHOD AND DEVICE FOR DETERMINING CODEC MODE SET FOR SERVICE COMMUNICATION	(87) JP2017038725 02.05.2019	(87) US2018059420 09.05.2019
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(22) 26.10.2017	(22) 06.11.2018
(72) TANG, Hai	(54) WIRELESS DEVICE AND DEVICE CONTROL SYSTEM	(54) TEMPORAL POWER CONTROL SYSTEM AND METHOD
(51) H04W 36/06	(73) Mitsubishi Electric Corporation	(73) T-Mobile USA, Inc.
H04W 36/24	(72) SHIGEYOSHI, Yuya HASHIMOTO, Kentaro HIRANO, Makoto	(72) MIGALDI, Scott, Francis HUMBERT IV, John, Joseph
H04W 84/18	(51) H04W 48/18	(31) 201715805089
H04W 88/04	H04W 88/10	(32) 06.11.2017
(11) EP3185612	H04W 16/14	(33) United States of America
(21) EP15834537.1	H04W 92/04	(51) H04W 56/00
(47) 28.12.2022	(11) EP3478001	H04B 7/06
(87) CN2015086537 25.02.2016	(21) EP17814473.9	H04B 7/08
(22) 10.08.2015	(47) 28.12.2022	H04W 74/08
(54) RELAY TERMINAL RESELECTION METHOD AND DEVICE	(87) CN2017079933 28.12.2017	H04L 5/00
(73) Datang Mobile Communications Equipment Co., Ltd.	(22) 10.04.2017	(11) EP3595371
(72) ZHAO, Yali	(54) S1AP SIGNALING TRANSMISSION METHOD AND APPARATUS	(21) EP18776004.6
(31) 201410419123	(73) Datang Mobile Communications Equipment Co., Ltd.	(47) 28.12.2022
(32) 22.08.2014	(72) DUAN, Jianghai ZHENG, Zhenduo HE, Ke	(87) CN2018081284 04.10.2018
(33) China	DING, Guodong	(22) 30.03.2018
(51) H04W 36/14	SU, Lifang	(54) METHOD FOR SIGNAL TRANSMISSION AND DEVICE
H04W 48/18	ZHANG, Zhengkun	(73) Huawei Technologies Co., Ltd.
H04W 36/00	CHEN, Jie	(72) LUO, Jun ZHANG, Jiayin HUANG, Lei
H04W 88/06	WU, Fanyu	(31) 201710209047
(11) EP3716687	XI, Jiande	(32) 31.03.2017
(21) EP18900521.8	WANG, Gaoliang	(33) China
(47) 28.12.2022		(51) H04W 56/00
		H04L 5/00
		H04W 72/00
		H04W 72/04

(11) EP3518591	(73) Samsung Electronics Co., Ltd	(54) COMMUNICATION METHOD, NETWORK DEVICE, AND TERMINAL DEVICE
(21) EP18795259.3	(72) KIM, Soeng Hun	(73) Huawei Technologies Co., Ltd.
(47) 28.12.2022	VAN LIESHOUT, Gert-Jan	(72) LIU, Yong
(87) CN2018085696	CHO, Joon Young	REN, Xiang
08.11.2018	JEONG, Kyeong In	(31) 201810030620
(22) 04.05.2018	NG, Boon Loong	(32) 12.01.2018
(54) COMMUNICATION METHOD AND COMMUNICATION APPARATUS	(31) 20110142069	(33) China
(73) Huawei Technologies Co., Ltd.	20110097409	<hr/>
(72) HUANG, Huang	201161431635 P	(51) H04W 72/04
GAO, Kuandong	(32) 26.12.2011	H04W 74/08
YAN, Mao	27.09.2011	(11) EP3322241
XIANG, Gao	11.01.2011	(21) EP15901249.1
(31) 201710314110	(33) Korea (Republic)	(47) 28.12.2022
(32) 05.05.2017	Korea (Republic)	(87) CN2015087067
(33) China	United States of America	23.02.2017
<hr/>	(51) H04W 72/04	(22) 14.08.2015
(51) H04W 68/00	H04L 5/00	(54) METHOD FOR REDUCING RESOURCE CONFLICTS, AND UE
(11) EP3375232	(11) EP3573394	(73) Huawei Technologies Co., Ltd.
(21) EP16793884.4	(21) EP17894439.3	(72) ZHANG, Xingwei
(47) 28.12.2022	(47) 28.12.2022	<hr/>
(87) EP2016077083	(87) CN2017072692	(51) H04W 72/04
18.05.2017	02.08.2018	H04W 76/28
(22) 09.11.2016	(22) 25.01.2017	H04W 52/02
(54) USER EQUIPMENT, NETWORK NODE AND RADIO COMMUNICATION METHOD	(54) RESOURCE ALLOCATION METHOD, TERMINAL DEVICE, AND NETWORK DEVICE	H04L 5/00
(73) Sony Group Corporation	(73) Huawei Technologies Co., Ltd.	(11) EP3920622
(72) NORD, Lars	(72) YU, Zheng	(21) EP20774395.6
BERGGREN, Anders	FEI, Yongqiang	(47) 28.12.2022
(31) 15194255	CHENG, Xingqing	(87) CN2020080726
(32) 12.11.2015	NAN, Fang	24.09.2020
(33) European Patent Office (EPO)	LUO, Chao	(22) 23.03.2020
<hr/>	(51) H04W 72/04	(54) REDUCING TRANSMISSION BANDWIDTH OF NETWORK DEVICE
(51) H04W 72/00	H04L 5/00	(73) Huawei Technologies Co., Ltd.
H04L 1/00	(11) EP3703450	(72) WANG, Ding
(11) EP3624517	(21) EP18878758.4	CUI, Liwei
(21) EP17930744.2	(47) 28.12.2022	WANG, Jian
(47) 28.12.2022	(87) CN2018115744	XU, Haibo
(87) CN2017109412	23.05.2019	(31) 201910217848
09.05.2019	(22) 15.11.2018	(32) 21.03.2019
(22) 03.11.2017	(54) RESOURCE CONFIGURATION METHOD AND APPARATUS, AND STORAGE MEDIUM	(33) China
(54) TRANSMISSION PARAMETER DETERMINATION METHOD, TERMINAL DEVICE AND NETWORK DEVICE	(73) Huawei Technologies Co., Ltd.	<hr/>
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(72) GUO, Zhiheng	(51) H04W 72/12
(72) TANG, Hai	FEI, Yongqiang	(11) EP3611991
<hr/>	SHEN, Zukang	(21) EP17908709.3
(51) H04W 72/00	LONG, Yi	(47) 28.12.2022
H04W 72/12	ZHAO, Yang	(87) CN2017083105
H04W 74/08	WAN, Lei	08.11.2018
H04W 72/04	BI, Wenping	(22) 04.05.2017
H04W 52/34	(31) 201810031890	(54) SCHEDULING REQUEST TRANSMISSION CONTROL METHOD AND RELATED PRODUCT
H04L 1/00	201711148960	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
H04L 5/00	(32) 12.01.2018	(72) LIN, Yanan
H04W 24/02	17.11.2017	ZHANG, Zhi
H04W 52/14	(33) China	<hr/>
H04W 52/36	China	(51) H04W 72/12
H04W 52/38	(51) H04W 72/04	H04L 5/00
H04W 24/10	H04L 5/00	(11) EP3706495
(11) EP2664199	H04B 7/0456	(21) EP17930692.3
(21) EP12733857.2	H04L 25/02	(47) 28.12.2022
(47) 28.12.2022	H04W 88/08	(87) CN2017109404
(87) KR2012000283	(11) EP3703454	09.05.2019
19.07.2012	(21) EP20151505.3	(22) 03.11.2017
(22) 11.01.2012	(47) 28.12.2022	(54) WIRELESS COMMUNICATION METHOD AND DEVICE
(54) UPLINK TRANSMISSION POWER CONFIGURATION METHOD AND APPARATUS FOR MOBILE COMMUNICATION SYSTEM	(22) 16.04.2018	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.

(72) SHEN, Jia	TRANSMISSION USING FAST / ZERO	PATH OF PACKET IN WIRELESS
(51) H04W 74/00	CONTENTION RESOLUTION	COMMUNICATION
H04W 28/18	(73) BlackBerry Limited	(73) Samsung Electronics Co., Ltd.
(11) EP3818767	(72) BORSELLA, Remo	(72) Kim, Dongsook
(21) EP19750125.7	HOLE, David Philip	Kwak, Dongho
(47) 28.12.2022	VENKOB, Satish	Huh, Hoon
(87) EP2019071327	HANOV, Steven Michael	(31) 20190058408
13.02.2020	KREUZER, Werner Karl	(32) 17.05.2019
(22) 08.08.2019	FAURIE, Rene	(33) Korea (Republic)
(54) COMMUNICATIONS DEVICE, INFRASTRUCTURE EQUIPMENT AND METHODS	(51) H04W 74/08	(51) H04W 76/38
(73) Sony Group Corporation	H04L 5/00	(11) EP3550931
(72) BEALE, Martin Warwick	H04L 1/18	(21) EP18165920.2
WONG, Shin Horng	(11) EP3876658	(47) 28.12.2022
PRIYANTO, Basuki	(21) EP21169206.6	(22) 05.04.2018
(31) 18188600	(47) 28.12.2022	(54) USE OF A USER EQUIPMENT
(32) 10.08.2018	(22) 09.01.2018	CONNECTED TO A MOBILE
(33) European Patent Office (EPO)	(54) SYSTEMS AND METHODS FOR	NETWORK, IN WHICH THE USER
(51) H04W 74/00	SIGNALING FOR SEMI-STATIC	EQUIPMENT USES AN ACCESS
H04W 74/08	CONFIGURATION IN GRANT-FREE	POINT NAME FOR HOME OPERATOR
H04L 5/00	UPLINK TRANSMISSIONS	SERVICES
(11) EP3609277	(73) HUAWEI TECHNOLOGIES CO., LTD.	(73) Deutsche Telekom AG
(21) EP19191057.9	(72) CAO, Yu	(72) MELANDER, Mari
(47) 28.12.2022	ZHANG, Liqing	LINDEN, Christoph
(22) 09.08.2019	MA, Jianglei	(51) H04W 88/10
(54) SUPPLEMENTARY UPLINK FOR	(31) 201715830928	H04W 84/04
RANDOM ACCESS PROCEDURES	201762447906 P	H04W 88/04
(73) Comcast Cable Communications, LLC	201762447437 P	(11) EP3417671
(72) Jeon, Hyoungsuk	201762444210 P	(21) EP16710841.4
Dinan, Esmael	(32) 04.12.2017	(47) 28.12.2022
Babaei, Alireza	18.01.2017	(87) SE2016050131
Zhou, Hua	17.01.2017	24.08.2017
Xu, Kai	09.01.2017	(22) 19.02.2016
Park, Kyungmin	(33) United States of America	(54) DEVICE FOR ENABLING
(31) 201862716696 P	United States of America	WIRELESS ACCESS TO WIRELESS
(32) 09.08.2018	United States of America	COMMUNICATION TERMINALS
(33) United States of America	United States of America	(73) Telefonaktiebolaget LM Ericsson (publ)
(51) H04W 74/00	(51) H04W 74/08	(72) LATIF, Sajjadul
H04W 74/08	H04L 12/18	LU, Chenguang
H04W 48/12	H04W 4/06	LARAQUI, Kim
(11) EP3713367	H04W 74/00	(51) H04W 92/10
(21) EP18879119.8	H04B 7/06	H04W 84/04
(47) 28.12.2022	(11) EP3643134	H04L 1/22
(87) CN2018109644	(21) EP18740699.6	(11) EP3764736
23.05.2019	(47) 28.12.2022	(21) EP19781660.6
(22) 10.10.2018	(87) US2018038283	(47) 28.12.2022
(54) METHODS AND DEVICES FOR	27.12.2018	(87) CN2019081321
RANDOM ACCESS	(22) 19.06.2018	10.10.2019
(73) Datang Mobile Communications	(54) SPATIAL LBT WITH BROADCAST/ MULTICAST RECEPTION	(22) 03.04.2019
Equipment Co., Ltd.	(73) Qualcomm Incorporated	(54) DATA TRANSMISSION METHOD AND DEVICE
(72) REN, Bin	(72) ZHANG, Xiaoxia	(73) Huawei Technologies Co., Ltd.
DA, Ren	FAN, Zhifei	(72) ZHU, Yuanping
ZHAO, Zheng	FAKOORIAN, Seyed Ali Akbar	LI, You
LI, Tie	YOO, Taesang	LIU, Jing
(31) 201711140715	(31) 201815948390	WANG, Rui
(32) 16.11.2017	201762522963 P	YUAN, Shitong
(33) China	(32) 09.04.2018	DAI, Mingzeng
(51) H04W 74/00	21.06.2017	(31) 201810302364
H04W 74/08	(33) United States of America	(32) 04.04.2018
H04W 56/00	United States of America	(33) China
(11) EP3675587	(51) H04W 76/15	(51) H05B 3/34
(21) EP19219294.6	H04W 76/28	H02J 5/00
(47) 28.12.2022	(11) EP3745810	H01F 38/14
(22) 12.03.2010	(21) EP20174608.8	(11) EP3858105
(54) METHOD AND DEVICE FOR	(47) 28.12.2022	(21) EP19782647.2
REGISTRATION AND DATA	(22) 14.05.2020	(47) 28.12.2022
	(54) METHODS AND APPARATUSES	(87) FR2019000147
	FOR DETERMINING TRANSMISSION	02.04.2020

(22) 17.09.2019	F21K 9/27	(32) 19.03.2012
(54) MULTIFUNCTION SYSTEM OF UNIVERSAL AND MODULAR ELECTRICAL BANDS	F21Y 103/10	(33) United States of America
(73) Smart Packaging Solutions	F21Y 115/10	(51) H05H 1/24
(72) CUENOT, Yves-Pierre	H05B 45/46	H01J 37/32
TONIN, Jérôme	(11) EP3373703	(11) EP3716735
KAMBOURIAN, Haig	(21) EP18157824.6	(21) EP17933154.1
(31) 1800990	(47) 28.12.2022	(47) 28.12.2022
(32) 24.09.2018	(22) 21.02.2018	(87) JP2017041939
(33) France	(54) LED BULB AND METHOD FOR OPERATING SAME	31.05.2019
(51) H05B 6/06	(73) B/E Aerospace, Inc.	(22) 22.11.2017
(11) EP3920663	(72) SAM, Luis	(54) POWER SUPPLY DEVICE FOR PLASMA, PLASMA DEVICE, AND METHOD FOR CONTROLLING POWER SUPPLY DEVICE FOR PLASMA
(21) EP21177841.0	JOHANNESSEN, Eric	(73) Fuji Corporation
(47) 28.12.2022	UPTON, Brendan	(72) TAKIKAWA, Shinji
(22) 04.06.2021	VELIS, Denis	(51) H05K 5/00
(54) SYSTEM AND METHOD FOR IDENTIFYING COOKWARE ITEMS PLACED ON AN INDUCTION COOKTOP	(31) 201715451651	(11) EP3620036
(73) Whirlpool Corporation	(32) 07.03.2017	(21) EP18719863.5
(72) Gallivanoni, Andrea	(33) United States of America	(47) 28.12.2022
Pastore, Cristiano Vito	(51) H05B 45/325	(87) EP2018060452
Inderst, Federica	H05B 45/50	08.11.2018
(31) 202016946098	H05B 47/24	(22) 24.04.2018
202016946101	(11) EP3426007	(54) ELECTRONIC MODULE
(32) 05.06.2020	(21) EP18182482.2	(73) Bayerische Motoren Werke Aktiengesellschaft
05.06.2020	(47) 28.12.2022	(72) KALTENBRUNNER, Martin
(33) United States of America	(22) 09.07.2018	DUSS, Mike
United States of America	(54) VEHICLE LIGHTING DEVICE WITH POWER CONTROL	(31) 102017207491
(51) H05B 6/68	(73) Herbach, Burkhard	(32) 04.05.2017
H05B 6/70	(72) HERBACH, Burkhard	(33) Germany
H05B 6/72	VOLLMER, Christian	(51) H05K 7/14
H05B 6/66	MAROWSKI, Frank	H05K 7/20
(11) EP3516928	(31) 102017119464	(11) EP3747245
(21) EP17780965.4	202017104063 U	(21) EP19707507.0
(47) 28.12.2022	(32) 25.08.2017	(47) 28.12.2022
(87) US2017053435	07.07.2017	(87) IT2019050024
29.03.2018	(33) Germany	08.08.2019
(22) 26.09.2017	Germany	(22) 31.01.2019
(54) METHOD FOR MANAGING A MICROWAVE HEATING DEVICE AND MICROWAVE HEATING DEVICE	(51) H05B 45/48	(54) HOUSING STRUCTURE FOR ELECTRONIC BOARDS
(73) Illinois Tool Works Inc.	H05B 45/375	(73) Eurotech S.P.A.
(72) CARCANO, Marco	(11) EP3329743	(72) ROSSI, Mauro
SCLOCCHI, Michele	(21) EP15899316.2	PADULOSI, Ugo
(31) 201715713861	(47) 28.12.2022	ZANIER, Gianpaolo
201662399601 P	(87) CN2015085597	(31) 201800002318
(32) 25.09.2017	02.02.2017	(32) 01.02.2018
26.09.2016	(22) 30.07.2015	(33) Italy
(33) United States of America	(54) DIRECT AC DRIVING CIRCUIT AND LUMINAIRE	(51) H05K 7/20
United States of America	(73) Tridonic GmbH & Co. KG	(11) EP3917300
(51) H05B 45/10	Tridonic Jennersdorf GmbH	(21) EP20315287.1
B60Q 3/16	(72) LIN, Quentin	(47) 28.12.2022
H05B 45/20	BAKK, Istvan	(22) 29.05.2020
H05B 47/10	(51) H05B 47/105	(54) UNINTERRUPTIBLE POWER SUPPLY HAVING A LIQUID COOLING DEVICE
(11) EP3493655	H05B 47/11	(73) OVH
(21) EP18209321.1	H05B 47/19	(72) Chehade, Ali
(47) 28.12.2022	A61N 5/06	Bauduin, Hadrien
(22) 29.11.2018	A61M 21/00	Bauchart, Grégory Francis Louis
(54) AUDIO BUS LIGHTING CONTROL	F21W 131/103	(51) H05K 7/20
(73) Harman International Industries, Incorporated	A61M 21/02	F28D 20/02
(72) Perera, Viraga	(11) EP2829161	F28F 13/18
(31) 201715826471	(21) EP13764722.8	H01L 21/48
(32) 29.11.2017	(47) 28.12.2022	H01L 23/367
(33) United States of America	(87) SE2013050288	H01L 23/373
(51) H05B 45/20	26.09.2013	H01L 23/427
	(22) 15.03.2013	(11) EP3654745
	(54) IMPROVED LIGHT CONTROL SYSTEM	
	(73) Brainlit AB	
	(72) WINGREN, Tord	
	(31) 201261612468 P	

(21) EP19208114.9
(47) 28.12.2022
(22) 08.11.2019
(54) METHOD AND APPARATUS FOR
HEAT-DISSIPATION IN ELECTRONICS
(73) GE Aviation Systems LLC
(72) ENGELHARDT, Michel
(31) 201816189251
(32) 13.11.2018
(33) United States of America

(51) H05K 9/00
C09K 3/00
(11) EP3369297
(21) EP15906909.5
(47) 28.12.2022
(87) CN2015092954
04.05.2017
(22) 27.10.2015
(54) A CONDUCTIVE COMPOSITION FOR
LOW FREQUENCY EMI SHIELDING
(73) Henkel AG & Co. KGaA
(72) HUANG, Chenyu
YAN, Lily
WU, Qili
HE, Xiping
YAO, Laura

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) A01J 5/04 A01J 7/00 A01J 5/08	(54) A COMBINATION PRODUCT FOR PROPHYLAXIS AND TREATMENT OF IRRITABLE BOWEL SYNDROME	(22) 18.07.2019 (54) ARTICLE FOR FORMING AN AEROSOL
(11) EP3834608	(73) PrecisionBiotics Group Limited	(73) Philip Morris Products S.A.
(21) EP20859668.4	(72) MURPHY, Eileen Frances	(72) BATISTA, Rui Nuno
(22) 18.09.2020	GROEGER, David	NICOLAS, Frederic
(54) LINER, TEAT CUP, AND MILKING DEVICE	KIELY, Barry	POINDRON, Cyrille
(73) Tokuyama Corporation	(74) ir. J.C. Volmer c.s.	(74) dr. W.A.H.M. Van Borm
(72) INUI, Yoji	(31) 18190598	(31) 18185900
KONDO, Hitoshi	18190595	(32) 26.07.2018
(74) dr. A. Krebs	18153992	(33) European Patent Office (EPO)
(31) 2019181844	(32) 23.08.2018	(47) 16.11.2022
(32) 02.10.2019	23.08.2018	(51) A24D 1/20
(33) Japan	29.01.2018	A24F 40/46
(47) 30.11.2022	(33) European Patent Office (EPO)	A24F 40/20
(51) A01K 11/00	European Patent Office (EPO)	(11) EP3621464
A01K 29/00	European Patent Office (EPO)	(21) EP18724207.8
A61B 5/00	European Patent Office (EPO)	(22) 09.05.2018
A61B 5/07	(47) 30.11.2022	(54) AEROSOL-GENERATING ARTICLE, DEVICE AND SYSTEM WITH OPTIMIZED SUBSTRATE USAGE
A61B 5/1455	(51) A23L 11/00	(73) Philip Morris Products S.A.
(11) EP3837971	A23P 30/40	(72) BATISTA, Rui Nuno
(21) EP19217923.2	A47J 43/12	TRITZ, Poh Yoke
(22) 19.12.2019	(11) EP3897197	(74) dr. W.A.H.M. Van Borm
(54) APPARATUS FOR MONITORING NUTRITION, ESPECIALLY FERMENTATION IN THE RUMEN OF A RUMINANT	(21) EP19824359.4	(31) 17170413
(73) GEA Farm Technologies GmbH	(22) 20.12.2019	(32) 10.05.2017
(72) Laporte Uribe, Jose Alberto	(54) AERATED FOOD PRODUCTS AND PROCESSES OF PREPARATION THEREOF	(33) European Patent Office (EPO)
(74) dr. R.C. van Duijvenbode c.s.	(73) Société des Produits Nestlé S.A.	(47) 30.11.2022
(47) 19.10.2022	(72) GOLDFEDER, Yair	(51) A24D 3/04
(51) A01N 43/56	BARANOVSKY, Victor	A24D 3/06
A01N 43/36	MARCILLA, Rafael	(11) EP3474689
A01N 25/00	CHEVALIER, Jean-François	(21) EP17731930.8
A01P 3/00	(74) ir. F.A. Geurts c.s.	(22) 27.06.2017
(11) EP2879497	(31) 18215466	(54) SMOKING ARTICLE WITH COMBINED VENTILATION AND FILTRATION EFFICIENCY ADJUSTMENT
(21) EP13745385.8	(32) 21.12.2018	(73) Philip Morris Products S.A.
(22) 31.07.2013	(33) European Patent Office (EPO)	(72) UTHURRY, Jerome
(54) METHOD OF COMBATting SOYBEAN SUDDEN DEATH SYNDROME USING SUBSTITUTED PYRAZOLAMIDES	(47) 14.09.2022	FIGUEROA, Loi Mark C.
(73) Syngenta Participations AG	(51) A24B 3/14	(74) dr. W.A.H.M. Van Borm
(72) OLAYA-HUERTAS, Gilberto	A24D 3/02	(31) 16176490
SWART, Gina, Mercia	(11) EP3727042	(32) 27.06.2016
(74) ir. W.J.J.M. Kempes	(21) EP18836888.0	(33) European Patent Office (EPO)
(31) 201261680031 P	(22) 17.12.2018	(47) 16.11.2022
(32) 06.08.2012	(54) METHOD AND UNIT FOR CRIMPING A WEB OF MATERIAL FOR THE TOBACCO INDUSTRY	(51) A24F 40/42
(33) United States of America	(73) G.D S.p.A.	(11) EP3829361
(47) 05.10.2022	(72) BALDANZA, Nicola	(21) EP19752440.8
(51) A23C 9/123	SARTONI, Massimo	(22) 30.07.2019
A61K 35/745	FEDERICI, Luca	(54) ELECTRONIC VAPING DEVICE INCLUDING TRANSFER PADS WITH ORIENTED FIBERS
A23L 33/135	(74) dr. R.C. van Duijvenbode c.s.	(73) Philip Morris Products S.A.
A61P 1/00	(31) 201700148879	(72) CROWE, William J.
A61P 29/00	(32) 22.12.2017	PATIL, Bipin R.
(11) EP3745870	(33) Italy	JORDAN, Geoffrey Brandon
(21) EP19705706.0	(47) 30.11.2022	ROBERTS, Michael
(22) 29.01.2019	(51) A24D 1/20	TUCKER, Christopher S.
	A24B 15/16	KEEN, Jarrett
	A24F 40/00	(74) dr. W.A.H.M. Van Borm
	(11) EP3826480	
	(21) EP19742037.5	

(31) 201816049450	(74) ir. H.A. Witmans c.s.	MULTI-PERSONS USING IN-BODY
(32) 30.07.2018	(31) 2022190	SIGNALS OBTAINED BY UWB RADAR
(33) United States of America	(32) 12.12.2018	(73) Tata Consultancy Services Limited
(47) 16.11.2022	(33) Netherlands	(72) Chowdhury, Arijit
(51) A24F 47/00	(47) 21.09.2022	Rani, Smriti
A61M 15/00	(51) A47K 10/18	Khasnobish, Anwasha
(11) EP3595464	(11) EP3629864	Das, Taniya
(21) EP18709018.8	(21) EP18726422.1	Chakravarty, Tapas
(22) 08.03.2018	(22) 17.05.2018	Pal, Arpan
(54) AEROSOL-GENERATING DEVICE AND	(54) HOLDING SYSTEM FOR MAKING	(74) dr. ir. G.J.C. Verdijck c.s.
AEROSOL-GENERATING SYSTEM	A PACKAGE AVAILABLE THAT	(31) 202021027589
(73) Philip Morris Products S.A.	ACCOMMODATES CLEANING	(32) 29.06.2020
(72) REEVELL, Tony	OR DISINFECTANT WIPES OR	(33) India
(74) dr. W.A.H.M. Van Borm	DISPOSABLE GLOVES	(47) 28.09.2022
(31) 17161351	(73) Bode Chemie GmbH	(51) A61B 5/107
(32) 16.03.2017	(72) LANGLOTZ, Christian	A61B 18/14
(33) European Patent Office (EPO)	KUBOTEIT, Stefan	(11) EP3881760
(47) 16.11.2022	KELTING, Matthias	(21) EP21163477.9
(51) A47C 9/02	(74) ir. W.J.J.M. Kempes	(22) 18.03.2021
A47C 7/00	(31) 102017111233	(54) MEASURING THICKNESS OF
(11) EP3764844	(32) 23.05.2017	CARDIAC WALL TISSUE DURING
(21) EP19765661.4	(33) Germany	ABLATION
(22) 20.08.2019	(47) 14.09.2022	(73) Biosense Webster (Israel) Ltd.
(54) CHAIR GUIDE	(51) A47L 13/18	(72) GOVARI, Assaf
(73) goracon engineering gmbh	(11) EP2921096	ALTMANN, Andres Claudio
(72) Hermans, Ralf	(21) EP15159254.0	(74) dr. R.C. van Duijvenbode c.s.
(74) ir. W.J.J.M. Kempes	(22) 16.03.2015	(31) 202016823527
(31) 102018006696	(54) Disposable hand cover	(32) 19.03.2020
(32) 24.08.2018	(73) Arion Holding B.V.	(33) United States of America
(33) Germany	(72) Joosten, Carl	(47) 26.10.2022
(47) 14.09.2022	Joosten, Erik	(51) A61B 17/24
(51) A47G 19/22	(74) dr. ir. G.J.C. Verdijck c.s.	A61B 17/00
B65D 47/28	(31) 2012456	A61B 17/02
B65D 77/28	(32) 17.03.2014	A61F 2/20
(11) EP3603459	(33) Netherlands	(11) EP3563779
(21) EP19189661.2	(47) 19.10.2022	(21) EP17885926.0
(22) 01.08.2019	(51) A61B 5/0215	(22) 28.12.2017
(54) BEVERAGE CONTAINER, IN	A61B 5/03	(54) DYSPHONIA TREATMENT TOOL
PARTICULAR A BEVERAGE BOTTLE,	(11) EP3060108	(73) Nobelpharma Co., Ltd.
A BEVERAGE BOX OR A BEVERAGE	(21) EP14787182.6	(72) ISSHIKI, Nobuhiko
CAN, COMPRISING A DRINKING	(22) 23.10.2014	ABURADA, Takako
STRAW THAT IS DIRECTED TO	(54) IN-VIVO PRESSURE MONITORING	(74) ir. A.R. Aalbers
REGULATE THE SUPPLY QUANTITY	SYSTEM	(31) 2017160944
(73) Abbasi, Hamid	(73) Sintef TTO AS	2016257375
(72) Abbasi, Hamid	(72) GLOTT, Thomas	(32) 24.08.2017
(74) ir. W.J.J.M. Kempes	CLAUSEN, Ingelin	29.12.2016
(31) 102018122812	(74) J.M.H. Duyver lic.	(33) Japan
102018118805	(31) 13190369	Japan
(32) 18.09.2018	(32) 25.10.2013	(47) 16.11.2022
02.08.2018	(33) European Patent Office (EPO)	(51) A61C 13/00
(33) Germany	(47) 23.11.2022	(11) EP3220850
Germany	(51) A61B 5/024	(21) EP15816092.9
(47) 28.09.2022	A61B 5/0507	(22) 20.11.2015
(51) A47J 31/36	A61B 5/08	(54) METHOD FOR POSITIONING A
(11) EP3893702	A61B 5/113	SEMIFINISHED PRODUCT
(21) EP19821226.8	G01S 13/02	(73) Merz Dental GmbH
(22) 12.12.2019	G01S 13/04	(72) BOROWSKI, Christian
(54) SYSTEM FOR PREPARING	G01S 13/06	(74) ir. W.J.J.M. Kempes
A QUANTITY OF BEVERAGE	A61B 5/0205	(31) 102014117109
COMPRISING AN AIR PURGE	G01S 7/41	(32) 21.11.2014
GROOVE.	G01S 13/18	(33) Germany
(73) Koninklijke Douwe Egberts B.V.	G01S 7/292	(47) 05.10.2022
(72) NOORDHUIS, Joeke	A61B 5/107	(51) A61D 9/00
OGINK, Judith Margreet Hanneke	(11) EP3932301	(11) EP3380039
VAN TOOR, Johan	(21) EP21152743.7	(21) EP16867479.4
BEEKMAN, Jarno	(22) 21.01.2021	(22) 22.11.2016
FAVERO, Andrea	(54) DETERMINATION OF	(54) EQUINE POULTICE APPLICATION
DE GRAAFF, Gerbrand Kristiaan	CARDIOPULMONARY SIGNALS FOR	PADS

(73) Arion Equine Inc.	A61K 47/10	(47) 19.10.2022
(72) QUINN, Anthony	A61K 47/14	(51) A61K 31/4709
(74) dr. R.C. van Duijvenbode c.s.	A61K 47/18	A61K 9/48
(31) 201562258593 P	A61K 47/20	A61K 9/14
(32) 23.11.2015	A61K 47/24	A61K 9/00
(33) United States of America	A61K 31/192	A61P 35/00
(47) 14.09.2022	A61K 31/5578	A61P 37/04
(51) A61F 2/04	A61K 31/5585	A61P 17/12
A61M 25/00	(11) EP3512495	(11) EP3393468
(11) EP3328317	(21) EP17768124.4	(21) EP16880113.2
(21) EP15760272.3	(22) 15.09.2017	(22) 22.12.2016
(22) 29.07.2015	(54) PROSTACYCLIN ANALOGUE	(54) METHODS FOR TREATING
(54) RETRACTING OR/AND SUPPORTING	FORMULATIONS	IMMUNODEFICIENCY DISEASE
PERIURETHRAL TISSUE	(73) Camurus AB	(73) X4 Pharmaceuticals, Inc.
(73) Butterfly Medical Ltd.	(72) TIBERG, Fredrik	(72) ARBEIT, Robert D
(72) BACHAR, Yehuda	JOHNSSON, Markus	RAGAN, Paula Marie
(47) 26.10.2022	BARAUSKAS, Justas	(74) mr. R. Zwamborn
(51) A61F 2/07	NISTOR, Catalin	(31) 201662428964 P
A61F 2/82	(74) ir. W.J.J.M. Kempes	201562271087 P
A61L 31/16	(31) 201621277	(32) 01.12.2016
C12N 15/11	201615754	22.12.2015
A61L 27/54	(32) 14.12.2016	(33) United States of America
A61L 29/16	15.09.2016	United States of America
(11) EP3661454	(33) United Kingdom	(47) 14.09.2022
(21) EP18841759.6	United Kingdom	(51) A61K 31/519
(22) 25.07.2018	(47) 09.11.2022	A61K 31/495
(54) DEVICE AND METHOD FOR	(51) A61K 9/20	A61K 31/4985
PROMOTING RAPID STRUT	A61K 31/135	A61K 31/506
COVERAGE AND VASCULAR	A61K 9/00	A61K 31/53
ENDOTHELIAL COVERAGE	A61K 9/50	A61K 31/7048
(73) Do Canto Zago, Alexandre	(11) EP3287124	A61K 45/06
(72) DA SILVA ROSSATO, Juliane	(21) EP17186636.1	A61K 9/00
ZAGO, Alcides Jose	(22) 16.04.2015	A61P 13/12
PINHEIRO DO NASCIMENTO, Ludmila	(54) ORAL DOSAGE FORM OF KETAMINE	A61P 43/00
DO CANTO ZAGO, Alexandre	(73) Ketabon GmbH	C12Q 1/44
(74) dr. A. Krebs	(72) MANTHEI, Sascha	C12Q 1/6883
(31) 201762539356 P	MUNDSZINGER, Olaf	G01N 33/00
(32) 31.07.2017	REY, Helene	G01N 33/48
(33) United States of America	FISCHER, Marc	G01N 33/68
(47) 14.09.2022	(74) ir. J.C. Volmer c.s.	(11) EP3267986
(51) A61K 9/00	(31) 14165057	(21) EP16765568.7
A61K 38/28	(32) 17.04.2014	(22) 14.03.2016
A61K 47/02	(33) European Patent Office (EPO)	(54) PDE5 INHIBITORS FOR USE IN
A61K 47/12	(47) 30.11.2022	REDUCING RENAL CYST SIZE AND/
A61K 47/10	(51) A61K 31/4155	OR PREVENTING RENAL CYST
A61K 31/192	C07D 231/40	GROWTH
A61P 3/10	C07D 231/44	(73) Cunha De Almeida, Rita Maria
A61K 47/34	C07D 231/50	Indiana University Research&Technology
(11) EP3340966	C07D 413/12	Corporation
(21) EP16771021.9	C07D 417/12	(72) CLENDENON, Sherry G.
(22) 19.08.2016	C07D 487/04	BACALLAO, Robert
(54) RAPID-ACTING INSULIN	C07D 498/04	GLAZIER, James A.
COMPOSITIONS	A61P 9/00	CUNHA DE ALMEIDA, Rita Maria
(73) Eli Lilly and Company	(11) EP3532050	(74) dr. A. Krebs
(72) AKERS, Michael Patrick	(21) EP17800718.3	(31) 201562132724 P
CHRISTE, Michael Edward	(22) 27.10.2017	(32) 13.03.2015
HARDY, Thomas Andrew	(54) CRYSTALLINE FORM OF (1R,2R)-2-	(33) United States of America
MAJUMDAR, Ranajoy	[4-(3-METHY-1-1H-PYRAZOL-5-	(47) 14.09.2022
NGUYEN, Chi A.	YL)BENZOYL]-N-(4-OXO-4,5,6,7-	(51) A61K 31/519
PAAVOLA, Chad D.	TETRAHYDROPYRAZOLO[1,5-	A61K 45/06
SCHULTE, Nanette Elizabeth	A]PYRAZIN-3-	A61P 35/00
SARIN, Virender Kumar	YL)CYCLOHEXANECARBOXAMIDE	C07D 487/04
(74) ir. J.C. Volmer c.s.	(73) Astrazeneca AB	(11) EP3661935
(31) 201562210469 P	(72) PETTERSEN, Anna, Matilda, Angelica	(21) EP18844511.8
(32) 27.08.2015	(74) ir. W.J.J.M. Kempes	(22) 09.08.2018
(33) United States of America	(31) 201662414109 P	(54) SUBSTITUTED
(47) 12.10.2022	(32) 28.10.2016	PYRAZOLOPYRIMIDINES USEFUL AS
(51) A61K 9/00	(33) United States of America	KINASES INHIBITORS

(73) TELIGENE LTD	United States of America	(21) EP18883859.3
(72) ZHANG, Dawei	United States of America	(22) 29.11.2018
(74) ir. J.D. de Zeeuw	United States of America	(54) METHOD OF TREATING OR
(31) 201762605390 P	United States of America	PREVENTING ISCHEMIA-
(32) 11.08.2017	United States of America	REPERFUSION INJURY
(33) United States of America	United States of America	(73) CSL Limited
(47) 12.10.2022	United States of America	(72) PEARSE, Martin
(51) A61K 31/7105	United States of America	VIKSTROM, Ingela
A61K 39/12	United States of America	BAZ MORELLI, Adriana
(11) EP3324979	United States of America	(74) dr. R.C. van Duijvenbode c.s.
(21) EP16828537.7	United States of America	(31) 2017904822
(22) 21.07.2016	United States of America	(32) 29.11.2017
(54) INFECTIOUS DISEASE VACCINES	United States of America	(33) Australia
(73) ModernaTX, Inc.	United States of America	(47) 07.12.2022
(72) BAHL, Kapil	United States of America	(51) A61L 27/34
HIMANSU, Sunny	(47) 12.10.2022	A61L 27/54
CIARAMELLA, Giuseppe	(51) A61K 38/17	A61L 29/08
ZAKS, Tal	A61K 48/00	A61L 31/10
HUANG, Eric Yi-Chun	A61P 3/10	A61K 49/00
(74) ir. W.J.J.M. Kempes	C12N 15/86	A61K 47/65
(31) 201662357806 P	C07K 14/00	A61L 27/28
201662351148 P	(11) EP3496741	A61L 15/14
201662351200 P	(21) EP17841991.7	A61L 15/16
201662351267 P	(22) 15.08.2017	A61L 15/44
201662351244 P	(54) NOVEL THERAPY TO ACHIEVE	A61L 27/22
201662351206 P	GLYCEMIC CONTROL	A61L 28/00
201662303666 P	(73) Beth Israel Deaconess Medical Center,	A61L 29/16
201662303405 P	Inc.	A61L 31/16
201562247660 P	(72) FERRAN, Christiane	A61L 26/00
201562247581 P	DA SILVA, Cleide	G01N 33/543
201562247551 P	MELE, Alessandra	A61K 47/69
201562247644 P	(74) ir. W.J.J.M. Kempes	(11) EP3424540
201562247527 P	(31) 201662382726 P	(21) EP18177306.0
201562244995 P	201662375427 P	(22) 20.12.2013
201562245233 P	(32) 01.09.2016	(54) CLEAVABLE COATING MATERIAL
201562244859 P	15.08.2016	HAVING MICROBIAL FUNCTIONALITY
201562245179 P	(33) United States of America	(73) Original G B.V.
201562244855 P	United States of America	(72) Gazendam, Jurjen
201562241699 P	(47) 05.10.2022	(74) dr. R.C. van Duijvenbode c.s.
201562199204 P	(51) A61K 38/18	(31) 2010040
201562195263 P	C07K 14/71	(32) 21.12.2012
(32) 01.07.2016	C12N 5/00	(33) Netherlands
16.06.2016	C12N 15/62	(47) 23.11.2022
16.06.2016	C12N 15/86	(51) A61L 27/38
16.06.2016	(11) EP2968461	A61L 27/56
16.06.2016	(21) EP14722439.8	A61L 27/60
16.06.2016	(22) 13.03.2014	G01N 33/50
04.03.2016	(54) FUSION PROTEINS COMPRISING	(11) EP3914307
04.03.2016	PDGF AND VEGF BINDING PORTIONS	(21) EP20700951.5
28.10.2015	AND METHODS OF USING THEREOF	(22) 23.01.2020
28.10.2015	(73) Genzyme Corporation	(54) SUBSTITUTE FOR BODY TISSUE
28.10.2015	(72) PECHAN, Peter	(73) Microfactory
28.10.2015	WADSWORTH, Samuel	(72) MONTI, Fabrice
28.10.2015	SCARIA, Abraham	FOUCHE, Florent
22.10.2015	RUBIN, Hillard	(74) ir. F.A. Geurts c.s.
22.10.2015	ARDINGER, Jeffery	(31) 1900582
22.10.2015	(74) ir. W.J.J.M. Kempes	(32) 23.01.2019
22.10.2015	(31) 201361780914 P	(33) France
22.10.2015	(32) 13.03.2013	(47) 28.09.2022
14.10.2015	(33) United States of America	(51) A61M 5/315
30.07.2015	(47) 21.09.2022	A61M 5/24
21.07.2015	(51) A61K 39/395	A61M 5/31
(33) United States of America	C07K 16/28	(11) EP3589339
United States of America	A61K 38/19	(21) EP18707377.0
United States of America	A61P 9/10	(22) 27.02.2018
United States of America	A61P 13/12	(54) A MONITORING DEVICE FOR A
United States of America	A61P 43/00	MEDICAMENT DELIVERING DEVICE
United States of America	(11) EP3717011	(73) SHL Medical AG

(72) CIRILLO, William	(54) SKINCARE DEVICES	United States of America
(74) ir. W.J.J.M. Kempes	(73) Sedic, Filip	United States of America
(31) 17158507	(72) Sedic, Filip	United States of America
(32) 28.02.2017	(74) ir. H.A. Witmans c.s.	(47) 23.11.2022
(33) European Patent Office (EPO)	(31) 201816175260	(51) B01D 21/02
(47) 23.11.2022	201762586994 P	C08G 69/02
(51) A61M 5/32	(32) 30.10.2018	B01D 5/00
A61M 5/31	16.11.2017	C08G 63/78
(11) EP3595754	(33) United States of America	(11) EP2696953
(21) EP18710067.2	United States of America	(21) EP12720445.1
(22) 16.03.2018	(47) 12.10.2022	(22) 11.04.2012
(54) NEEDLE PROTECTION DEVICE FOR A	(51) A61N 5/10	(54) METHOD FOR THE CONDENSATION
PRE-FILLED SYRINGE WITH STAKED	A61K 39/395	OF VAPORS UNDER A VACUUM
NEEDLE, AND SYRINGE COMPRISING	C07K 16/28	(73) Aquafil Engineering GmbH
SUCH A DEVICE	A61P 35/00	(72) KARASIAK, Wolf
(73) Biocorp Production	(11) EP3157629	KARASIAK, Dirk
(72) ANEAS, Daniel	(21) EP15733375.8	(74) ir. H.A. Witmans c.s.
(74) dr. R.C. van Duijvenbode c.s.	(22) 17.06.2015	(31) 102011007543
(31) 1752182	(54) METHODS OF CANCER TREATMENT	(32) 15.04.2011
(32) 17.03.2017	WITH ANTAGONISTS AGAINST PD-1	(33) Germany
(33) France	AND PD-L1 IN COMBINATION WITH	(47) 14.09.2022
(47) 26.10.2022	RADIATION THERAPY	(51) B01D 45/08
(51) A61M 25/02	(73) MedImmune Limited	B01J 8/18
(11) EP2954922	(72) ILLIDGE, Tim	B01J 8/34
(21) EP15169939.4	STEWART, Ross	B01D 45/12
(22) 28.10.2009	MORROW, Michelle	B01D 45/16
(54) APPARATUS FOR SECURING A LINE	WILKINSON, Robert	B01J 8/00
(73) Braidlock Limited	DOVEDI, Simon	(11) EP2914362
(72) Spinoza, Marc	POON, Edmund	(21) EP13792778.6
(74) ir. F.A. Geurts c.s.	(74) ir. W.J.J.M. Kempes	(22) 14.10.2013
(31) 0819782	(31) 201462013157 P	(54) PROCESS FOR MINIMIZING
(32) 28.10.2008	(32) 17.06.2014	ATTRITION OF CATALYST PARTICLES
(33) United Kingdom	(33) United States of America	(73) Dow Global Technologies LLC
(47) 19.10.2022	(47) 05.10.2022	(72) PRETZ, Matthew T.
(51) A61M 27/00	(51) A63J 17/00	SHAW, Don
A61M 25/00	E04F 13/08	STEARNS, Brien A.
(11) EP3257546	E04F 15/02	KODAM, Madhusudhan M.
(21) EP17179057.9	F21V 23/04	FREIREICH, Ben J.
(22) 25.10.2013	F21V 33/00	STEWART, Mark W.
(54) METHOD OF PREPARING A READY-	F21Y 115/10	(74) ir. W.J.J.M. Kempes
TO-USE URINARY CATHETER	G09F 9/302	(31) 201261720582 P
(73) Teleflex Life Sciences Pte. Ltd.	(11) EP3721959	(32) 31.10.2012
(72) SCHØNFELDT, Lars	(21) EP20172270.9	(33) United States of America
(74) ir. F.A. Geurts c.s.	(22) 21.04.2004	(47) 09.11.2022
(31) 201270662	(54) TILE LIGHTING METHODS AND	(51) B01F 23/41
(32) 26.10.2012	SYSTEMS	B01F 25/451
(33) Denmark	(73) Signify North America Corporation	B01F 31/65
(47) 05.10.2022	(72) MUELLER, George, G	B01F 33/501
(51) A61N 1/36	LYS, Ihor, A.	B65B 3/00
(11) EP2961476	MORGAN, Frederick, M.	A61M 1/02
(21) EP14715721.8	PIEPGRAS, Colin	(11) EP3903916
(22) 25.02.2014	ROBERGE, Brian	(21) EP19856451.0
(54) SYSTEM FOR NEUROMODULATION	KIM, Hern	(22) 23.12.2019
USING COMPOSITE PATTERNS OF	DOWLING, Kevin, J.	(54) FLUID-MIXING APPARATUS AND
STIMULATION OR WAVEFORMS	LOGAN, Derek	MIXING METHOD
(73) THE CLEVELAND CLINIC	CELLA, Charles, H.	(73) Biotechnology Institute, I MAS D, S.L.
FOUNDATION	(31) 558400 P	(72) ANITUA ALDECOA, Eduardo
(72) MACHADO, Andre G.	523903 P	(74) J.M.H. Duyver lic.
(74) drs. C.M.A. Quintelier	500754 P	(31) 201831290
(31) 201313776875	467913 P	(32) 28.12.2018
(32) 26.02.2013	464185 P	(33) Spain
(33) United States of America	(32) 31.03.2004	(47) 16.11.2022
(47) 30.11.2022	20.11.2003	(51) B01J 8/00
(51) A61N 5/06	05.09.2003	(11) EP3903923
(11) EP3511051	05.05.2003	(21) EP21168486.5
(21) EP18206354.5	21.04.2003	(22) 15.04.2021
(22) 14.11.2018	(33) United States of America	(54) METHOD FOR COMPLETE DRAINING
	United States of America	OF A CATALYTIC REACTOR BY

MEANS OF AN ARTICULATED ARM PROVIDED WITH ROTARY SPIRAL PROTRUSIONS	(22) 08.02.2013	(33) United States of America
(73) Eurecat S.A.	(54) METHOD AND APPARATUS FOR ELECTROSTATIC PAINTING	United States of America
(72) THEVENET, Vincent	(73) Eurosider S.a.S. di Milli Ottavio & C.	(47) 16.11.2022
(74) ir. H.A. Witmans c.s.	(72) Milli, Ottavio	(51) B06B 1/02
(31) 2004297	(74) ir. J.P.E. Brants	G01N 29/24
(32) 30.04.2020	(31) FI20120205	(11) EP3557244
(33) France	(32) 10.10.2012	(21) EP19150856.3
(47) 28.09.2022	(33) Italy	(22) 08.01.2019
(51) B01J 29/06	(47) 14.09.2022	(54) ULTRASONIC EXAMINATION DEVICE AND ULTRASONIC PROBE
B01J 29/076	(51) B05B 12/08	(73) Hitachi, Ltd.
B01J 29/40	A01M 7/00	(72) TAKEZAKI, Taiichi
B01J 29/48	B05B 12/00	MACHIDA, Shuntaro
B01J 37/02	B05B 15/50	TANAKA, Tomohiko
C10G 11/05	B05B 15/18	HASEGAWA, Hiroaki
C07C 11/02	(11) EP3766588	IMAL, Ryo
C07C 11/04	(21) EP20186149.9	(31) 2018080728
C07C 11/06	(22) 16.07.2020	(32) 19.04.2018
C07C 4/06	(54) SPRAY PATTERN MONITORING	(33) Japan
(11) EP2991762	(73) Intelligent Agricultural Solutions, LLC	(47) 14.04.2021
(21) EP14727620.8	(72) Wood JR., Daniel	(51) B08B 17/02
(22) 28.04.2014	Bremer, Marshall	F21V 8/00
(54) CATALYTIC METHODS FOR CONVERTING NAPHTHA INTO OLEFINS	Butts, Nicholas	B63B 59/04
(73) Saudi Basic Industries Corporation	(74) ir. H.A. Witmans c.s.	G02B 6/00
(72) AL-KHATTAFA, Sulaiman	(31) 201962876512 P	(11) EP3520912
SIDDIQUI, M., Abdulbari	(32) 19.07.2019	(21) EP19152147.5
AL-YASSIR, Nabil	(33) United States of America	(22) 21.05.2014
AITANI, Abdullah	(47) 14.12.2022	(54) METHOD AND SYSTEM FOR PREVENTING FOULING OF SURFACES
AL-HAZMI, Mohammed	(51) B05D 1/12	(73) Koninklijke Philips N.V.
ODEDAIRO, Taiwo, A.	B05B 1/06	(72) SALTERS, Bart Andre
AL-ZENAIDI, Ahmed	B05B 1/34	HIETBRINK, Roelant Boudewijn
(74) ir. J.D. de Zeeuw	B05B 7/16	RUTTEN, Ivo Wilhelmus Johannes Marie
(31) 201361816999 P	B05B 7/20	VAN HOUTEN, Hendrik
(32) 29.04.2013	B05B 7/22	(74) drs. O. Griebing
(33) United States of America	C23C 4/134	(31) 201361826148 P
(47) 16.11.2022	(11) EP3227032	13191713
(51) B01L 3/00	(21) EP15864746.1	(32) 22.05.2013
G01N 1/40	(22) 17.07.2015	06.11.2013
G01N 35/00	(54) THERMAL SPRAY METHOD INTEGRATING SELECTED REMOVAL OF PARTICULATES	(33) United States of America
(11) EP3829767	(73) Progressive Surface, Inc.	European Patent Office (EPO)
(21) EP19750091.1	(72) VANEVERY, Kent	(47) 28.09.2022
(22) 30.07.2019	(74) dr. R.C. van Duijvenbode c.s.	(51) B21B 1/32
(54) DEVICE AND METHOD FOR GUIDING A LIQUID THROUGH A POROUS MEDIUM	(31) 201414560456	(11) EP3733317
(73) Hahn-Schickard-Gesellschaft für angewandte Forschung e.V.	(32) 04.12.2014	(21) EP19171923.6
(72) PAUST, Nils	(33) United States of America	(22) 30.04.2019
ZAHO, Yunpeng	(47) 23.11.2022	(54) ROLLING OF A PRODUCT
KAINZ, Daniel	(51) B06B 1/02	(73) Primetals Technologies Austria GmbH
FRÜH, Susanna	B06B 1/06	(72) Krimpelstaetter, Konrad
(74) ir. F.A. Geurts c.s.	G06F 1/16	Bergmann, Martin
(31) 102018212930	G06F 3/043	(74) dr. R.C. van Duijvenbode c.s.
(32) 02.08.2018	G01H 11/08	(47) 05.10.2022
(33) Germany	G01S 7/52	(51) B23K 9/20
(47) 21.09.2022	(11) EP3687707	(11) EP3964318
(51) B05B 5/03	(21) EP18788955.5	(21) EP20194946.8
B05B 5/16	(22) 27.09.2018	(22) 08.09.2020
B05B 7/14	(54) SYSTEM AND METHOD FOR ULTRASONIC SENSING	(54) WELDING HEAD FOR STUD WELDING WITH IGNITION BY ELEVATION OR TIP IGNITION
B05B 7/16	(73) Qualcomm Incorporated	(73) Bolzenschweißtechnik Heinz Soyer GmbH
B05D 1/06	(72) KITCHENS, Jack Conway	(72) Jilg, Andreas Walter
B05B 7/24	GOJEVIC, Stephen Michael	(74) dr. R.C. van Duijvenbode c.s.
B05B 5/00	MIRANTO, James Anthony	(47) 19.10.2022
(11) EP3639927	(74) dr. R.C. van Duijvenbode c.s.	(51) B23P 19/02
(21) EP19209766.5	(31) 201715827528	B30B 15/14
	201762565479 P	
	(32) 30.11.2017	
	29.09.2017	

B30B 15/26	(47) 28.09.2022	BLASE, Johannes
G01L 5/00	(51) B29C 45/00	KAUSCH, Martin
(11) EP2977196	B29C 45/14	UHLMANN, Stefan
(21) EP15177634.1	F16J 15/02	SAUERSTEIN, Tobias
(22) 21.07.2015	F16J 15/10	(74) J.M.H. Duyver lic.
(54) PRESSING METHOD WITH	F16J 15/16	(31) 102018216152
COMPENSATION OF POSITIONING	F16L 17/025	(32) 21.09.2018
ERRORS IN A PRESSING PROCESS	B29L 31/26	(33) Germany
AND PRESS FOR CARRYING OUT	F16L 37/084	(47) 09.11.2022
SUCH A METHOD	(11) EP3634710	(51) B29C 65/08
(73) IEF Werner GmbH	(21) EP18806011.5	(11) EP3389993
(72) Bär, Manfred	(22) 15.05.2018	(21) EP16809416.7
Meyer, Andreas	(54) SEALING GASKET WITH SPECIALIZED	(22) 14.12.2016
(74) J.M.H. Duyver lic.	REINFORCING RING FOR SEALING	(54) METHOD AND DEVICE FOR
(31) 102014110507	PLASTIC PIPELINES	CONNECTING FIBRE-REINFORCED
(32) 25.07.2014	(73) S & B Technical Products, Inc.	WEBS
(33) Germany	(72) QUESADA, Guido	(73) Covestro Intellectual Property GmbH &
(47) 16.11.2022	(74) ir. W.J.J.M. Kempes	Co. KG
(51) B25J 19/02	(31) 201815975847	(72) BOERGER, Henning
B65G 1/137	201762510088 P	KNAUPP, Matthias
B25J 9/16	(32) 10.05.2018	GRIMM, Thomas
G06Q 10/08	23.05.2017	(74) ir. W.J.J.M. Kempes
G05B 15/02	(33) United States of America	(31) 15200659
G06Q 30/06	United States of America	(32) 17.12.2015
(11) EP3261809	(47) 02.11.2022	(33) European Patent Office (EPO)
(21) EP16756255.2	(51) B29C 48/00	(47) 02.11.2022
(22) 24.02.2016	B29B 7/24	(51) B30B 11/24
(54) AUTOMATED ORDER FULFILLMENT	B29B 7/60	B65G 33/14
SYSTEM AND METHOD	B29B 7/74	B30B 9/30
(73) Dematic Corp.	C08J 3/22	B65F 3/22
(72) BERGHORN, David M.	C09C 1/00	(11) EP3071405
O'BRIEN, Mark D.	C08K 5/00	(21) EP14864236.6
(74) drs. O. Griebing	C09C 1/24	(22) 18.11.2014
(31) 201562120572 P	C08K 3/22	(54) SCREW CONVEYOR SYSTEM FOR
(32) 25.02.2015	B29B 7/88	COMPACTION APPARATUS
(33) United States of America	B29K 105/00	(73) SCRANTON MANUFACTURING
(47) 21.09.2022	B29B 7/00	COMPANY INC.
(51) B26D 7/18	B29B 9/06	(72) GINGRAS, Serge
B26D 7/32	B29K 91/00	GINGRAS, Mathieu
(11) EP3867028	B29K 101/12	GUILMETTE, Jean-Sébastien
(21) EP19786523.1	(11) EP3774269	FILLION, Michel
(22) 07.10.2019	(21) EP19711662.7	(31) 201361906095 P
(54) INTERLEAVER, SLICER AND METHOD	(22) 06.03.2019	(32) 19.11.2013
OF USING THE INTERLEAVER IN THE	(54) BLACK COLOURANT AND	(33) United States of America
SLICER	MANUFACTURING METHOD THEREOF	(47) 14.09.2022
(73) GEA Food Solutions Germany GmbH	(73) Colour Tone Masterbatch Limited	(51) B41J 2/045
(72) HÖRBERG, Winfried	(72) MORGAN, Kevin	B41J 2/175
BOCHTLER, Alois	(74) ir. J.D. de Zeeuw	B41J 2/14
HARTMANN, Albert	(31) 201805958	(11) EP3710263
(74) ir. W.J.J.M. Kempes	(32) 11.04.2018	(21) EP19706142.7
(31) 102018217897	(33) United Kingdom	(22) 06.02.2019
(32) 18.10.2018	(47) 16.11.2022	(54) PULLDOWN DEVICES
(33) Germany	(51) B29C 48/255	(73) HEWLETT-PACKARD DEVELOPMENT
(47) 14.09.2022	B29C 48/25	COMPANY, L.P.
(51) B29B 17/02	B29C 48/92	(72) GARDNER, James Michael
C08J 11/08	F16K 11/085	ROSSI, John
(11) EP3504037	F16K 11/10	LINN, Scott A.
(21) EP17842451.1	B29C 64/209	(74) ir. W.J.J.M. Kempes
(22) 24.08.2017	B33Y 30/00	(47) 23.11.2022
(54) SEPARATING POLYMER FROM	(11) EP3853000	(51) B60C 7/08
COMPOSITE STRUCTURES	(21) EP19769428.4	B60B 9/28
(73) PVC SEPARATION HOLDINGS PTY	(22) 11.09.2019	B60C 7/18
LTD.	(54) CONTROL AND CLOSURE DEVICE	B60B 9/24
(72) COLLINS, Dennis Martin	FOR EXTRUDED PLASTICALLY	B60B 9/26
(74) J.M.H. Duyver lic.	DEFORMABLE MATERIAL	B60C 7/26
(31) 2016903391	(73) Fraunhofer-Gesellschaft zur Förderung	B60C 11/02
(32) 25.08.2016	der angewandten Forschung e.V.	B60C 7/14
(33) Australia	(72) JOHN, Christopher	(11) EP3823843

(21) EP19745944.9	(22) 03.10.2019	(74) ir. A. Blokland c.s.
(22) 15.07.2019	(54) LIFTING DEVICE FOR A VEHICLE	(31) 102016010573
(54) WHEEL ASSEMBLY INCLUDING	AXLE	(32) 02.09.2016
OUTER RIM COUPLED RING	(73) Accesorios y Elevadores Valencia, S.L.	(33) Germany
DEFINING A MECHANICAL STOP AND	(72) MORENO IBAÑEZ, Alberto	(47) 02.11.2022
RELATED METHODS	(31) 201831517 U	(51) B60K 35/00
(73) GACW Incorporated	(32) 04.10.2018	B60K 37/02
(72) KEMENY, Zoltan	(33) Spain	B60W 40/04
NEPPL, Tom	(47) 09.11.2022	B60W 60/00
(74) ir. A. Blokland c.s.	(51) B60H 1/00	G05D 1/02
(31) 201916383169	F41H 7/00	G01S 11/14
201816237478	F41H 7/03	G01H 5/00
201862764138 P	(11) EP3292007	(11) EP3771588
(32) 12.04.2019	(21) EP16721398.2	(21) EP20177609.3
31.12.2018	(22) 29.04.2016	(22) 29.05.2020
19.07.2018	(54) COOLING SYSTEM OF A COMBAT	(54) PROCESSING DATA FOR DRIVING
(33) United States of America	VEHICLE, AND PRESSURE CASCADE	AUTOMATION SYSTEM
United States of America	FOR COOLING AT LEAST ONE	(73) BlackBerry Limited
United States of America	ELECTRONIC UNIT IN A COMBAT	(72) BOULTON, Adam John
(47) 19.10.2022	VEHICLE BY MEANS OF A COOLING	(74) ir. W.J.J.M. Kempes
(51) B60C 7/08	SYSTEM	(31) 201910864
B60B 9/28	(73) Rheinmetall Landsysteme GmbH	(32) 30.07.2019
B60C 7/18	(72) ECKHOFF, Detlev	(33) United Kingdom
B60B 9/24	LANG, Gerhard	(47) 21.09.2022
B60B 9/26	SCHWARTZ, Eckhard	(51) B60L 50/61
B60C 7/26	(74) dr. R.C. van Duijvenbode c.s.	B60W 20/13
B60C 11/02	(31) 202015102347 U	B63H 21/20
B60C 7/14	(32) 07.05.2015	B60L 58/20
(11) EP3823844	(33) Germany	B63H 21/21
(21) EP19746330.0	(47) 26.10.2022	(11) EP3971017
(22) 15.07.2019	(51) B60K 6/405	(21) EP21194527.4
(54) WHEEL ASSEMBLY INCLUDING	B60K 6/485	(22) 02.09.2021
LATERAL STOPS AND RELATED	B60K 6/26	(54) MARINE PROPULSION SYSTEM AND
METHODS	(11) EP3587159	MARINE POWER SUPPLY SYSTEM
(73) GACW Incorporated	(21) EP19190995.1	(73) Yamaha Hatsudoki Kabushiki Kaisha
(72) KEMENY, Zoltan	(22) 14.05.2014	(72) Mizushima, Yoshihiro
(74) ir. A. Blokland c.s.	(54) POWER TRANSMISSION MODULE	Hayashi, Takuya
(31) 201816237426	FOR A MOTOR VEHICLE AND	(74) dr. R.C. van Duijvenbode c.s.
201862764138 P	METHOD OF ASSEMBLING AND	(31) 2020151230
(32) 31.12.2018	DISASSEMBLING A POWER	(32) 09.09.2020
19.07.2018	TRANSMISSION MODULE	(33) Japan
(33) United States of America	(73) MAN Truck & Bus SE	(47) 19.10.2022
United States of America	(72) Golka, Markus	(51) B60N 3/00
(47) 19.10.2022	(74) ir. A. Blokland c.s.	B64D 11/06
(51) B60C 17/00	(31) 102013017579	A47B 5/00
B60C 23/04	(32) 24.10.2013	(11) EP3599129
(11) EP3642054	(33) Germany	(21) EP19187843.8
(21) EP18732841.4	(47) 02.11.2022	(22) 23.07.2019
(22) 31.05.2018	(51) B60K 6/52	(54) TABLE DEVICE FOR A MOTOR
(54) TIRE ADAPTED FOR RUNFLAT	B60K 6/22	VEHICLE
OPERATING AND EMBEDDING AN	B60W 10/06	(73) MAN Truck & Bus SE
ELECTRONIC DEVICE	B60W 10/08	(72) Röhler, Alexander
(73) Compagnie Générale des	B60W 20/12	(74) ir. A. Blokland c.s.
Etablissements Michelin	B62D 59/04	(31) 102018117946
(72) GRECO, Mathieu	B60W 50/00	(32) 25.07.2018
GLIBERT, Séverine	B60W 30/19	(33) Germany
MUHLHOFF, Olivier	B60W 20/11	(47) 09.11.2022
(74) ir. W.J.J.M. Kempes	(11) EP3305574	(51) B60P 7/10
(31) 1755690	(21) EP17188970.2	B60R 9/06
(32) 22.06.2017	(22) 01.09.2017	B60R 11/06
(33) France	(54) METHOD FOR OPERATING AN	B60P 7/08
(47) 05.10.2022	AXIS OF A ROAD VEHICLE TRAIN	B60R 11/00
(51) B60G 11/46	COMBINATION	(11) EP3851323
B62D 61/12	(73) MAN Truck & Bus SE	(21) EP20214519.9
B60G 7/04	(72) Kohrs, Dr., Christian	(22) 16.12.2020
B60G 9/00	Wagner, Dr., Philipp	(54) CONTAINER MOUNTING SYSTEM FOR
(11) EP3636464	Kraaijenhagen, Ben	VEHICLES
(21) EP19382854.8	Fleischhacker, Dr., Jan	(73) Pelican Products, Inc.

(72) Bossenbroek, Scott Lee Tennant, Robert Clifford	B62D 61/10 (11) EP3770046	(33) Germany (47) 21.09.2022
(74) dr. R.C. van Duijvenbode c.s.	(21) EP19187837.0	(51) B62D 53/00
(31) 202016744787	(22) 23.07.2019	B62D 65/18
(32) 16.01.2020	(54) DRIVERLESS TRANSPORT SYSTEM	(11) EP3793890
(33) United States of America	(73) MAGNA STEYR Fahrzeugtechnik AG & Co KG	(21) EP19809780.0
(47) 12.10.2022	(72) GARTNER, Markus WIENER, Valentin KRAINER, Gottfried WIELAND, Christian HOLLER, Franz	(22) 25.11.2019 (54) CONVEYING DEVICE, PROCESSING INSTALLATION, METHOD FOR CONVEYING AND/OR PROCESSING OBJECTS
(51) B60Q 1/50 B60Q 1/22 B60Q 1/38 B60Q 1/48	(74) dr. ir. F.M. van Bouwelen	(73) Dürr Systems AG
(11) EP2985182	(47) 14.09.2022	(72) REMPP, Peter BELL, Stefano LAUER, Michael BARTSCH, Dirk FRASCH, Benny WEIDLE, Martin BAYHA, Johannes
(21) EP15001657.4	(51) B62D 33/06	(74) ir. W.J.J.M. Kempes
(22) 03.06.2015	(11) EP3837154	(31) 102019206729
(54) METHOD FOR WARNING ROAD USERS OF POSSIBLE DANGEROUS AREAS CAUSED BY A VEHICLE PERFORMING A MANOEUVRE OR WHICH WANTS TO PERFORM A MANOEUVRE	(21) EP19753346.6 (22) 13.08.2019 (54) DRIVER'S CAB MOUNTING FOR A COMMERCIAL VEHICLE, COMMERCIAL VEHICLE AND METHOD FOR ADJUSTING THE DAMPING OF A DRIVER'S CAB MOUNTING	102019200310 102019200308 102019200307 102019200311 202019100145 U
(73) MAN Truck & Bus SE	(73) MAN Truck & Bus SE	(32) 09.05.2019
(72) Elbs, Norbert	(72) GERRITZEN, Ralph MENDLER, Hardy	11.01.2019
(74) ir. A. Blokland c.s.	(74) ir. A. Blokland c.s.	11.01.2019
(31) 102014011915	(31) 102018119913	11.01.2019
(32) 12.08.2014	(32) 16.08.2018	11.01.2019
(33) Germany	(33) Germany	11.01.2019
(47) 12.10.2022	(47) 09.11.2022	11.01.2019
(51) B60W 30/16	(51) B62D 33/06 B62D 33/02 B62D 65/04 B62D 65/02 B62D 33/077	(33) Germany Germany Germany Germany Germany Germany
(11) EP2826686	(11) EP3617045	(47) 26.10.2022
(21) EP14000848.3	(21) EP19193044.5	(51) B62J 1/16 B62J 1/18
(22) 11.03.2014	(22) 22.08.2019	(11) EP3290312
(54) Method for controlling the distance between a vehicle and a preceding vehicle	(54) MOTOR VEHICLE WITH A DRIVERS CAB TRAILER DEVICE	(21) EP16186363.4
(73) MAN Truck & Bus SE	(73) MAN Truck & Bus SE	(22) 30.08.2016
(72) Drimml, Peter Dörner, Karlheinz Zimmermann, Andreas Huber, Martin Heyes, Daniel Jerg, Stefan	(72) Rohrmüller, Hans Burger, Norbert Kusch, Willi Möller, Andreas Kondic, Darko	(54) CHILD BIKE SEAT (73) Thule Sweden AB (72) NIEUWENHUIS, Albert VAN BREUGEL, Gert-Jan KARELSE, Joline NIJHUIS, Jort
(74) ir. A. Blokland c.s.	(74) ir. A. Blokland c.s.	(74) ir. W.J.J.M. Kempes
(31) 102013011549	(31) 102018121209	(47) 16.11.2022
(32) 11.07.2013	(32) 30.08.2018	(51) B63B 17/00 H01M 50/209 H01M 50/249 H01M 50/262
(33) Germany	(33) Germany	(11) EP3835193
(47) 02.11.2022	(47) 05.10.2022	(21) EP20208438.0
(51) B62B 9/08 B62B 5/04 B62B 5/06	(51) B62D 53/00 B62D 59/04 B64F 1/32 B60P 1/00 B60P 1/02	(22) 18.11.2020
(11) EP3251920	(11) EP3628575	(54) FIXING SYSTEM OF A PLURALITY OF BATTERY PACKS STACKED ON EACH OTHER IN A VESSEL COMPRISING ADJUSTABLE CHOCKS, ASSOCIATED ALIMENTATION BLOC AND FIXING METHOD
(21) EP17169388.0	(21) EP19181945.7	(73) Naval Group
(22) 04.05.2017	(22) 24.06.2019	(72) BODET, Ludovic MAHE, Erwan
(54) ROTATING HANDLE DYNAMIC BRAKE	(54) DOLLY AND METHOD FOR THE OPERATION OF SAME	
(73) Thule Sweden AB	(73) MULAG FAHRZEUGWERK Heinz Wössner GmbH & CO. KG	
(72) McPherson, Roger Mendes, Karl Fleming, Wesley	(72) Wössner, Holger	
(74) ir. W.J.J.M. Kempes	(74) J.M.H. Duyver lic.	
(31) 201762444661 P 201662343571 P	(31) 102018210180	
(32) 10.01.2017 31.05.2016	(32) 22.06.2018	
(33) United States of America United States of America		
(47) 16.11.2022		
(51) B62D 9/00 B62D 21/18 B62D 63/02		

FERAL, Hervé	(11) EP3347289	(31) 102020102828
(74) dr. R.C. van Duijvenbode c.s.	(21) EP16766598.3	(32) 04.02.2020
(31) 1912867	(22) 12.09.2016	(33) Germany
(32) 19.11.2019	(54) WASTE STORAGE DEVICE	(47) 02.11.2022
(33) France	(73) Sanganic International Limited	(51) B67D 1/04
(47) 12.10.2022	(72) CUDWORTH, Paul	B67D 1/06
(51) B65D 17/34	(74) dr. A. Krebs	B67D 1/08
B65D 39/10	(31) 201612982	(11) EP3481766
B65D 17/28	201516048	(21) EP17737916.1
B65D 17/52	(32) 27.07.2016	(22) 05.07.2017
B65D 39/08	10.09.2015	(54) BEVERAGE DISPENSING ASSEMBLY
B65D 47/06	(33) United Kingdom	AND BEVERAGE CONTAINER
B65D 47/20	United Kingdom	(73) Heineken Supply Chain B.V.
B65D 47/24	(47) 28.09.2022	(72) PAAUWE, Arie Maarten
B65D 51/00	(51) B65G 17/18	WITTE, Pieter Gerard
(11) EP3423367	B65G 47/40	(74) ir. H.A. Witmans c.s.
(21) EP17760501.1	B65G 47/84	(31) 2017109
(22) 24.02.2017	(11) EP3914543	(32) 05.07.2016
(54) RESEALABLE CONTAINER LID	(21) EP20700927.5	(33) Netherlands
ASSEMBLY	(22) 22.01.2020	(47) 07.12.2022
(73) Powercan Holding LLC	(54) HIGH THROUGHPUT PARCEL	(51) B82Y 40/00
(72) ZABALETA, Daniel A.	SORTING SYSTEM	H01M 4/04
HIBBS, Jr., William Allen	(73) Solystic	B81C 1/00
BULSO, Joseph D.	(72) RIEU, Jean	C25D 1/00
LIVEZEY, Daniel Edward	HOURS, Patrick	C25D 1/04
HACKETT, Sam D.	(74) ir. W.J.J.M. Kempes	H01L 23/00
(74) dr. T. Wittop Koning PhD	(31) 1900622	(11) EP3592697
(31) 201615056216	(32) 24.01.2019	(21) EP18712811.1
(32) 29.02.2016	(33) France	(22) 08.03.2018
(33) United States of America	(47) 16.11.2022	(54) ARRANGEMENT AND METHOD
(47) 16.11.2022	(51) B65G 43/08	FOR PROVIDING A PLURALITY OF
(51) B65D 47/10	(11) EP3187438	NANOWIRES
B65D 47/24	(21) EP15203142.3	(73) NanoWired GmbH
B65D 47/28	(22) 30.12.2015	(72) DASSINGER, Florian
B65D 51/22	(54) CONVEYOR SYSTEM FOR PIECE	QUEDNAU, Sebastian
B65D 85/804	GOODS AND METHOD FOR	SCHLAAK, Helmut F.
B65D 51/28	ELIMINATING DISRUPTION IN A	ROUSTAIE, Farough
(11) EP3652083	CONVEYOR SYSTEM	BIRLEM, Olav
(21) EP18745527.4	(73) Siemens Aktiengesellschaft	(74) dr. A. Ellens c.s.
(22) 16.07.2018	(72) EBIGT, Jochen	(31) 102017104902
(54) CONTAINER CLOSURE WITH A	(74) dr. R.C. van Duijvenbode c.s.	102017104905
STANDARD CAPSULE	(47) 12.10.2022	(32) 08.03.2017
(73) MONTFORT SOLUTIONS GMBH	(51) B65G 47/84	08.03.2017
(72) SCHMID, Martin	(11) EP3914546	(33) Germany
(74) dr. R.C. van Duijvenbode c.s.	(21) EP20700928.3	Germany
(31) 102017115934	(22) 22.01.2020	(47) 14.09.2022
(32) 14.07.2017	(54) PARCEL OR PACKAGE SORTING/	(51) C01B 21/087
(33) Germany	HANDLING SYSTEM COMPRISING A	C01C 1/14
(47) 14.09.2022	TRAY SORTING CONVEYOR LOADED	C07C 279/00
(51) B65D 71/22	BY A SLAT CONVEYOR WITH PUSHER	C06B 31/00
B65D 71/30	SHOES	C07C 277/08
B65D 71/34	(73) Solystic	(11) EP3853174
B65D 71/36	(72) BEAUGRAND, Wilfrid	(21) EP18779820.2
(11) EP3580138	RIEU, Jean	(22) 17.09.2018
(21) EP18707211.1	(74) ir. W.J.J.M. Kempes	(54) SYNTHESIS OF AMMONIUM
(22) 12.02.2018	(31) 1900621	DINITRAMIDE (ADN)
(54) CARTON AND BLANK THEREFOR	(32) 24.01.2019	(73) Totalförsvarets Forskningsinstitut
(73) WestRock Packaging Systems, LLC	(33) France	(72) EK, Stefan
(72) ZACHERLE, Matthew E.	(47) 16.11.2022	JOHANSSON, Jonas
PEELER, Andrew T.	(51) B66F 9/07	(74) dr. R.C. van Duijvenbode c.s.
(74) J.M.H. Duyver lic.	(11) EP3914552	(47) 09.11.2022
(31) 201762458099 P	(21) EP21701950.4	(51) C01B 32/194
(32) 13.02.2017	(22) 21.01.2021	H01J 37/20
(33) United States of America	(54) WAREHOUSE VEHICLE HAVING A	C01B 32/196
(47) 14.09.2022	TRACKED DRIVE	G01N 23/04
(51) B65F 1/06	(73) WITRON Logistik + Informatik GmbH	G01N 23/20025
B65F 1/14	(72) ZEIS, Patrick	(11) EP3033303
B65F 1/16	(74) ir. H.Th. van den Heuvel c.s.	(21) EP14750617.4

(22) 07.08.2014	(47) 26.10.2022	(22) 29.12.2010
(54) TRANSMISSION ELECTRON MICROSCOPY SUPPORT WITH PARTIALLY HYDROGENATED GRAPHENE	(51) C07C 29/48	(54) CONTINUOUS PROCESS FOR THE PRODUCTION OF DERIVATIVES OF SATURATED CARBOXYLIC ACIDS
(73) United Kingdom Research and Innovation	C07C 31/20	(73) Novamont S.p.A.
(72) PASSMORE, Lori A.	C07C 29/86	(72) BORSOTTI, Giampietro
RUSSO, Christopher J.	C07C 29/94	FERRARI, Adriano
(74) dr. R.C. van Duijvenbode c.s.	(11) EP3988529	DIGIOIA, Francesca
(31) 201318463	(21) EP20203021.9	BIESER, Arno
201361865359 P	(22) 21.10.2020	PIROCCO, Alessandro
(32) 18.10.2013	(54) A METHOD FOR THE PREPARATION OF 1,2-PROPANEDIOL	(74) J.M.H. Duyver lic.
13.08.2013	(73) Evonik Operations GmbH	(31) MI20092361
(33) United Kingdom	(72) WIEDERHOLD, Holger	(32) 30.12.2009
United States of America	GLATZ, Patrik	(33) Italy
(47) 02.11.2022	BOLZ, David	(47) 16.11.2022
(51) C03B 3/00	(74) ir. W.J.J.M. Kempes	(51) C07C 53/126
C03B 5/235	(47) 28.09.2022	C01B 32/40
(11) EP3883893	(51) C07C 39/24	C01B 32/50
(21) EP19809218.1	A61K 31/11	C07C 1/04
(22) 30.10.2019	C07C 69/63	C07C 2/04
(54) BATCH INLET AND CLEANING DEVICE FOR GLASS MELTER	C07C 43/178	C07C 2/76
(73) Owens-Brockway Glass Container Inc.	C07C 47/565	C07C 51/23
(72) KUHLMAN, Robert	C07C 49/835	C07C 51/25
RASHLEY, Shane, T.	C07C 255/53	C07C 51/27
(74) ir. F.A. Geurts c.s.	C07C 235/60	C11C 3/02
(31) 201816196822	A01N 49/00	C25B 1/04
(32) 20.11.2018	A01N 37/40	C07C 11/04
(33) United States of America	A61K 31/055	C07C 11/02
(47) 19.10.2022	C07C 65/28	(11) EP3837236
(51) C03C 25/28	C07C 69/157	(21) EP19773738.0
E04G 23/02	C07C 69/84	(22) 14.08.2019
C03C 25/285	A61P 1/00	(54) CONCEPT FOR THE PRODUCTION OF FOOD WITH REDUCED ENVIRONMENTAL IMPACT
(11) EP3601187	A61P 27/02	(73) Green-ON AB
(21) EP18715195.6	A61P 31/00	(72) LORÉN, Anders
(22) 20.03.2018	A61P 33/00	VESTERGREN, Marcus
(54) GRILLE DE FIBRES DE VERRE POUR LA RENOVATION DE FAÇADES	A61P 43/00	(74) dr. R.C. van Duijvenbode c.s.
(73) Saint-Gobain Adfors	A01N 63/50	(31) 1850984
(72) GARNIER, Louis	(11) EP2841409	(32) 16.08.2018
WABLE, Clémence	(21) EP13719143.3	(33) Sweden
WANIAUSOVA, Lucie	(22) 24.04.2013	(47) 05.10.2022
(74) ir. W.J.J.M. Kempes	(54) COMPOUNDS FOR USE AS INHIBITORS OF ALTERNATIVE OXIDASE OR CYTOCHROME BC1 COMPLEX	(51) C07D 333/38
(31) 1752261	(73) AlternOx Scientific Limited	A01N 43/10
(32) 20.03.2017	(72) ALBURY, Mary Susan	A01N 43/28
(33) France	YOUNG, Luke Edward	C07D 413/04
(47) 26.10.2022	ELLIOTT, Catherine	A01P 1/00
(51) C03C 25/32	MOORE, Anthony Lennox	C07D 333/40
C03C 25/14	(74) dr. A. Krebs	(11) EP3818049
D04H 1/64	(31) 201214938	(21) EP19736663.6
D04H 1/587	201207213	(22) 03.07.2019
D04H 1/60	(32) 22.08.2012	(54) SUBSTITUTED THIOPHENECARBOXAMIDES AND ANALOGUES AS ANTIBACTERIALS AGENTS
(11) EP3642169	25.04.2012	(73) Bayer Aktiengesellschaft
(21) EP18748955.4	(33) United Kingdom	(72) KNOBLOCH, Thomas
(22) 04.06.2018	United Kingdom	NICOLAS, Lionel
(54) METHOD FOR MANUFACTURING AN INSULATION PRODUCT MADE FROM MINERAL FIBRES	(47) 14.09.2022	TSUCHIYA, Tomoki
(73) SAINT-GOBAIN ISOVER	(51) C07C 51/245	BRUNET, Stéphane
(72) SALOMON, Pierre	C07C 53/126	DUFOUR, Jérémy
AZEVEDO, Joël	C07C 55/02	BERNIER, David
JAFFRENNOU, Boris	C07C 51/353	(74) ir. W.J.J.M. Kempes
(74) ir. W.J.J.M. Kempes	C07C 67/31	(31) 18181930
(31) 1755761	C07C 69/67	(32) 05.07.2018
(32) 23.06.2017	C07C 67/42	(33) European Patent Office (EPO)
(33) France	C07C 51/09	(47) 28.09.2022
	B01D 15/36	(51) C07D 401/14
	C07C 51/44	
	(11) EP3747859	
	(21) EP20186890.8	

- C07D 405/14
C07D 413/14
A61P 37/00
A61K 31/416
A61K 31/401
(11) EP3623367
(21) EP19206925.0
(22) 25.02.2015
(54) ARYL, HETEROARYL, AND
HETEROCYCLIC COMPOUNDS FOR
TREATMENT OF COMPLEMENT
MEDIATED DISORDERS
(73) Achillion Pharmaceuticals, Inc.
(72) WANG, Qiuping
HASHIMOTO, Akihiro
AGARWAL, Atul
WILES, Jason, Allan
PHADKE, Avinash, S.
GADHACHANDA, Venkat, Rao
DESHPANDE, Milind
CHEN, Dawei
WANG, Xiangzhu
PAIS, Godwin
(74) ir. W.J.J.M. Kempes
(31) 201462046783 P
201462022916 P
201461944189 P
(32) 05.09.2014
10.07.2014
25.02.2014
(33) United States of America
United States of America
United States of America
(47) 28.09.2022
-
- (51) C07D 401/14
C07D 405/14
C07D 413/14
C07B 59/00
C07D 401/06
C07D 403/06
C07D 403/14
C07D 407/14
C07D 409/14
C07D 417/14
C07D 487/04
C07D 487/08
A61K 35/00
A61K 31/454
A61K 31/506
(11) EP3356344
(21) EP16777769.7
(22) 29.09.2016
(54) ISOINDOLINONE INHIBITORS OF THE
MDM2-P53 INTERACTION HAVING
ANTICANCER ACTIVITY
(73) Cancer Research Technology Limited
Astex Therapeutics Ltd
(72) HARDCASTLE, Ian Robert
BUCK, Ildiko Maria
CONS, Benjamin David
REES, David Charles
HOLVEY, Rhian Sara
HOWARD, Steven
MILLER, Duncan Charles
ST. DENIS, Jeffrey David
GRIFFIN, Roger John
WATSON, David Wyn
PEACH, Joanne
- NOBLE, Martin Edward Mäntylä
JOHNSON, Christopher Norbert
OSBORNE, James Daniel
GOLDING, Bernard Thomas
LEWIS, Arwel
CHESSARI, Gianni
WHITTAKER, Benjamin Paul
TAMANINI, Emiliano
MITCHELL, Dale Robert
HIRST, Kim Louise
CANO, Celine Florence
(74) ir. W.J.J.M. Kempes
(31) 201517216
(32) 29.09.2015
(33) United Kingdom
(47) 16.11.2022
-
- (51) C07D 403/04
A61K 31/416
A61P 29/00
(11) EP3395812
(21) EP18164225.7
(22) 24.02.2012
(54) CRYSTALLINE FORMS AND
PROCESSES FOR THE PREPARATION
OF CONDENSED AZACYCLES
(CANNABINOID RECEPTOR
MODULATORS)
(73) Arena Pharmaceuticals, Inc.
(72) BLACKBURN, Anthony C.
HAN, Sangdon
JONES, Robert M.
MONTALBAN, Antonio Garrido
PAL, Biman B.
RUETER, Jaimie Karyn
(74) dr. R.C. van Duijvenbode c.s.
(31) 201161448542 P
201161446732 P
(32) 02.03.2011
25.02.2011
(33) United States of America
United States of America
(47) 28.09.2022
-
- (51) C07D 403/12
C07D 405/14
C07F 9/572
C07D 403/06
C07D 405/12
C07D 413/06
C07D 413/12
C07D 209/48
A61K 31/4035
A61P 35/00
(11) EP3356350
(21) EP16777770.5
(22) 29.09.2016
(54) ISOINDOLINONE INHIBITORS OF THE
MDM2-P53 INTERACTION HAVING
ANTICANCER ACTIVITY
(73) Cancer Research Technology Limited
Astex Therapeutics Limited
(72) CHESSARI, Gianni
HOWARD, Steven
GOLDING, Bernard Thomas
HARDCASTLE, Ian Robert
TAMANINI, Emiliano
PEACH, Joanne
MILLER, Duncan Charles
ST. DENIS, Jeffrey David
- HIRST, Kim Louise
BUCK, Ildiko Maria
GRIFFIN, Roger John
JOHNSON, Christopher Norbert
NOBLE, Martin Edward Mäntylä
REES, David Charles
LEWIS, Arwel
CULLY, Sarah
HOLVEY, Rhian Sara
CONS, Benjamin David
OSBORNE, James Daniel
WHITTAKER, Benjamin Paul
CANO, Celine Florence
WATSON, David Wyn
MITCHELL, Dale Robert
(74) ir. W.J.J.M. Kempes
(31) 201517217
(32) 29.09.2015
(33) United Kingdom
(47) 16.11.2022
-
- (51) C07D 471/04
(11) EP3464285
(21) EP17729694.4
(22) 01.06.2017
(54) PROCESS FOR PREPARING N-
(5-(3-(7-(3-FLUOROPHENYL)-3H-
IMIDAZO[4,5-C]PYRIDIN-2-YL)-1H-
INDAZOL-5-YL)PYRIDIN-3-YL)-3-
METHYLBUTANAMIDE
(73) BioSplice Therapeutics, Inc.
(72) KC, Sunil Kumar
(74) ir. W.J.J.M. Kempes
(31) 201662418657 P
201662344170 P
(32) 07.11.2016
01.06.2016
(33) United States of America
United States of America
(47) 21.09.2022
-
- (51) C07D 471/14
A61K 31/437
A61P 35/00
A61P 37/00
(11) EP3555096
(21) EP17826097.2
(22) 15.12.2017
(54) IMIDAZOPYRROLOPYRIDINE AS
INHIBITORS OF THE JAK FAMILY OF
KINASES
(73) Janssen Pharmaceutica NV
(72) KREUTTER, Kevin D.
BACANI, Genesis M.
SMITH, Russel C.
WANG, Aihua
LEONARD, Kristi
CHAI, Wenying
RIZZOLIO, Michele C.
VENABLE, Jennifer D.
KLOUDRIAKOVA, Tatiana
TICHENOR, Mark S.
WANG, Aihua
KRAWCZUK, Paul J.
SEIERSTAD, Mark
(74) dr. R.C. van Duijvenbode c.s.
(31) 201762596636 P
201762592747 P
201662435639 P
(32) 08.12.2017

30.11.2017	BEN OTHMAN, Raja	(54) FUCOSYLATED CHONDROITIN
16.12.2016	MARTINIC, Ivana	SULFATE OLIGOSACCHARIDE,
(33) United States of America	(74) dr. R.C. van Duijvenbode c.s.	PREPARATION METHOD THEREFOR,
United States of America	(31) 1750240	COMPOSITION THEREOF AND USE
United States of America	(32) 11.01.2017	THEREOF
(47) 23.11.2022	(33) France	(73) Yantai Dongcheng Biochemicals Co., Ltd
(51) C07D 471/18	(47) 02.11.2022	(72) WANG, Jianqiang
C07D 519/00	(51) C07F 9/6574	HE, Tian
(11) EP3500572	B01J 31/18	LIU, Huiying
(21) EP17771833.5	C07C 45/50	ZHANG, Xiao
(22) 17.08.2017	C07F 15/00	WU, Xiaoming
(54) CYTISINE DERIVATIVES FOR THE	(11) EP3957643	LI, Zhongjun
TREATMENT OF ADDICTION	(21) EP20191440.5	YANG, Qingbao
(73) The University of Bristol	(22) 18.08.2020	YAO, Wang
(72) GALLAGHER, Timothy Charles	(54) NEW DIPHOSPHITES BASED ON CIS-	(74) ir. W.J.J.M. Kempes
REGO CAMPELLO, Hugo	BUTENE-1,4-DIOL	(31) 201810778733
(74) dr. A. Krebs	(73) Evonik Operations GmbH	(32) 16.07.2018
(31) 201709642	(72) FRANKE, Robert	(33) China
201614235	SELENT, Detlef	(47) 19.10.2022
(32) 16.06.2017	BÖRNER, Armin	(51) C07K 14/195
19.08.2016	SALE, Anna Chiara	C12N 9/88
(33) United Kingdom	(74) ir. W.J.J.M. Kempes	(11) EP3894430
United Kingdom	(47) 05.10.2022	(21) EP19828646.0
(47) 26.10.2022	(51) C07H 1/06	(22) 14.12.2019
(51) C07D 487/04	C07H 3/06	(54) REPAIR OF UV-INDUCED DNA
A61K 31/5025	C12P 19/18	LESIONS
A61K 31/519	(11) EP3233875	(73) Asterion Therapeutics BVBA
(11) EP3572416	(21) EP15869380.4	(72) HOFENK, Jeroen
(21) EP19169041.1	(22) 16.12.2015	(31) 18212780
(22) 23.01.2015	(54) SEPARATION OF 2'-FL FROM A	(32) 14.12.2018
(54) DIARYL MACROCYCLES AS	FERMENTATION BROTH	(33) European Patent Office (EPO)
MODULATORS OF PROTEIN KINASES	(73) Glycom A/S	(47) 16.11.2022
(73) Turning Point Therapeutics, Inc.	(72) HEDEROS, Markus	(51) C07K 16/28
(72) CUI, Jingrong Jean	CHASSAGNE, Pierre	A61K 39/395
LI, Yishan	MATWIEJUK, Martin	(11) EP3665196
ROGERS, Evan W.	DEKANY, Gyula	(21) EP18755421.7
ZHAI, Dayong	OSZTROVSZKY, Györgyi	(22) 08.08.2018
(74) dr. R.C. van Duijvenbode c.s.	(74) ir. W.J.J.M. Kempes	(54) OBINUTUZUMAB TREATMENT OF A
(31) 201562106301 P	(31) 201470786	DLBCL PATIENT SUBGROUP
201462049326 P	(32) 16.12.2014	(73) NanoString Technologies, Inc.
201461931506 P	(33) Denmark	F. Hoffmann-La Roche AG
(32) 22.01.2015	(47) 05.10.2022	(72) OESTERGAARD, Mikkel Zahle
11.09.2014	(51) C07H 3/06	(74) drs. C.M.A. Quintelier
24.01.2014	A61K 47/36	(31) 201762542489 P
(33) United States of America	C07K 1/107	(32) 08.08.2017
United States of America	A61K 39/09	(33) United States of America
United States of America	(11) EP3363806	(47) 19.10.2022
(47) 21.09.2022	(21) EP18156289.3	(51) C07K 16/28
(51) C07F 5/00	(22) 13.12.2013	A61K 39/395
A61K 49/00	(54) GLYCOCONJUGATION PROCESS	(11) EP3702371
C07F 5/02	(73) Pfizer Inc.	(21) EP19175988.5
G01N 33/533	(72) KAINTHAN, Rajesh Kumar	(22) 24.03.2010
(11) EP3568402	KIM, Jin-Hwan	(54) ANTI-FGFR3 ANTIBODIES AND
(21) EP18700279.5	PRASAD, Avvari Krishna	METHODS USING SAME
(22) 10.01.2018	HAN, Mingming	(73) Genentech, Inc.
(54) LANTHANIDE COMPLEXES	(74) dr. R.C. van Duijvenbode c.s.	(72) WIESMANN, Christian
COMPRISING DERIVATIVES	(31) 201261740311 P	ASHKENAZI, Avi
OF TRIETHYLENETETRAMINE-	(32) 20.12.2012	QING, Jing
N,N,N',N'',N''',N''''-HEXAACETIC ACID	(33) United States of America	WU, Yin
(73) Universite D'Orleans	(47) 16.11.2022	(74) dr. R.C. van Duijvenbode c.s.
Centre National de la Recherche	(51) C07H 11/00	(31) 16322209 P
Scientifique	C07H 13/08	(32) 25.03.2009
(72) ELISEEVA, Svetlana	A61P 29/00	(33) United States of America
SUZENET, Franck	C08B 37/00	(47) 02.11.2022
ROUTIER, Sylvain	(11) EP3819302	(51) C07K 16/28
PETOUUD, Stéphane	(21) EP19838347.3	A61P 35/00
DELATOUICHE, Régis	(22) 15.07.2019	A61K 39/395
COLLET, Alexandra		(11) EP3697819

(21) EP18807145.0	ELFRINK, Petrus Johannes Maria David	NG, Sze-Sze
(22) 18.10.2018	RENSEN, Enrico Richardus August	RICH, David
(54) TREATMENT OF OVARIAN CANCER WITH ANTI-CD47 AND ANTI-PD-L1	BRINKHUIS, Richard Hendrikus Gerrit	KNOTT, Alex
(73) Forty Seven, Inc.	(74) ir. H.A. Witmans c.s.	NIU, Zhenbin
(72) TAKIMOTO, Chris Hidemi, Mizufune	(31) 17152633	(74) ir. W.J.J.M. Kempes
VOLKMER, Jens-Peter	16197582	(31) 201962942687 P
CHAO, Mark, Ping	(32) 23.01.2017	(32) 02.12.2019
(74) dr. R.C. van Duijvenbode c.s.	07.11.2016	(33) United States of America
(31) 201762574073 P	(33) European Patent Office (EPO)	(47) 16.11.2022
(32) 18.10.2017	European Patent Office (EPO)	(51) C08J 5/18
(33) United States of America	(47) 02.11.2022	B32B 27/08
(47) 16.11.2022	(51) C08G 59/62	B32B 27/30
(51) C08G 18/48	C08G 59/42	B32B 27/22
C08G 18/76	C08G 63/91	B32B 3/26
C08G 18/18	C09J 167/02	B32B 38/06
C08G 18/24	(11) EP3504258	B32B 17/10
(11) EP3133097	(21) EP17755353.4	B32B 3/02
(21) EP15181218.7	(22) 08.08.2017	B32B 9/04
(22) 17.08.2015	(54) POLYESTER-EPOXIDE POLYMER	B32B 27/18
(54) POLYURETHANE FLEXIBLE FOAMS WITH INCREASED HARDNESS	COMPOSITIONS	B32B 27/36
(73) Evonik Operations GmbH	(73) Stepan Company	B32B 27/42
(72) FUNK, Maïke	(72) KAPLAN, Warren, A.	B32B 3/30
HUBEL, Roland	WESTFALL, Jennifer, S.	(11) EP3322747
SASSENHAGEN, Jens	(74) ir. A. Blokland c.s.	(21) EP16825022.3
KREBS, Michael	(31) 201662379456 P	(22) 12.07.2016
(74) ir. W.J.J.M. Kempes	(32) 25.08.2016	(54) POLYMERIC INTERLAYERS HAVING ENHANCED SURFACE ROUGHNESS
(47) 05.10.2022	(33) United States of America	(73) Solutia Incorporated
(51) C08G 18/48	(47) 05.10.2022	(72) CREYTENS, Hans
C08G 18/76	(51) C08G 64/02	MATIS, Gary
C08G 18/20	(11) EP2992031	KARAGIANNIS, Aristotelis
C08G 18/24	(21) EP14792214.0	(74) mr. R. Zwamborn
C08G 18/28	(22) 31.03.2014	(31) 201514830902
C08G 77/46	(54) ALIPHATIC POLYCARBONATE	201562193393 P
C08G 77/50	COMPOSITIONS AND METHODS	(32) 20.08.2015
C08L 83/12	(73) Novomer, Inc.	16.07.2015
C08L 83/14	(72) ALLEN, Scott D.	(33) United States of America
(11) EP2998333	(74) mr. R. Zwamborn	United States of America
(21) EP15181328.4	(31) 201361817897 P	(47) 19.10.2022
(22) 18.08.2015	(32) 01.05.2013	(51) C08J 9/00
(54) PRODUCTION OF VISCOELASTIC POLYURETHANE SYSTEMS USING BLOCK POLYMERS HAVING LINKED SILOXANE BLOCKS AS CELL- OPENING AGENTS	(33) United States of America	C08J 9/12
(73) Evonik Operations GmbH	(47) 05.10.2022	C08L 77/00
(72) WOLF, Marco	(51) C08G 65/325	(11) EP3688079
KREBS, Michael	(11) EP3766916	(21) EP18786544.9
FERENZ, Michael	(21) EP20195502.8	(22) 25.09.2018
HUBEL, Roland	(22) 05.06.2015	(54) METHOD FOR PREPARING EXTRUDED POLYAMIDE FOAMS
GÜNTHER, Thomas	(54) NOVEL LIPIDS AND LIPID NANOPARTICLE FORMULATIONS FOR DELIVERY OF NUCLEIC ACIDS	(73) AdvanSix Resins & Chemicals LLC
(74) ir. W.J.J.M. Kempes	(73) Acuitas Therapeutics Inc.	(72) ZHA, Min
(31) 102014218635	(72) ANSELL, Steven, M.	WANG, Min
(32) 17.09.2014	DU, Xinyao	(74) dr. R.C. van Duijvenbode c.s.
(33) Germany	(74) dr. R.C. van Duijvenbode c.s.	(31) PCT/CN2017/103574
(47) 05.10.2022	(31) 201462016839 P	(32) 27.09.2017
(51) C08G 18/73	(32) 25.06.2014	(33) World Intellectual Property Office (WIPO)
C09D 5/04	(33) United States of America	(47) 23.11.2022
C08G 18/28	(47) 28.09.2022	(51) C08K 5/372
C08L 75/02	(51) C08G 77/12	C08K 5/548
(11) EP3535308	C08L 83/04	C08L 9/00
(21) EP17800765.4	C09D 183/04	C08L 9/06
(22) 07.11.2017	(11) EP3867301	(11) EP3837310
(54) A PROCESS FOR THE PREPARATION OF A THIXOTROPIC COMPOSITION	(21) EP20828914.0	(21) EP19752167.7
(73) Allnex Netherlands B.V.	(22) 02.12.2020	(22) 06.08.2019
(72) BOSMA, Martin	(54) COMPOSITION FOR PREPARING A RELEASE COATING	(54) RUBBER MIXTURES
	(73) Dow Silicones Corporation	(73) Evonik Operations GmbH
	(72) CHEVALIER, Pierre	(72) ROSENSTINGL, Sebastian
	LIU, Nanguo	MAYER, Stefanie
	SUNDERLAND, Travis	RÖBEN, Caren
		WEHMEIER, André

BAUER, Elisabeth	(33) European Patent Office (EPO)	(54) COATING COMPOSITION
HERMEKE, Julia	(47) 19.10.2022	COMPRISING PVC AND
ERHARDT, Sascha	(51) C08L 59/00	PLASTICIZERS
MOSER, Ralph	C08L 5/00	(73) BASF SE
(74) ir. W.J.J.M. Kempes	C08L 23/00	(72) GRIMM, Axel
(31) 102018213774	C08L 27/18	PFEIFFER, Matthias
(32) 16.08.2018	C08K 5/01	MORGENSTERN, Herbert
(33) Germany	C08L 59/02	(74) ir. W.J.J.M. Kempes
(47) 05.10.2022	(11) EP3438199	(31) 17158717
(51) C08L 33/12	(21) EP17775045.2	(32) 01.03.2017
(11) EP4010423	(22) 28.03.2017	(33) European Patent Office (EPO)
(21) EP20746683.0	(54) POLYACETAL RESIN COMPOSITION	(47) 05.10.2022
(22) 03.08.2020	AND MOLDED PRODUCT THEREOF	(51) C09D 127/06
(54) TRANSPARENT COMPOSITION	(73) Mitsubishi Gas Chemical Company, Inc.	D06M 15/248
(73) Evonik Operations GmbH	(72) HIROOKA, Masato	C08K 5/10
(72) BUSCH, Stefan	SUNAGA, Daisuke	C08K 5/12
HESSNER, Sebastian	(74) dr. R.C. van Duijvenbode c.s.	C08K 5/3492
AMAJJAHE, Sadik	(31) 2016212651	(11) EP3589707
LEHMANN, Kathrin	2016067157	(21) EP18706537.9
NAWRACALA, Angela	(32) 31.10.2016	(22) 28.02.2018
(74) ir. W.J.J.M. Kempes	30.03.2016	(54) COATING COMPOSITION
(31) 19190668	(33) Japan	COMPRISING PVC AND
(32) 08.08.2019	Japan	PLASTICIZERS
(33) European Patent Office (EPO)	(47) 16.11.2022	(73) BASF SE
(47) 05.10.2022	(51) C08L 83/10	(72) PFEIFFER, Matthias
(51) C08L 51/04	C08G 77/445	MORGENSTERN, Herbert
C08L 83/10	(11) EP4010429	GRIMM, Axel
C08L 55/02	(21) EP20746684.8	(74) ir. W.J.J.M. Kempes
C08L 25/12	(22) 03.08.2020	(31) 17158676
C08L 25/16	(54) BRANCHED POLYESTER SILOXANES	(32) 01.03.2017
(11) EP3658624	(73) Evonik Operations GmbH	(33) European Patent Office (EPO)
(21) EP18745603.3	(72) HENNING, Frauke	(47) 05.10.2022
(22) 25.07.2018	BUSCH, Stefan	(51) C10M 101/02
(54) IMPACT MODIFIED STYRENE	LEHMANN, Kathrin	C10M 171/00
COPOLYMER COMPOSITION	NAWRACALA, Angela	C10G 67/14
COMPRISING POLYSILOXANE	(74) ir. W.J.J.M. Kempes	C10M 109/00
ADDITIVE HAVING IMPROVED	(31) 19190670	C10G 65/12
ABRASION CHARACTERISTICS	(32) 08.08.2019	C10G 45/58
(73) INEOS Styrolution Group GmbH	(33) European Patent Office (EPO)	(11) EP2563886
(72) SCHULZ, Tobias	(47) 05.10.2022	(21) EP10850817.7
NIESSNER, Norbert	(51) C08L 89/06	(22) 08.11.2010
CHUNG, Andrew	C08J 3/24	(54) METHOD OF MANUFACTURING HIGH
JOHNSON, Richard	C08H 1/02	QUALITY LUBE BASE OIL USING
(74) dr. R.C. van Duijvenbode c.s.	C08H 1/06	UNCONVERTED OIL
(31) 17183294	C12N 5/0793	(73) SK Innovation Co., Ltd.
(32) 26.07.2017	C12N 5/071	(72) NOH, Kyung Seok
(33) European Patent Office (EPO)	(11) EP3921372	OH, Seung Hoon
(47) 26.10.2022	(21) EP20704362.1	RYU, Jae Wook
(51) C08L 53/02	(22) 04.02.2020	KIM, Gyung Rok
C08F 297/04	(54) PROTEIN HYDROGEL, PREPARATION	JANG, Tae Young
C08K 5/01	METHOD AND USE THEREOF	CHOI, Sun
A61J 1/10	(73) Real Research Sp. z o.o.	BAE, Sun Hyuk
A61M 39/00	(72) KRZYKAWSKI, Marcin Przemyslaw	KIM, Yong Woon
(11) EP3596167	KRZYKAWSKA, Renata	(74) dr. R.C. van Duijvenbode c.s.
(21) EP18708711.9	(74) ir. W.J.J.M. Kempes	(31) 20100040888
(22) 12.03.2018	(31) 19460008	(32) 30.04.2010
(54) NON-STICKY, SOFT AND	(32) 04.02.2019	(33) Korea (Republic)
TRANSPARENT STYRENIC	(33) European Patent Office (EPO)	(47) 21.09.2022
THERMOPLASTIC ELASTOMERS	(47) 21.09.2022	(51) C10M 159/22
(73) INEOS Styrolution Group GmbH	(51) C09D 127/06	(11) EP3645683
(72) VERSWYVEL, Michiel	D06M 15/248	(21) EP18749522.1
NIESSNER, Norbert	C08K 5/00	(22) 28.06.2018
JAHNKE, Eike	C08K 5/10	(54) MARINE DIESEL LUBRICANT OIL
WAGNER, Daniel	C08K 5/12	COMPOSITIONS
KNOLL, Konrad	C08K 5/3492	(73) Chevron Oronite Technology B.V.
(74) dr. R.C. van Duijvenbode c.s.	(11) EP3589708	Chevron Oronite Company LLC
(31) 17161331	(21) EP18706539.6	(72) VAN HOUTEN, Wilhelmus Petrus
(32) 16.03.2017	(22) 28.02.2018	Antonie

- JUKES, Ronald Theodorus Fake
GILL, Mia
BROOKHART, Todd
(74) dr. R.C. van Duijvenbode c.s.
(31) 201762527265 P
(32) 30.06.2017
(33) United States of America
(47) 30.11.2022
-
- (51) C12M 1/08
C12M 1/00
B01F 23/232
(11) EP3350309
(21) EP16794028.7
(22) 15.09.2016
(54) REACTION DEVICE WITH AIR-LIFT
TYPE INTERNAL CIRCULATION AND
FERMENTATION PROCESS USING
SAID DEVICE
(73) Eni S.p.A.
(72) D'ARMINIO MONFORTE, Alessandra
OLDANI, Fabio
(74) ir. J.C. Volmer c.s.
(31) UB20153722
(32) 18.09.2015
(33) Italy
(47) 02.11.2022
-
- (51) C12N 5/071
G01N 33/50
(11) EP3688141
(21) EP18780025.5
(22) 25.09.2018
(54) EX-VIVO MODEL OF INFLAMED
HUMAN SKIN AND USES
THEREOF FOR SCREENING ANTI-
INFLAMMATORY COMPOUNDS
(73) Genoskin
(72) NORSGAARD, Hanne
LOVATO, Paola
DESCARGUES, Pascal
JARDET, Claire
(74) J.M.H. Duyver lic.
(31) 1771020
(32) 26.09.2017
(33) France
(47) 09.11.2022
-
- (51) C12P 7/625
C02F 1/44
C02F 3/28
C02F 3/34
C08L 67/04
C08L 97/02
C08L 99/00
C08L 101/16
C02F 9/00
(11) EP3201346
(21) EP15770499.0
(22) 22.09.2015
(54) METHODS FOR PRODUCING
BIOPOLYMER MATRIX COMPOSITES
(73) Eggplant S.r.l.
(72) GOFFREDO, Antonio
CAROFIGLIO, Vito Emanuele
STUFANO, Paolo
CENTRONE, Domenico
SERVILI, Maurizio
(74) ir. F.A. Geurts c.s.
(31) TO20140786
(32) 01.10.2014
- (33) Italy
(47) 23.11.2022
-
- (51) C12Q 1/68
(11) EP3512960
(21) EP17768768.8
(22) 15.09.2017
(54) METHODS FOR PERFORMING
MULTIPLEXED REAL-TIME PCR
(73) F. Hoffmann-La Roche AG
(72) KOZLOV, Igor
GUPTA, Amar
SAIKI, Randall
TSAN, Alison
(74) drs. C.M.A. Quintelier
(31) 201762536871 P
201662435595 P
201662395325 P
(32) 25.07.2017
16.12.2016
15.09.2016
(33) United States of America
United States of America
United States of America
(47) 19.10.2022
-
- (51) C12Q 1/6825
C12Q 1/6869
G16B 30/00
(11) EP3587591
(21) EP19183395.3
(22) 28.06.2019
(54) SENSOR AND SENSING SYSTEM
(73) Illumina, Inc.
(72) Moon, John
(74) ir. W.J.J.M. Kempes
(31) 2021376
201862692468 P
(32) 23.07.2018
29.06.2018
(33) Netherlands
United States of America
(47) 05.10.2022
-
- (51) C21D 1/10
C21D 1/42
C21D 9/08
(11) EP2633091
(21) EP11804642.4
(22) 07.12.2011
(54) DEVICE FOR THE LOCALIZED
HEATING OF PARTS OF COATED
METAL PIPES AND OF PARTS OF
THEIR PROTECTIVE COATING
(73) Tesi SpA
(72) ZUBIANI, Ausonio
MIOTTO, Stefano
(74) ir. F.A. Geurts c.s.
(31) MI20102309
(32) 16.12.2010
(33) Italy
(47) 12.10.2022
-
- (51) C21D 9/573
B05B 1/04
B05B 1/06
B21B 45/02
C21D 1/60
C21D 1/667
(11) EP3555324
(21) EP17829617.4
(22) 08.12.2017
- (54) METHOD AND SECTION FOR QUICK
COOLING OF A CONTINUOUS LINE
FOR TREATING METAL BELTS
(73) Fives Stein
(72) CODE, Florent
RAUDENSKI, Miroslav
HORSKI, Jaroslav
MAGADOUX, Eric
(74) ir. W.J.J.M. Kempes
(31) 1662421
(32) 14.12.2016
(33) France
(47) 05.10.2022
-
- (51) C23C 16/455
C23C 16/54
(11) EP3596252
(21) EP18712309.6
(22) 28.02.2018
(54) DEPOSITION SYSTEM WITH
MOVEABLE-POSITION WEB GUIDES
(73) Eastman Kodak Company
(72) SPATH, Todd Mathew
ELLINGER, Carolyn Rae
(31) 201715458270
(32) 14.03.2017
(33) United States of America
(47) 19.10.2022
-
- (51) D04B 1/18
(11) EP3953512
(21) EP19720441.5
(22) 12.04.2019
(54) FABRIC AND METHOD TO PRODUCE
A DOUBLE-LAYER KNITTED FABRIC
(73) Essity Hygiene and Health Aktiebolag
(72) GEBEL, Etienne
PLATZ, Sascha
VOSS, Verena
(74) dr. R.C. van Duijvenbode c.s.
(47) 23.11.2022
-
- (51) D05C 15/18
D05C 15/20
D05C 15/30
(11) EP3724391
(21) EP18819028.4
(22) 05.12.2018
(54) AN INDIVIDUAL NEEDLE CONTROL
TUFTING MACHINE
(73) Vandewiele NV
(72) LAMPAERT, Vincent
CALLEWAERT, Koen
MARIJSSE, Frank
SHANLEY, Frank
LUYCKX, Liesbeth
(74) dr. R.C. van Duijvenbode c.s.
(31) 201720794
(32) 13.12.2017
(33) United Kingdom
(47) 23.11.2022
-
- (51) D21F 9/00
(11) EP3770320
(21) EP18910463.1
(22) 19.03.2018
(54) PAPER ROLL PRODUCTION
APPARATUS
(73) Corelex Shin-Ei Co., Ltd.
(72) KUROSAKI, Satoshi
(74) ir. F.A. Geurts c.s.

(47) 05.10.2022	(11) EP3464736	(21) EP17724730.1
(51) D21H 17/11	(21) EP17721223.0	(22) 03.04.2017
D21H 17/28	(22) 25.04.2017	(54) FLEXURALLY RIGID CORNER
D21H 19/54	(54) WEARING-PART SYSTEM	CONSTRUCTION FOR THE SUPPORT
D21H 17/15	(73) Combi Wear Parts AB	STRUCTURE OF A KEDER ROOF
D21H 21/16	(72) GABELA, Adnan	HALL
(11) EP3519625	WIJMA, Klaas Geert	(73) Wilhelm Layher Verwaltungs-GmbH
(21) EP17790861.3	WEMPE, Cornelis	(72) KRELLER, Helmut
(22) 29.09.2017	BAGHRAMIAN, Paull	(74) dr. R.C. van Duijvenbode c.s.
(54) GREASEPROOF PAPER	QUARFORDT, Per	(31) 102016004074
(73) Coöperatie Koninklijke Avebe U.A.	(74) ir. W.J.J.M. Kempes	(32) 08.04.2016
(72) DELNOYE, Didier Andre Pierre	(31) 1630114	(33) Germany
BEUGELING, John	(32) 23.05.2016	(47) 14.09.2022
(74) ir. H.A. Witmans c.s.	(33) Sweden	(51) E04B 9/30
(31) 16191852	(47) 23.11.2022	E04B 9/02
(32) 30.09.2016	(51) E03F 1/00	E04B 9/04
(33) European Patent Office (EPO)	(11) EP3495574	(11) EP3504382
(47) 05.10.2022	(21) EP18212867.8	(21) EP17768172.3
(51) E01B 2/00	(22) 18.09.2015	(22) 17.08.2017
E01D 19/12	(54) PLASTIC INFILTRATION UNIT AND	(54) FIXING PROFILE ALLOWING THE
(11) EP3851579	METHOD OF ITS MANUFACTURING	AIR PASSAGE AND ASSEMBLY OF
(21) EP21151925.1	(73) Wavin B.V.	CEILING COMPRISING SUCH A
(22) 15.01.2021	(72) VAN DER SCHEER, Marco	PROFILE
(54) SUPPORTING STRUCTURE FOR THE	VAN DIJK, Berend Jan	(73) Scherrer, Jean-Marc
PROVISIONAL SUPPORT OF RAILWAY	dr. ir. F.M. van Bouwelen	Lang, Damien
TRACKS	(31) 1040956	(72) Lang, Damien
(73) Essen Italia Srl	(32) 19.09.2014	Scherrer, Jean-Marc
(72) IMPELLIZZIERI, Leopoldo	(33) Netherlands	(74) ir. W.J.J.M. Kempes
DI MARCO, Vincenzo	(47) 26.10.2022	(31) 1663456
(74) dr. G. Visser-Luirink	(51) E03F 5/04	1657910
(31) 202000000772	(11) EP3755850	(32) 28.12.2016
(32) 16.01.2020	(21) EP19712862.2	24.08.2016
(33) Italy	(22) 19.02.2019	(33) France
(47) 02.11.2022	(54) STORMWATER FILTER SOCKS WITH	France
(51) E02D 3/046	MULTIPLE SEPARATED TUBES	(47) 19.10.2022
B06B 1/18	(73) New Pig Corporation	(51) E04F 10/10
E01C 19/38	(72) RILEY, Matthew James	E04F 10/00
E02D 3/068	VERTI, Michael James	(11) EP3444412
E02D 3/074	JACKSON, Dane R.	(21) EP17001392.4
(11) EP3954831	(74) J.M.H. Duyver lic.	(22) 14.08.2017
(21) EP21187198.3	(31) 201862632103 P	(54) TERRACE ROOF WITH FIXED ROOF
(22) 22.07.2021	(32) 19.02.2018	ELEMENTS AND MOVABLE SLATS
(54) SOIL COMPACTION MACHINE	(33) United States of America	(73) weinor GmbH & Co. KG
(73) Weber Maschinenteknik GmbH	(47) 09.11.2022	(72) Stawski, Karl-Heinz
(72) Stolz, Burkhard	(51) E04B 2/58	(74) J.M.H. Duyver lic.
(74) J.M.H. Duyver lic.	E04B 2/60	(47) 23.11.2022
(31) 102020121140	E04C 2/08	(51) E04F 13/00
(32) 11.08.2020	E04C 3/08	E04F 13/08
(33) Germany	E04G 11/50	E04B 9/30
(47) 28.09.2022	(11) EP2812505	(11) EP2900884
(51) E02D 5/32	(21) EP13702083.0	(21) EP13779304.8
(11) EP3485096	(22) 07.01.2013	(22) 25.09.2013
(21) EP17757870.5	(54) MODULAR CONSTRUCTION SYSTEM	(54) MIRROR WALL TILE AND METHOD
(22) 28.06.2017	(73) Modular Walling Systems Holdings Ltd	FOR MANUFACTURING SUCH A TILE
(54) A TIP WITH PROTRUSIONS FOR	(72) GALLOCHER, Stewart	(73) Normalu
A GROUND DISPLACEMENT	(74) ir. J.D. de Zeeuw	(72) SCHERRER, Jean-Marc
OPERATION FOR A FOUNDATION PILE	(31) 201215858	(74) ir. W.J.J.M. Kempes
(73) Proferro NV	201202273	(31) 1259232
(72) DESCAMPS, Rik	(32) 05.09.2012	(32) 28.09.2012
CORNILLIE, Christian	09.02.2012	(33) France
COUCKUYT, Nicolas	(33) United Kingdom	(47) 23.11.2022
(74) dr. E.M.F. Eulaers	United Kingdom	(51) E04F 13/08
(31) 201605588	(47) 12.10.2022	E04F 13/14
(32) 14.07.2016	(51) E04B 7/02	(11) EP3771782
(33) Belgium	E04C 3/11	(21) EP20020346.1
(47) 10.08.2022	E04C 3/40	(22) 30.07.2020
(51) E02F 9/28	E04H 15/18	(54) A COVERING ELEMENT SUPPORT
	(11) EP3440277	ARRANGEMENT

(73) Masonry Support Systems Limited	(47) 28.09.2022	(74) ir. W.J.J.M. Kempes
(72) Sean, Coyle	(51) E04H 13/00	(31) 102014017346
(74) ir. M.B. Plaggenborg	(11) EP3845725	102014015323
(31) 201913072	(21) EP19763031.2	(32) 25.11.2014
201910870	(22) 01.08.2019	17.10.2014
(32) 10.09.2019	(54) MODULAR COLUMBARIUM FOR	(33) Germany
30.07.2019	STORING FUNERARY URNS	Germany
(33) United Kingdom	(73) CORAL SMART INVEX, S.L	(47) 14.09.2022
United Kingdom	(72) LAO HERNÁNDEZ, Manuel	(51) F01N 3/021
(47) 21.09.2022	(74) ir. W.J.J.M. Kempes	F01N 3/00
(51) E04F 13/08	(31) 201831319 U	F01N 3/28
E04F 15/02	(32) 29.08.2018	F01N 13/16
A63J 17/00	(33) Spain	(11) EP3864259
F21V 23/04	(47) 28.09.2022	(21) EP18785921.0
F21V 33/00	(51) E05D 3/02	(22) 09.10.2018
F21Y 115/10	E05D 7/04	(54) AN EXHAUST AFTERTREATMENT
G09F 9/302	E05D 5/04	ARRANGEMENT FOR AN EXHAUST
(11) EP3722533	E05D 5/02	SYSTEM OF AN INTERNAL
(21) EP20172248.5	(11) EP3118404	COMBUSTION ENGINE
(22) 21.04.2004	(21) EP16172661.7	(73) VOLVO TRUCK CORPORATION
(54) TILE LIGHTING METHODS AND	(22) 02.06.2016	(72) WAHLSTRÖM, Gert-Ove
SYSTEMS	(54) HINGE, IN PARTICULAR FOR PLASTIC	(74) ir. W.J.J.M. Kempes
(73) Signify North America Corporation	DOORS AND PLASTIC WINDOWS	(47) 23.11.2022
(72) MUELLER, George, G	(73) Simonswerk, Gesellschaft mit	(51) F02B 23/06
LYS, Ihor, A.	beschränkter Haftung	F02D 13/02
MORGAN, Frederick, M.	(72) Bartels, Thomas	F02F 3/28
PIEPGRAS, Colin	(74) mr. ir. J. van Breda c.s.	(11) EP3467281
ROBERGE, Brian	(31) 102015111308	(21) EP18194208.7
KIM, Hern	(32) 13.07.2015	(22) 13.09.2018
DOWLING, Kevin, J.	(33) Germany	(54) COMBUSION ENGINE WITH VALVE
LOGAN, Derek	(47) 21.09.2022	POCKETS
CELLA, Charles, H.	(51) E21B 47/12	(73) MAN Truck & Bus SE
(31) 558400 P	E21B 17/00	(72) Renner, Dominik
523903 P	E21B 41/00	Malischewski, Thomas
500754 P	E21B 43/08	(74) ir. A. Blokland c.s.
467913 P	G01V 3/18	(31) 102017123136
464185 P	(11) EP3368744	(32) 05.10.2017
(32) 31.03.2004	(21) EP16860478.3	(33) Germany
20.11.2003	(22) 30.09.2016	(47) 02.11.2022
05.09.2003	(54) DOWNHOLE SYSTEM HAVING	(51) F03D 80/40
05.05.2003	TUBULAR WITH SIGNAL CONDUCTOR	F03D 7/02
21.04.2003	AND METHOD	F03D 17/00
(33) United States of America	(73) Baker Hughes Holdings LLC	(11) EP3721083
United States of America	(72) BOTTIGLIERI, Antonio	(21) EP18811487.0
United States of America	DIGHE, Shailesh Shashank	(22) 27.11.2018
United States of America	RAMSEY, Timothy T.	(54) METHOD FOR OPERATING A WIND
United States of America	LI, Li	TURBINE
(47) 26.10.2022	HOLLEY, Andrew Christopher	(73) Wobben Properties GmbH
(51) E04H 12/12	(74) ir. W.J.J.M. Kempes	(72) SCHAPER, Ulf
E04H 12/16	(31) 201514924611	(74) dr. R.C. van Duijvenbode c.s.
E02D 27/42	(32) 27.10.2015	(31) 102017129112
(11) EP3662122	(33) United States of America	(32) 07.12.2017
(21) EP18750402.2	(47) 23.11.2022	(33) Germany
(22) 01.08.2018	(51) F01K 3/00	(47) 26.10.2022
(54) FOUNDATION FOR A BUILDING	F01K 23/10	(51) F16B 11/00
(73) Max Bögl Wind AG	(11) EP3207225	(11) EP3762620
(72) BETZ, Thorsten	(21) EP15790029.1	(21) EP19712627.9
REITENSPIESS, Michael	(22) 16.10.2015	(22) 28.02.2019
(74) dr. A. Krebs	(54) METHOD FOR COMPENSATING	(54) CONNECTING A COMPONENT TO
(31) 102018107421	LOAD PEAKS DURING ENERGY	GLASS
102017120526	GENERATION AND/OR FOR	(73) Exypnos BVBA
102017117440	GENERATING ELECTRICAL ENERGY	(72) VAN DYCK, Johan Ria Hugo
(32) 28.03.2018	AND/OR FOR GENERATING	LANGIE, Stijn Jozef Elvire
06.09.2017	HYDROGEN	(74) dr. ir. G.J.C. Verdijck c.s.
01.08.2017	(73) Carbon-Clean Technologies GmbH	(31) 201805142
(33) Germany	(72) ZOELLNER, Lars	(32) 08.03.2018
Germany	KNOP, Klaus	(33) Belgium
Germany	PFAB, Robert Joseph	

(47) 28.09.2022	(72) TRAVAGLINI, Luca	(73) LINEAR SHAPED LIMITED
(51) F16F 1/10	(74) dr. R.C. van Duijvenbode c.s.	(72) LUMLEY, Andrew
F16F 15/121	(31) 201700118942	(74) ir. W.J.J.M. Kempes
(11) EP2998608	(32) 20.10.2017	(31) 201705261
(21) EP15002402.4	(33) Italy	(32) 31.03.2017
(22) 13.08.2015	(47) 14.09.2022	(33) United Kingdom
(54) COIL SPRING FOR TORQUE	(51) F25B 25/00	(47) 21.09.2022
TRANSMISSION IN A DRIVETRAIN	(11) EP3748257	(51) F42B 10/60
OF A MOTOR VEHICLE AND FOR	(21) EP20171754.3	F42B 10/64
VIBRATION DECOUPLING AND/OR	(22) 28.04.2020	(11) EP3671102
DAMPING TORSIONAL VIBRATIONS	(54) DEVICE FOR THE SAFE	(21) EP19185043.7
(73) MAN Truck & Bus SE	PERFORMANCE OF A LEFT-	(22) 08.07.2019
(72) PHAM, Haison	ROTATING THERMODYNAMIC	(54) GUIDING KIT FOR PROJECTILE
TÜRK, Jens	CIRCULAR PROCESS BY MEANS OF	(73) Elbit Systems - Rokar Ltd
(74) ir. A. Blokland c.s.	A FLAMMABLE WORKING FLUID WITH	(72) WURZEL, Gil
(31) 102014013940	THE USE OF FLUIDADSOPTION	KOLTUN, Michael
(32) 19.09.2014	(73) Vaillant GmbH	ELKAIM, David
(33) Germany	(72) Krampe-Zadler, Christof	(74) J.M.H. Duyver lic.
(47) 09.11.2022	Spahn, Hans-Josef	(31) 26388018
(51) F16G 15/04	Szuder, Thomas-Friedrich	(32) 20.12.2018
B62H 5/00	Lingk, Tobias	(33) Israel
E05B 73/00	(74) J.M.H. Duyver lic.	(47) 02.11.2022
E05B 67/00	(31) 102019114744	(51) G01B 11/00
E05B 71/00	(32) 03.06.2019	H01L 21/027
(11) EP3803155	(33) Germany	G03F 7/20
(21) EP19725916.1	(47) 19.10.2022	B08B 7/00
(22) 28.05.2019	(51) F25B 25/00	G03F 1/84
(54) CONFIGURABLE SAFETY DEVICE	F24F 5/00	(11) EP2959263
AND PROCEDURE FOR ITS	F24F 3/06	(21) EP14754678.2
CONFIGURATION	F24F 11/49	(22) 24.02.2014
(73) Legutec Iniciativas Tecnicas, S.L.	F24F 11/42	(54) METHODS AND APPARATUS FOR
(72) DELHOM MUÑOZ, Salvador Gabriel	F24F 140/12	CLEANING OBJECTS IN A CHAMBER
(74) dr. ir. G.J.C. Verdijck c.s.	F24F 11/84	OF AN OPTICAL INSTRUMENT BY
(31) 201830515	(11) EP3722706	GENERATING REACTIVE IONS USING
(32) 30.05.2018	(21) EP20168795.1	PHOTON RADIATION
(33) Spain	(22) 08.04.2020	(73) Sandia Corporation
(47) 14.09.2022	(54) THERMAL CYCLE SYSTEM AND	Kla-Tencor Corporation
(51) F16H 25/20	CONTROL METHOD FOR A THERMAL	(72) DELGADO, Gildardo, R.
H02K 7/06	CYCLE SYSTEM	HOLLENSHEAD, Jeromy, T.
(11) EP3612752	(73) Carrier Corporation	STARODUB, Elena
(21) EP17818036.0	(72) NI, Jian	KLEBANOFF, Leonard, E.
(22) 12.10.2017	ZHAI, Hui	UMSTADTER, Karl, R.
(54) DRIVE DEVICE FOR A MOVABLE	WANG, Xiaohong	ZHUANG, Guorong, V.
TAPPET	CHANG, Liang	(74) ir. W.J.J.M. Kempes
(73) Otto-von-Guericke-Universität	LU, Qing	(31) 201361768904 P
Magdeburg, Patentwesen	SHEN, Guangyu	(32) 25.02.2013
(72) TYSHAKIN, Oleksandr	(74) J.M.H. Duyver lic.	(33) United States of America
DRAGANOV, Denis	(31) 201910276091	(47) 07.12.2022
(74) ir. H.A. Witmans c.s.	(32) 08.04.2019	(51) G01F 1/00
(31) 202017102338 U	(33) China	G01F 1/325
(32) 20.04.2017	(47) 23.11.2022	G01F 15/00
(33) Germany	(51) F41B 11/723	(11) EP3788323
(47) 30.11.2022	(11) EP3875884	(21) EP19718124.1
(51) F24F 13/28	(21) EP20161570.5	(22) 11.04.2019
F24F 7/08	(22) 06.03.2020	(54) MEASURING SYSTEM AND METHOD
F24F 7/10	(54) A GAS POWERED GUN	FOR MEASURING A MEASUREMENT
F24F 11/00	(73) FX Airguns AB	VARIABLE OF A FLOWING FLUID
F24F 13/08	(72) Axelsson, Fredrik	(73) Endress + Hauser Flowtec AG
A01G 9/24	(74) ir. R. Wijnstra	(72) KIRST, Michael
A01G 31/06	(47) 23.11.2022	(74) ir. W.J.J.M. Kempes
(11) EP3698089	(51) F42B 1/024	(31) 102018110456
(21) EP18803772.5	F42B 1/036	(32) 02.05.2018
(22) 19.10.2018	F42B 33/02	(33) Germany
(54) METHOD AND SYSTEM FOR THE	(11) EP3601934	(47) 26.10.2022
AIR CONDITIONING OF CLOSED	(21) EP18721441.6	(51) G01F 1/66
ENVIRONMENTS, IN PARTICULAR	(22) 29.03.2018	G01F 1/667
FOR VERTICAL FARMS	(54) LINEAR SHAPED CHARGE AND	G06F 17/40
(73) Travaglioni S.p.A.	STRUCTURE	(11) EP2786100

(21) EP12853865.9	SAUGET, Vincent	(72) THOMPSON, Kenneth O.
(22) 30.11.2012	FAIOLA, Aurélien	WARNER, Kevin
(54) ULTRASONIC FLOW METER WITH	(74) ir. W.J.J.M. Kempes	QUERREY, Timothy L.
DIGITALLY UNDER-SAMPLED FLOW	(31) 1600716	(74) ir. A. Blokland c.s.
MEASUREMENTS	(32) 29.04.2016	(31) 202016928133
(73) Kamstrup A/S	(33) France	(32) 14.07.2020
(72) Sørensen, Jens, Lykke	(47) 21.09.2022	(33) United States of America
Bendixen, Paul, Martin	(51) G01M 3/28	(47) 19.10.2022
(74) J.M.H. Duyver lic.	F15B 19/00	(51) G01N 21/15
(31) 11191677	F17D 5/00	G01N 21/27
(32) 02.12.2011	F17D 5/06	G01N 21/85
(33) European Patent Office (EPO)	(11) EP3891485	(11) EP3158319
(47) 05.10.2022	(21) EP19832190.3	(21) EP15730479.1
(51) G01H 9/00	(22) 26.11.2019	(22) 17.06.2015
G01S 13/89	(54) GAS NETWORK AND METHOD FOR	(54) PROBE FOR GAS SENSOR HAVING
G01H 17/00	THE SIMULTANEOUS DETECTION	PURGE GAS PROTECTION
(11) EP3486621	OF LEAKS AND OBSTRUCTIONS IN A	(73) Danfoss IXA A/S
(21) EP18214747.0	GAS NETWORK UNDER PRESSURE	(72) SKOUBOE, Allan
(22) 30.07.2015	OR VACUUM	HOJER, Jesper
(54) INTERFEROMETRIC VIBRATION	(73) ATLAS COPCO AIRPOWER, naamloze	MOBERG, Carsten
OBSERVATION DEVICE, VIBRATION	vennootschap	(74) dr. R.C. van Duijvenbode c.s.
OBSERVATION PROGRAM,	(72) GEUENS, Philippe	(31) 201400324
RECORDING MEDIUM, VIBRATION	LOUARROUDI, Ebrahim	(32) 19.06.2014
OBSERVATION METHOD AND	(74) dr. R.C. van Duijvenbode c.s.	(33) Denmark
VIBRATION OBSERVATION SYSTEM	(31) 201805862	(47) 05.10.2022
(73) Alouette Technology Inc.	(32) 07.12.2018	(51) G01N 21/15
(72) NOHMI, Hitoshi	(33) Belgium	G01N 21/85
(74) dr. R.C. van Duijvenbode c.s.	(47) 05.10.2022	(11) EP3158318
(31) 2014166603	(51) G01M 11/02	(21) EP15728896.0
PCT/JP2014/005066	G02C 7/06	(22) 17.06.2015
(32) 19.08.2014	(11) EP3924710	(54) PROBE FOR GAS SENSOR WITH GAS
03.10.2014	(21) EP20719649.4	SPLIT SAMPLE GAS FLOW
(33) Japan	(22) 22.04.2020	(73) Danfoss IXA A/S
World Intellectual Property Office (WIPO)	(54) METHOD AND DEVICE FOR	(72) MOBERG, Carsten
(47) 09.11.2022	MEASURING THE LOCAL	HØYER, Jesper
(51) G01J 3/02	REFRACTIVE POWER AND/OR	SKOUBOE, Allan
G01J 3/12	REFRACTIVE POWER DISTRIBUTION	(74) dr. R.C. van Duijvenbode c.s.
G01J 3/42	OF A SPECTACLE LENS	(31) 201400323
G01J 3/44	(73) Carl Zeiss Vision International GmbH	(32) 19.06.2014
G01N 21/65	(72) GLASENAPP, Carsten	(33) Denmark
G02B 6/12	(74) ir. W.J.J.M. Kempes	(47) 19.10.2022
(11) EP3870944	(31) 19170714	(51) G01N 21/552
(21) EP19806048.5	(32) 23.04.2019	G01N 21/05
(22) 22.10.2019	(33) European Patent Office (EPO)	G01N 33/49
(54) DEVICE AND METHOD FOR THE	(47) 05.10.2022	G01N 21/03
SPECTROSCOPIC ANALYSIS OF	(51) G01N 1/10	(11) EP3638109
BRILLOUIN SCATTERED LIGHT	F17C 7/00	(21) EP18817299.3
(73) Fondazione Istituto Italiano di Tecnologia	(11) EP3368878	(22) 07.06.2018
SPECTO S.R.L.	(21) EP16791773.1	(54) METHOD FOR DETERMINING THE
(72) ANTONACCI, Giuseppe	(22) 27.10.2016	CONCENTRATION OF AN ANALYTE IN
(74) dr. A. Ellens c.s.	(54) FLUID SAMPLING	WHOLE BLOOD
(31) 201800009753	(73) SGS North America Inc.	(73) Siemens Healthcare Diagnostics, Inc.
(32) 24.10.2018	(72) HALL, Jim	(72) DUBEY, Satish Kumar
(33) Italy	LATAIRE, Sven	LAL, Ashish Kumar
(47) 19.10.2022	(74) ir. W.J.J.M. Kempes	PRABHU, Vishal Manjanath
(51) G01J 3/02	(31) 201514923997	LEDDEN, David
G01J 3/28	(32) 27.10.2015	(74) dr. R.C. van Duijvenbode c.s.
G02B 3/00	(33) United States of America	(31) 201762520087 P
G02B 19/00	(47) 05.10.2022	(32) 15.06.2017
G02B 5/20	(51) G01N 1/10	(33) United States of America
(11) EP3449228	G01N 1/14	(47) 26.10.2022
(21) EP17731606.4	G01N 1/20	(51) G01N 21/76
(22) 27.04.2017	(11) EP3951348	G01N 33/50
(54) MULTI-SPECTRAL IMAGING DEVICE	(21) EP21185498.9	G01N 33/02
(73) Silius Technologies	(22) 14.07.2021	B01L 3/00
(72) TISSERAND, Stéphane	(54) CRYOGENIC LIQUID COMPOSITE	G01N 1/02
ROUX, Laurent	SAMPLING SYSTEM AND METHODS	G01N 21/94
HUBERT, Marc	(73) Mustang Sampling, LLC	G01N 21/03

(11) EP2867654	(31) 16152829	(11) EP3239743
(21) EP13810675.2	15175765	(21) EP17175218.1
(22) 05.03.2013	(32) 26.01.2016	(22) 17.06.2011
(54) SAMPLE COLLECTION AND BIOLUMINESCENT ANALYSIS SYSTEM	(33) European Patent Office (EPO)	(54) DUAL AXIS GEOPHONES FOR PRESSURE / VELOCITY SENSING STREAMERS FORMING A TRIPLE COMPONENT STREAMER
(73) BioControl Systems, Inc.	European Patent Office (EPO)	(73) Sercel, Inc.
(72) DIENER, Alexander, Michael	(47) 16.11.2022	(72) MAPLES, Mike
IVERSON, David, Oscar	(51) G01N 33/579	HEPP, John S.
JOHNSON, Kyle, Stuart	(11) EP3552021	(74) ir. W.J.J.M. Kempes
BRINCKERHOFF, Chad, Austin	(21) EP18706328.4	(31) 201113161896
FELDSINE, Phillip, T.	(22) 11.01.2018	356835 P
GORDON, Marc, Warren	(54) COAGULOGEN-FREE CLARIFIED LIMULUS AMEBOCYTE LYSATE	(32) 16.06.2011
MURKOWSKI, John, Russell	(73) Lonza Walkersville, Inc.	21.06.2010
NENNINGER, Garett, Glenn	(72) TADESSE, Leben	(33) United States of America
KELLY, Tim, Allen	LIN, Karen	United States of America
PERRIN, Jon, Keith	STUMBAUGH, Candice	(47) 28.09.2022
WILL, Kristin, Marie	(74) ir. W.J.J.M. Kempes	(51) G01V 1/36
(31) 201213645183	(31) 201762445136 P	G01V 1/28
201261666637 P	(32) 11.01.2017	(11) EP3649491
(32) 04.10.2012	(33) United States of America	(21) EP18827664.6
29.06.2012	(47) 26.10.2022	(22) 05.07.2018
(33) United States of America	(51) G01S 1/68	(54) REFLECTION SEISMOLOGY INTERNAL MULTIPLE ESTIMATION
United States of America	G01S 1/70	(73) GeoQuest Systems B.V.
(47) 12.10.2022	G01S 5/02	(72) XAVIER DE MELO, Frederico
(51) G01N 21/958	G06F 1/16	ALI, Ahmed Rushdy Elsaid Elzein
B60R 25/30	G02B 27/01	KOSTOV, Clement
B60R 25/34	G02B 27/00	ZHIMING, Wu
B60S 1/08	G06F 3/16	(74) ir. A. Blokland c.s.
(11) EP3577446	G06F 3/01	(31) 201762528906 P
(21) EP18704063.9	G01S 19/42	(32) 05.07.2017
(22) 31.01.2018	A63F 13/00	(33) United States of America
(54) SYSTEMS AND METHODS FOR DAMAGE DETECTION	A63B 69/00	(47) 14.09.2022
(73) Belron International Limited	(11) EP3458167	(51) G02B 27/09
(72) FRANCIS, Kelly	(21) EP17790199.8	B23K 26/073
DAVIES, Christopher	(22) 24.04.2017	(11) EP3418794
(74) ir. J.D. de Zeeuw	(54) ELECTROMAGNETIC TRACKING WITH AUGMENTED REALITY SYSTEMS	(21) EP18176514.0
(31) 201701924	(73) Magic Leap, Inc.	(22) 07.06.2018
(32) 06.02.2017	(72) BUCKNOR, Brian	(54) MODULAR OPTICAL MODULAR SYSTEM FOR FOCUS-CLOSE BEAM DENSITY PARTITIONS WITH ALTERNATING BEAM DENSITY PROFILE
(33) United Kingdom	LOPEZ, Christopher	(73) asphericorn GmbH
(47) 05.10.2022	WOODS, Michael	(72) Fuchs, Ulrike
(51) G01N 33/543	ALY, Aly H.M.	Kiontke, Sven
G01N 33/58	PALMER, James William	Möhl, Anna
(11) EP3788372	RYNK, Evan Francis	(74) ir. W.J.J.M. Kempes
(21) EP19719530.8	(74) ir. W.J.J.M. Kempes	(31) 102017113945
(22) 29.04.2019	(31) 201762479111 P	(32) 23.06.2017
(54) IMMUNOASSAY FOR AN AUTOMATED SYSTEM	201662328003 P	(33) Germany
(73) Hahn-Schickard-Gesellschaft für angewandte Forschung e.V.	(32) 30.03.2017	(47) 05.10.2022
(72) KLEIN, Vanessa	26.04.2016	(51) G03B 9/08
MITSAKAKIS, Konstantinos	(33) United States of America	G03F 7/20
JOHANNSEN, Benita-Andrea	United States of America	G03B 9/10
(31) 18170409	(47) 19.10.2022	G03B 9/14
(32) 02.05.2018	(51) G01S 19/44	G02B 26/02
(33) European Patent Office (EPO)	G01S 19/07	G03B 9/60
(47) 26.10.2022	(11) EP3356856	(11) EP3575861
(51) G01N 33/569	(21) EP15877290.5	(21) EP18744361.9
G01N 33/68	(22) 23.10.2015	(22) 25.01.2018
(11) EP3764098	(54) MONITOR BASED AMBIGUITY VERIFICATION FOR ENHANCED GUIDANCE QUALITY	(54) SHUTTER DEVICE, METHOD OF CONTROLLING THE SAME, PHOTOLITHOGRAPHY MACHINE, AND METHOD FOR CONTROLLING AN EXPOSURE DOSE THEREOF
(21) EP20193293.6	(73) Sierra Nevada Corporation	
(22) 07.07.2016	(72) HANSEN, JR., Joseph Henry	
(54) INFLUENZA POTENCY ASSAYS	WRIGHT, William Gerald	
(73) Seqirus UK Limited	(74) ir. W.J.J.M. Kempes	
(72) WANG, Zihao	(47) 07.12.2022	
SETTEMBRE, Ethan C.	(51) G01V 1/18	
WEN, Yingxia	G01V 1/38	
(74) dr. R.C. van Duijvenbode c.s.		

- (73) Shanghai Micro Electronics Equipment (Group) Co., Ltd.
(72) JIANG, Zhiyong
ZHANG, Fuping
WANG, Yanfei
(74) dr. R.C. van Duijvenbode c.s.
(31) 201710061013
(32) 25.01.2017
(33) China
(47) 05.10.2022
-
- (51) G03B 17/00
G03B 17/02
H04N 5/225
G03B 17/12
H04N 5/228
(11) EP3745196
(21) EP20186849.4
(22) 08.06.2016
(54) CAMERA MODULE
(73) LG INNOTEK CO. LTD
(72) AN, Myoung Jin
(74) dr. R.C. van Duijvenbode c.s.
(31) 20160017308
20150080414
(32) 15.02.2016
08.06.2015
(33) Korea (Republic)
Korea (Republic)
(47) 16.11.2022
-
- (51) G03F 7/004
B01J 31/08
B01J 35/10
G03F 7/32
H01L 21/027
G03F 7/16
G03F 7/40
(11) EP3321735
(21) EP16824257.6
(22) 28.06.2016
(54) METHOD FOR PRODUCING ORGANIC ACID ESTER-BASED LIQUID, AND METHOD FOR PRODUCING RESIST SOLVENT FOR MANUFACTURING ELECTRONIC COMPONENTS OR RINSE AGENT FOR MANUFACTURING ELECTRONIC COMPONENTS
(73) Musashino Chemical Laboratory, Ltd.
(72) TSUKIDA, Masakazu
TAKADA, Hitoshi
(74) J.M.H. Duyver lic.
(31) 2015138977
(32) 10.07.2015
(33) Japan
(47) 23.11.2022
-
- (51) G05B 19/401
G05B 19/4099
(11) EP2894525
(21) EP15150305.9
(22) 07.01.2015
(54) Systems, methods, and apparatus for locating and drilling closed holes of a turbine component
(73) General Electric Company
(72) Icli, Selami Haydar
Ozturk, Ysef Eren
(74) ir. W.J.J.M. Kempes
(31) 201414151424
(32) 09.01.2014
- (33) United States of America
(47) 09.11.2022
-
- (51) G06F 3/039
(11) EP3882749
(21) EP20163274.2
(22) 16.03.2020
(54) BUTTON DEVICE AND MANIPULATION STRUCTURE THEREOF
(73) Quixant PLC
(72) HUNG, Chih-Chi
(74) dr. ir. G.J.C. Verdijck c.s.
(47) 23.11.2022
-
- (51) G06F 3/041
(11) EP3743795
(21) EP19701002.8
(22) 10.01.2019
(54) PRESSURE SIGNAL PROCESSING
(73) Cambridge Touch Technologies Ltd.
(72) VIT, Matteo
MICCI, Riccardo
BASTANI, Babak
NATHAN, Arokia
(74) dr. A. Krebs
(31) 201801099
(32) 23.01.2018
(33) United Kingdom
(47) 30.11.2022
-
- (51) G06F 3/0481
(11) EP3910458
(21) EP21167183.9
(22) 07.04.2021
(54) VEHICLE INFOTAINMENT APPARATUS USING WIDGET AND OPERATION METHOD THEREOF
(73) Thinkware Corporation
(72) SO, Junghan
HEO, Wonjun
KIM, Daeun
SHIN, Younjoo
CHOI, Seokwon
KIM, Taekyun
(74) drs. J. Renkema
(31) 20200165735
20200047646
(32) 01.12.2020
20.04.2020
(33) Korea (Republic)
Korea (Republic)
(47) 02.11.2022
-
- (51) G06F 7/487
G06F 7/53
G06F 7/544
(11) EP3788470
(21) EP19729903.5
(22) 25.04.2019
(54) BLOCK FLOATING POINT COMPUTATIONS USING REDUCED BIT-WIDTH VECTORS
(73) Microsoft Technology Licensing, LLC
(72) BURGER, Douglas C.
LO, Daniel
CHUNG, Eric S.
(74) dr. R.C. van Duijvenbode c.s.
(31) 201815971904
(32) 04.05.2018
(33) United States of America
(47) 16.11.2022
-
- (51) G06F 7/58
(11) EP3607412
(21) EP17904773.3
(22) 07.04.2017
(54) SYSTEMS AND METHODS FOR GENERATING GAUSSIAN RANDOM NUMBERS WITH HARDWARE ACCELERATION
(73) INTEL Corporation
(72) XU, Lin
HU, Ping
WANG, Shandong
CHENG, Wenhua
GUO, Yiwen
WANG, Libin
YAO, Anbang
CAI, Dongqi
(74) ir. W.J.J.M. Kempes
(47) 16.11.2022
-
- (51) G06F 7/58
(11) EP3659031
(21) EP18750495.6
(22) 10.07.2018
(54) APPARATUS, SYSTEM AND METHOD FOR GENERATING RANDOM NUMBERS
(73) Istituto Nazionale di Fisica Nucleare
(72) MOLLO, Carlos Maximiliano
MIGLIOZZI, Pasquale
(74) ir. W.J.J.M. Kempes
(31) 201700086031
(32) 27.07.2017
(33) Italy
(47) 14.09.2022
-
- (51) G06F 8/65
(11) EP3759588
(21) EP18714084.3
(22) 19.03.2018
(54) METHOD AND APPARATUS FOR UPDATING DEVICES IN A REMOTE NETWORK
(73) Huawei International Pte. Ltd.
(72) LIN, Hsiao-Ying
LI, Tiejian
NACCACHE, David
YANG, Yanjiang
ZHANG, Mingming
ZHAO, Xiaopeng
(74) ir. W.J.J.M. Kempes
(47) 28.09.2022
-
- (51) G06F 9/30
(11) EP3796158
(21) EP20181670.9
(22) 23.06.2020
(54) SYSTEMS AND METHODS FOR ISA SUPPORT FOR INDIRECT LOADS AND STORES FOR EFFICIENTLY ACCESSING COMPRESSED LISTS IN GRAPH APPLICATIONS
(73) Intel Corporation
(72) Heirman, WIM
Fryman, Joshua
Smith, Shaden
More, Ankit
Pawlowski, Robert
Cline, Scott
Schmittl, Scott Hagan
Howard, Jason

(74) ir. W.J.J.M. Kempes	(31) 202021004385	(51) G06F 21/31
(31) 201916579806	(32) 31.01.2020	H04L 9/08
(32) 23.09.2019	(33) India	H04L 9/32
(33) United States of America	(47) 12.10.2022	G06F 21/62
(47) 16.11.2022	(51) G06F 12/0897	G06F 21/35
(51) G06F 9/455	G06F 3/147	(11) EP3403368
(11) EP3391210	G06F 12/0804	(21) EP17738713.1
(21) EP16820420.4	G06F 12/02	(22) 13.01.2017
(22) 08.12.2016	(11) EP3274841	(54) 2-FACTOR AUTHENTICATION FOR
(54) SCALABLE TENANT NETWORKS	(21) EP16769258.1	NETWORK CONNECTED STORAGE
(73) Microsoft Technology Licensing, LLC	(22) 24.02.2016	DEVICE
(72) GADDEHOSUR, Poornananda R.	(54) COMPACTION FOR MEMORY	(73) Hiddn Security AS
SCHULTZ, Benjamin M.	HIERARCHIES	(72) SOLHJELL, Erik
(74) J.M.H. Duyver lic.	(73) Intel Corporation	HAGA, Atle
(31) 201615075049	(72) AKENINE-MÖLLER, Tomas G.	(74) dr. R.C. van Duijvenbode c.s.
201562267664 P	NILSSON, Jim K.	(31) 20160065
(32) 18.03.2016	CLARBERG, Franz P.	(32) 13.01.2016
15.12.2015	(74) ir. W.J.J.M. Kempes	(33) Norway
(33) United States of America	(31) 201514666756	(47) 14.09.2022
United States of America	(32) 24.03.2015	(51) G06F 21/54
(47) 23.11.2022	(33) United States of America	G06F 21/82
(51) G06F 9/48	(47) 16.11.2022	(11) EP3761200
G06F 21/52	(51) G06F 12/14	(21) EP20183017.1
G06F 21/62	G06F 12/0868	(22) 30.06.2020
(11) EP3502949	G06F 1/3234	(54) METHOD FOR TROUBLESHOOTING A
(21) EP18213869.3	G06F 1/3287	DEVICE VIA A USER INTERFACE OF
(22) 19.12.2018	G06F 1/329	THE DEVICE
(54) METHOD AND SYSTEM FOR	G06F 12/0804	(73) Vaillant GmbH
CONTROLLING THE SCHEDULING OF	G06F 12/0888	(72) Maaß, Andre
SOFTWARE TASKS	(11) EP3314452	von Dreden, Tim Christopher
(73) Thales	(21) EP16814937.5	(74) J.M.H. Duyver lic.
(72) MACE, Gaël	(22) 24.05.2016	(31) 102019117658
VASLIN, Romain	(54) FLUSHING AND RESTORING CORE	(32) 01.07.2019
MAUSSION, Antoine	MEMORY CONTENT TO EXTERNAL	(33) Germany
(74) dr. R.C. van Duijvenbode c.s.	MEMORY	(47) 16.11.2022
(31) 1701331	(73) Intel Corporation	(51) G06F 30/17
(32) 20.12.2017	(72) GENDLER, Alexander	G06F 119/18
(33) France	SHULMAN, Nadav	(11) EP3379434
(47) 21.09.2022	ANATI, Ittai	(21) EP17203244.3
(51) G06F 11/07	REHANA, Shani	(22) 23.11.2017
G06Q 40/04	MISHAELI, Michael	(54) A SYSTEM AND METHOD
G06F 9/48	SHAFI, Hisham	FOR DESIGN OF ADDITIVELY
G06F 9/50	DESAI, Sameer	MANUFACTURED PRODUCTS
(11) EP3371701	BERKOVITS, Ariel	(73) Tata Consultancy Services Limited
(21) EP16795477.5	(74) ir. W.J.J.M. Kempes	(72) ZAGADE, Pramod Ramdas
(22) 28.10.2016	(31) 201514751889	BASAVARSU, Purushoththam Gautham
(54) CLUSTERED FAULT TOLERANCE	(32) 26.06.2015	(74) dr. ir. G.J.C. Verdijck c.s.
SYSTEMS AND METHODS USING	(33) United States of America	(31) 201721010130
LOAD-BASED FAILOVER	(47) 02.11.2022	(32) 22.03.2017
(73) Chicago Mercantile Exchange, Inc.	(51) G06F 13/16	(33) India
(72) HELLEREN, Erik	(11) EP3704591	(47) 28.09.2022
(74) dr. R.C. van Duijvenbode c.s.	(21) EP18804191.7	(51) G06K 7/14
(31) 201514930165	(22) 31.10.2018	G06K 7/10
(32) 02.11.2015	(54) WRITE CREDITS MANAGEMENT FOR	(11) EP3629225
(33) United States of America	NON-VOLATILE MEMORY	(21) EP19210794.4
(47) 12.10.2022	(73) Qualcomm Incorporated	(22) 30.12.2015
(51) G06F 11/36	(72) BAINS, Kuljit Singh	(54) REAL-TIME ADJUSTABLE WINDOW
(11) EP3859532	QUEEN, Wesley	FEATURE FOR BARCODE SCANNING
(21) EP20196101.8	RAMANUJAN, Raj	AND PROCESS OF SCANNING
(22) 15.09.2020	WANG, Liyong	BARCODE WITH ADJUSTABLE
(54) METHOD AND SYSTEM FOR	(74) dr. R.C. van Duijvenbode c.s.	WINDOW FEATURE
COUNTER EXAMPLE GUIDED LOOP	(31) 201816175381	(73) Hand Held Products, Inc.
ABSTRACTION REFINEMENT	201762579715 P	(72) TODESCHINI, Erik
(73) Tata Consultancy Services Limited	(32) 30.10.2018	ANDERSON, Donald
(72) Shah, Tanha	31.10.2017	(74) ir. W.J.J.M. Kempes
Darke, Priyanka	(33) United States of America	(31) 201514982426
Ramanathan, Venkatesh	United States of America	201462098072 P
(74) dr. ir. G.J.C. Verdijck c.s.	(47) 16.11.2022	(32) 29.12.2015

30.12.2014	G06F 8/71	11.09.2013
(33) United States of America	(11) EP3318997	(33) United States of America
United States of America	(21) EP16197237.7	United States of America
(47) 09.11.2022	(22) 04.11.2016	(47) 16.11.2022
(51) G06K 9/00	(54) METHOD FOR ENFORCING AN	(51) G06T 11/00
(11) EP3598341	AUTHORIZATION, METHOD FOR	(11) EP3736773
(21) EP19194828.0	EVALUATION OF AN AUTHORIZATION,	(21) EP20173340.9
(22) 26.01.2018	USE OF A COMPONENT FRAMEWORK	(22) 06.05.2020
(54) IMPLEMENTATION OF BIOMETRIC	FOR CONTROLLING A SAFETY	(54) IMAGING METHOD AND DEVICE
AUTHENTICATION USING A	CRITICAL PROCESS AND COMPUTER	(73) GE Precision Healthcare LLC
VIEWFINDER	PROGRAM PRODUCT	(72) WANG, Xueli
(73) Apple Inc.	(73) Thales Management & Services	CAO, Ximiao
(72) ANTON, Peter	Deutschland GmbH	XING, Weiwei
MARI, Pedro	(72) LE MAGUET, Pierre	ZHAO, Bingjie
DEVINE, Lynne	SCHROTH, Albrecht	(74) dr. R.C. van Duijvenbode c.s.
Moussette, Camille	(74) J.M.H. Duyver lic.	(31) 201910380168
MOHSENI, Daamun	(47) 21.09.2022	(32) 08.05.2019
PRESTON, Daniel,Trent	(51) G06T 1/20	(33) China
VAN OS, Marcel	G06F 9/30	(47) 09.11.2022
Verweij, Hugo	G06F 9/38	(51) G06T 11/60
GRIFFIN, Bradley, W.	(11) EP3667606	(11) EP3779889
BEHZADI, Arian	(21) EP20154910.2	(21) EP20197468.0
Mouilleseaux, Jean-Pierre, M	(22) 20.04.2018	(22) 20.01.2009
FOSS, Christopher, Patrick	(54) GRAPHICS CONTROL FLOW	(54) GENERATION OF AN IMAGE
Yerkes, Giancarlo	MECHANISM	ENHANCED PRODUCT
(74) J.M.H. Duyver lic.	(73) INTEL Corporation	(73) Kodak Alaris Inc.
(31) PA201770715	(72) MAIYURAN, Subramaniam M.	(72) DEVOY, James, Michael
PA201770714	LUEH, Guei-Yuan	SCHNEIDER, Megan, Mcginn
PA201770713	PAL, Supratim	HAJEC, Kimberly, Beth
PA201770712	CHEN, Gang	(31) 24665
201762581025 P	PUFFER, David	(32) 01.02.2008
201762557130 P	APPU, Abhishek R.	(33) United States of America
201762556413 P	SCHLUESSLER, Travis T.	(47) 12.10.2022
(32) 22.09.2017	RAY, Joydeep	(51) G07C 9/00
22.09.2017	LIAO, Hong Bin	(11) EP3486878
22.09.2017	SHAH, Ankur N.	(21) EP18000904.5
22.09.2017	BURKE, Devan	(22) 16.11.2018
02.11.2017	KOMMARAJU, Ananda V.	(54) LOCKING SYSTEM AND METHOD FOR
11.09.2017	KENNEDY, Jonathan	LOCKING A CONTAINER
09.09.2017	CHANDRA, Joy	(73) Scan Global Logistics Commercial GmbH
(33) Denmark	SURTI, Prasoorkumar	(72) Wegener, Norbert
Denmark	KOKER, Altug	Heier, Stefan
Denmark	(74) ir. W.J.J.M. Kempes	Foltyn, Peter
Denmark	(31) 201715493442	(74) dr. R.C. van Duijvenbode c.s.
United States of America	(32) 21.04.2017	(31) 102017010735
United States of America	(33) United States of America	(32) 20.11.2017
United States of America	(47) 16.11.2022	(33) Germany
(47) 23.11.2022	(51) G06T 7/00	(47) 05.10.2022
(51) G06N 3/063	H04N 13/00	(51) G08B 17/10
G06F 8/41	H04N 17/00	G08B 17/113
(11) EP3566185	G06T 17/00	G08B 5/36
(21) EP17825508.9	G06T 17/20	(11) EP3267413
(22) 20.12.2017	(11) EP3496036	(21) EP17180013.9
(54) AREA-EFFICIENT, RECONFIGURABLE,	(21) EP19153265.4	(22) 06.07.2017
ENERGY-EFFICIENT, SPEED-	(22) 11.09.2014	(54) SMOKE WARNING DEVICE
EFFICIENT NEURAL NETWORK	(54) STRUCTURAL MODELING USING	(73) ABB Schweiz AG
SUBSTRATE	DEPTH SENSORS	(72) Goldyn, Dirk
(73) International Business Machines	(73) Qualcomm Incorporated	Brangenberg, Florian
Corporation	(72) NGUYEN, Thanh Quoc	Grotensohn, Michael
(72) MODHA, Dharmendra	GRASSET, Raphael David Andre	Hujer, Vlastimil
(74) J.M.H. Duyver lic.	LANGLOTZ, Tobias Martin	Kozak, Milan
(31) 201715400319	SCHMALSTIEG, Dieter	(74) ir. W.J.J.M. Kempes
(32) 06.01.2017	REITMAYR, Gerhard	(31) 102016112349
(33) United States of America	SEICHTER, Hartmut	(32) 06.07.2016
(47) 23.11.2022	(74) dr. R.C. van Duijvenbode c.s.	(33) Germany
(51) G06Q 50/26	(31) 201414250544	(47) 05.10.2022
G06F 21/12	201361876421 P	(51) G08C 17/04
G06F 21/51	(32) 11.04.2014	

(11) EP3488434	(54) METHOD AND ELECTRONIC DEVICE	(54) ENRICHMENT AND RADIOISOTOPE PRODUCTION
(21) EP17735752.2	(73) Sony Group Corporation	(73) ASML Netherlands B.V.
(22) 27.06.2017	(72) CARDINAUX, Fabien	(72) DE JAGER, Pieter, Willem, Herman
(54) SYSTEMS AND METHODS FOR PASSIVE RADIO ENABLED POWER GATING FOR A BODY MOUNTABLE DEVICE	(74) ir. W.J.J.M. Kempes	DERKSEN, Antonius, Theodorus, Anna, Maria
(73) Verily Life Sciences LLC	(31) 15161897	(74) ir. A.J.M. van Hoef
(72) BIEDERMAN, William	(32) 31.03.2015	(31) 18200179
(74) dr. R.C. van Duijvenbode c.s.	(33) European Patent Office (EPO)	(32) 12.10.2018
(31) 201615218587	(47) 16.11.2022	(33) European Patent Office (EPO)
(32) 25.07.2016	(51) G11C 7/04	(47) 02.11.2022
(33) United States of America	G11C 16/26	(51) H01L 23/14
(47) 19.10.2022	G11C 16/34	H01L 23/66
(51) G08G 1/087	(11) EP3357063	H01L 21/48
G08G 1/09	(21) EP16730992.1	H01L 23/498
G08G 1/0965	(22) 10.06.2016	H01L 23/00
B60Q 5/00	(54) MEMORY DIE TEMPERATURE ADJUSTMENT BASED ON AGING CONDITION	(11) EP3140859
H04B 11/00	(73) Western Digital Technologies, Inc.	(21) EP14891343.7
G10L 19/018	(72) YADAV, Preeti	(22) 06.05.2014
G07C 5/00	RAO, Prasanna Desai Sudhir	(54) MULTI-LAYER PACKAGE WITH INTEGRATED ANTENNA
G08G 1/14	AGGARWAL, Smita	(73) Intel Corporation
(11) EP2624234	LEE, Dana	(72) FRANK, Torrey W.
(21) EP12199230.9	(74) ir. J.D. de Zeeuw	ELSHERBINI, Adel A.
(22) 21.12.2012	(31) 201615061702	KAMGAING, Telesphor
(54) A SYSTEM, A METHOD AND AN APPARATUS FOR VEHICULAR COMMUNICATION	201514867999	(74) ir. W.J.J.M. Kempes
(73) Tata Consultancy Services Limited	(32) 04.03.2016	(47) 02.11.2022
(72) Purushothaman, Balamuralidhar	28.09.2015	(51) H01L 25/075
Srinivasarengan, Krishnan	(33) United States of America	H01L 33/00
(74) ir. W.J.J.M. Kempes	United States of America	H01L 23/00
(31) MU03142012	(47) 12.10.2022	H01L 21/683
(32) 02.02.2012	(51) G16H 50/50	(11) EP3796381
(33) India	(11) EP3185156	(21) EP20170791.6
(47) 30.11.2022	(21) EP17155303.5	(22) 22.04.2020
(51) G08G 1/14	(22) 29.07.2011	(54) DEVICE AND METHOD FOR SELF-ASSEMBLING SEMICONDUCTOR LIGHT-EMITTING DIODES
E01F 13/04	(54) METHOD AND SYSTEM FOR PATIENT-SPECIFIC MODELING OF BLOOD FLOW	(73) LG Electronics Inc.
G06Q 10/02	(73) Heartflow, Inc.	(72) CHOI, Bongwoon
(11) EP3316234	(72) BAI, Ying	JUNG, Sangsik
(21) EP16196518.1	CHOI, Gilwoo	YANG, Inbum
(22) 31.10.2016	TAYLOR, Charles, A.	JUNG, Imdeok
(54) METHOD FOR MANAGING A PARKING SPACE	FONTE, Timothy, A.	(74) ir. J.C. Volmer c.s.
(73) Elite Swiss Business Solutions SA	ZARINS, Christopher, K.	(31) 20190119008
(72) Pugliese, François	(74) ir. W.J.J.M. Kempes	20190115574
(74) dr. A. Ellens c.s.	(31) 201113013561	(32) 26.09.2019
(47) 21.09.2022	404429 P	19.09.2019
(51) G08G 1/16	402345 P	(33) Korea (Republic)
G06K 9/00	402308 P	Korea (Republic)
G06K 9/62	401915 P	(47) 07.12.2022
G01S 7/41	401462 P	(51) H01L 27/146
G01S 7/48	(32) 25.01.2011	(11) EP3586366
G01S 13/86	01.10.2010	(21) EP18707443.0
G01S 13/89	27.08.2010	(22) 08.02.2018
G01S 13/931	26.08.2010	(54) SOLID-STATE IMAGE PICKUP DEVICE AND ELECTRONIC APPARATUS
G01S 17/00	20.08.2010	(73) Sony Semiconductor Solutions Corporation
G01S 17/50	12.08.2010	(72) YAMASHITA Kazuyoshi
G01S 17/931	(33) United States of America	(74) ir. W.J.J.M. Kempes
G06N 3/04	United States of America	(31) 2017030743
G01S 17/86	United States of America	(32) 22.02.2017
G01S 17/89	United States of America	(33) Japan
G06V 10/82	United States of America	(47) 23.11.2022
G06V 20/58	(47) 16.11.2022	(51) H01R 4/48
G01S 13/50	(51) G21G 1/12	H01R 9/24
(11) EP3278317	B01D 59/48	(11) EP3846290
(21) EP16713830.4	(11) EP3864676	(21) EP20214911.8
(22) 24.03.2016	(21) EP19765740.6	
	(22) 13.09.2019	

(22) 17.12.2020	Qvicker, Jimmy	(72) BOETTCHER, Bernd
(54) WIRING DEVICE FOR SWITCH SOCKET	Öjerstav, Jan	(74) dr. R.C. van Duijvenbode c.s.
(73) GuangDong Futina Electrical Co.,Ltd.	(74) ir. W.J.J.M. Kempes	(31) 102016206179
SG Armaturen AS	(31) 1851323	(32) 13.04.2016
(72) LIANG, Xiqiang	(32) 25.10.2018	(33) Germany
CHEN, Yucong	(33) Sweden	(47) 19.10.2022
LAI, Qingcheng	(47) 30.11.2022	(51) H02M 1/00
WANG, Fengtao	(51) H02J 7/02	H02M 3/156
(74) dr. W.A.H.M. Van Borm	B60L 53/22	G05F 1/575
(31) 201911423016	H02J 9/00	(11) EP3149553
(32) 31.12.2019	H02J 1/10	(21) EP15727151.1
(33) China	H02M 3/28	(22) 15.05.2015
(47) 14.09.2022	H02M 7/23	(54) ON-CHIP DUAL-SUPPLY MULTI-MODE CMOS REGULATORS
(51) H01S 3/04	(11) EP3506457	(73) Qualcomm Incorporated
H01S 3/067	(21) EP18180396.6	(72) HUNG, Tsai-Pi
G01S 17/08	(22) 28.06.2018	ZHANG, Gang
G01S 7/481	(54) CHARGING POWER SYSTEM WITH LOW STANDBY POWER CONSUMPTION AND METHOD OF CONTROLLING THE SAME	LO, Yung-Chung
G01S 17/88	(73) Delta Electronics, Inc.	HAN, Yiping
F28F 3/04	(72) WU, Tsung-Yuan	CHANG, Jae-Hong
F28F 5/00	(74) dr. A. Ellens c.s.	BOSSU, Frederic
H02K 9/22	(31) 106146134	(74) dr. R.C. van Duijvenbode c.s.
(11) EP3494618	(32) 28.12.2017	(31) 201514630506
(21) EP17889766.6	(33) Taiwan, Province of China	201462005765 P
(22) 13.10.2017	(47) 16.11.2022	(32) 24.02.2015
(54) THERMAL ROTARY LINK	(51) H02J 7/02	30.05.2014
(73) Waymo LLC	H02J 50/12	(33) United States of America
(72) DROZ, Pierre-Yves	H02J 50/60	United States of America
ULRICH, Drew	H02J 50/90	(47) 23.11.2022
PARDHAN, Rahim	H02J 50/80	(51) H03F 3/24
MCCANN, William	(11) EP3557722	H01L 27/085
(74) dr. A. Krebs	(21) EP19168804.3	H03F 3/195
(31) 201615295573	(22) 11.04.2019	H01L 21/8258
(32) 17.10.2016	(54) SYSTEMS AND METHODS FOR OBJECT DETECTION	H01L 27/06
(33) United States of America	(73) Avago Technologies International Sales Pte. Limited	(11) EP3866189
(47) 30.11.2022	(72) Jiang, Yongjie	(21) EP20157460.5
(51) H01T 23/00	Rutherford, Mark	(22) 14.02.2020
H05F 3/06	Walley, John	(54) A MMIC FRONT-END MODULE
(11) EP3120429	(74) ir. W.J.J.M. Kempes	(73) Epinovatech AB
(21) EP15701435.8	(31) 201816172382	(72) OLSSON, Martin Andreas
(22) 06.01.2015	201862659020 P	(47) 28.09.2022
(54) AN AUTOMATICALLY BALANCED MICRO-PULSED IONIZING BLOWER	(32) 26.10.2018	(51) H03M 13/03
(73) Illinois Tool Works Inc.	17.04.2018	H03M 13/11
(72) OLDYNSKI, Edward	(33) United States of America	H03M 13/27
GEFTER, Peter	United States of America	H03M 13/29
PARTRIDGE, Leslie	(47) 28.09.2022	(11) EP3706320
(74) dr. W.A.H.M. Van Borm	(51) H02K 1/30	(21) EP18873065.9
(31) 201414220130	F03B 13/00	(22) 17.10.2018
(32) 19.03.2014	F03D 9/25	(54) TRANSMISSION AND RECEPTION USING LDPC CODES OF LENGTH 17280 WITH CODE RATES OF 9/16 AND 10/16
(33) United States of America	F03B 13/08	(73) Sony Group Corporation
(47) 28.09.2022	H02K 1/02	(72) YAMAMOTO Makiko
(51) H02G 3/00	H02K 7/18	SHINOHARA Yuji
A47B 57/40	F03B 3/04	(74) ir. W.J.J.M. Kempes
F16L 3/24	F03D 15/20	(31) 2017209876
H02G 3/30	(11) EP3443640	(32) 31.10.2017
H02G 3/02	(21) EP17716168.4	(33) Japan
A47B 57/42	(22) 05.04.2017	(47) 30.11.2022
F16L 3/22	(54) GENERATOR ROTOR FOR A GENERATOR OF A WIND TURBINE OR A HYDROELECTRIC POWER PLANT, GENERATOR, AND WIND TURBINE AND HYDROELECTRIC POWER PLANT COMPRISING SAME	(51) H04B 1/40
(11) EP3644464	(73) Wobben Properties GmbH	H04B 7/0404
(21) EP19204017.8		(11) EP3879713
(22) 18.10.2019		(21) EP19890291.8
(54) CARRIAGE SYSTEM FOR CABLE LADDERS, CABLE RACEWAYS AND CABLE TRAYS		(22) 11.11.2019
(73) Aktiebolaget Wibe		(54) RADIO FREQUENCY STRUCTURE AND TERMINAL DEVICE
(72) Nanjundaiah, Mahesh Melun, Jeremy		

(73) VIVO MOBILE COMMUNICATION CO., LTD.	21.08.2017	H04W 16/28
(72) ZHANG, Sha	(33) United States of America	H04W 24/04
(74) ir. J.D. de Zeeuw	United States of America	(11) EP3917042
(31) 201811452365	United States of America	(21) EP19911700.3
(32) 30.11.2018	United States of America	(22) 24.01.2019
(33) China	United States of America	(54) COMMUNICATION DEVICE, CONTROL DEVICE, AND CONTROL METHOD
(47) 12.10.2022	United States of America	(73) Sony Group Corporation
(51) H04B 7/0456	United States of America	(72) KUBO, Yasuo
H04B 7/06	United States of America	GOTO, Jungo
H04B 7/0452	United States of America	(74) ir. W.J.J.M. Kempes
H04B 7/04	United States of America	(47) 23.11.2022
(11) EP3754863	United States of America	(51) H04L 1/00
(21) EP20189695.8	United States of America	H04L 1/16
(22) 11.08.2017	(47) 23.11.2022	H04L 5/00
(54) MULTI-BEAM CODEBOOKS WITH FURTHER OPTIMIZED OVERHEAD	(51) H04B 7/06	H04L 27/26
(73) Telefonaktiebolaget LM Ericsson (publ)	(11) EP3855638	H04L 27/00
(72) FAXÉR, Sebastian	(21) EP20214431.7	H04L 1/18
GRANT, Stephen	(22) 27.12.2012	(11) EP2044718
MURUGANATHAN, Siva	(54) METHOD FOR FEEDING BACK CHANNEL STATE INFORMATION, USER EQUIPMENT, AND BASE STATION	(21) EP07799376.4
GAO, Shiwei	(73) HUAWEI TECHNOLOGIES CO., LTD.	(22) 06.07.2007
HARRISON, Robert Mark	(72) WANG, Jianguo	(54) DYNAMIC FREQUENCY ALLOCATION AND MODULATION SCHEME FOR CONTROL INFORMATION
(74) ir. A. Blokland c.s.	ZHOU, Yongxing	(73) QUALCOMM Incorporated
(31) 201662374564 P	ZHANG, Leiming	(72) MALLADI, Durga, Prasad
(32) 12.08.2016	(74) ir. W.J.J.M. Kempes	(74) dr. R.C. van Duijvenbode c.s.
(33) United States of America	(47) 28.09.2022	(31) 819268 P
(47) 02.11.2022	(51) H04B 7/185	(32) 07.07.2006
(51) H04B 7/0456	(11) EP3734860	(33) United States of America
H04L 5/00	(21) EP20172709.6	(47) 16.11.2022
H04L 1/00	(22) 04.05.2020	(51) H04L 1/00
H04B 7/06	(54) TRANSMIT FREQUENCY BASED TERMINAL UPLINK POWER CONTROL IN A SATELLITE COMMUNICATION SYSTEM	H04L 5/00
(11) EP3869702	(73) Hughes Network Systems, LLC	H04W 72/04
(21) EP21167676.2	(72) Regunathan, Murali	(11) EP3771122
(22) 21.08.2018	Eapen, George	(21) EP20195790.9
(54) METHOD AND APPARATUS FOR MULTIPLEXING HIGHER-RESOLUTION CHANNEL STATE INFORMATION (CSI)	(74) ir. W.J.J.M. Kempes	(22) 20.03.2018
(73) Samsung Electronics Co., Ltd.	(31) 201916450543	(54) METHODS AND NODES FOR DETERMINING A TRANSMISSION DATA BLOCK SIZE
(72) Guo, Li	201962843314 P	(73) Telefonaktiebolaget LM Ericsson (publ)
Onggosanusi, Eko	(32) 24.06.2019	(72) BLANKENSHIP, Yufei
Rahman, Md Saifur	03.05.2019	YU, Dongsheng
(74) dr. R.C. van Duijvenbode c.s.	(33) United States of America	CHENG, Jung-Fu
(31) 201816104615	United States of America	(74) ir. A. Blokland c.s.
201762609931 P	(47) 23.11.2022	(31) 201762473839 P
201762594886 P	(51) H04B 10/116	(32) 20.03.2017
201762570293 P	H04B 10/11	(33) United States of America
201762569765 P	H04B 5/00	(47) 09.11.2022
201762566916 P	(11) EP3928443	(51) H04L 1/18
201762564612 P	(21) EP20702844.0	H04W 72/04
201762559961 P	(22) 10.02.2020	H04W 28/04
201762559322 P	(54) METHOD AND SYSTEM FOR COMMUNICATING VIA LIGHT SIGNALS	(11) EP3217747
201762558120 P	(73) Signify Holding B.V.	(21) EP15857743.7
201762557320 P	(72) ARULANDU, Kumar	(22) 09.10.2015
201762556711 P	LINNARTZ, Johan-Paul, Marie, Gerard	(54) USER TERMINAL, WIRELESS BASE STATION, WIRELESS COMMUNICATION SYSTEM, AND WIRELESS COMMUNICATION METHOD FOR ACK/NACK TRANSMISSION AND RECEPTION
201762548222 P	GERME, Michel	(73) NTT DOCOMO, INC.
(32) 17.08.2018	VAN WAGENINGEN, Andries	(72) HARADA, Hiroki
22.12.2017	NIJSSSEN, Stephanus, Joseph, Johannes	NAGATA, Satoshi
05.12.2017	(31) 19157705	TAKEDA, Kazuki
10.10.2017	(32) 18.02.2019	(74) dr. ir. F.M. van Bouwelen
09.10.2017	(33) European Patent Office (EPO)	(31) 2014226504
02.10.2017	(47) 12.10.2022	(32) 06.11.2014
28.09.2017	(51) H04B 17/29	
18.09.2017	H04B 7/08	
15.09.2017		
13.09.2017		
12.09.2017		
11.09.2017		

- (33) Japan
(47) 23.11.2022
(51) H04L 5/00
(11) EP2721760
(21) EP12727386.0
(22) 22.05.2012
(54) CHANNEL SELECTION IN WIRELESS COMMUNICATIONS
(73) Telenor Maritim Oy
(72) LINDÉN, Toni
RAUSTIA, Matti
VANNINEN, Teemu
(74) J.M.H. Duyver lic.
(31) 20115590
(32) 14.06.2011
(33) Finland
(47) 05.10.2022
(51) H04L 5/00
(11) EP3251276
(21) EP16706057.3
(22) 28.01.2016
(54) DOWNLINK CONTROL SIGNALING
(73) Interdigital Patent Holdings, Inc.
(72) MARINIER, Paul
RUDOLF, Marian
TOOHER, J. Patrick
PELLETIER, Ghyslain
(31) 201562161089 P
201562144861 P
201562109003 P
(32) 13.05.2015
08.04.2015
28.01.2015
(33) United States of America
United States of America
United States of America
(47) 05.10.2022
(51) H04L 5/00
H04W 72/04
H04W 72/12
H04W 28/00
(11) EP3579645
(21) EP18764483.6
(22) 07.03.2018
(54) METHOD AND APPARATUS FOR CONTROL AND DATA INFORMATION RESOURCE MAPPING IN WIRELESS CELLULAR COMMUNICATION SYSTEM
(73) Samsung Electronics Co., Ltd.
(72) PARK, Sungjin
YEO, Jeongho
OH, Jinyoung
BAE, Taehan
KIM, Younsun
(74) dr. R.C. van Duijvenbode c.s.
(31) 20170074648
20170029445
(32) 14.06.2017
08.03.2017
(33) Korea (Republic)
Korea (Republic)
(47) 16.11.2022
(51) H04L 5/00
H04W 72/04
H04W 72/14
H04L 27/26
(11) EP3539245
(21) EP17788398.0
- (22) 09.10.2017
(54) REFERENCE SIGNAL PATTERN AND PILOT SHARING FOR SHORTENED TRANSMISSION TIME INTERVAL WIRELESS COMMUNICATIONS
(73) QUALCOMM Incorporated
(72) SUN, Jing
HOSSEINI, Seyedkianoush
CHEN, Wanshi
PATEL, Shimman Arvind
GAAL, Peter
(74) dr. R.C. van Duijvenbode c.s.
(31) 201715648159
201662419730 P
(32) 12.07.2017
09.11.2016
(33) United States of America
United States of America
(47) 16.11.2022
(51) H04L 5/00
H04W 84/12
(11) EP3707846
(21) EP18801249.6
(22) 30.10.2018
(54) TECHNIQUES FOR PREAMBLE PUNCTURING
(73) QUALCOMM Incorporated
(72) VERMA, Lochan
CHEN, Jialing Li
VERMANI, Sameer
KIM, Youhan
YANG, Lin
TIAN, Bin
(74) dr. R.C. van Duijvenbode c.s.
(31) 201816173481
201862659997 P
201762582115 P
(32) 29.10.2018
19.04.2018
06.11.2017
(33) United States of America
United States of America
United States of America
(47) 16.11.2022
(51) H04L 9/14
H04L 9/32
H04W 4/80
(11) EP3491480
(21) EP17835272.0
(22) 27.07.2017
(54) SECURE EXCHANGE OF CRYPTOGRAPHICALLY SIGNED RECORDS
(73) Magic Leap, Inc.
(72) KAEHLER, Adrian
(74) ir. W.J.J.M. Kempes
(31) 201662368408 P
(32) 29.07.2016
(33) United States of America
(47) 19.10.2022
(51) H04L 45/02
H04L 45/44
H04L 45/48
H04Q 11/00
(11) EP3732894
(21) EP18899925.4
(22) 05.12.2018
- (54) INTERIOR GATEWAY PROTOCOL FLOOD MINIMIZATION
(73) HUAWEI TECHNOLOGIES CO., LTD.
(72) CHEN, Huaimo
CHENG, Dean
(74) dr. W.A.H.M. Van Borm
(31) 201862750677 P
201862624986 P
201862616499 P
(32) 25.10.2018
01.02.2018
12.01.2018
(33) United States of America
United States of America
United States of America
(47) 16.11.2022
(51) H04L 67/02
H04L 65/80
H04L 65/1069
H04L 65/1083
(11) EP3451631
(21) EP18179685.5
(22) 21.11.2014
(54) WEBRTC COMMUNICATION METHOD AND USER EQUIPMENT
(73) Huawei Device Co., Ltd.
(72) Jing, Hao
Gao, Wenmei
Wang, Yahui
Fan, Shunan
Lv, Xiaoliang
(74) ir. W.J.J.M. Kempes
(31) 201310628995
(32) 29.11.2013
(33) China
(47) 28.09.2022
(51) H04L 67/565
H04L 69/08
H04L 67/567
H04L 67/02
H04L 67/51
G06F 16/958
(11) EP3512175
(21) EP18163213.4
(22) 22.03.2018
(54) SYSTEM AND PROTOCOL FOR INTEGRATING MULTIPLE SERVICE PROVIDERS ACROSS VARIOUS DOMAINS USING A PLATFORM
(73) Tata Consultancy Services Limited
(72) SHUKLA, Mohit
TANDON, Gaurav
SHANKER, Jai
SHAH, Viral Prakash
(74) dr. ir. G.J.C. Verdijck c.s.
(31) 201821001416
(32) 12.01.2018
(33) India
(47) 28.09.2022
(51) H04M 1/04
H02J 7/00
G06F 1/16
(11) EP3826279
(21) EP19211017.9
(22) 22.11.2019
(54) WALL INSERT FOR HOLDING OPERATING ELEMENTS AND MOBILE DEVICES

(73) ise Individuelle Software und Elektronik GmbH	(31) 201161536219 P	(31) 201762452267 P
(72) Jahnke, Timo	(32) 19.09.2011	(32) 30.01.2017
Klein, Torben	(33) United States of America	(33) United States of America
Sahm, Christoph	(47) 02.11.2022	(47) 23.11.2022
(74) dr. R.C. van Duijvenbode c.s.	(51) H04N 19/70	(51) H04W 16/14
(47) 16.11.2022	H04N 19/58	H04W 72/12
(51) H04N 5/225	H04N 19/105	(11) EP3834453
H04N 5/232	(11) EP3847804	(21) EP19759804.8
H04N 5/272	(21) EP19858972.3	(22) 12.08.2019
(11) EP2770724	(22) 12.09.2019	(54) METHOD, APPARATUS AND
(21) EP14156084.7	(54) INDEX SIGNALING FOR REFERENCE	COMPUTER-READABLE MEDIUM TO
(22) 21.02.2014	PICTURE LIST STRUCTURES	DETECT COLLISIONS OF RESOURCE
(54) Apparatus and method for positioning	(73) Huawei Technologies Co., Ltd.	ELEMENTS
image area using image sensor location	(72) HENDRY, Fnu	(73) QUALCOMM Incorporated
(73) Samsung Electronics Co., Ltd.	WANG, Ye-Kui	(72) CHEN, Wanshi
(72) Choi, Hongsuk	(74) ir. W.J.J.M. Kempes	GAAL, Peter
Kim, Moonsoo	(31) 201962848147 P	HOSSEINI, Seyedkianoush
(74) dr. R.C. van Duijvenbode c.s.	201862730172 P	XU, Huilin
(31) 20130020757	(32) 15.05.2019	LUO, Tao
(32) 26.02.2013	12.09.2018	(74) dr. R.C. van Duijvenbode c.s.
(33) Korea (Republic)	(33) United States of America	(31) 201916537422
(47) 09.11.2022	United States of America	201862717440 P
(51) H04N 5/355	(47) 07.12.2022	(32) 09.08.2019
H04N 5/3745	(51) H04N 21/414	10.08.2018
H04N 5/369	H04N 21/482	(33) United States of America
H01L 27/146	H04N 21/436	United States of America
(11) EP3357234	H04N 21/442	(47) 16.11.2022
(21) EP16770403.0	H04N 21/61	(51) H04W 24/02
(22) 08.09.2016	H04N 21/6405	H04W 74/08
(54) HIGH DYNAMIC RANGE SOLID STATE	H04N 21/4728	(11) EP3753279
IMAGE SENSOR AND CAMERA	(11) EP3793203	(21) EP19708217.5
SYSTEM	(21) EP20200957.7	(22) 14.02.2019
(73) QUALCOMM Incorporated	(22) 05.09.2017	(54) DEFAULT RADIO LINK MONITORING
(72) GOMA, Sergiu	(54) BITRATE CONTROL IN VIRTUAL	REFERENCE SIGNAL (RLM-RS)
HSEIH, Biay-Cheng	REALITY (VR) ENVIRONMENTS	DETERMINATION PROCEDURE IN
(74) dr. R.C. van Duijvenbode c.s.	USING TIME-SHIFTING AND UNICAST	NEW RADIO (NR)
(31) 201615141388	DELIVERY	(73) QUALCOMM INCORPORATED
201562236033 P	(73) TELEFONAKTIEBOLAGET LM	(72) ISLAM, Muhammad Nazmul
(32) 28.04.2016	ERICSSON (PUBL)	WANG, Xiao Feng
01.10.2015	(72) PHILLIPS, Chris	NAM, Wooseok
(33) United States of America	FORSMAN, Robert Hammond	JOHN WILSON, Makesh Pravin
United States of America	REYNOLDS, Jennifer Ann	NAGARAJA, Sumeeth
(47) 16.11.2022	DASHER, Charles Hammett	SADIQ, Bilal
(51) H04N 19/105	(74) ir. A. Blokland c.s.	AKKARAKARAN, Sony
H04N 19/70	(31) 201715694180	LUO, Tao
H04N 19/172	201662384975 P	(74) dr. R.C. van Duijvenbode c.s.
H04N 19/174	(32) 01.09.2017	(31) 201916274339
H04N 19/58	08.09.2016	201862710455 P
H04N 19/573	(33) United States of America	(32) 13.02.2019
H04N 19/423	United States of America	16.02.2018
(11) EP3764642	(47) 02.11.2022	(33) United States of America
(21) EP20194948.4	(51) H04W 12/04	United States of America
(22) 07.09.2012	H04W 36/14	(47) 16.11.2022
(54) IMAGE ENCODING METHOD	H04W 12/041	(51) H04W 24/10
(73) Sun Patent Trust	H04W 36/00	H04W 24/08
(72) WAHADANIAH, Viktor	H04W 60/02	H04W 24/02
LIM, Chong Soon	H04W 48/20	H04L 5/00
NAING, Sue Mon Thet	(11) EP3952375	H04B 7/06
NISHI, Takahiro	(21) EP21196677.5	(11) EP3641380
SASAI, Hisao	(22) 29.01.2018	(21) EP18818031.9
TERADA, Kengo	(54) SECURITY CONTEXT HANDLING IN	(22) 12.06.2018
SHIBAHARA, Youji	5G DURING CONNECTED MODE	(54) CHANNEL MEASUREMENT
MATSUNOBU, Toru	(73) Telefonaktiebolaget LM Ericsson (publ)	PROCESSING METHOD AND DEVICE
SUGIO, Toshiyasu	(72) Jost, Christine	(73) Vivo Mobile Communication Co., Ltd.
TANIKAWA, Kyoko	Norrman, Karl	(72) SUN, Xiaodong
SUN, Hai Wei	Ben Henda, Noamen	YANG, Xiaodong
(74) ir. W.J.J.M. Kempes	Wifvesson, Monica	(74) J.M.H. Duyver lic.
	(74) ir. A. Blokland c.s.	(31) 201710459744

(32) 16.06.2017	(47) 19.10.2022	(73) Samsung Electronics Co., Ltd.
(33) China	(51) H04W 76/27	(72) HONG, Ji-Seon
(47) 09.11.2022	H04W 68/02	CHILAKANT, Veerabhadrapa
(51) H04W 36/00	H04W 76/18	KWON, Jun-Sik
H04W 36/02	(11) EP3818778	LEE, Joo-Hyung
H04W 36/14	(21) EP19848037.8	HAN, Eui-Bum
H04W 76/11	(22) 06.08.2019	(74) dr. R.C. van Duijvenbode c.s.
H04W 40/36	(54) METHODS AND APPARATUSES FOR	(31) 20130104845
H04W 28/02	TRANSMITTING OR RECEIVING	(32) 02.09.2013
(11) EP3759962	SIGNAL IN MOBILE COMMUNICATION	(33) Korea (Republic)
(21) EP19780675.5	SYSTEM	(47) 05.10.2022
(22) 04.04.2019	(73) Samsung Electronics Co., Ltd.	(51) H05B 45/00
(54) METHOD FOR SUPPORTING	(72) HWANG, June	(11) EP3818785
HANDOVER AND CORRESPONDING	KIM, Soenghun	(21) EP19733512.8
BASE STATION AND NETWORK NODE	JUNG, Sangyeob	(22) 01.07.2019
(73) Samsung Electronics Co., Ltd.	(74) dr. R.C. van Duijvenbode c.s.	(54) A CONTROLLER FOR CONFIGURING
(72) XU, Lixiang	(31) 20180115279	A LIGHTING SYSTEM
WANG, Hong	20180091505	(73) Signify Holding B.V.
WANG, Weiwei	(32) 27.09.2018	(72) KRAJNC, Hugo, Jose
(74) dr. R.C. van Duijvenbode c.s.	06.08.2018	VAN DER HEIJDEN, Gerardus,
(31) 201810305259	(33) Korea (Republic)	Wilhelmus, Theodorus
(32) 04.04.2018	Korea (Republic)	(31) 18182185
(33) China	(47) 16.11.2022	(32) 06.07.2018
(47) 16.11.2022	(51) H04W 80/02	(33) European Patent Office (EPO)
(51) H04W 36/02	H04W 72/12	(47) 16.11.2022
H04W 36/28	(11) EP3541036	(51) H05B 45/385
H04W 76/11	(21) EP16921363.4	(11) EP2964000
(11) EP3498037	(22) 09.11.2016	(21) EP15174964.5
(21) EP16759912.5	(54) CONTROL PROTOCOL DATA UNIT	(22) 11.12.2003
(22) 08.08.2016	(PDU) SENDING METHOD AND	(54) LED DRIVER
(54) END MARKER HANDLING FOR	APPARATUS	(73) Signify Holding B.V.
MOBILITY BETWEEN 5G AND LTE	(73) Beijing Xiaomi Mobile Software Co., Ltd.	(72) TRIPATHI, Ajay
(73) Nokia Technologies Oy	(72) JIANG, Xiaowei	CLAUBERG, Bernd
(72) DECARREAU, Guillaume	(74) J.M.H. Duyver lic.	MIN, Young-Kee
SEBIRE, Benoist	(47) 19.10.2022	NARASIMHAN, Raghuram
(74) ir. W.J.J.M. Kempes	(51) H04W 84/12	KHETARPAL, Rohit
(47) 02.11.2022	H04W 48/12	(31) 434550 P
(51) H04W 48/12	H04W 74/00	(32) 19.12.2002
H04W 12/082	H04W 48/16	(33) United States of America
(11) EP3706473	H04W 16/28	(47) 05.10.2022
(21) EP20166982.7	(11) EP3560254	(51) H05B 47/10
(22) 22.12.2011	(21) EP18736648.9	H05B 47/185
(54) EXTENDED ACCESS BARRING	(22) 09.01.2018	H04B 3/54
(73) Intel Corporation	(54) METHOD AND SYSTEM FOR	(11) EP3468307
(72) JAIN, Puneet K.	TRANSMITTING OPERATING	(21) EP18199468.2
FONG, Mo-Han	CHANNEL INDICATORS	(22) 09.10.2018
CHOI, HYUNG-NAM	(73) Huawei Technologies Co., Ltd.	(54) TWO-WIRE LOAD CONTROL SYSTEM
(74) ir. A.R. Aalbers	(72) SUN, Sheng	EXTENSION
(31) 201161522622 P	XIN, Yan	(73) Niko NV
(32) 11.08.2011	(74) ir. W.J.J.M. Kempes	(72) DE BRABANDER, Peter
(33) United States of America	(31) 201715661508	ROMBAUTS, Geert
(47) 28.09.2022	201762444118 P	(74) dr. A. Krebs
(51) H04W 72/12	(32) 27.07.2017	(31) 201705724
H04B 7/06	09.01.2017	(32) 09.10.2017
H04W 88/02	(33) United States of America	(33) Belgium
H04L 5/00	United States of America	(47) 30.11.2022
(11) EP3755099	(47) 28.09.2022	(51) H05B 47/155
(21) EP18917792.6	(51) H04W 88/06	F21V 21/15
(22) 07.05.2018	H04W 76/18	F21W 131/406
(54) METHOD FOR DETERMINING	H04B 17/318	(11) EP3393213
RESOURCE LOCATION, TERMINAL	H04W 76/19	(21) EP18165531.7
APPARATUS, AND NETWORK	H04W 4/80	(22) 03.04.2018
APPARATUS	(11) EP3866558	(54) FOLLOW SPOT CONTROL SYSTEM
(73) GUANGDONG OPPO MOBILE	(21) EP21160287.5	(73) ROBE lighting s.r.o.
TELECOMMUNICATIONS CORP., LTD.	(22) 29.08.2014	(72) Farnik, Martin
(72) SHI, Zhihua	(54) ELECTRONIC DEVICE AND	Jurik, Pavel
(74) ir. W.J.J.M. Kempes	COMMUNICATION CONNECTING	Valchar, Josef
	METHOD THEREOF	Vavrik, Jindrich

Zatopek, Jiri	F25B 13/00
(74) ir. J.D. de Zeeuw	B21D 53/02
(31) 201762480967 P	B23P 15/26
(32) 03.04.2017	F28F 13/08
(33) United States of America	F28D 15/02
(47) 12.10.2022	A61F 7/00
(51) H05B 47/17	A61F 7/02
H05B 47/195	(11) EP3398414
(11) EP3570643	(21) EP16881404.4
(21) EP19172759.3	(22) 27.12.2016
(22) 11.03.2016	(54) VACUUM-BASED THERMAL
(54) A CONFIGURABLE LIGHTING SYSTEM	MANAGEMENT SYSTEM
AND METHOD	(73) Zuta-Core Ltd.
(73) Wiz Connected Lighting Co. Limited	(72) PARNES, Tal
(72) GAL, Jean-Philippe	EADELSON, Nahshon
(47) 16.11.2022	(74) ir. W.J.J.M. Kempes
(51) H05B 47/19	(31) 201562272290 P
(11) EP3925418	(32) 29.12.2015
(21) EP20702841.6	(33) United States of America
(22) 10.02.2020	(47) 19.10.2022
(54) DETERMINING A REACHABILITY	
OF AN ELECTRONIC DEVICE	
OVER MULTIPLE WIRELESS	
COMMUNICATION PROTOCOLS	
(73) Signify Holding B.V.	
(72) TER WEEME, Berend, Jan, Willem	
KRAJNC, Hugo, Jose	
(31) 19157113	
(32) 14.02.2019	
(33) European Patent Office (EPO)	
(47) 12.10.2022	
(51) H05B 47/19	
H05B 45/20	
(11) EP3698082	
(21) EP18868498.9	
(22) 17.10.2018	
(54) METHOD AND SYSTEM FOR	
CONTROLLING FUNCTIONALITY OF	
LIGHTING DEVICES	
(73) Signify Holding B.V.	
(72) WILSON, Brian, M.	
CASPER, Joseph, R.	
NOLAN, Christopher, D.	
(31) 201715786282	
(32) 17.10.2017	
(33) United States of America	
(47) 05.10.2022	
(51) H05B 47/19	
H05B 47/21	
(11) EP3942903	
(21) EP20707292.7	
(22) 06.03.2020	
(54) DIAGNOSING A PROBLEM	
OCCURRING WHEN CONTROLLING	
A LIGHTING DEVICE BASED ON	
LIGHTING DEVICE GROUPING	
INFORMATION	
(73) Signify Holding B.V.	
(72) SQUILLACE, Jorge, Gabriel	
BUYUKSARAC, Serdar	
MAGIELSE, Remco	
WOLTJER, Ludolf, Jan	
(31) 19163507	
(32) 18.03.2019	
(33) European Patent Office (EPO)	
(47) 02.11.2022	
(51) H05K 7/20	

EP4

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

(51) A01M 7/00	A23K 20/189	(32) 22.04.2004
(11) EP3007553	C12N 9/20	(33) United Kingdom
(21) EP14776604.2	C12N 15/80	(47) 27.02.2013
(22) 18.09.2014	C12R 1/885	(51) B42D 25/41
(54) DEVICE FOR DISCHARGING FLUID AND/OR SOLID ACTIVE MATERIALS AND METHOD FOR CONTROLLING SUCH A DEVICE	(11) EP2421963	B42D 25/30
(73) HORSCH LEEB Application Systems GmbH	(21) EP10723329.8	B42D 25/364
(72) LEEB, Theodor	(22) 23.04.2010	B42D 25/47
(31) 102013110304	(54) METHOD OF PRODUCING A LIPOLYTIC ENZYME	B42D 25/21
(32) 18.09.2013	(73) DuPont Nutrition Biosciences ApS	B42D 25/25
(33) Germany	(72) MADRID, Susan M	(11) EP3178660
(47) 01.03.2017	LIN, Cherry	(21) EP15003477.5
(51) A01N 63/00	ZARGAHI, Masoud Rajabi	(22) 07.12.2015
A01N 65/00	LORENTSEN, Rikke Høegh	(54) PERSONALISABLE SECURITY ELEMENT
A61K 35/35	ISAKSEN, Mai Faurischou	(73) Hueck Folien Ges.m.b.H
C12N 5/10	WARD, Michael	(74) ir. H.A. Witmans c.s.
A61K 35/28	(31) 0908770	(72) Mayrhofer, Marco
C12N 5/077	172272 P	(47) 06.02.2019
A23L 13/00	(32) 20.05.2009	(51) B65D 41/34
A61K 35/545	24.04.2009	B65D 55/16
(11) EP3071040	(33) United Kingdom	B65D 41/32
(21) EP14858383.4	United States of America	(11) EP3277598
(22) 30.10.2014	(47) 30.11.2016	(21) EP16773854.1
(54) METHOD FOR SCALABLE SKELETAL MUSCLE LINEAGE SPECIFICATION AND CULTIVATION	(51) A24C 5/32	(22) 25.03.2016
(73) The Curators of the University of Missouri MEMPHIS MEATS, INC.	A24C 5/47	(54) CAP FOR CONTAINER
(74) ir. W.J.J.M. Kempes	B65G 47/84	(73) Maguire, Michael
(72) GENOVESE, Nicholas, J.	(11) EP2696708	(74) dr. A. Krebs
ROBERTS, R., Michael	(21) EP12715582.8	(72) MAGUIRE, Michael
TELUGU, Bhanu, Prakash, V., L.	(22) 02.04.2012	(31) 104110838
(31) 201361962068 P	(54) CONVEYING ROD-LIKE ARTICLES IN THE TOBACCO-PROCESSING INDUSTRY	201514725246
(32) 30.10.2013	(73) Körber Technologies GmbH	(32) 02.04.2015
(33) United States of America	(74) ir. F.A. Geurts c.s.	29.05.2015
(47) 01.01.2020	(72) KALUS, Peter	(33) Taiwan, Province of China
(51) A22C 21/00	ROTTMANN, Franz	United States of America
(11) EP2911520	SCHLISIO, Siegfried	(47) 10.06.2020
(21) EP13786551.5	FOLGER, Manfred	(51) B66F 9/065
(22) 29.10.2013	PLÄHN, Dieter	B66F 9/075
(54) METHOD OF MECHANICALLY REMOVING SKIN FROM ANIMAL PARTS	KLEINE WÄCHTER, Michael	E02F 9/22
(73) Foodmate B.V.	PAWELKO, Karl-Heinz	B62D 6/00
(72) HAZENBROEK, Jacobus Eliza STOOKER, Dirk Cornelis WOLTMAN, Gerrit Hendrik	STÜBER, Reinhard	E02F 3/28
(31) 2009718	(31) 102011007428	E02F 9/26
201313800177	(32) 14.04.2011	(11) EP3356283
(32) 29.10.2012	(33) Germany	(21) EP16790641.1
13.03.2013	(47) 11.10.2017	(22) 30.09.2016
(33) Netherlands	(51) A61K 39/095	(54) VEHICLE WITH A TELESCOPIC ARM
United States of America	A61P 31/04	(73) MANITOU BF
(47) 21.12.2016	(11) EP1737486	(74) ir. W.J.J.M. Kempes
(51) A23L 29/00	(21) EP05733998.8	(72) RIOT, Antoine
	(22) 22.04.2005	CHRISTINY, Mickaël
	(54) IMMUNISING AGAINST MENINGOCOCCAL SEROGROUP Y USING PROTEINS	(31) 1559356
	(73) GlaxoSmithKline Biologicals S.A.	(32) 01.10.2015
	(74) ir. F.A. Geurts c.s.	(33) France
	(72) Contorni, Mario	(47) 03.07.2019
	Giuliani, Marzia	(51) C08L 29/00
	Pizza, Mariagrazia	B65D 85/804
	(31) 0408977	B65D 73/00
		(11) EP3411436
		(21) EP17703936.9
		(22) 01.02.2017

- (54) FOODCONTAINER IMPERMEABLE
TO OXYGEN, METHOD, USE AND
PACKAGING MATERIAL
- (73) Kuhl, Norbert
Wassmer, Martin
- (74) ir. H.A. Witmans c.s.
- (72) Kuhl, Norbert
Wassmer, Martin
- (31) 102016201498
- (32) 01.02.2016
- (33) Germany
- (47) 18.09.2019
-
- (51) C12R 1/25
A23C 19/11
A23L 3/3463
C12N 1/20
A23L 33/135
A23C 19/032
- (11) EP2543255
- (21) EP11172596.6
- (22) 04.07.2011
- (54) Anti-listerial mixed culture and method for
producing cheese
- (73) CSK Food Enrichment B.V.
- (74) ir. M.F.J.M. Ketelaars c.s.
- (72) Griffin, Carmel
Mills, Susan
Ross, Paul
Meijer, Willem Cornelis
Serrano Davalos, Lourdes Mariela
- (47) 30.10.2019
-
- (51) E21B 7/02
E02F 9/22
E02F 3/36
B60D 1/64
F16L 39/00
B60D 1/62
- (11) EP2902582
- (21) EP14153090.7
- (22) 29.01.2014
- (54) Mast assembly and method for
connecting a tool unit to the mast
carriage of a mast assembly
- (73) BAUER Maschinen GmbH
- (72) Otto, Hans-Philipp
Kraus, Wolfgang
- (47) 06.04.2016
-

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) A23K 20/111 A23K 10/30 A23K 10/37 A23K 50/10	(21) EP15002837.1 (22) 27.08.2008 (54) CATHETER DEVICE (73) AIS GMBH AACHEN INNOVATIVE SOLUTIONS	HIGH MOLECULAR WEIGHT TARGET ANTIGENS (73) Amgen Research (Munich) GmbH (72) BLÜMEL, Claudia KISCHEL, Roman KUFER, Peter
(11) EP1843667 (21) EP06709242.9 (22) 03.02.2006 (54) FOOD ADDITIVE FOR RUMINANTS BASED ON EUGENOL AND CINNAMALDEHYDE	(72) Schmitz-Rode, Thomas Günther, Rolf W. Pfeffer, Joachim Georg (74) ir. H.Th. van den Heuvel c.s.	(74) ir. A.R. Aalbers (31) 101933 P (32) 01.10.2008 (33) United States of America (47) 13.04.2016
(73) PANCOSMA FRANCE S.A.S. Archer-Daniels-Midland Company	(31) 07019658 (32) 08.10.2007 (33) European Patent Office (EPO) (47) 10.05.2017	(51) C22F 1/04 C22F 1/047 C22C 21/06 C22C 21/00 B41N 1/08
(72) GAUTIER, François CALSAMIGLIA, Sergio DOANE, Perry KAMEL, Christopher	(51) A61M 27/00 A61M 1/00 A61F 13/00	(11) EP2067871 (21) EP07023245.9 (22) 30.11.2007 (54) Aluminium strip for lithographic pressure plate carriers and its manufacture
(74) ir. F.A. Geurts c.s. (31) 0501489 (32) 03.02.2005 (33) France (47) 25.05.2016	(11) EP2959933 (21) EP15170887.2 (22) 13.03.2009 (54) VACUUM SYSTEM WITH VACUUM PORT FOR VACUUM WOUND THERAPY	(73) Speira GmbH (72) Kernig, Bernhard Hasenclever, Jochen Steinhoff, Gerd Brinkman, Henk-Jan Settele, Christoph (74) ir. J.C. Volmer c.s. (47) 20.02.2013
(51) A61K 31/55 A61K 31/137 A61P 25/24 A61K 45/06	(73) Smith & Nephew, Inc. (72) Vitaris, Bethany, A. (74) ir. J.D. de Zeeuw (31) 36275 P (32) 13.03.2008 (33) United States of America (47) 09.10.2019	
(11) EP2683245 (21) EP12755254.5 (22) 06.03.2012 (54) METHODS AND COMPOSITIONS FOR TREATING DEPRESSION USING CYCLOBENZAPRINE	(51) C07H 15/207 A23L 2/60 A24B 15/40 A61K 8/60 A61Q 11/00 C07H 15/24 A23L 27/10 A23L 27/30	
(73) Tonix Pharma Holdings Limited (72) LEDERMAN, Seth (74) dr. R.C. van Duijvenbode c.s. (31) 201161449838 P (32) 07.03.2011 (33) United States of America (47) 25.12.2019	(11) EP2651958 (21) EP11848181.1 (22) 13.12.2011 (54) GLYCOSIDE BLENDS (73) Cargill, Incorporated (72) MORTENSON, Michael LINDGREN, Timothy CARLSON, Ting Liu GUTHRIE, Brian D.	
(51) A61M 1/10 A61M 1/12	(74) ir. W.J.J.M. Kempes (31) 422523 P (32) 13.12.2010 (33) United States of America (47) 03.07.2019	
(11) EP3000492 (21) EP15002836.3 (22) 27.08.2008 (54) CATHETER DEVICE (73) AIS GMBH AACHEN INNOVATIVE SOLUTIONS	(51) C07K 16/08 (11) EP2352763 (21) EP09736398.0 (22) 01.10.2009 (54) BISPECIFIC SINGLE CHAIN ANTIBODIES WITH SPECIFICITY FOR	
(72) Pfeffer, Joachim Georg Schmitz-Rode, Thomas Günther, Rolf W. (74) ir. H.Th. van den Heuvel c.s. (31) 07019658 (32) 08.10.2007 (33) European Patent Office (EPO) (47) 22.03.2017		
(51) A61M 1/10 A61M 1/12 (11) EP3000493		

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

- (21) 300588
(22) 22.12.2022
(11) 300588
(71) REGENERON PHARMACEUTICALS,
INC.
REGENERON PHARMACEUTICALS,
INC.
(74) dr. ir. G.J.C. Verdijck c.s.
dr. ir. G.J.C. Verdijck c.s.
(68) EP1183353
(54) Gemodificeerde chimere polypeptiden
met verbeterde farmacokinetische
eigenschappen.
(94) 1826
(95) aflibercept.
(93) EU/1/12/797/001-002 22.11.2012
-
- (21) 301211
(22) 20.12.2022
(11) 301211
(74) ir. H.A. Witmans c.s.
(68) EP3482767
(54) DOSE ESCALATION ENZYME
REPLACEMENT THERAPY FOR
TREATING ACID SPHINGOMYELINASE
DEFICIENCY
(94) 1826
(95) Olipudase alfa
(93) EU/1/22/1659 27.06.2022
-

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) EP2723531	H05B 6/12
(51) B24D 3/28	(00) 09/22
B24D 3/08	02.03.2022
C09K 3/14	
C09C 1/68	
(00) 08/22	
23.02.2022	
(11) EP2959894	
(51) A61K 31/137	
A61P 37/06	
A61K 31/397	
(00) 41/22	
12.10.2022	
(11) EP3113774	
(51) A61K 31/64	
A61P 29/00	
A61K 9/20	
C07D 487/04	
(00) 21.12.2022	
(00) 04/22	
26.01.2022	
(00) Restoration of rights	
(00) Elanco Animal Health Incorporated	
(11) EP3347401	
(51) C08G 63/181	
C08G 63/80	
C08G 63/88	
(00) 08/22	
23.02.2022	
(11) EP3426606	
(51) C02F 1/38	
C02F 1/40	
C02F 103/22	
C02F 103/32	
C02F 1/02	
(00) 21.12.2022	
(00) 51/21	
22.12.2021	
(00) Restoration of rights	
(00) Physichem Ltd	
(11) EP3442729	
(51) B22F 10/14	
C22C 1/05	
C22C 29/06	
B33Y 10/00	
B33Y 70/10	
B33Y 40/20	
(00) 08/22	
23.02.2022	
(11) EP3694349	
(51) A24F 40/30	
A24F 40/50	
A61M 15/06	
A61M 11/04	
(00) 08/22	
23.02.2022	
(11) EP3700297	
(51) H05B 6/06	

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) 301095	(51) C09J 7/40
(00) 12/22	(11) EP3313207
23.03.2022	(51) A23L 33/10
(00) 23.12.2022	A23L 33/155
(00) Not Accepted	A23L 33/175
(11) 301137	A23L 33/19
(00) 14/22	(11) EP3364753
06.04.2022	(51) A01F 25/16
(00) 23.12.2022	A01F 25/20
(00) Not Accepted	A01K 5/00
(11) EP2215072	(11) EP3454710
(51) A61K 31/381	(51) A47L 9/14
A61P 25/00	(00) 22/22
C07D 333/20	01.06.2022
(00) 24/16	(11) EP3523493
15.06.2016	(51) E05D 13/00
(11) EP2353542	E05D 15/06
(51) A61C 5/10	E05F 1/16
A61C 13/00	E05F 5/00
A61C 13/09	(11) EP3544563
A61K 6/00	(51) A61F 13/15
C04B 33/14	A61F 13/49
C04B 35/486	A61F 13/496
C04B 35/488	(00) 24/22
C04B 35/628	15.06.2022
(00) 14/17	(11) EP3557244
05.04.2017	(51) B06B 1/02
(11) EP2356153	G01N 29/24
(51) A61K 39/00	(00) 11/22
C07K 16/22	16.03.2022
C07K 16/28	(00) 22.12.2022
C07K 16/30	(00) Positive
C07K 16/40	(11) EP3575655
(00) 11/17	(51) B60R 16/08
15.03.2017	B60T 17/04
(11) EP3043797	F16L 3/13
(51) A61K 9/19	(00) 28/21
A61K 31/431	14.07.2021
A61K 31/546	
A61P 31/00	
A61P 43/00	
(00) 04/21	
27.01.2021	
(11) EP3044231	
(51) A61K 48/00	
C07K 14/755	
C12N 15/86	
(00) 26/21	
30.06.2021	
(00) 22.12.2022	
(00) Positive	
(11) EP3134756	
(51) G02B 5/08	
(00) 28/18	
04.07.2018	
(11) EP3186325	

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

(11) 2027966	(11) EP3007553
(00) 16.12.2022	(51) A01M 7/00
(51) G01N 1/10	(11) EP3010831
G01N 35/10	(51) A61B 7/02
(11) 2031687	(11) EP3071040
(00) 13.12.2022	(51) A01N 63/00
(51) E02D 17/02	A01N 65/00
E02D 17/20	A61K 35/35
(00) Based on request sender	C12N 5/10
(11) 2031687	A61K 35/28
(00) 13.12.2022	C12N 5/077
(51) E02D 17/02	A23L 13/00
E02D 17/20	A61K 35/545
(11) 2033296	(11) EP3178660
(00) 13.12.2022	(51) B42D 25/41
(51) A61M 5/178	B42D 25/30
(11) EP1737486	B42D 25/364
(51) A61K 39/095	B42D 25/47
A61P 31/04	B42D 25/21
(11) EP2262408	B42D 25/25
(00) 13.12.2022	(11) EP3277598
(51) A61B 1/005	(51) B65D 41/34
A61B 17/00	B65D 55/16
A61M 25/00	B65D 41/32
A61M 25/01	(11) EP3356283
(00) Total - Renunciation	(51) B66F 9/065
(11) EP2273911	B66F 9/075
(00) 13.12.2022	E02F 9/22
(51) A61B 1/00	B62D 6/00
A61B 1/005	E02F 3/28
A61B 17/00	E02F 9/26
A61M 25/00	(11) EP3391991
A61M 25/01	(51) B23Q 1/00
(00) Total - Renunciation	B23Q 17/00
(11) EP2421963	(11) EP3411436
(51) A23L 29/00	(51) C08L 29/00
A23K 20/189	B65D 85/804
C12N 9/20	B65D 73/00
C12N 15/80	
C12R 1/885	
(11) EP2543255	
(51) C12R 1/25	
A23C 19/11	
A23L 3/3463	
C12N 1/20	
A23L 33/135	
A23C 19/032	
(11) EP2696708	
(51) A24C 5/32	
A24C 5/47	
B65G 47/84	
(11) EP2902582	
(51) E21B 7/02	
E02F 9/22	
E02F 3/36	
B60D 1/64	
F16L 39/00	
B60D 1/62	
(11) EP2911520	
(51) A22C 21/00	

VRV

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

(11) 2030230	(00) Patent Expired	(00) European Patent got Revoked
(00) 29.11.2022	(11) EP1461361	(11) EP2264437
(00) Application Withdrawn	(00) 23.12.2022	(00) 24.08.2022
(11) EP1323464	(00) Patent Expired	(00) EPV Ceased Effect
(00) 23.12.2022	(11) EP1461394	(11) EP2271218
(00) Patent Expired	(00) 23.12.2022	(00) 16.11.2022
(11) EP1323483	(00) Patent Expired	(00) European Patent got Revoked
(00) 23.12.2022	(11) EP1461550	(11) EP2277889
(00) Patent Expired	(00) 24.12.2022	(00) 23.12.2022
(11) EP1323695	(00) Patent Expired	(00) Patent Expired
(00) 23.12.2022	(11) EP1461942	(11) EP2299436
(00) Patent Expired	(00) 27.12.2022	(00) 24.12.2022
(11) EP1323745	(00) Patent Expired	(00) Patent Expired
(00) 24.12.2022	(11) EP1464172	(11) EP2301054
(00) Patent Expired	(00) 23.12.2022	(00) 24.08.2022
(11) EP1323765	(00) Patent Expired	(00) EPV Ceased Effect
(00) 23.12.2022	(11) EP1465889	(11) EP2306173
(00) Patent Expired	(00) 23.12.2022	(00) 08.11.2022
(11) EP1326197	(00) Patent Expired	(00) European Patent got Revoked
(00) 27.12.2022	(11) EP1466058	(11) EP2311509
(00) Patent Expired	(00) 27.12.2022	(00) 12.06.2019
(11) EP1326408	(00) Patent Expired	(00) EPV Ceased Effect
(00) 23.12.2022	(11) EP1467993	(11) EP2340429
(00) Patent Expired	(00) 24.12.2022	(00) 24.08.2022
(11) EP1329562	(00) Patent Expired	(00) EPV Ceased Effect
(00) 24.12.2022	(11) EP1468925	(11) EP2340452
(00) Patent Expired	(00) 27.12.2022	(00) 24.08.2022
(11) EP1338551	(00) Patent Expired	(00) EPV Ceased Effect
(00) 23.12.2022	(11) EP1469010	(11) EP2343562
(00) Patent Expired	(00) 24.12.2022	(00) 24.08.2022
(11) EP1353318	(00) Patent Expired	(00) EPV Ceased Effect
(00) 24.12.2022	(11) EP1470352	(11) EP2352966
(00) Patent Expired	(00) 27.12.2022	(00) 24.08.2022
(11) EP1362246	(00) Patent Expired	(00) EPV Ceased Effect
(00) 26.12.2022	(11) EP1636749	(11) EP2355869
(00) Patent Expired	(00) 24.08.2022	(00) 24.08.2022
(11) EP1433377	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(00) 23.12.2022	(11) EP1647339	(11) EP2402213
(00) Patent Expired	(00) 23.12.2022	(00) 24.08.2022
(11) EP1433727	(00) Patent Expired	(00) EPV Ceased Effect
(00) 23.12.2022	(11) EP1793569	(11) EP2409744
(00) Patent Expired	(00) 23.12.2022	(00) 24.08.2022
(11) EP1447356	(00) Patent Expired	(00) EPV Ceased Effect
(00) 24.12.2022	(11) EP1804356	(11) EP2449844
(00) Patent Expired	(00) 24.08.2022	(00) 07.11.2012
(11) EP1455577	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(00) 23.12.2022	(11) EP1990630	(11) EP2486194
(00) Patent Expired	(00) 24.08.2022	(00) 24.08.2022
(11) EP1456364	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(00) 23.12.2022	(11) EP2018100	(11) EP2487166
(00) Patent Expired	(00) 18.11.2022	(00) 05.07.2022
(11) EP1456383	(00) European Patent got Revoked	(00) European Patent got Revoked
(00) 23.12.2022	(11) EP2138258	(11) EP2512360
(00) Patent Expired	(00) 24.08.2022	(00) 24.08.2022
(11) EP1458910	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(00) 27.12.2022	(11) EP2142048	(11) EP2526041
(00) Patent Expired	(00) 24.08.2022	(00) 24.08.2022
(11) EP1460056	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(00) 27.12.2022	(11) EP2258820	(11) EP2532460
	(00) 12.05.2022	(00) 24.08.2022

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2535310	(11) EP2798042	(11) EP2883492
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2538136	(11) EP2799196	(11) EP2886209
(00) 24.08.2022	(00) 18.11.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) European Patent got Revoked	(00) EPV Ceased Effect
(11) EP2539493	(11) EP2805808	(11) EP2886215
(00) 07.07.2022	(00) 24.08.2022	(00) 24.08.2022
(00) European Patent got Revoked	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2545373	(11) EP2810118	(11) EP2889279
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2566315	(11) EP2813218	(11) EP2891525
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2622853	(11) EP2819090	(11) EP2892178
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2623216	(11) EP2819115	(11) EP2899855
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2629741	(11) EP2820173	(11) EP2905958
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2631031	(11) EP2832302	(11) EP2910061
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2653906	(11) EP2840978	(11) EP2911666
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2668475	(11) EP2842510	(11) EP2912691
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2673702	(11) EP2847130	(11) EP2914827
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2681660	(11) EP2854687	(11) EP2915192
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2719097	(11) EP2856634	(11) EP2917229
(00) 24.08.2022	(00) 24.08.2022	(00) 29.03.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) European Patent got Revoked
(11) EP2726152	(11) EP2856943	(11) EP2939795
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2738824	(11) EP2857969	(11) EP2940784
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2749390	(11) EP2858874	(11) EP2942508
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2757994	(11) EP2863560	(11) EP2943832
(00) 21.01.2015	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2758312	(11) EP2865575	(11) EP2944800
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2763116	(11) EP2876015	(11) EP2951375
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2767528	(11) EP2881537	(11) EP2953326
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2774736	(11) EP2882067	(11) EP2960706
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) European Patent got Revoked
(11) EP2963513	(11) EP3015806	(11) EP3080463
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2969403	(11) EP3027631	(11) EP3081877
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2969405	(11) EP3029727	(11) EP3084932
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2969902	(11) EP3034043	(11) EP3087267
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2971257	(11) EP3042096	(11) EP3087657
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2971383	(11) EP3043126	(11) EP3089853
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2974093	(11) EP3043324	(11) EP3091433
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2974709	(11) EP3044063	(11) EP3092831
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2975666	(11) EP3047942	(11) EP3098439
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2976943	(11) EP3048325	(11) EP3098592
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2977965	(11) EP3049486	(11) EP3100829
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2979099	(11) EP3052037	(11) EP3104208
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2993191	(11) EP3055888	(11) EP3108614
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2993478	(11) EP3059371	(11) EP3112864
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2996547	(11) EP3060366	(11) EP3113950
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2996587	(11) EP3062825	(11) EP3117180
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2998288	(11) EP3063893	(11) EP3118833
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3002317	(11) EP3066236	(11) EP3124549
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3003173	(11) EP3069502	(11) EP3125604
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3006131	(11) EP3070604	(11) EP3128712
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3006612	(11) EP3073129	(11) EP3133197
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3010866	(11) EP3079714	(11) EP3134348
(00) 24.08.2022	(00) 22.08.2022	(00) 24.08.2022

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3134802	(11) EP3168980	(11) EP3212835
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3135755	(11) EP3170011	(11) EP3215457
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3137040	(11) EP3171938	(11) EP3216454
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3142441	(11) EP3173185	(11) EP3217498
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3143383	(11) EP3173217	(11) EP3218311
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3144105	(11) EP3174854	(11) EP3223337
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3145259	(11) EP3175391	(11) EP3223389
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3146468	(11) EP3176253	(11) EP3223676
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3146681	(11) EP3179970	(11) EP3226633
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3147136	(11) EP3182267	(11) EP3226713
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3149610	(11) EP3186306	(11) EP3227112
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3150049	(11) EP3186419	(11) EP3227519
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3152560	(11) EP3189511	(11) EP3227620
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3153268	(11) EP3191368	(11) EP3229459
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3154809	(11) EP3192496	(11) EP3230558
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3155868	(11) EP3200095	(11) EP3231837
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3158526	(11) EP3200178	(11) EP3231921
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3162551	(11) EP3200931	(11) EP3231922
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3163646	(11) EP3204682	(11) EP3232661
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3165990	(11) EP3204950	(11) EP3234257
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3166029	(11) EP3205787	(11) EP3236355
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3168553	(11) EP3210084	(11) EP3237057
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3238785	(11) EP3266033	(11) EP3299300
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3239082	(11) EP3267576	(11) EP3303848
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3239866	(11) EP3268682	(11) EP3304304
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3240033	(11) EP3271074	(11) EP3304842
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3240437	(11) EP3272284	(11) EP3308101
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3240540	(11) EP3273930	(11) EP3308442
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3240742	(11) EP3275745	(11) EP3308979
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3240743	(11) EP3281148	(11) EP3311366
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3243148	(11) EP3282360	(11) EP3311450
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3244305	(11) EP3283195	(11) EP3315926
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3244843	(11) EP3288850	(11) EP3318993
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3248866	(11) EP3289834	(11) EP3320034
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3249682	(11) EP3290158	(11) EP3320602
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3252901	(11) EP3290495	(11) EP3321115
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3254371	(11) EP3291294	(11) EP3321241
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3255938	(11) EP3292612	(11) EP3323504
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3260477	(11) EP3292950	(11) EP3324234
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3261184	(11) EP3295381	(11) EP3327335
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3261240	(11) EP3296324	(11) EP3328176
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3262286	(11) EP3296828	(11) EP3328691
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3262765	(11) EP3297916	(11) EP3328877
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3263890	(11) EP3298324	(11) EP3329131
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3329351	(11) EP3353922	(11) EP3383658
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3329769	(11) EP3354239	(11) EP3383847
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3334178	(11) EP3354647	(11) EP3384340
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3334229	(11) EP3357625	(11) EP3384800
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3336745	(11) EP3363469	(11) EP3385912
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3338611	(11) EP3364574	(11) EP3386279
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3339682	(11) EP3365963	(11) EP3387005
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3340548	(11) EP3367059	(11) EP3390316
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3342067	(11) EP3370391	(11) EP3391531
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3342119	(11) EP3371993	(11) EP3392071
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3342204	(11) EP3372133	(11) EP3392150
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3345162	(11) EP3372465	(11) EP3392631
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3346674	(11) EP3374804	(11) EP3393378
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3346985	(11) EP3375381	(11) EP3394657
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3349061	(11) EP3376025	(11) EP3394792
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3350241	(11) EP3376051	(11) EP3394894
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3350356	(11) EP3376358	(11) EP3398114
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3351312	(11) EP3377137	(11) EP3398127
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3351490	(11) EP3379288	(11) EP3398974
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3351991	(11) EP3380798	(11) EP3399060
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3353097	(11) EP3381050	(11) EP3399217
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3353326	(11) EP3383271	(11) EP3400143
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3400266	(11) EP3410651	(11) EP3428118
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3400999	(11) EP3411344	(11) EP3428349
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3401544	(11) EP3413465	(11) EP3428452
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3403564	(11) EP3418610	(11) EP3429186
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3403785	(11) EP3416268	(11) EP3429302
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3404890	(11) EP3417207	(11) EP3429737
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3404960	(11) EP3418199	(11) EP3432498
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3404964	(11) EP3418699	(11) EP3432527
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3405389	(11) EP3418710	(11) EP3433052
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3406023	(11) EP3418829	(11) EP3433267
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3406942	(11) EP3419358	(11) EP3433510
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3407311	(11) EP3422921	(11) EP3434172
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3407834	(11) EP3423215	(11) EP3434200
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3408505	(11) EP3423235	(11) EP3434368
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3408611	(11) EP3425487	(11) EP3435192
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3408846	(11) EP3425741	(11) EP3435385
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3409940	(11) EP3425764	(11) EP3436903
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3410101	(11) EP3425766	(11) EP3437012
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3410128	(11) EP3426174	(11) EP3437152
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3410474	(11) EP3426344	(11) EP3437213
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3410486	(11) EP3427784	(11) EP3438236
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3410507	(11) EP3428115	(11) EP3438932
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3440571	(11) EP3455351	(11) EP3470495
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3440582	(11) EP3456532	(11) EP3470856
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3440821	(11) EP3457752	(11) EP3470975
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3441032	(11) EP3458183	(11) EP3471876
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3442487	(11) EP3458335	(11) EP3471999
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3443635	(11) EP3458677	(11) EP3472617
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3443697	(11) EP3458877	(11) EP3472670
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3443912	(11) EP3458919	(11) EP3472734
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3445259	(11) EP3459149	(11) EP3473391
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3446577	(11) EP3459499	(11) EP3474430
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3447000	(11) EP3459851	(11) EP3475528
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3447326	(11) EP3460614	(11) EP3478139
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3447422	(11) EP3460624	(11) EP3478300
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3448490	(11) EP3461097	(11) EP3482735
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3449570	(11) EP3461128	(11) EP3482739
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3450893	(11) EP3461663	(11) EP3483966
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3451414	(11) EP3461854	(11) EP3484209
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3451519	(11) EP3461923	(11) EP3485075
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3452346	(11) EP3462199	(11) EP3485550
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3453364	(11) EP3468921	(11) EP3485780
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3453729	(11) EP3469324	(11) EP3485989
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3455280	(11) EP3469640	(11) EP3486177
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3486533	(11) EP3503142	(11) EP3517985
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3487220	(11) EP3503241	(11) EP3519753
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3487984	(11) EP3503935	(11) EP3520248
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3489697	(11) EP3504715	(11) EP3520290
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3490028	(11) EP3505029	(11) EP3520496
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3490374	(11) EP3505981	(11) EP3522462
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3491048	(11) EP3506212	(11) EP3523144
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3491961	(11) EP3507156	(11) EP3523584
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3492258	(11) EP3508049	(11) EP3524957
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3492288	(11) EP3508934	(11) EP3525281
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3492548	(11) EP3509065	(11) EP3525411
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3492966	(11) EP3509153	(11) EP3526067
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3493503	(11) EP3511280	(11) EP3526082
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3493840	(11) EP3512905	(11) EP3526514
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3493945	(11) EP3513008	(11) EP3526870
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3494276	(11) EP3514104	(11) EP3527118
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3495187	(11) EP3515116	(11) EP3527385
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3495242	(11) EP3516448	(11) EP3527496
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3495836	(11) EP3517445	(11) EP3527703
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3500382	(11) EP3517482	(11) EP3528509
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3502456	(11) EP3517860	(11) EP3530164
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3503027	(11) EP3517863	(11) EP3531193
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3531398	(11) EP3545606	(11) EP3557214
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3531454	(11) EP3545679	(11) EP3557680
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3533220	(11) EP3545757	(11) EP3558642
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3534560	(11) EP3545813	(11) EP3559003
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3534917	(11) EP3546128	(11) EP3559215
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3535620	(11) EP3547142	(11) EP3559795
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3536730	(11) EP3547298	(11) EP3559885
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3536977	(11) EP3547442	(11) EP3560947
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3537291	(11) EP3547535	(11) EP3561163
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3537308	(11) EP3547755	(11) EP3561416
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3537802	(11) EP3548403	(11) EP3563713
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3538487	(11) EP3549628	(11) EP3564659
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3539586	(11) EP3549743	(11) EP3565469
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3540473	(11) EP3550811	(11) EP3566511
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3541640	(11) EP3550819	(11) EP3567610
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3541703	(11) EP3550888	(11) EP3567694
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3541721	(11) EP3551297	(11) EP3567773
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3542814	(11) EP3551493	(11) EP3568254
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3542982	(11) EP3551927	(11) EP3568263
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3543363	(11) EP3553376	(11) EP3569446
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3544228	(11) EP3553459	(11) EP3569592
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3545022	(11) EP3555665	(11) EP3570464
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3570631	(11) EP3586002	(11) EP3594510
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3571417	(11) EP3587198	(11) EP3595089
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3573262	(11) EP3587932	(11) EP3595101
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3573868	(11) EP3588148	(11) EP3595115
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3575008	(11) EP3588761	(11) EP3595355
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3575436	(11) EP3589061	(11) EP3595390
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3576424	(11) EP3589516	(11) EP3595472
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3577172	(11) EP3589533	(11) EP3597305
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3577320	(11) EP3589680	(11) EP3597745
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3577354	(11) EP3589816	(11) EP3597789
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3577724	(11) EP3589986	(11) EP3597820
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3578303	(11) EP3590153	(11) EP3597965
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3579775	(11) EP3591262	(11) EP3597990
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3580187	(11) EP3591647	(11) EP3598011
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3580463	(11) EP3592045	(11) EP3598182
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3580676	(11) EP3592784	(11) EP3598226
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3581901	(11) EP3593350	(11) EP3598306
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3583759	(11) EP3593373	(11) EP3598773
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3584262	(11) EP3593567	(11) EP3598882
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3584565	(11) EP3593586	(11) EP3599170
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3585229	(11) EP3594063	(11) EP3599350
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3585230	(11) EP3594105	(11) EP3601116
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3602021	(11) EP3618468	(11) EP3633900
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3602149	(11) EP3619706	(11) EP3634048
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3603040	(11) EP3620605	(11) EP3634114
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3603377	(11) EP3620823	(11) EP3634689
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3605008	(11) EP3621753	(11) EP3636112
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3606161	(11) EP3621807	(11) EP3636120
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3607858	(11) EP3622189	(11) EP3636815
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3608478	(11) EP3622307	(11) EP3638957
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3608607	(11) EP3622389	(11) EP3639376
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3609040	(11) EP3623601	(11) EP3641972
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3609302	(11) EP3624320	(11) EP3642045
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3609976	(11) EP3625069	(11) EP3643915
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3610614	(11) EP3626961	(11) EP3644515
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3611343	(11) EP3627543	(11) EP3644700
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3611846	(11) EP3628371	(11) EP3645148
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3612650	(11) EP3628793	(11) EP3645905
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3613199	(11) EP3628996	(11) EP3645954
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3614986	(11) EP3629108	(11) EP3645983
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3615341	(11) EP3629180	(11) EP3646991
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3615342	(11) EP3629704	(11) EP3647371
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3615720	(11) EP3631247	(11) EP3647504
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3616729	(11) EP3633707	(11) EP3647505
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3647953	(11) EP3658312	(11) EP3671410
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3648183	(11) EP3658429	(11) EP3671911
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3649492	(11) EP3660589	(11) EP3672068
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3649773	(11) EP3660863	(11) EP3672135
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3649844	(11) EP3661657	(11) EP3672312
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3649863	(11) EP3662314	(11) EP3672547
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3650257	(11) EP3662718	(11) EP3673011
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3651298	(11) EP3662741	(11) EP3674176
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3651719	(11) EP3662943	(11) EP3674206
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3652846	(11) EP3663280	(11) EP3674564
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3653240	(11) EP3663625	(11) EP3675357
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3653503	(11) EP3663635	(11) EP3675585
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3654023	(11) EP3663706	(11) EP3676101
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3654039	(11) EP3664094	(11) EP3676109
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3654230	(11) EP3664550	(11) EP3676318
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3654732	(11) EP3664987	(11) EP3677521
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3655297	(11) EP3666705	(11) EP3678280
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3656320	(11) EP3667875	(11) EP3678733
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3656521	(11) EP3669394	(11) EP3678737
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3657261	(11) EP3669637	(11) EP3680139
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3657431	(11) EP3670929	(11) EP3680317
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3657981	(11) EP3670951	(11) EP3681181
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3682214	(11) EP3692487	(11) EP3702117
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3682330	(11) EP3693241	(11) EP3702357
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3682979	(11) EP3693280	(11) EP3702616
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3683210	(11) EP3693644	(11) EP3702647
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3683400	(11) EP3693861	(11) EP3702899
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3683503	(11) EP3694148	(11) EP3703078
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3683600	(11) EP3694266	(11) EP3703268
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3683844	(11) EP3694288	(11) EP3704622
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3683912	(11) EP3694891	(11) EP3704861
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3685495	(11) EP3695970	(11) EP3705375
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3685541	(11) EP3696092	(11) EP3705663
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3686015	(11) EP3696662	(11) EP3706352
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3686455	(11) EP3696848	(11) EP3706374
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3687063	(11) EP3696950	(11) EP3706592
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3688266	(11) EP3697038	(11) EP3707485
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3689070	(11) EP3699487	(11) EP3707756
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3690525	(11) EP3699652	(11) EP3707854
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3690575	(11) EP3700072	(11) EP3707985
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3690595	(11) EP3700149	(11) EP3708368
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3691108	(11) EP3700615	(11) EP3708408
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3691138	(11) EP3700697	(11) EP3708448
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3692015	(11) EP3701693	(11) EP3708784
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3708791	(11) EP3717154	(11) EP3729410
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3708810	(11) EP3717543	(11) EP3730041
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3708841	(11) EP3718880	(11) EP3730200
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3709138	(11) EP3719547	(11) EP3730330
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3709379	(11) EP3720544	(11) EP3730675
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3710005	(11) EP3721697	(11) EP3731892
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3710635	(11) EP3722178	(11) EP3732999
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3711234	(11) EP3725014	(11) EP3733316
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3711865	(11) EP3725611	(11) EP3733886
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3711877	(11) EP3725618	(11) EP3734134
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3712458	(11) EP3725656	(11) EP3736007
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3712568	(11) EP3725836	(11) EP3736076
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3713663	(11) EP3726039	(11) EP3736264
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3714840	(11) EP3726089	(11) EP3736548
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3715639	(11) EP3726157	(11) EP3736966
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3715658	(11) EP3726312	(11) EP3738456
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3715761	(11) EP3726325	(11) EP3739271
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3715969	(11) EP3727887	(11) EP3739448
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3716126	(11) EP3727891	(11) EP3739640
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3716414	(11) EP3728786	(11) EP3739794
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3716538	(11) EP3729120	(11) EP3741575
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3716605	(11) EP3729310	(11) EP3742131
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3777030	(11) EP3792618	(11) EP3806190
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3778105	(11) EP3793895	(11) EP3806402
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3779290	(11) EP3794324	(11) EP3807008
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3779602	(11) EP3795368	(11) EP3807551
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3779707	(11) EP3795491	(11) EP3807573
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3780104	(11) EP3795775	(11) EP3807909
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3780729	(11) EP3795997	(11) EP3808597
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3781379	(11) EP3796112	(11) EP3810438
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3781567	(11) EP3796113	(11) EP3810949
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3781611	(11) EP3796349	(11) EP3810974
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3782795	(11) EP3798341	(11) EP3812701
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3782937	(11) EP3798370	(11) EP3814054
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3783868	(11) EP3798462	(11) EP3814652
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3785954	(11) EP3799250	(11) EP3814793
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3786020	(11) EP3799934	(11) EP3815473
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3786072	(11) EP3802146	(11) EP3815500
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3787742	(11) EP3802389	(11) EP3815854
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3787865	(11) EP3804202	(11) EP3816324
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3787933	(11) EP3805060	(11) EP3816343
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3788736	(11) EP3805241	(11) EP3816400
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3791958	(11) EP3805693	(11) EP3817009
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3792604	(11) EP3806152	(11) EP3817337
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3817925	(11) EP3825626	(11) EP3836235
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3817939	(11) EP3826993	(11) EP3836522
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3817993	(11) EP3827154	(11) EP3837179
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3818770	(11) EP3827505	(11) EP3837981
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3819036	(11) EP3827525	(11) EP3838337
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3819289	(11) EP3827628	(11) EP3838615
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3819416	(11) EP3828398	(11) EP3838659
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3820750	(11) EP3828471	(11) EP3838770
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3821648	(11) EP3829289	(11) EP3839256
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3822147	(11) EP3829793	(11) EP3839313
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3822185	(11) EP3829794	(11) EP3839462
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3822199	(11) EP3829941	(11) EP3839979
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3822447	(11) EP3831091	(11) EP3840144
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3822551	(11) EP3831126	(11) EP3841550
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3822714	(11) EP3831301	(11) EP3841618
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3823306	(11) EP3831616	(11) EP3841854
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3823720	(11) EP3831670	(11) EP3842447
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3823858	(11) EP3833671	(11) EP3842564
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3823947	(11) EP3834909	(11) EP3843950
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3824273	(11) EP3835612	(11) EP3843999
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3824755	(11) EP3835822	(11) EP3844388
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3825386	(11) EP3836198	(11) EP3847006
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3847080	(11) EP3863235	(11) EP3872642
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3848713	(11) EP3863898	(11) EP3873656
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3849135	(11) EP3863992	(11) EP3875753
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3849142	(11) EP3864305	(11) EP3876046
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3849876	(11) EP3865185	(11) EP3877234
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3850239	(11) EP3865532	(11) EP3878329
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3850339	(11) EP3866240	(11) EP3878707
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3850892	(11) EP3867090	(11) EP3878715
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3851695	(11) EP3867315	(11) EP3879666
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3851935	(11) EP3867526	(11) EP3880488
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3853146	(11) EP3867708	(11) EP3880982
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3853158	(11) EP3867967	(11) EP3882025
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3853336	(11) EP3868083	(11) EP3882571
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3854994	(11) EP3868139	(11) EP3883344
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3857066	(11) EP3869054	(11) EP3883532
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3857630	(11) EP3869644	(11) EP3885097
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3858197	(11) EP3870554	(11) EP3886223
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3859118	(11) EP3870735	(11) EP3886633
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3859410	(11) EP3870825	(11) EP3887584
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3861229	(11) EP3870896	(11) EP3887585
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3861416	(11) EP3871139	(11) EP3888140
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3862095	(11) EP3872466	(11) EP3889986
(00) 24.08.2022	(00) 24.08.2022	(00) 24.08.2022

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3891387	(11) EP3920618	
(00) 24.08.2022	(00) 24.08.2022	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3891884	(11) EP3921842	
(00) 24.08.2022	(00) 24.08.2022	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3891911	(11) EP3924883	
(00) 24.08.2022	(00) 24.08.2022	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3892483	(11) EP3926026	
(00) 24.08.2022	(00) 24.08.2022	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3899399	(11) EP3929539	
(00) 24.08.2022	(00) 24.08.2022	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3899434	(11) EP3930529	
(00) 24.08.2022	(00) 24.08.2022	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3900115	(11) EP3930578	
(00) 24.08.2022	(00) 24.08.2022	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3904785	(11) EP3930823	
(00) 24.08.2022	(00) 24.08.2022	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3904806	(11) EP3930870	
(00) 24.08.2022	(00) 24.08.2022	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3907473	(11) EP3932383	
(00) 24.08.2022	(00) 24.08.2022	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3908228	(11) EP3937417	
(00) 24.08.2022	(00) 24.08.2022	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3910203	(11) EP3940237	
(00) 24.08.2022	(00) 24.08.2022	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3910308	(11) EP3942958	
(00) 24.08.2022	(00) 24.08.2022	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3911267	(11) EP3946506	
(00) 24.08.2022	(00) 24.08.2022	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3911457	(11) EP3947139	
(00) 24.08.2022	(00) 24.08.2022	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3912535	(11) EP3950884	
(00) 24.08.2022	(00) 24.08.2022	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3914429	(11) EP3953255	
(00) 24.08.2022	(00) 24.08.2022	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3915780	(11) EP3954949	
(00) 24.08.2022	(00) 24.08.2022	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3915974	(11) EP3959021	
(00) 24.08.2022	(00) 24.08.2022	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3918232	(11) EP3963839	
(00) 24.08.2022	(00) 24.08.2022	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3918234	(11) EP3970676	
(00) 24.08.2022	(00) 24.08.2022	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3918648	(11) EP3987697	
(00) 24.08.2022	(00) 24.08.2022	

VRB

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

CO

Ingeschreven overdrachten.

Contains data concerning registered assignments or change of owners.

(71) Siemens Energy Global GmbH & Co. KG	(73) Dometic Sweden AB	(73) Sumitomo Pharma Co., Ltd.
(73) Siemens Energy Global GmbH & Co. KG	(11) EP1993863	(11) EP1652848
(11) EP1462633	(00) 21.12.2022	(00) 19.12.2022
(00) 20.12.2022	(51) B60H 1/00	(51) A61K 31/496
(51) F01D 17/08	F25B 45/00	A61P 25/28
F02C 7/143	(00) Assignment	C07D 417/12
F02C 9/16	(71) Siemens Energy Global GmbH & Co. KG	(00) Change of owner(s) name
F02C 9/28	(73) Siemens Energy Global GmbH & Co. KG	(71) Siemens Energy Global GmbH & Co. KG
(00) Assignment	(11) EP1818505	(73) Siemens Energy Global GmbH & Co. KG
(71) IHC IQIP Holding B.V.	(00) 20.12.2022	(11) EP1673490
(73) IHC IQIP Holding B.V.	(51) C23C 30/00	(00) 20.12.2022
(11) EP1567727	F01D 5/28	(51) C23C 14/16
(00) 19.12.2022	G01N 1/00	C23C 24/00
(51) E02D 27/42	(00) Assignment	C23C 30/00
E02D 27/52	(71) Sumitomo Pharma Co., Ltd.	F01D 5/28
E04H 12/22	(73) Sumitomo Pharma Co., Ltd.	(00) Assignment
F03D 1/00	(11) EP1535616	(71) Axis-Shield AS
(00) Assignment	(00) 19.12.2022	(73) Abbott Rapid Diagnostics International
(71) Siemens Energy Global GmbH & Co. KG	(51) A61K 31/496	Unlimited Company
(73) Siemens Energy Global GmbH & Co. KG	A61P 25/18	(11) EP1955066
(11) EP1774179	(00) Change of owner(s) name	(00) 13.12.2022
(00) 20.12.2022	(71) IHC IQIP Holding B.V.	(51) G01N 33/50
(51) F01D 5/20	(73) IHC IQIP Holding B.V.	(00) Change of Legal Entity
F04D 29/16	(11) EP1986947	(71) ABB E-mobility B.V.
F04D 29/32	(00) 19.12.2022	(73) ABB E-mobility B.V.
(00) Assignment	(51) B63B 9/06	(11) EP2572431
(71) Siemens Energy Global GmbH & Co. KG	B63B 27/10	(00) 19.12.2022
(73) Siemens Energy Global GmbH & Co. KG	B63B 35/00	(51) B60L 11/18
(11) EP2100368	B66C 1/10	H02J 7/00
(00) 20.12.2022	B66C 1/42	H02J 7/02
(51) H02H 7/122	B66C 23/18	(00) Assignment
H02M 7/49	B66C 23/42	(71) Siemens Energy Global GmbH & Co. KG
(00) Assignment	B66C 23/52	(73) Siemens Energy Global GmbH & Co. KG
(71) Evive Biotechnology (Shanghai) Ltd	E02B 17/00	(11) EP1721379
(73) Evive Biotechnology (Shanghai) Ltd	E02D 27/42	(00) 20.12.2022
(11) EP1841781	F03D 1/00	(51) H02K 3/52
(00) 12.12.2022	F03D 11/00	(00) Assignment
(51) A61K 38/00	F03D 11/04	(71) Abbott Rapid Diagnostics International
A61K 38/20	(00) Assignment	Unlimited Company
A61P 3/04	(71) Siemens Energy Global GmbH & Co. KG	(73) Abbott Rapid Diagnostics International
A61P 3/06	(73) Siemens Energy Global GmbH & Co. KG	Unlimited Company
A61P 3/10	(11) EP1884713	(11) EP1955066
C07K 1/00	(00) 20.12.2022	(00) 13.12.2022
C07K 14/54	(51) F23M 5/02	(51) G01N 33/50
(00) Change of Legal Entity	F23M 5/04	(00) Assignment
(71) Dometic WAECO International GmbH	F23R 3/00	(71) Siemens Energy Global GmbH & Co. KG
(73) Dometic Sweden AB	(00) Assignment	(73) Siemens Energy Global GmbH & Co. KG
(11) EP1993863	(71) Sumitomo Pharma Co., Ltd.	(11) EP2118974
(00) 21.12.2022	(73) Sumitomo Pharma Co., Ltd.	(00) 20.12.2022
(51) B60H 1/00	(11) EP1583748	(51) H02B 1/56
F25B 45/00	(00) 19.12.2022	H02B 13/025
(00) Change of owner(s) name	(51) C07D 261/20	(00) Assignment
(71) Dometic Germany GmbH	(00) Change of owner(s) name	(71) The Regents of the University of
(73) Dometic Sweden AB	(71) Siemens Energy Global GmbH & Co. KG	California
(11) EP1993863	(73) Siemens Energy Global GmbH & Co. KG	Lundquist Institute for Biomedical
(00) 21.12.2022	(11) EP1917706	Innovation at Harbor-UCLA Medical
(51) B60H 1/00	(00) 20.12.2022	Center
F25B 45/00	(51) H02H 7/122	(73) The Regents of the University of
(00) Change of owner(s) name	H02M 7/49	California
(71) Dometic Sweden AB	(00) Assignment	
	(71) Sumitomo Pharma Co., Ltd.	

Lundquist Institute for Biomedical Innovation at Harbor-UCLA Medical Center	H02M 1/32 H02M 7/483 H02M 7/49	G05B 23/02 G06F 11/30
(11) EP1758590	(00) Assignment	(00) Assignment
(00) 19.12.2022	(71) Speira GmbH	(71) Siemens Energy Global GmbH & Co. KG
(51) A61K 31/205	(73) Speira GmbH	(73) Siemens Energy Global GmbH & Co. KG
A61K 31/575	(11) EP2067871	(11) EP2598755
A61K 31/765	(00) 06.12.2022	(00) 20.12.2022
A61P 3/00	(51) C22F 1/04	(51) F04D 27/00
(00) Change of owner(s) name	C22F 1/047	F04D 27/02
(71) Siemens Energy Global GmbH & Co. KG	C22C 21/06	(00) Assignment
(73) Siemens Energy Global GmbH & Co. KG	C22C 21/00	(71) Siemens Energy Global GmbH & Co. KG
(11) EP1766192	B41N 1/08	Hexion Germany GmbH
(00) 20.12.2022	(00) Change of owner(s) name	(73) Siemens Energy Global GmbH & Co. KG
(51) F01D 5/08	(71) Siemens Energy Global GmbH & Co. KG	Hexion Germany GmbH
F01D 5/30	(73) Siemens Energy Global GmbH & Co. KG	(11) EP2154698
F01D 25/12	(11) EP2212618	(00) 20.12.2022
(00) Assignment	(00) 20.12.2022	(51) H01F 41/12
(71) Siemens Energy Global GmbH & Co. KG	(51) F22B 35/10	(00) Assignment
(73) Siemens Energy Global GmbH & Co. KG	F22B 37/38	(71) Siemens Energy Global GmbH & Co. KG
(11) EP2576853	F22D 5/26	(73) Siemens Energy Global GmbH & Co. KG
(00) 20.12.2022	(00) Assignment	(11) EP2399004
(51) C22C 19/05	(71) Siemens Energy Global GmbH & Co. KG	(00) 20.12.2022
C23C 4/08	(73) Siemens Energy Global GmbH & Co. KG	(51) F01D 5/08
C23C 30/00	(11) EP2407015	F01D 5/30
F01D 5/28	(00) 20.12.2022	F01D 5/32
F01D 25/00	(51) H01L 23/00	(00) Assignment
(00) Assignment	H01L 23/10	(71) Siemens Energy Global GmbH & Co. KG
(71) Siemens Energy Global GmbH & Co. KG	H01L 25/07	(73) Siemens Energy Global GmbH & Co. KG
(73) Siemens Energy Global GmbH & Co. KG	H05K 7/14	(11) EP2438352
(11) EP2104802	H05K 7/20	(00) 20.12.2022
(00) 20.12.2022	(00) Assignment	(51) F01K 23/10
(51) F02C 9/28	(71) Siemens Energy Global GmbH & Co. KG	F22B 1/18
F02C 9/34	Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	F22B 21/02
F23N 1/00	(73) Siemens Energy Global GmbH & Co. KG	F22B 29/06
F23N 5/24	Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	F22B 33/00
F23R 3/34	(00) Assignment	F22B 37/74
(00) Assignment	(11) EP2280801	(00) Assignment
(71) Siemens Energy Global GmbH & Co. KG	(00) 20.12.2022	(71) Siemens Energy Global GmbH & Co. KG
(73) Siemens Energy Global GmbH & Co. KG	(51) B23K 101/00	Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
(11) EP2593582	B23K 103/08	(73) Siemens Energy Global GmbH & Co. KG
(00) 20.12.2022	B23P 6/04	Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
(51) C23C 28/00	C23C 26/02	(11) EP2414127
C23C 28/04	F01D 5/00	(00) 20.12.2022
F01D 5/28	B23K 26/14	(51) B23K 9/04
(00) Assignment	B23K 26/34	B23K 10/02
(71) Siemens Energy Global GmbH & Co. KG	(00) Assignment	B23K 15/00
(73) Siemens Energy Global GmbH & Co. KG	(71) Siemens Energy Global GmbH & Co. KG	B23P 6/00
(11) EP2185902	Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	C21D 9/50
(00) 20.12.2022	(73) Siemens Energy Global GmbH & Co. KG	F01D 5/00
(51) G01F 25/00	Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	B23K 26/34
(00) Assignment	(00) Assignment	(00) Assignment
(71) Sumitomo Pharma Co., Ltd.	(71) Siemens Energy Global GmbH & Co. KG	(71) Siemens Energy Global GmbH & Co. KG
(73) Sumitomo Pharma Co., Ltd.	(73) Siemens Energy Global GmbH & Co. KG	(73) Siemens Energy Global GmbH & Co. KG
(11) EP1884242	(11) EP2311597	(11) EP2476176
(00) 19.12.2022	(00) 20.12.2022	(00) 20.12.2022
(51) A61K 9/20	(51) B23P 6/00	(51) H02J 3/18
A61K 31/496	F01D 5/00	H02J 3/26
C07D 417/12	B23K 26/14	(00) Assignment
(00) Change of owner(s) name	B23K 26/32	(71) Lucky Film Company Limited
(71) Siemens Energy Global GmbH & Co. KG	B23K 26/34	(73) Lucky Film Company Limited
(73) Siemens Energy Global GmbH & Co. KG	(00) Assignment	(11) EP2461973
(11) EP2338214	(71) Siemens Energy Global GmbH & Co. KG	(00) 22.12.2022
(00) 20.12.2022	(73) Siemens Energy Global GmbH & Co. KG	(51) B32B 7/02
(51) H02H 7/125	(11) EP2553537	(51) B32B 27/32
H02J 3/36	(00) 20.12.2022	H01L 31/0216
H02M 7/797	(51) G05B 19/418	

H01L 31/048	(71) Ferdinand-Braun-Institut gGmbH, Leibniz-Institut für Höchstfrequenztechnik	(73) Siemens Energy Global GmbH & Co. KG
(00) Assignment		(11) EP2614303
(71) ITEC Technology B.V.	(73) Ferdinand-Braun-Institut gGmbH, Leibniz-Institut für Höchstfrequenztechnik	(00) 20.12.2022
(73) ITEC Technology B.V.		(51) F01K 15/00
(11) EP2377475	(11) EP2534685	F01K 23/10
(00) 14.12.2022	(00) 20.12.2022	F22B 35/10
(51) A61B 17/20	(51) H01L 23/482	(00) Assignment
A61B 17/34	H01L 29/423	(71) Lucky Film Company Limited
A61B 19/00	(00) Assignment	(73) Lucky Film Company Limited
A61H 39/08	(71) Galderma Holding SA	(11) EP2541622
(00) Assignment	(73) Galderma Holding SA	(00) 22.12.2022
(71) Siemens Energy Global GmbH & Co. KG	(11) EP2444068	(51) H01L 31/048
(73) Siemens Energy Global GmbH & Co. KG	(00) 19.12.2022	(00) Assignment
(11) EP2737206	(51) A61K 9/00	(71) Lonza Ltd
(00) 20.12.2022	A61K 9/06	Lonza Guangzhou Pharmaceutical Ltd.
(51) F03D 7/02	A61K 31/498	(73) Lonza Ltd
F03D 7/04	A61K 47/32	Lonza Guangzhou Pharmaceutical Ltd.
F03D 9/00	A61K 47/14	(11) EP2678037
H02J 3/18	(00) Assignment	(00) 19.12.2022
H02J 3/38	(71) Siemens Energy Global GmbH & Co. KG	(51) A61K 47/48
(00) Assignment	(73) Siemens Energy Global GmbH & Co. KG	(00) Change of owner(s) name
(71) KEYMED (MEDICAL & INDUSTRIAL EQUIPMENT) LIMITED	(11) EP3003852	(71) Siemens Energy Global GmbH & Co. KG
(73) KEYMED (MEDICAL & INDUSTRIAL EQUIPMENT) LIMITED	(00) 20.12.2022	(73) Siemens Energy Global GmbH & Co. KG
(11) EP2575590	(51) B63G 8/08	(11) EP2678926
(00) 13.12.2022	B63H 21/00	(00) 20.12.2022
(51) A61B 1/00	(00) Assignment	(51) H01H 33/02
(00) Assignment	(71) CureVac SE	H01H 79/00
(71) Siemens Energy Global GmbH & Co. KG	(73) CureVac SE	H02H 7/122
(73) Siemens Energy Global GmbH & Co. KG	(11) EP2449113	H02M 7/219
(11) EP2622614	(00) 20.12.2022	H02M 1/32
(00) 20.12.2022	(51) A61K 39/00	(00) Assignment
(51) H01F 27/38	A61K 39/39	(71) Siemens Energy Global GmbH & Co. KG
(00) Assignment	A61K 47/34	(73) Siemens Energy Global GmbH & Co. KG
(71) Sumitomo Pharma Co., Ltd.	A61K 47/48	(11) EP3011668
(73) Sumitomo Pharma Co., Ltd.	A61K 48/00	(00) 20.12.2022
(11) EP2422783	C12N 15/87	(51) H02J 3/38
(00) 19.12.2022	(00) Change of Legal Entity	H02M 5/458
(51) A61K 9/20	(71) Siemens Energy Global GmbH & Co. KG	H02M 7/5387
A61K 31/496	(73) Siemens Energy Global GmbH & Co. KG	(00) Assignment
A61K 47/10	(11) EP2468463	(71) Siemens Energy Global GmbH & Co. KG
A61K 47/26	(00) 20.12.2022	(73) Siemens Energy Global GmbH & Co. KG
A61K 47/38	(51) B05B 12/00	(11) EP2673825
C07D 417/12	B25J 9/16	(00) 20.12.2022
(00) Change of owner(s) name	F01D 5/28	(51) C25B 15/08
(71) Siemens Energy Global GmbH & Co. KG	G06F 9/455	H01M 8/02
(73) Siemens Energy Global GmbH & Co. KG	(00) Assignment	H01M 8/04
(11) EP2371476	(71) Siemens Energy Global GmbH & Co. KG	(00) Assignment
(00) 20.12.2022	(73) Siemens Energy Global GmbH & Co. KG	(71) Sumitomo Pharma Co., Ltd.
(51) B23P 6/00	(11) EP2419644	(73) Sumitomo Pharma Co., Ltd.
F01D 5/00	(00) 20.12.2022	(11) EP1728786
B23K 26/14	(51) F04D 29/10	(00) 19.12.2022
B23K 26/32	F04D 29/12	(51) C07D 261/20
B23K 26/34	(00) Assignment	(00) Change of owner(s) name
(00) Assignment	(71) Siemens Energy Global GmbH & Co. KG	(71) Advantice Health AB
(71) Siemens Energy Global GmbH & Co. KG	(73) Siemens Energy Global GmbH & Co. KG	(73) Advantice Health AB
(73) Siemens Energy Global GmbH & Co. KG	(11) EP2733489	(11) EP2777689
(11) EP2426315	(00) 20.12.2022	(00) 22.12.2022
(00) 20.12.2022	(51) G01N 33/28	(51) A61K 8/34
(51) F01D 5/32	G01N 21/35	A61K 8/36
(00) Assignment	(00) Assignment	A61K 8/42
(71) Siemens Energy Global GmbH & Co. KG	(71) Siemens Energy Global GmbH & Co. KG	A61K 9/00
(73) Siemens Energy Global GmbH & Co. KG	(73) Siemens Energy Global GmbH & Co. KG	A61K 47/10
(11) EP2426315	(11) EP2547482	A61K 47/12
(00) 20.12.2022	(00) 20.12.2022	A61K 47/18
(51) F01D 5/32	(51) B23K 1/20	A61P 17/06
(00) Assignment	(00) Assignment	A61Q 19/00
(71) Siemens Energy Global GmbH & Co. KG	(71) Siemens Energy Global GmbH & Co. KG	(00) Change of owner(s) name

(71) Siemens Energy Global GmbH & Co. KG	F02C 6/18	H02H 3/087
(73) Siemens Energy Global GmbH & Co. KG	F22D 1/00	H02H 9/02
(11) EP2553695	F22D 1/08	(00) Assignment
(00) 20.12.2022	(00) Assignment	(71) Siemens Energy Global GmbH & Co. KG
(51) H01F 27/06	(71) Siemens Energy Global GmbH & Co. KG	(73) Siemens Energy Global GmbH & Co. KG
H01F 41/02	(73) Siemens Energy Global GmbH & Co. KG	(11) EP2723988
H01F 41/10	(11) EP2700154	(00) 20.12.2022
(00) Assignment	(00) 20.12.2022	(51) F01D 5/00
(71) MPJ OTC AB	(51) H02M 5/27	F01D 5/14
(73) MPJ OTC AB	H02M 5/297	(00) Assignment
(11) EP2777689	H02M 7/483	(71) Siemens Energy Global GmbH & Co. KG
(00) 22.12.2022	(00) Assignment	(73) Siemens Energy Global GmbH & Co. KG
(51) A61K 8/34	(71) Siemens Energy Global GmbH & Co. KG	(11) EP2707888
A61K 8/36	(73) Siemens Energy Global GmbH & Co. KG	(00) 20.12.2022
A61K 8/42	(11) EP2310477	(51) H01H 9/54
A61K 9/00	(00) 20.12.2022	H01H 33/59
A61K 47/10	(51) C10J 3/30	(00) Assignment
A61K 47/12	C10J 3/50	(71) Siemens Energy Global GmbH & Co. KG
A61K 47/18	C10J 3/72	(73) Siemens Energy Global GmbH & Co. KG
A61P 17/06	(00) Assignment	(11) EP2810290
A61Q 19/00	(71) Siemens Energy Global GmbH & Co. KG	(00) 20.12.2022
(00) Assignment	(73) Siemens Energy Global GmbH & Co. KG	(51) H01H 9/54
(71) Siemens Energy Global GmbH & Co. KG	(11) EP2138678	H01H 33/59
(73) Siemens Energy Global GmbH & Co. KG	(00) 20.12.2022	(00) Assignment
(11) EP2723991	(51) C25B 1/12	(71) Siemens Energy Global GmbH & Co. KG
(00) 20.12.2022	F01K 23/00	(73) Siemens Energy Global GmbH & Co. KG
(51) F01D 5/30	F01K 25/00	(11) EP2845288
F01D 5/32	F22B 1/00	(00) 20.12.2022
F04D 29/32	(00) Assignment	(51) H02J 3/36
(00) Assignment	(71) ABB E-mobility B.V.	(00) Assignment
(71) Siemens Energy Global GmbH & Co. KG	(73) ABB E-mobility B.V.	(71) ABB E-mobility B.V.
(73) Siemens Energy Global GmbH & Co. KG	(11) EP2665619	(73) ABB E-mobility B.V.
(11) EP2689511	(00) 19.12.2022	(11) EP2666236
(00) 20.12.2022	(51) B60L 11/18	(00) 19.12.2022
(51) H02J 3/18	H02J 7/00	(51) H02M 3/335
H02J 3/38	H02M 7/23	H02M 3/337
(00) Assignment	(00) Assignment	(00) Assignment
(71) Siemens Energy Global GmbH & Co. KG	(71) Siemens Energy Global GmbH & Co. KG	(71) Siemens Energy Global GmbH & Co. KG
(73) Siemens Energy Global GmbH & Co. KG	(73) Siemens Energy Global GmbH & Co. KG	(73) Siemens Energy Global GmbH & Co. KG
(11) EP2368021	(11) EP2789068	(11) EP2737588
(00) 20.12.2022	(00) 20.12.2022	(00) 20.12.2022
(51) F01K 23/10	(51) H01H 33/59	(51) H02H 3/087
(00) Assignment	H02J 3/36	H02H 7/26
(71) Siemens Energy Global GmbH & Co. KG	(00) Assignment	(00) Assignment
(73) Siemens Energy Global GmbH & Co. KG	(71) Siemens Energy Global GmbH & Co. KG	(71) Siemens Energy Global GmbH & Co. KG
(11) EP2174060	(73) Siemens Energy Global GmbH & Co. KG	(73) Siemens Energy Global GmbH & Co. KG
(00) 20.12.2022	(11) EP2507139	(11) EP2735005
(51) F22B 15/00	(00) 20.12.2022	(00) 20.12.2022
F22B 37/24	(51) B65D 5/48	(51) H01F 27/26
(00) Assignment	B65D 5/50	(00) Assignment
(71) Siemens Energy Global GmbH & Co. KG	B65D 25/10	(71) Siemens Energy Global GmbH & Co. KG
(73) Siemens Energy Global GmbH & Co. KG	B65D 81/113	(73) Siemens Energy Global GmbH & Co. KG
(11) EP2678931	B65D 85/68	(11) EP2188882
(00) 20.12.2022	(00) Assignment	(00) 20.12.2022
(51) H02M 7/483	(71) Siemens Energy Global GmbH & Co. KG	(51) F04D 13/06
(00) Assignment	(73) Siemens Energy Global GmbH & Co. KG	H02K 5/128
(71) Siemens Energy Global GmbH & Co. KG	(11) EP2773873	H02K 49/10
(73) Siemens Energy Global GmbH & Co. KG	(00) 20.12.2022	(00) Assignment
(11) EP2721626	(51) F02C 7/06	(71) Siemens Energy Global GmbH & Co. KG
(00) 20.12.2022	F04D 29/056	(73) Siemens Energy Global GmbH & Co. KG
(51) H01H 33/59	F04D 29/063	(11) EP2710167
(00) Assignment	(00) Assignment	(00) 20.12.2022
(71) Siemens Energy Global GmbH & Co. KG	(71) Siemens Energy Global GmbH & Co. KG	(51) C23C 28/00
(73) Siemens Energy Global GmbH & Co. KG	(73) Siemens Energy Global GmbH & Co. KG	C23C 30/00
(11) EP2959120	(11) EP2732521	F01D 5/28
(00) 20.12.2022	(00) 20.12.2022	F01D 25/00
(51) F01K 23/10	(51) H01H 33/59	(00) Assignment

(71) Kanthal GmbH	(11) EP2673633	(73) Siemens Energy Global GmbH & Co. KG
(73) Kanthal GmbH	(00) 20.12.2022	(11) EP2885801
(11) EP2926623	(51) G01N 33/34	(00) 20.12.2022
(00) 20.12.2022	(00) Assignment	(51) H01H 9/54
(51) F24H 3/00	(71) Siemens Energy Global GmbH & Co. KG	H01H 33/59
H05B 3/48	(73) Siemens Energy Global GmbH & Co. KG	(00) Assignment
(00) Assignment	(11) EP2804826	(71) Siemens Energy Global GmbH & Co. KG
(71) Siemens Energy Global GmbH & Co. KG	(00) 20.12.2022	(73) Siemens Energy Global GmbH & Co. KG
(73) Siemens Energy Global GmbH & Co. KG	(51) B65H 23/192	(11) EP2865487
(11) EP2351060	B65H 26/00	(00) 20.12.2022
(00) 20.12.2022	(00) Assignment	(51) B23Q 11/00
(51) H01H 1/58	(71) Sumitomo Pharma Co., Ltd.	B24B 5/36
H01H 33/66	(73) Sumitomo Pharma Co., Ltd.	B24B 21/16
H01H 39/00	(11) EP2563790	(00) Assignment
H01H 79/00	(00) 19.12.2022	(71) CureVac SE
(00) Assignment	(51) C07D 417/04	(73) CureVac SE
(71) Siemens Energy Global GmbH & Co. KG	C07D 471/10	(11) EP2101823
(73) Siemens Energy Global GmbH & Co. KG	C07D 487/10	(00) 20.12.2022
(11) EP2409078	(00) Change of owner(s) name	(51) A61K 39/395
(00) 20.12.2022	(71) VKR Holding A/S	A61K 48/00
(51) F01K 23/10	(73) VKR Holding A/S	C07K 16/28
F22B 1/18	(11) EP2868832	C07K 16/32
F22B 21/02	(00) 20.12.2022	C12N 15/13
F22B 29/06	(51) E04D 13/03	C12N 15/85
F22B 37/62	(00) Assignment	(00) Change of Legal Entity
(00) Assignment	(71) ABB E-mobility B.V.	(71) Siemens Energy Global GmbH & Co. KG
(71) Siemens Energy Global GmbH & Co. KG	(73) ABB E-mobility B.V.	(73) Siemens Energy Global GmbH & Co. KG
(73) Siemens Energy Global GmbH & Co. KG	(11) EP2542445	(11) EP2929627
(11) EP2845303	(00) 19.12.2022	(00) 20.12.2022
(00) 20.12.2022	(51) B60L 11/18	(51) H03K 17/00
(51) H02M 7/797	H02J 7/00	(00) Assignment
H02M 7/483	(00) Assignment	(71) ABB E-mobility B.V.
(00) Assignment	(71) Siemens Energy Global GmbH & Co. KG	(73) ABB E-mobility B.V.
(71) Siemens Energy Global GmbH & Co. KG	(73) Siemens Energy Global GmbH & Co. KG	(11) EP3110653
(73) Siemens Energy Global GmbH & Co. KG	(11) EP1513033	(00) 19.12.2022
(11) EP2844615	(00) 20.12.2022	(51) B60L 11/18
(00) 20.12.2022	(51) G05B 5/01	(00) Assignment
(51) C02F 1/20	G05B 11/42	(71) Mitsui Chemicals, Inc.
C02F 1/24	(00) Assignment	(73) Mitsui Chemicals, Inc.
C02F 1/52	(71) Abbott Rapid Diagnostics International	(11) EP2784161
C02F 1/66	Unlimited Company	(00) 19.12.2022
C02F 3/22	(73) Abbott Rapid Diagnostics International	(51) A21D 8/04
C02F 5/02	Unlimited Company	C11D 3/386
C02F 103/28	(11) EP2776809	C12N 1/15
D21H 21/02	(00) 13.12.2022	C12N 1/19
D21H 21/04	(51) B01L 3/00	C12N 1/21
(00) Assignment	B01L 3/02	C12N 9/24
(71) Siemens Energy Global GmbH & Co. KG	F16J 15/02	C12N 15/56
(73) Siemens Energy Global GmbH & Co. KG	F16J 15/06	C12P 19/02
(11) EP2907152	G01N 21/11	C12P 19/14
(00) 20.12.2022	G01N 33/92	C13K 1/02
(51) H01F 27/28	G01N 35/10	C13K 13/00
H01F 27/29	(00) Assignment	D21C 5/00
H01F 38/14	(71) Instrument Systems GmbH	A23K 20/189
H01H 9/54	(73) Instrument Systems GmbH	D06L 4/40
H01H 33/59	(11) EP2435808	(00) Assignment
H02H 3/08	(00) 20.12.2022	(71) SIDAM S.r.l.
(00) Assignment	(51) G01J 1/02	Marchi, Mauro
(71) Siemens Energy Global GmbH & Co. KG	G01J 1/08	(73) SIDAM S.r.l.
(73) Siemens Energy Global GmbH & Co. KG	G01J 3/00	Marchi, Mauro
(11) EP2810289	G01J 3/02	(11) EP2879644
(00) 20.12.2022	G01J 3/10	(00) 22.12.2022
(51) H01H 9/54	G01J 5/52	(51) A61J 1/20
H01H 33/59	H05B 33/08	(00) Merge
(00) Assignment	F21V 29/00	(71) SIDAM S.r.l.
(71) Siemens Energy Global GmbH & Co. KG	(00) Change of owner(s) name	(73) SIDAM S.r.l.
(73) Siemens Energy Global GmbH & Co. KG	(71) Siemens Energy Global GmbH & Co. KG	(11) EP3128938

(00) 22.12.2022	F01D 5/18	(00) 20.12.2022
(51) A61B 18/14	(00) Assignment	(51) C07K 16/28
(00) Merge	(71) Instrument Systems GmbH	A61K 39/00
(71) Sumitomo Pharma Co., Ltd.	(73) Instrument Systems GmbH	A61K 39/395
(73) Sumitomo Pharma Co., Ltd.	(11) EP3021096	A61K 39/39
(11) EP2380881	(00) 20.12.2022	(00) Change of Legal Entity
(00) 19.12.2022	(51) G01J 3/02	(71) Siemens Energy Global GmbH & Co. KG
(51) A61K 31/4184	G01J 3/50	(73) Siemens Energy Global GmbH & Co. KG
A61K 31/437	G01J 3/51	(11) EP2810291
A61K 31/4439	G01J 3/52	(00) 20.12.2022
A61K 31/454	(00) Change of owner(s) name	(51) H01H 9/54
A61K 31/496	(71) Sumitomo Pharma Co., Ltd.	H01H 33/59
A61K 31/5377	(73) Sumitomo Pharma Co., Ltd.	(00) Assignment
A61P 13/00	(11) EP2850067	(71) Siemens Energy Global GmbH & Co. KG
A61P 19/02	(00) 19.12.2022	(73) Siemens Energy Global GmbH & Co. KG
A61P 25/00	(51) A61K 31/505	(11) EP2403893
A61P 25/04	A61K 31/506	(00) 20.12.2022
A61P 43/00	A61P 11/00	(51) C08G 59/22
C07D 235/14	A61P 31/00	C08G 59/24
C07D 401/04	A61P 35/00	C08G 59/42
C07D 403/06	A61P 43/00	C08G 59/68
C07D 403/12	C07D 239/47	C08L 63/02
C07D 405/04	C07D 239/48	H01B 3/40
C07D 405/06	C07D 403/10	(00) Assignment
C07D 405/14	C07D 403/12	(71) Siemens Energy Global GmbH & Co. KG
C07D 471/04	(00) Change of owner(s) name	(73) Siemens Energy Global GmbH & Co. KG
(00) Change of owner(s) name	(71) Siemens Energy Global GmbH & Co. KG	(11) EP2100366
(71) Siemens Energy Global GmbH & Co. KG	(73) Siemens Energy Global GmbH & Co. KG	(00) 20.12.2022
(73) Siemens Energy Global GmbH & Co. KG	(11) EP2964910	(51) H02M 1/00
(11) EP2932516	(00) 20.12.2022	(00) Assignment
(00) 20.12.2022	(51) F01K 23/10	(71) Siemens Energy Global GmbH & Co. KG
(51) F28D 1/03	(00) Assignment	(73) Siemens Energy Global GmbH & Co. KG
F28F 9/02	(71) Siemens Energy Global GmbH & Co. KG	(11) EP2927598
H01F 27/14	(73) Siemens Energy Global GmbH & Co. KG	(00) 20.12.2022
(00) Assignment	(11) EP3044801	(51) F23R 3/14
(71) ABB E-mobility B.V.	(00) 20.12.2022	F23R 3/28
(73) ABB E-mobility B.V.	(51) H01H 1/50	(00) Assignment
(11) EP2539175	H01H 33/666	(71) Siemens Energy Global GmbH & Co. KG
(00) 19.12.2022	(00) Assignment	ThyssenKrupp Marine Systems GmbH
(51) B60L 11/18	(71) Siemens Energy Global GmbH & Co. KG	(73) Siemens Energy Global GmbH & Co. KG
(00) Assignment	(73) Siemens Energy Global GmbH & Co. KG	ThyssenKrupp Marine Systems GmbH
(71) Sumitomo Pharma Co., Ltd.	(11) EP2986825	(11) EP2087570
(73) Sumitomo Pharma Co., Ltd.	(00) 20.12.2022	(00) 20.12.2022
(11) EP1886678	(51) F01K 3/00	(51) B63G 8/08
(00) 19.12.2022	F01K 3/06	B63H 21/17
(51) A61K 9/20	F01K 9/00	H02H 7/26
A61K 31/198	F25B 27/00	H02H 9/02
A61K 47/26	F28D 20/00	(00) Assignment
A61K 47/32	(00) Assignment	(71) Siemens Energy Global GmbH & Co. KG
A61K 47/36	(71) Ferdinand-Braun-Institut gGmbH,	(73) Siemens Energy Global GmbH & Co. KG
A61K 47/38	Leibniz-Institut für Höchstfrequenztechnik	(11) EP3011144
A61P 9/00	(73) Ferdinand-Braun-Institut gGmbH,	(00) 20.12.2022
A61P 25/16	Leibniz-Institut für Höchstfrequenztechnik	(51) F01D 25/30
A61K 47/10	(11) EP2454762	F01K 23/10
(00) Change of owner(s) name	(00) 20.12.2022	F02C 6/18
(71) Siemens Energy Global GmbH & Co. KG	(51) H01L 33/38	F22B 1/18
(73) Siemens Energy Global GmbH & Co. KG	H01L 33/46	F22B 35/00
(11) EP3061111	(00) Assignment	(00) Assignment
(00) 20.12.2022	(71) CureVac SE	(71) Siemens Energy Global GmbH & Co. KG
(51) H01H 9/42	(73) CureVac SE	(73) Siemens Energy Global GmbH & Co. KG
H01H 33/59	(11) EP2831241	(11) EP3036787
(00) Assignment	(00) 20.12.2022	(00) 20.12.2022
(71) Siemens Energy Global GmbH & Co. KG	(51) C12N 15/67	(51) H01M 8/04089
(73) Siemens Energy Global GmbH & Co. KG	(00) Change of Legal Entity	H01M 8/0444
(11) EP2948635	(71) CureVac SE	H01M 8/04537
(00) 20.12.2022	(73) CureVac SE	H01M 8/04746
(51) B23P 15/02	(11) EP2958588	H01M 8/1018

(00) Assignment	(71) Caso Holding GmbH	H02J 7/02
(71) Siemens Energy Global GmbH & Co. KG	(73) Caso Holding GmbH	(00) Assignment
(73) Siemens Energy Global GmbH & Co. KG	(11) EP3368773	(71) The Regents of the University of California
(11) EP2745299	(00) 19.12.2022	Lundquist Institute for Biomedical Innovation at Harbor-UCLA Medical Center
(00) 20.12.2022	(51) F04D 25/02	(11) 300907
(51) H01F 27/30	F04D 29/26	(00) 19.12.2022
H01F 41/00	F24C 15/20	(00) Change of owner(s) name
(00) Assignment	(00) Assignment	(71) Siemens Energy Global GmbH & Co. KG
(71) Siemens Energy Global GmbH & Co. KG	(71) Siemens Energy Global GmbH & Co. KG	(73) Siemens Energy Global GmbH & Co. KG
(73) Siemens Energy Global GmbH & Co. KG	(11) EP3080821	(11) EP2434570
(11) EP2156448	(00) 20.12.2022	(00) 20.12.2022
(00) 20.12.2022	(51) H01F 27/34	(51) C25B 9/20
(51) H01F 27/34	H01F 27/38	H01M 8/248
H01F 27/38	H01F 27/42	H01M 8/249
(00) Assignment	(00) Assignment	(00) Assignment
(71) Siemens Energy Global GmbH & Co. KG	(71) Siemens Energy Global GmbH & Co. KG	(71) CureVac SE
(73) Siemens Energy Global GmbH & Co. KG	(73) Siemens Energy Global GmbH & Co. KG	(73) CureVac SE
(11) EP3021335	(11) EP2956981	(11) EP2814961
(00) 20.12.2022	(00) 20.12.2022	(00) 20.12.2022
(51) H01F 27/34	(51) H01M 4/86	(51) A61K 39/00
H01F 27/38	H01M 4/90	C12N 15/63
(00) Assignment	H01M 12/06	C12N 15/67
(71) Lucky Film Company Limited	H01M 12/08	(00) Change of Legal Entity
(73) Lucky Film Company Limited	H01M 8/0232	(71) Siemens Energy Global GmbH & Co. KG
(11) EP2277694	H01M 8/0245	(73) Siemens Energy Global GmbH & Co. KG
(00) 22.12.2022	H01M 8/1213	(11) EP2438351
(51) B32B 7/02	(00) Assignment	(00) 20.12.2022
B32B 27/32	(71) Trillium Therapeutics ULC	(51) F22B 1/18
H01L 31/0216	(73) PF Argentum IP Holdings LLC	F22B 29/06
H01L 31/048	(11) EP2931752	(00) Assignment
H01L 31/049	(00) 13.12.2022	(71) Siemens Energy Global GmbH & Co. KG
B32B 17/10	(51) A61K 38/00	(73) Siemens Energy Global GmbH & Co. KG
B32B 7/10	A61K 38/16	(11) EP3065150
B32B 7/12	A61K 38/45	(00) 20.12.2022
B32B 15/08	A61P 35/02	(51) H01F 27/38
B32B 27/08	C07K 14/705	(00) Assignment
B32B 27/16	C07K 16/00	(71) SAIPEM SA
B32B 27/18	C07K 19/00	(73) SAIPEM SA
B32B 27/34	C12N 15/62	(11) EP3068685
B32B 27/36	(00) Change of Legal Entity	(00) 20.12.2022
B32B 27/30	(71) PF Argentum IP Holdings LLC	(51) B63B 21/10
(00) Assignment	(73) PF Argentum IP Holdings LLC	B63B 21/18
(71) Siemens Energy Global GmbH & Co. KG	(11) EP2931752	B63B 21/50
(73) Siemens Energy Global GmbH & Co. KG	(00) 13.12.2022	(00) Assignment
(11) EP2976440	(51) A61K 38/00	(71) Siemens Energy Global GmbH & Co. KG
(00) 20.12.2022	A61K 38/16	(73) Siemens Energy Global GmbH & Co. KG
(51) C22C 19/05	A61K 38/45	(11) EP3076411
C22C 30/00	A61P 35/02	(00) 20.12.2022
C23C 14/06	C07K 14/705	(51) H01F 27/34
C23C 28/00	C07K 16/00	H01F 27/42
F01D 5/28	C07K 19/00	H01F 29/14
C23C 4/08	C12N 15/62	(00) Assignment
(00) Assignment	(00) Assignment	(71) Siemens Energy Global GmbH & Co. KG
(71) Siemens Energy Global GmbH & Co. KG	(71) Siemens Energy Global GmbH & Co. KG	(73) Siemens Energy Global GmbH & Co. KG
(73) Siemens Energy Global GmbH & Co. KG	(73) Siemens Energy Global GmbH & Co. KG	(11) EP2721620
(11) EP3080822	(11) EP3062320	(00) 20.12.2022
(00) 20.12.2022	(00) 20.12.2022	(51) H01F 27/28
(51) H01F 27/38	(51) G10K 11/16	(00) Assignment
(00) Assignment	G10K 11/168	(71) Siemens Energy Global GmbH & Co. KG
(71) Siemens Energy Global GmbH & Co. KG	H01F 27/33	(73) Siemens Energy Global GmbH & Co. KG
(73) Siemens Energy Global GmbH & Co. KG	(00) Assignment	(11) EP2900921
(11) EP2856477	(71) ABB E-mobility B.V.	(00) 20.12.2022
(00) 20.12.2022	(73) ABB E-mobility B.V.	(51) B05B 7/20
(51) H01F 27/02	(11) EP2812971	B05B 12/12
H01F 27/12	(00) 19.12.2022	
H01F 27/33	(51) H02J 1/10	
(00) Assignment		

B05B 13/04	F02C 9/54	H02M 1/32
B25J 9/16	H02J 3/30	(00) Assignment
B25J 11/00	(00) Assignment	(71) Siemens Energy Global GmbH & Co. KG
F01D 5/00	(71) Ferdinand-Braun-Institut gGmbH,	(73) Siemens Energy Global GmbH & Co. KG
F01D 5/28	Leibniz-Institut für Höchstfrequenztechnik	(11) EP3001434
F01D 25/28	(73) Ferdinand-Braun-Institut gGmbH,	(00) 20.12.2022
(00) Assignment	Leibniz-Institut für Höchstfrequenztechnik	(51) H01F 27/12
(71) Siemens Energy Global GmbH & Co. KG	(11) EP3111267	H01F 27/14
(73) Siemens Energy Global GmbH & Co. KG	(00) 20.12.2022	(00) Assignment
(11) EP3077572	(51) G02B 5/04	(71) Siemens Energy Global GmbH & Co. KG
(00) 20.12.2022	G02B 17/00	(73) Siemens Energy Global GmbH & Co. KG
(51) C23C 28/00	G02B 17/04	(11) EP3134680
F01D 5/28	G02B 19/00	(00) 20.12.2022
(00) Assignment	G02B 27/09	(51) F23M 5/04
(71) Siemens Energy Global GmbH & Co. KG	(00) Assignment	F23R 3/00
(73) Siemens Energy Global GmbH & Co. KG	(71) ABB E-mobility B.V.	(00) Assignment
(11) EP3002422	(73) ABB E-mobility B.V.	(71) SILKN BEAUTY LTD
(00) 20.12.2022	(11) EP3389161	(73) SILKN BEAUTY LTD
(51) C25B 1/12	(00) 19.12.2022	(11) EP2858588
F01K 23/00	(51) H02J 7/00	(00) 19.12.2022
F01K 25/00	H02J 7/04	(51) A61B 18/08
F22B 1/00	B60L 53/10	A61B 18/14
(00) Assignment	B60L 53/31	A61B 18/18
(71) Siemens Energy Global GmbH & Co. KG	(00) Assignment	A61B 18/20
(73) Siemens Energy Global GmbH & Co. KG	(71) Siemens Energy Global GmbH & Co. KG	A61N 5/06
(11) EP2991817	(73) Siemens Energy Global GmbH & Co. KG	(00) Assignment
(00) 20.12.2022	(11) EP2941780	(71) Siemens Energy Global GmbH & Co. KG
(51) B29C 67/00	(00) 20.12.2022	(73) Siemens Energy Global GmbH & Co. KG
(00) Assignment	(51) H01H 33/59	(11) EP2926455
(71) Siemens Energy Global GmbH & Co. KG	H02J 3/36	(00) 20.12.2022
(73) Siemens Energy Global GmbH & Co. KG	H02M 7/757	(51) H01H 9/52
(11) EP2122817	(00) Assignment	H01H 9/54
(00) 20.12.2022	(71) Siemens Energy Global GmbH & Co. KG	H01H 33/59
(51) H02M 1/00	(73) Siemens Energy Global GmbH & Co. KG	H03K 17/00
H02M 7/483	(11) EP3138148	(00) Assignment
(00) Assignment	(00) 20.12.2022	(71) Siemens Energy Global GmbH & Co. KG
(71) Siemens Energy Global GmbH & Co. KG	(51) F01K 3/02	(73) Siemens Energy Global GmbH & Co. KG
(73) Siemens Energy Global GmbH & Co. KG	F02G 5/02	(11) EP3177842
(11) EP2737510	H01M 10/39	(00) 20.12.2022
(00) 20.12.2022	H01M 16/00	(51) F16D 11/04
(51) H01H 9/54	H01M 10/615	F16D 43/24
H01H 33/16	H01M 10/627	(00) Assignment
H01H 33/59	H01M 10/6561	(71) Siemens Energy Global GmbH & Co. KG
H02H 3/087	H01M 10/66	(73) Siemens Energy Global GmbH & Co. KG
(00) Assignment	(00) Assignment	(11) EP3179617
(71) Siemens Energy Global GmbH & Co. KG	(71) Siemens Energy Global GmbH & Co. KG	(00) 20.12.2022
(73) Siemens Energy Global GmbH & Co. KG	(73) Siemens Energy Global GmbH & Co. KG	(51) H02M 1/12
(11) EP3127202	(11) EP2735047	(00) Assignment
(00) 20.12.2022	(00) 20.12.2022	(71) CureVac SE
(51) H02G 5/00	(51) C25B 9/08	(73) CureVac SE
(00) Assignment	H01M 4/88	(11) EP2814962
(71) Siemens Energy Global GmbH & Co. KG	H01M 8/1004	(00) 20.12.2022
(73) Siemens Energy Global GmbH & Co. KG	(00) Assignment	(51) A61K 39/00
(11) EP3329502	(71) ABB E-mobility B.V.	A61K 39/12
(00) 20.12.2022	(73) ABB E-mobility B.V.	C12N 15/63
(51) G01R 15/18	(11) EP2404779	C12N 15/67
H01F 27/28	(00) 19.12.2022	(00) Change of Legal Entity
H01F 27/32	(51) H02J 3/38	(71) Siemens Energy Global GmbH & Co. KG
H01F 38/30	B60L 53/63	(73) Siemens Energy Global GmbH & Co. KG
(00) Assignment	(00) Assignment	(11) EP2513430
(71) Siemens Energy Global GmbH & Co. KG	(71) Siemens Energy Global GmbH & Co. KG	(00) 20.12.2022
(73) Siemens Energy Global GmbH & Co. KG	(73) Siemens Energy Global GmbH & Co. KG	(51) F01D 17/16
(11) EP2971652	(11) EP2671297	F01D 21/00
(00) 20.12.2022	(00) 20.12.2022	G01B 5/24
(51) F01D 15/10	(51) H02H 7/125	(00) Assignment
F02C 6/14	H02J 3/36	(71) SILKN BEAUTY LTD
F02C 9/00	H02M 7/797	(73) SILKN BEAUTY LTD

(11) EP3065662	(00) 20.12.2022	G01B 11/06
(00) 19.12.2022	(51) C25B 9/10	G01B 21/08
(51) A61B 18/00	C25B 9/20	C23C 4/12
A61B 18/14	C25B 11/03	(00) Assignment
A61B 18/18	(00) Assignment	(71) Siemens Energy Global GmbH & Co. KG
A61B 18/20	(71) Abbott Rapid Diagnostics International	(73) Siemens Energy Global GmbH & Co. KG
(00) Assignment	Unlimited Company	(11) EP1927182
(71) Siemens Energy Global GmbH & Co. KG	(73) Abbott Rapid Diagnostics International	(00) 20.12.2022
(73) Siemens Energy Global GmbH & Co. KG	Unlimited Company	(51) H02M 1/32
(11) EP2948659	(11) EP2751575	H02M 7/483
(00) 20.12.2022	(00) 13.12.2022	H02M 7/49
(51) F01N 3/20	(51) C12Q 1/60	(00) Assignment
F02C 9/00	C12Q 1/61	(71) Siemens Energy Global GmbH & Co. KG
(00) Assignment	G01N 33/92	(73) Siemens Energy Global GmbH & Co. KG
(71) Sumitomo Pharma Co., Ltd.	(00) Assignment	(11) EP3196902
(73) Sumitomo Pharma Co., Ltd.	(71) Mitsui Chemicals, Inc.	(00) 20.12.2022
(11) EP2660600	(73) Mitsui Chemicals, Inc.	(51) G01R 33/02
(00) 19.12.2022	(11) EP3342867	H01F 27/10
(51) C07K 16/18	(00) 19.12.2022	H01F 27/25
C12N 15/09	(51) A21D 8/04	H01F 27/34
G01N 33/15	C11D 3/386	H01F 27/38
G01N 33/50	C12N 1/15	H01F 27/42
G01N 33/53	C12N 1/19	H01F 29/14
(00) Change of owner(s) name	C12N 1/21	(00) Assignment
(71) Siemens Energy Global GmbH & Co. KG	C12N 9/24	(71) Siemens Energy Global GmbH & Co. KG
(73) Siemens Energy Global GmbH & Co. KG	C12N 15/56	(73) Siemens Energy Global GmbH & Co. KG
(11) EP2901537	C12P 19/02	(11) EP3065129
(00) 20.12.2022	C12P 19/14	(00) 20.12.2022
(51) H02J 3/36	C13K 1/02	(51) G10K 11/16
H02M 5/10	C13K 13/00	H01F 27/33
(00) Assignment	A23K 20/189	(00) Assignment
(71) Siemens Energy Global GmbH & Co. KG	(00) Assignment	(71) CureVac SE
(73) Siemens Energy Global GmbH & Co. KG	(71) Siemens Energy Global GmbH & Co. KG	(73) CureVac SE
(11) EP2547488	(73) Siemens Energy Global GmbH & Co. KG	(11) EP3260541
(00) 20.12.2022	(11) EP2100365	(00) 20.12.2022
(51) B23P 6/00	(00) 20.12.2022	(51) C12N 15/67
F01D 5/00	(51) G01R 31/02	(00) Change of Legal Entity
(00) Assignment	H02M 7/483	(71) Siemens Energy Global GmbH & Co. KG
(71) Scanarc Plasma Technologies AB	(00) Assignment	(73) Siemens Energy Global GmbH & Co. KG
(73) Scanarc Plasma Technologies AB	(71) Siemens Energy Global GmbH & Co. KG	(11) EP3228980
(11) EP2898106	(73) Siemens Energy Global GmbH & Co. KG	(00) 20.12.2022
(00) 21.12.2022	(11) EP2467230	(51) G01B 11/06
(51) C22B 5/16	(00) 20.12.2022	G01B 21/08
C22B 9/22	(51) B23P 6/00	(00) Assignment
C22B 19/12	F01D 5/00	(71) CureVac SE
C22B 19/30	G01N 21/91	(73) CureVac SE
F27B 1/16	G05B 19/4099	(11) EP3173092
(00) Assignment	B23K 26/342	(00) 20.12.2022
(71) Siemens Energy Global GmbH & Co. KG	(00) Assignment	(51) A61K 31/7105
(73) Siemens Energy Global GmbH & Co. KG	(71) Caso Holding GmbH	A61K 38/19
(11) EP2941808	(73) Caso Holding GmbH	A61K 38/20
(00) 20.12.2022	(11) EP3513127	A61K 39/00
(51) F03D 7/04	(00) 19.12.2022	A61P 35/00
H02J 3/36	(51) F24C 15/20	C07K 14/52
H02J 3/38	(00) Assignment	C12N 15/113
F03D 9/25	(71) Siemens Energy Global GmbH & Co. KG	C12N 15/117
(00) Assignment	(73) Siemens Energy Global GmbH & Co. KG	(00) Change of Legal Entity
(71) Siemens Energy Global GmbH & Co. KG	(11) EP3224541	(71) Siemens Energy Global GmbH & Co. KG
(73) Siemens Energy Global GmbH & Co. KG	(00) 20.12.2022	(73) Siemens Energy Global GmbH & Co. KG
(11) EP2417395	(51) F22B 1/18	(11) EP3004754
(00) 20.12.2022	(00) Assignment	(00) 20.12.2022
(51) F23N 5/24	(71) Siemens Energy Global GmbH & Co. KG	(51) F25B 30/02
F23R 3/00	(73) Siemens Energy Global GmbH & Co. KG	F25B 40/00
(00) Assignment	(11) EP3317610	F25B 41/04
(71) Siemens Energy Global GmbH & Co. KG	(00) 20.12.2022	F25B 49/02
(73) Siemens Energy Global GmbH & Co. KG	(51) B05B 7/00	(00) Assignment
(11) EP2957659	B05B 13/00	

(71) The Board of Regents of The University of Texas System argenx BV	(11) EP2992270 (00) 20.12.2022 (51) F23M 5/04	H02H 7/22 H03K 17/687 (00) Assignment
(73) The Board of Regents of The University of Texas System argenx BV	(00) Assignment	(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG
(11) EP3087095 (00) 20.12.2022 (51) A61K 38/00 A61K 38/17 C07K 16/00	(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG (11) EP3109961 (00) 20.12.2022 (51) H01B 7/16 H01B 9/02 H01B 9/06 H02G 5/06	(11) EP3307924 (00) 20.12.2022 (51) C25B 3/04 C25B 11/03 C25B 11/04 (00) Assignment
(00) Change of owner(s) name	(00) Assignment	(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG
(71) CureVac SE	(00) Assignment	(11) EP3363027 (00) 20.12.2022 (51) H01C 7/12 H01C 13/02 H01H 31/32 (00) Assignment
(73) CureVac SE (11) EP3090053 (00) 20.12.2022 (51) C12N 15/67	(71) CureVac SE (73) CureVac SE (11) EP3292873 (00) 20.12.2022 (51) A61K 39/39 A61K 39/395 C07K 16/28	(71) CureVac SE (73) CureVac SE (11) EP3326641 (00) 20.12.2022 (51) A61K 31/7105 A61K 38/19 A61K 38/20 A61K 39/00 A61P 35/00 C07K 14/52 C12N 15/113 C12N 15/117 (00) Change of Legal Entity
(00) Change of Legal Entity	(00) Change of Legal Entity	(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG
(71) Florian KLOET OVERBEEKE (73) Florian KLOET OVERBEEKE (11) 2023622 (00) 13.12.2022 (51) A01G 23/095	(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG (11) EP3218980 (00) 20.12.2022 (51) H02J 1/00 H02J 1/08 H02J 1/14 H02J 3/36 H02M 3/28 H02M 7/483	(71) CureVac SE (73) CureVac SE (11) EP3326641 (00) 20.12.2022 (51) A61K 31/7105 A61K 38/19 A61K 38/20 A61K 39/00 A61P 35/00 C07K 14/52 C12N 15/113 C12N 15/117 (00) Change of Legal Entity
(00) Assignment	(00) Assignment	(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG
(71) CD20 IE B.V. (73) CD20 IE B.V. (11) 2022529 (00) 21.12.2022 (51) E04B 1/04 E04B 1/21 E04C 5/01	(71) IHC IQIP Holding B.V. (73) IHC IQIP Holding B.V. (11) EP3329098 (00) 19.12.2022 (51) E21D 20/00 E21D 21/00 (00) Assignment	(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG (11) EP3317435 (00) 20.12.2022 (51) C25B 1/00 C25B 3/04 C25B 9/06 C25B 15/08 (00) Assignment
(00) Assignment	(00) Assignment	(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG
(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG (11) EP3377745 (00) 20.12.2022 (51) C01B 3/04 F02C 3/22 F02C 3/28 F02C 6/00	(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG (11) EP3281211 (00) 20.12.2022 (51) H01B 12/16 H02G 15/34 (00) Assignment	(71) Sumitomo Pharma Co., Ltd. (73) Sumitomo Pharma Co., Ltd. (11) EP3355933 (00) 19.12.2022 (51) A61K 31/522 A61P 35/00 C07D 473/34 A61K 47/54 A61K 47/69 (00) Change of owner(s) name
(00) Assignment	(00) Assignment	(71) Fluence Bioengineering, Inc. (73) Fluence Bioengineering, Inc. (11) EP3248453 (00) 14.12.2022 (51) A01G 9/14 A01G 22/00 (00) Assignment
(71) SIDAM S.r.l. (73) SIDAM S.r.l. (11) EP3246058 (00) 22.12.2022 (51) A61M 5/162 A61M 39/00 A61M 39/10 A61M 39/26	(71) Ferdinand-Braun-Institut gGmbH, Leibniz-Institut für Höchstfrequenztechnik (73) Ferdinand-Braun-Institut gGmbH, Leibniz-Institut für Höchstfrequenztechnik (11) EP2595259 (00) 20.12.2022 (51) H01S 5/12 H01S 5/323 H01L 33/00 H01L 33/10 (00) Assignment	(71) Instrument Systems GmbH (73) Instrument Systems GmbH (11) EP3054273 (00) 20.12.2022 (51) G01J 3/46 G01J 3/50 G01J 3/52 (00) Change of owner(s) name
(00) Merge	(71) Siemens Energy Global GmbH & Co. KG Oleon N.V. (73) Siemens Energy Global GmbH & Co. KG Oleon N.V. (11) EP3428930 (00) 20.12.2022 (51) H01B 3/00 H01B 3/20 H02H 3/087	(71) Instrument Systems GmbH (73) Instrument Systems GmbH (11) EP3054273 (00) 20.12.2022 (51) G01J 3/46 G01J 3/50 G01J 3/52 (00) Change of owner(s) name
(71) CureVac SE (73) CureVac SE (11) EP3035955 (00) 20.12.2022 (51) A61K 39/00	(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG (11) EP3428930 (00) 20.12.2022 (51) H01B 3/00 H01B 3/20 H02H 3/087	(71) Instrument Systems GmbH (73) Instrument Systems GmbH (11) EP3054273 (00) 20.12.2022 (51) G01J 3/46 G01J 3/50 G01J 3/52 (00) Change of owner(s) name
(00) Change of Legal Entity	(00) Change of Legal Entity	(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG
(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG	(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG	(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG

(71) Ferdinand-Braun-Institut gGmbH, Leibniz-Institut für Höchstfrequenztechnik	(11) 1043779 (00) 21.12.2022	A61M 29/00 (00) Assignment
(73) Ferdinand-Braun-Institut gGmbH, Leibniz-Institut für Höchstfrequenztechnik	(51) H04L 9/32 (00) Assignment	(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG
(11) EP3449508 (00) 20.12.2022	(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG	(11) EP3005383 (00) 20.12.2022
(51) H01L 29/04 H01L 31/02 H01L 31/112 H01Q 1/22 H01Q 9/28 H01Q 23/00	(11) EP3303929 (00) 20.12.2022 (51) F23R 3/14 F23R 3/28 (00) Assignment	(51) H01F 27/38 H01F 27/42 (00) Assignment
(00) Assignment	(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG	(71) KOMET AUSTRIA GMBH (73) KOMET AUSTRIA GMBH
(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG	(11) EP3347200 (00) 20.12.2022	(11) EP3421137 (00) 20.12.2022
(11) EP2324551 (00) 20.12.2022	(51) B32B 18/00 C23C 28/00 F01D 5/28	(51) B05B 3/04 (00) Assignment
(51) F03D 7/00 F03D 7/02 F03D 7/04 H02J 3/38 F03D 9/00	(00) Assignment (71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG	(71) CureVac SE (73) CureVac SE (11) EP3294326 (00) 20.12.2022 (51) A61K 39/00 (00) Change of Legal Entity
(00) Assignment	(11) EP3390833 (00) 20.12.2022	(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG
(71) Sumitomo Pharma Co., Ltd. (73) Sumitomo Pharma Co., Ltd.	(51) F04D 29/32 F04D 29/68 (00) Assignment	(11) EP3314166 (00) 20.12.2022 (51) F23C 6/04 F23C 9/08 F23N 5/00 F23R 3/34 (00) Assignment
(11) EP3348547 (00) 19.12.2022	(71) ABB E-mobility B.V. (73) ABB E-mobility B.V.	(71) ABB E-mobility B.V. (73) ABB E-mobility B.V.
(51) A61K 31/4184 A61K 31/423 A61K 31/4439 A61K 31/497 A61K 31/501 A61K 31/506 A61K 31/5375 A61P 13/00 A61P 25/00 A61P 25/04 C07D 235/06 C07D 401/04 C07D 401/12 C07D 403/12 C07D 405/04 C07D 405/06 C07D 405/14 C07D 413/04 C07D 413/14 C07D 417/14	(11) EP2871090 (00) 19.12.2022 (51) B60L 53/20 (00) Assignment (71) ABB E-mobility B.V. (73) ABB E-mobility B.V. (11) EP3588686 (00) 19.12.2022 (51) H01R 13/00 B60L 53/00 B60L 53/14 (00) Assignment	(51) F23C 6/04 F23C 9/08 F23N 5/00 F23R 3/34 (00) Assignment (71) ABB E-mobility B.V. (73) ABB E-mobility B.V. (11) EP3572270 (00) 19.12.2022 (51) H02H 5/04 H02H 7/22 H02J 1/06 H02J 7/00 B60L 53/18 (00) Assignment
(00) Change of owner(s) name	(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG	(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG
(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG	(11) EP3140434 (00) 20.12.2022	(71) Sumitomo Pharma Co., Ltd. (73) Sumitomo Pharma Co., Ltd.
(11) EP3140434 (00) 20.12.2022	(51) F01K 23/10 F02C 6/18 F22B 1/18 F22B 29/06 (00) Assignment	(11) EP3360864 (00) 19.12.2022 (51) A61K 39/00 A61K 39/39 A61P 37/04 C07D 239/49 (00) Change of owner(s) name
(51) C25B 9/10 C25B 9/20 C25B 11/03	(51) F01D 5/02 F01D 5/30 (00) Assignment	(51) D21F 5/20 (00) Assignment
(00) Assignment	(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG	(71) Sumitomo Pharma Co., Ltd. (73) Sumitomo Pharma Co., Ltd.
(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG	(11) EP3017152 (00) 20.12.2022	(11) EP3360864 (00) 19.12.2022
(11) EP3109464 (00) 20.12.2022	(51) F01K 23/10 F02C 6/18 F22B 1/18 F22B 29/06 (00) Assignment	(51) A61K 39/00 A61K 39/39 A61P 37/04 C07D 239/49 (00) Change of owner(s) name
(51) F03D 7/04 H02J 3/36 H02J 3/38 F03D 9/25	(51) F01D 5/02 F01D 5/30 (00) Assignment	(51) D21F 5/20 (00) Assignment
(00) Assignment	(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG	(71) Siemens Energy Global GmbH & Co. KG (73) Siemens Energy Global GmbH & Co. KG
(71) Wellet B.V. (73) Wellet B.V.	(71) KEYMED (MEDICAL & INDUSTRIAL EQUIPMENT) LIMITED (73) KEYMED (MEDICAL & INDUSTRIAL EQUIPMENT) LIMITED (11) EP2937034 (00) 13.12.2022 (51) A61B 1/00 A61B 1/01 A61B 1/31 A61B 1/32 A61M 25/04	(71) RIKEN Sumitomo Chemical Company, Limited

Sumitomo Pharma Co., Ltd.	(11) EP2616799	(73) Siemens Energy Global GmbH & Co. KG
(73) RIKEN	(00) 20.12.2022	(11) EP3408429
Sumitomo Chemical Company, Limited	(51) G01M 3/00	(00) 20.12.2022
Sumitomo Pharma Co., Ltd.	G01N 25/72	(51) C25B 1/00
(11) EP3211071	G06T 7/00	C25B 3/04
(00) 19.12.2022	(00) Assignment	C25B 9/08
(51) A61L 27/00	(71) Siemens Energy Global GmbH & Co. KG	C25B 15/08
A61P 27/02	(73) Siemens Energy Global GmbH & Co. KG	(00) Assignment
C12N 5/10	(11) EP3446038	(71) Siemens Energy Global GmbH & Co. KG
C12Q 1/02	(00) 20.12.2022	(73) Siemens Energy Global GmbH & Co. KG
G01N 33/50	(51) F23M 5/04	(11) EP3405602
C12N 5/079	F23R 3/00	(00) 20.12.2022
A61K 35/44	F23R 3/60	(51) C25B 1/00
(00) Change of owner(s) name	(00) Assignment	C25B 1/10
(71) Siemens Energy Global GmbH & Co. KG	(71) Siemens Energy Global GmbH & Co. KG	C25B 9/08
(73) Siemens Energy Global GmbH & Co. KG	(73) Siemens Energy Global GmbH & Co. KG	C25B 9/18
(11) EP2050867	(11) EP3426895	C25B 15/08
(00) 20.12.2022	(00) 20.12.2022	(00) Assignment
(51) D21F 7/00	(51) F01D 5/16	(71) Siemens Energy Global GmbH & Co. KG
D21G 9/00	G06F 17/50	(73) Siemens Energy Global GmbH & Co. KG
(00) Assignment	(00) Assignment	(11) EP3430244
(71) Siemens Energy Global GmbH & Co. KG	(71) ULMA Packaging Technological Center,	(00) 20.12.2022
(73) Siemens Energy Global GmbH & Co. KG	S. COOP.	(51) F01K 13/02
(11) EP2550733	(73) ULMA Packaging Technological Center,	(00) Assignment
(00) 20.12.2022	S. COOP.	(71) Siemens Energy Global GmbH & Co. KG
(51) H02P 23/04	(11) EP3892551	(73) Siemens Energy Global GmbH & Co. KG
(00) Assignment	(00) 09.12.2022	(11) EP3469612
(71) ABB E-mobility B.V.	(51) B65B 7/16	(00) 20.12.2022
(73) ABB E-mobility B.V.	B65B 9/04	(51) H01H 31/36
(11) EP3556597	B65B 11/52	(00) Assignment
(00) 19.12.2022	B65B 31/02	(71) Siemens Energy Global GmbH & Co. KG
(51) H01R 13/00	B65B 31/04	(73) Siemens Energy Global GmbH & Co. KG
(00) Assignment	B65B 53/02	(11) EP3475016
(71) HeatWork Norway AS	(00) Change of owner(s) name	(00) 20.12.2022
(73) HeatWork Norway AS	(71) Siemens Energy Global GmbH & Co. KG	(51) B22F 3/105
(11) EP3245468	(73) Siemens Energy Global GmbH & Co. KG	B22F 5/00
(00) 20.12.2022	(11) EP3161378	B22F 5/04
(51) F28F 1/16	(00) 20.12.2022	B22F 5/10
F28D 1/04	(51) F22B 1/18	B22F 7/06
F28D 7/00	F22B 29/06	B23P 6/00
F28D 7/12	F22B 35/10	B23P 15/02
F28F 1/30	F22B 35/18	B33Y 10/00
F28F 1/40	F22D 1/02	(00) Assignment
F28F 1/42	(00) Assignment	(71) Siemens Energy Global GmbH & Co. KG
F28D 7/08	(71) Siemens Energy Global GmbH & Co. KG	(73) Siemens Energy Global GmbH & Co. KG
F28F 1/20	(73) Siemens Energy Global GmbH & Co. KG	(11) EP2842141
(00) Assignment	(11) EP2860277	(00) 20.12.2022
(71) Ferdinand-Braun-Institut gGmbH,	(00) 20.12.2022	(51) H01B 7/18
Leibniz-Institut für Höchstfrequenztechnik	(51) B05B 12/08	H01F 27/28
(73) Ferdinand-Braun-Institut gGmbH,	C23C 4/12	(00) Assignment
Leibniz-Institut für Höchstfrequenztechnik	(00) Assignment	(71) Abbott Rapid Diagnostics International
(11) EP2337168	(71) Dr. Georg Gdynia	Unlimited Company
(00) 20.12.2022	(73) Dr. Georg Gdynia	(73) Abbott Rapid Diagnostics International
(51) H01S 5/026	(11) EP3551649	Unlimited Company
H01S 5/04	(00) 19.12.2022	(11) EP3351925
H01S 5/14	(51) C07K 14/52	(00) 13.12.2022
H01S 5/183	A61K 31/496	(51) B01L 3/00
H01S 5/40	A61K 31/5025	B01L 3/02
(00) Assignment	A61K 31/7088	F16J 15/02
(71) ABB E-mobility B.V.	A61K 35/00	F16J 15/06
(73) ABB E-mobility B.V.	A61K 38/17	G01N 21/11
(11) EP3564059	A61K 45/06	G01N 33/92
(00) 19.12.2022	A61P 35/00	G01N 35/10
(51) B60L 53/00	A61P 37/02	(00) Assignment
(00) Assignment	A61P 43/00	(71) Siemens Energy Global GmbH & Co. KG
(71) Siemens Energy Global GmbH & Co. KG	(00) Assignment	(73) Siemens Energy Global GmbH & Co. KG
(73) Siemens Energy Global GmbH & Co. KG	(71) Siemens Energy Global GmbH & Co. KG	(11) EP2701163

(00) 20.12.2022	(51) H01H 31/16	(71) I&W Engineering AG
(51) H01C 7/12	(00) Assignment	(73) I&W Engineering AG
(00) Assignment	(71) Siemens Energy Global GmbH & Co. KG	(11) EP3760892
(71) Siemens Energy Global GmbH & Co. KG	(73) Siemens Energy Global GmbH & Co. KG	(00) 13.12.2022
(73) Siemens Energy Global GmbH & Co. KG	(11) EP2322683	(51) F16D 65/22
(11) EP3414362	(00) 20.12.2022	(00) Change of owner(s) name
(00) 20.12.2022	(51) C23C 4/02	(71) CureVac SE
(51) C25B 1/00	C23C 4/18	(73) CureVac SE
C25B 3/04	C23C 28/00	(11) EP3341482
C25B 9/08	F01D 5/18	(00) 20.12.2022
C25B 13/02	F01D 5/28	(51) C12N 15/63
C25B 15/08	(00) Assignment	(00) Change of Legal Entity
(00) Assignment	(71) Siemens Energy Global GmbH & Co. KG	(71) CureVac SE
(71) Siemens Energy Global GmbH & Co. KG	(73) Siemens Energy Global GmbH & Co. KG	(73) CureVac SE
(73) Siemens Energy Global GmbH & Co. KG	(11) EP3472515	(11) EP3708668
(11) EP3234229	(00) 20.12.2022	(00) 20.12.2022
(00) 20.12.2022	(51) F22B 21/00	(51) A61K 39/00
(51) C25B 1/00	F22D 1/00	C12N 15/67
C25B 3/04	F22D 11/00	(00) Change of Legal Entity
C25B 15/08	(00) Assignment	
(00) Assignment	(71) AltemOx Scientific Limited	
(71) Siemens Energy Global GmbH & Co. KG	(73) AltemOx Scientific Limited	
(73) Siemens Energy Global GmbH & Co. KG	(11) EP2841409	
(11) EP3109463	(00) 14.12.2022	
(00) 20.12.2022	(51) C07C 39/24	
(51) F03D 7/04	A61K 31/11	
H02J 3/36	C07C 69/63	
H02J 3/38	C07C 43/178	
F03D 9/25	C07C 47/565	
(00) Assignment	C07C 49/835	
(71) CureVac SE	C07C 255/53	
(73) CureVac SE	C07C 235/60	
(11) EP2814963	A01N 49/00	
(00) 20.12.2022	A01N 37/40	
(51) A61K 39/00	A61K 31/055	
A61K 39/35	C07C 65/28	
C12N 15/68	C07C 69/157	
C12N 15/117	C07C 69/84	
(00) Change of Legal Entity	A61P 1/00	
(71) AvL Motion Groep B.V.	A61P 27/02	
(73) AvL Motion Groep B.V.	A61P 31/00	
(11) 2025474	A61P 33/00	
(00) 20.12.2022	A61P 43/00	
(51) A01D 45/00	A01N 63/50	
A01D 46/30	(00) Assignment	
B65G 17/32	(71) Circular Plastics Holding B.V.	
(00) Assignment	(73) Circular Plastics Holding B.V.	
(71) Siemens Energy Global GmbH & Co. KG	(11) 2027292	
(73) Siemens Energy Global GmbH & Co. KG	(00) 22.12.2022	
(11) EP3491656	(51) B62B 3/02	
(00) 20.12.2022	A47B 96/02	
(51) H01H 33/662	A47B 57/40	
(00) Assignment	(00) Assignment	
(71) Siemens Energy Global GmbH & Co. KG	(71) Circular Plastics Holding B.V.	
(73) Siemens Energy Global GmbH & Co. KG	(73) Circular Plastics Holding B.V.	
(11) EP3433867	(11) 2028375	
(00) 20.12.2022	(00) 22.12.2022	
(51) F16H 19/06	(51) A47B 96/02	
H01H 3/30	A47B 31/00	
H01H 3/36	(00) Assignment	
H01H 33/40	(71) Arjo IP Holding AB	
H01H 33/666	(73) Arjo IP Holding AB	
(00) Assignment	(11) EP3220872	
(71) Siemens Energy Global GmbH & Co. KG	(00) 08.12.2022	
(73) Siemens Energy Global GmbH & Co. KG	(51) A61G 7/10	
(11) EP3469610	A61G 7/14	
(00) 20.12.2022	(00) Assignment	

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.**

UP2

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

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

UP3

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

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

UP4

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

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

UP5

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

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

UP6

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

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