



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.	7 Heading NP1 Contains data concerning Netherlands patent applications which have been entered in the patent register under the Patents Act 1995.	7
Rubriek NP2 Bevat gegevens betreffende ingeschreven en verleende octrooien op grond van de Octrooiwet 1995.	10 Heading NP2 Contains data concerning Netherlands patents which have been entered in the patent register under the Patents Act 1995.	10
Rubriek NP3 Bevat gegevens betreffende Nederlandse octrooien na gedeeltelijke afstand conform artikel 63 van de Octrooiwet 1995.	13 Heading NP3 Contains data concerning Netherlands patents after partial renunciation confirm Article 63 of the Patents Act 1995.	13
Rubriek EP1 Bevat gegevens betreffende vertaalde conclusies van Europese octrooiaanvragen.	14 Heading EP1 Contains data concerning translations of the conclusions of European patent applications.	14
Rubriek EP2 Bevat gegevens betreffende voor Nederland verleende Europese octrooien.	15 Heading EP2 Contains data concerning European patents granted for The Netherlands.	15
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.	181 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.	181
Rubriek EP4 Bevat gegevens betreffende voor Nederland verleende gewijzigde Europese octrooien.	213 Heading EP4 Contains data concerning European patents granted in amended form for the Netherlands.	213
Rubriek EP5 Bevat gegevens betreffende voor Nederland verleende gewijzigde	214 Heading EP5 Contains data concerning European patents granted in amended form for	214

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	216Heading SPC Contains data concerning applications for- or granted Supplementary Protection Certificates.	216
Rubriek VB1 Bevat gegevens betreffende rechten waarvoor een verzoek of bezwaarschrift is ingediend conform de Octrooiwet 1995.	217Heading VB1 Contains data concerning requests and notices of opposition under the General administrative law.	217
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.	219Heading 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.	219
Rubriek MED Bevat gegevens betreffende overige mededelingen.	220Heading MED Contains data concerning other communications.	220
Rubriek VRV Bevat gegevens betreffende verval of nietigverklaring.	221Heading VRV Contains data concerning lapse or annulment.	221
Rubriek VRB Bevat gegevens betreffende verbeteringen op eerdere publicaties.	242Heading VRB Contains data concerning corrections on earlier publications.	242
Rubriek CO Bevat gegevens betreffende wijzigingen in het octrooiregister.	243Heading CO Contains data concerning changes in the Netherland patent register.	243
Rubriek TVH Bevat gegevens betreffende topografieën van halfgeleiderproducten.	254Heading TVH Contains data concerning depots of original topographies of semi-conductor products.	254

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) A01D 57/20 A01D 84/00 A01D 89/00	(51) A45B 23/00 E04H 12/22	(51) A61K 9/00 A61K 31/728 A61M 37/00 A61P 17/12
(22) 24.08.2020	(22) 18.08.2020	(22) 13.08.2020
(54) Inrichting die verplaatsbaar is in een rijrichting over land, waarbij de inrichting is voorzien van ten minste een oppakmechanisme voor het oppakken van product van het land, alsmede van ten minste een transportband	(54) Mobile parasol base, and assembly of such a parasol base and a parasol	(54) Microneedle applicator with active ingredient for treatment of skin lesions
(71) Ploeger Oxbo Europe B.V.	(71) Platinum Group B.V.	(71) Versailles B.V.
(74) ir. A. Blokland c.s.	(74) ir. H.Th. van den Heuvel c.s.	(74) ir. J.C. Volmer c.s.
(72) Hendrik Willem Breure	(72) Kilian Ramon Audenaerde	(72) Mark Berkhout An de Naeyer
(51) A01M 7/00 B05B 9/06	(41) 14.04.2022	(72) Mark Berkhout An de Naeyer
(22) 08.12.2020	(51) A47B 3/14 A47B 85/04 A47C 11/00	(41) 13.04.2022
(54) AGRICULTURE DEVICE FOR DISPENSING A LIQUID	(22) 11.08.2020	(51) A61M 21/02 G10K 15/00 G16H 20/70 H04R 5/02 H04S 7/00
(71) EXEL Industries	(54) Een klapbaar tafelsysteem	(22) 19.08.2020
(74) dr. ir. G.J.C. Verdijck c.s.	(71) Spinwood B.V.	(54) Method and system for improving a physiological condition of a subject
(72) Simao Soares	(74) mr. ir. J. van Breda c.s.	(71) Liquid Oxigen (LOX) B.V.
(41) 14.04.2022	(72) Gijs van Daalen Buissant des Amorie Bram van Daalen Buissant des Amorie	(74) ir. A.R. Aalbers
(31) 2026315	(41) 13.04.2022	(72) Rona Geffen Paulus Oomen
(32) 20.08.2020	(51) A47F 5/11	(41) 14.04.2022
(33) Netherlands	(22) 24.08.2020	(51) A63F 9/24 G07F 17/32
(51) A23K 20/158 A23K 50/10 A23K 50/20	(54) Top structure for a display	(22) 20.08.2020
(22) 19.08.2020	(71) POZO NEGRO BEHEER B.V.	(54) STRING HANDLER AND METHOD FOR HANDLING STRINGS USEABLE FOR GAMES
(54) Methods and compositions for improving colostrum in ruminants and pseudo-ruminants	(74) ir. H.Th. van den Heuvel c.s.	(71) Johannes Hendro Yuniko Setiowaty
(71) Palital Holding B.V.	(72) Johannes Leonardus Martinus Hol	(74) drs. P.A. van Essen c.s.
(74) ir. H.A. Witmans c.s.	(41) 14.04.2022	(72) Johannes Hendro Yuniko Setiowaty
(72) Bart Jan Boomsma Hendrikus Gerardus Martinus Maria van den Bighelaar	(51) A47J 37/00 (21) 2028004 (22) 16.04.2021	(41) 14.04.2022
(41) 14.04.2022	(54) A ROTARY-PAN PIZZA OVEN	(51) B01D 53/00 B01D 53/52 B01D 53/86 B01J 19/24 C01B 17/02
(51) A41D 13/11	(71) Dongguan HaoHong Outdoor Products Technology Co., Ltd	(22) 17.08.2020
(22) 17.08.2020	(74) dr. J. van Straaten	(54) Deep cooler
(54) Face mask	(72) MengWei Yan	(71) Worley Nederland B.V.
(71) Kurt Marie Gaston Vanderspinnen Birgitta Katarina Charlotte Kjellander	(31) 202021863920.3 202021863991.3	(74) ir. H.A. Witmans c.s.
(74) ir. A. Blokland c.s.	(32) 31.08.2020 31.08.2020	(72) Tobias Roelofs Anne van Warners
(72) Birgitta Katarina Charlotte Kjellander Kurt Marie Gaston Vanderspinnen	(33) China China	(41) 14.04.2022
(41) 14.04.2022	(51) A47L 11/08 A47L 11/26 A47L 11/293 A47L 11/40	(51) B05B 1/14
(51) A45B 23/00 E04H 12/22	(22) 17.08.2020	(22) 17.08.2020
(22) 18.08.2020	(54) Self-propelled cleaning device	(54) Spray device
(54) Mobile parasol base, and assembly of such a parasol base and a parasol	(71) Wensch Holding B.V.	(71) Medspray B.V.
(71) Platinum Group B.V.	(74) ir. A. Blokland c.s.	(74) drs. A.A. Jilderda
(74) ir. H.Th. van den Heuvel c.s.	(72) Adrianus Josephus Antonius van der Wensch	(72) Cornelis Johannes Maria van Rijn
(72) Kilian Ramon Audenaerde	(41) 14.04.2022	(41) 14.04.2022
(41) 14.04.2022	(51) A61F 5/01	(51) B05B 1/14
	(22) 12.08.2020	(22) 17.08.2020
	(54) Dynamic finger splint	(54) Spray device
	(71) WE Design Beheer B.V.	
	(74) dr. R.C. van Duijvenbode c.s.	
	(72) Wouter Robin Engelshoven	

(71) Medspray B.V.	(22) 23.10.2020	(41) 14.04.2022
(74) drs. A.A. Jilderda	(54) SELF-ELEVATING OFFSHORE OVERALL WIND TURBINE INSTALLATION SHIP	(51) E04C 3/04
(72) Cornelis Johannes Maria van Rijn	(71) Guangdong University of Technology	E04C 3/08
(41) 14.04.2022	(74) drs. W.H.P. Derks	E04H 3/24
(51) B22C 9/06	(72) Deng Yu	(22) 13.08.2020
B22C 9/22	Gao Hongying	(54) Trussysteem alsmede een ladderelement en verbindingsraam voor toepassing daarin
(22) 23.02.2021	Zhang Yongkang	(71) Sixty82 B.V.
(54) FORMING MOLD FOR COMPRESSOR SCREW ROTOR	(31) 202010899321.5	(74) drs. A.A. Jilderda
(71) Shaanxi University of Technology	(32) 31.08.2020	(72) Fokke Smeding
(74) mr. ir. J. van Breda c.s.	(33) China	Marc Hendriks
(72) Yayin He	(51) B65D 5/70	Ralph Beukema
Yi Liang	(22) 17.08.2020	(41) 13.04.2022
Zhifeng Li	(54) Kinderveilige sluiting voor vouwkarton	(51) F01D 1/20
Xiaodong Ye	(71) Anderling B.V.	F02C 1/02
Zhihong Liang	(72) ir. Hendrik Christiaan Adolf Hoekstra	F02C 6/16
(41) 14.04.2022	(41) 14.04.2022	F04D 15/00
(31) 202010830703.2	(51) B65D 43/02	(22) 19.08.2020
(32) 18.08.2020	B65D 43/06	(54) System for generating an air flow
(33) China	(22) 19.08.2020	(71) JDW Innovation & Engineering
(51) B60L 53/31	(54) An article to package and distribute food safely, more durably and at lowered cost to consumers	(74) ir. H.A. Witmans c.s.
H02G 3/04	(71) Unipak Beheer B.V.	(72) Johan Smaal
H02G 11/00	Unipak B.V.	Jan de Wijs
(22) 14.08.2020	(72) Adrianus Johannes Maria Ooms	(41) 14.04.2022
(54) Laadkabelgeleideinrichting en werkwijze	(41) 14.04.2022	(51) F02B 37/00
(71) C10 design & development B.V.	(51) B65D 88/26	F02M 26/08
(74) ir. F.E. Hoeben	B65D 88/64	F02M 26/22
(72) Robert Hugo Sluijter	B65G 11/06	(22) 19.08.2020
Simon James Hemmingway Wilkinson	(22) 20.08.2020	(54) Alternative Turbo Compounding
Camille Wilhelmus van den Brande	(54) HELIX MOVER	(71) DAF Trucks N.V.
(41) 13.04.2022	(71) Ir. Klaas Wubs	(74) ir. H.A. Witmans c.s.
(51) B62J 7/08	(72) Ir. Klaas Wubs	(72) Dirk-Jan de Jong
B62J 9/21	(41) 14.04.2022	(41) 14.04.2022
B62J 9/23	(51) B66C 1/16	(51) F03B 13/16
B62J 9/27	(22) 11.08.2020	F03D 13/25
(22) 24.08.2020	(54) Transport carrier for transport of large objects and method for loading of loading goods on the transport carrier	(22) 17.08.2020
(54) Adapter for attaching a bicycle accessory and bicycle accessory therefor	(71) Sevenstar Yacht Transport B.V.	(54) HYBRID ELECTRICITY PRODUCING ARRANGEMENT
(71) Greensenz B.V.	(74) ir. H.Th. van den Heuvel c.s.	(71) Aquamarine Foundation
(74) dr. R.C. van Duijvenbode c.s.	(72) Max Stepanov	(74) ir. A. Blokland c.s.
(72) Diederick van Es	Richard Winandus Klabbers	(72) Thomas Robbert Paul Leunissen
(51) B63B 21/26	(41) 13.04.2022	(41) 14.04.2022
B63B 21/50	(51) C08J 11/16	(51) F03D 13/25
B63B 35/00	C08J 11/24	(21) 2026747
B63B 35/44	(22) 14.08.2020	(22) 23.10.2020
F03D 13/25	(54) DEPOLYMERIZATION METHOD OF A WASTE POLYMER MATERIAL AND SYSTEM THEREFORE	(54) METHOD FOR DRIVING PILE LEG TO ASCENDDDESCEND BY CYLINDERS ON FOUR SIDES OF HUGE OFFSHORE WIND TURBINE MOUNTING PLATFORM
(21) 2026746	(71) Ioniqa Technologies B.V.	(71) Guangdong University of Technology
(22) 23.10.2020	(74) dr. ir. G.J.C. Verdijck c.s.	(74) drs. W.H.P. Derks
(54) OFFSHORE WIND TURBINE INSTALLATION SHIP EQUIPPED WITH SELF-EXPANDING OBLIQUE SUPPORT TYPE PILE SHOE	(72) Fabian Wouters	(72) Zhang Yongkang
(71) Guangdong University of Technology	Joost Robert Wolters	Gao Hang
(74) drs. W.H.P. Derks	André Banier de Haan	Chou Ming
(72) Zheng Hehui	Jannigje Maria Jacomina Gravendeel	Zheng Hehui
Gao Hang	(41) 13.04.2022	Huo Xiaojian
Zhang Di	(51) E01C 19/15	Wang Zhengang
Chou Ming	E02F 3/76	Wu Qingyuan
Wang Zhengang	(22) 18.08.2020	He Yanping
Zhang Yongkang	(54) ATTACHMENT FOR A TRACTOR, IN PARTICULAR A LEVELING PLANER	(31) 202010861191.6
(31) 202010899292.2	(71) Johan Wouter Witteveen	(32) 25.08.2020
(32) 31.08.2020	(74) ir. F.A. Geurts c.s.	(33) China
(33) China	(72) Johan Wouter Witteveen	(51) F03D 17/00
(51) B63B 35/00		(21) 2026745
B63B 35/44		(22) 23.10.2020
F03D 13/25		
(21) 2026744		

(54) METHOD FOR CENTERING BOLT GROUPS OF OFFSHORE WIND TURBINE BASED ON VISUAL TRACKING	(74) dr. T. Wittop Koning PhD	(71) Willem Hendrik 't Hart
(71) Guangdong University of Technology	(72) Lei Niu	(74) ir. F.A. Geurts c.s.
(74) drs. W.H.P. Derks	Lina Xu	(72) Willem Hendrik 't Hart
(72) Gao Hang	Jingwei Cai	(41) 14.04.2022
Huo Xiaojian	Wei Tian	(51) G06Q 10/02
Zheng Hehui	Yujie Jin	G06Q 50/10
He Yanping	Yongmei Qian	(22) 19.08.2020
Xue Chi	(41) 14.04.2022	(54) Webshopmodel voor cultuuraanbieder: les bestellen zonder inschrijving en direct starten:
Zhang Yongkang	(31) 202110399073.2	(71) Jos Kamps
Deng Yu	(32) 14.04.2021	(72) Jos Kamps
(31) 202010899309.4	(33) China	(41) 14.04.2022
(32) 31.08.2020	(51) G01N 23/10	(51) G06Q 10/02
(33) China	G01N 23/222	G06Q 50/10
(51) F21V 8/00	G01V 5/00	(22) 19.08.2020
(22) 18.08.2020	(22) 11.08.2020	(54) Webshopmodel met dienstverleners en professionals zelf geëtaleerd als producten:
(54) BACKLIGHT MODULE	(54) A detection system and method for investigating a content of an item	(71) Jos Kamps
(71) Microsoft Technology Licensing, LLC	(71) Dynaxion B.V.	(72) Jos Kamps
(74) ir. J.C. Volmer c.s.	(74) drs. A.A. Jilderda	(41) 14.04.2022
(72) Nalini Kanth Kurumaddali	(72) Maximilian Messmer	(51) H02G 3/12
(41) 14.04.2022	Emma Wooldridge	(22) 17.08.2020
(51) F25C 3/02	Cornelis Pauwel Datema	(54) INSTALLATION BOX WITH VARIABLE HEIGHT
(21) 1043775	Enrico Junior Schioppa	(71) Attema B.V.
(22) 31.08.2020	(41) 13.04.2022	(74) ir. J.C. Volmer c.s.
(54) Gemodificeerde luchtverdeel-, luchtverzamel- en luchtkanalen in de ijsbaan-draag- en koelcomponenten met hun montage- en verbindingmethoden.	(51) G02C 7/08	(72) Antonie de Hoog
(71) Christiaan Vink	G02C 7/10	(41) 14.04.2022
(72) Christiaan Vink	H01R 13/24	(51) H02J 7/20
(51) G01J 1/44	(22) 14.08.2020	H02M 1/10
H01J 37/26	(54) CONNECTOR SUITABLE FOR ELECTRONICS GLASSES AND ELECTRONIC GLASSES COMPRISING SUCH A CONNECTOR	H02M 7/81
(22) 14.08.2020	(71) Morrow N.V.	(22) 21.08.2020
(54) METHOD AND SENSOR FOR MEASURING ELECTRONS	(74) dr. ir. G.J.C. Verdijck c.s.	(54) Modular reconfigurable electrical AC/DC converter
(71) Technolution BV	(72) Philip Ekkels	(71) Prodrive Technologies B.V.
(74) ir. J.H. Lunshof	Lucas Jacky P. van Dorpe	ETH Zurich
(72) ir Marc van Eert	Anna Kmecová	(74) M. Gilio
ir Rob Siegerist	Tim Ruytjens	(72) Jordi Everts
Sijmen Woutersen	Philip Madden	Johann Walter Kolar
Yannick Coquereau	Paresh Limaye	David Menzi
(41) 13.04.2022	(41) 13.04.2022	(41) 14.04.2022
(51) G01L 9/00	(51) G03F 7/20	(51) H02S 10/10
H04R 19/04	(21) 2028873	(22) 14.08.2020
(22) 18.08.2020	(22) 29.07.2021	(54) SYSTEEM VOOR HET PRODUCEREN VAN ZONNE-ELEKTRICITEIT EN VOOR GEBRUIK OP LANDBOUWGROND EN WERKWIJZE
(54) MEMS-based microphone and microphone assembly	(54) APPARATUS AND METHOD FOR PROCESSING A RETICLE AND PELLICLE ASSEMBLY	(71) Gutami Holding B.V.
(71) TECHNISCHE UNIVERSITEIT DELFT	(71) ASML Netherlands B.V.	(74) dr. ir. G.J.C. Verdijck c.s.
(74) dr. R.C. van Duijvenbode c.s.	(74) ir. A.J.M. van Hoef	(72) Arno Ferdinand Stassen
(72) Peter Gerard Steeneken	(72) Andrey Nikipelov	Henri Carel van 't Hoff
Marnix Abrahams	Cornelis Adrianus de Meijere	(41) 13.04.2022
Jorge Abraham Martinez Castaneda	Marcus Adrianus van de Kerkhof	(51) H02S 10/40
Gerard Jan Verbiest	Vadim Yevgenyevich Banine	H02S 20/22
(51) G01N 1/28	Paul Alexander Vermeulen	H02S 20/30
G01N 3/02	Parham Yaghoobi	H02S 30/10
B28B 7/00	Johannes Hubertus Josephina Moors	H02S 30/20
E02D 3/02	Guido Salmaso	(22) 12.08.2020
G01N 1/36	(31) 20192426.3	(54) SOLAR PANEL DEVICE AND METHOD
G01N 33/24	20199008.2	(71) Bob Kiezebrink Research & Development B.V.
(22) 30.07.2021	(32) 24.08.2020	(74) ir. J.C. Volmer c.s.
(54) ASSEMBLY TYPE CONSOLIDATION MODEL BOX OF REMOLDED SOIL FOR PRE-EMBEDDED HALF-FACE PILE	29.09.2020	(72) Popke Lammert Sjoerd Kiezebrink
(71) Jilin Jianzhu University	(33) European Patent Office (EPO)	(41) 13.04.2022
	European Patent Office (EPO)	
	(51) G05B 19/042	
	(22) 19.08.2020	
	(54) Device and method for diagnosing a defect in a machine, in particular in a vehicle	

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) A01D 57/20 A01D 84/00 A01D 89/00	(73) Platinum Group B.V. (72) Kilian Ramon Audenaerde (74) ir. H.Th. van den Heuvel c.s.	(54) Microneedle applicator with active ingredient for treatment of skin lesions (73) Versailles B.V. (72) Mark Berkhout An de Naeyer (74) ir. J.C. Volmer c.s.
(11) 2026328 (47) 14.04.2022 (22) 24.08.2020	(51) A45B 23/00 E04H 12/22 (11) 2026287 (47) 14.04.2022 (22) 18.08.2020	(51) A61M 21/02 G10K 15/00 G16H 20/70 H04R 5/02 H04S 7/00 (11) 2026299 (47) 14.04.2022 (22) 19.08.2020
(54) Inrichting die verplaatsbaar is in een rijrichting over land, waarbij de inrichting is voorzien van ten minste een oppakmechanisme voor het oppakken van product van het land, alsmede van ten minste een transportband	(54) Mobile parasol base, and assembly of such a parasol base and a parasol (73) Platinum Group B.V. (72) Kilian Ramon Audenaerde (74) ir. H.Th. van den Heuvel c.s.	(54) Method and system for improving a physiological condition of a subject (73) Liquid Oxygen (LOX) B.V. (72) Rona Geffen Paulus Oomen (74) ir. A.R. Aalbers
(73) Ploeger Oxbo Europe B.V. (72) Hendrik Willem Breure (74) ir. A. Blokland c.s.	(51) A47B 3/14 A47B 85/04 A47C 11/00 (11) 2026250 (47) 13.04.2022 (22) 11.08.2020	(51) A63F 9/24 G07F 17/32 (11) 2026302 (47) 14.04.2022 (22) 20.08.2020
(51) A01M 7/00 B05B 9/06 (11) 2027072 (47) 14.04.2022 (22) 08.12.2020	(54) AGRICULTURE DEVICE FOR DISPENSING A LIQUID (73) EXEL Industries (72) Simao Soares (74) dr. ir. G.J.C. Verdijk c.s.	(54) STRING HANDLER AND METHOD FOR HANDLING STRINGS USEABLE FOR GAMES (73) Johannes Hendro Yuniko Setiowaty (72) Johannes Hendro Yuniko Setiowaty (74) drs. P.A. van Essen c.s.
(31) 2026315 (32) 20.08.2020 (33) Netherlands	(73) Spinwood B.V. (72) Gijs van Daalen Buissant des Amorie Bram van Daalen Buissant des Amorie (74) mr. ir. J. van Breda c.s.	(51) A47F 5/11 (11) 2026327 (47) 14.04.2022 (22) 24.08.2020
(51) A23K 20/158 A23K 50/10 A23K 50/20 (11) 2026298 (47) 14.04.2022 (22) 19.08.2020	(54) Top structure for a display (73) POZO NEGRO BEHEER B.V. (72) Johannes Leonardus Martinus Hol (74) ir. H.Th. van den Heuvel c.s.	(51) B01D 53/00 B01D 53/52 B01D 53/86 B01J 19/24 C01B 17/02 (11) 2026277 (47) 14.04.2022 (22) 17.08.2020
(54) Methods and compositions for improving colostrum in ruminants and pseudo-ruminants (73) Palital Holding B.V. (72) Bart Jan Boomsma Hendrikus Gerardus Martinus Maria van den Bighelaar (74) ir. H.A. Witmans c.s.	(51) A47L 11/08 A47L 11/26 A47L 11/293 A47L 11/40 (11) 2026276 (47) 14.04.2022 (22) 17.08.2020	(54) Deep cooler (73) Worley Nederland B.V. (72) Tobias Roelofs Anne van Warners (74) ir. H.A. Witmans c.s.
(51) A41D 13/11 (11) 2026278 (47) 14.04.2022 (22) 17.08.2020	(74) Self-propelled cleaning device (73) Wensch Holding B.V. (72) Adrianus Josephus Antonius van der Wensch (74) ir. A. Blokland c.s.	(51) B05B 1/14 (11) 2026281 (47) 14.04.2022 (22) 17.08.2020
(54) Face mask (73) Kurt Marie Gaston Vanderspinnen Birgitta Katarina Charlotte Kjellander (72) Birgitta Katarina Charlotte Kjellander Kurt Marie Gaston Vanderspinnen (74) ir. A. Blokland c.s.	(51) A61F 5/01 (11) 2026259 (47) 13.04.2022 (22) 12.08.2020	(54) Spray device (73) Medspray B.V. (72) Cornelis Johannes Maria van Rijn (74) drs. A.A. Jilderda
(51) A45B 23/00 E04H 12/22 (11) 2026286 (47) 14.04.2022 (22) 18.08.2020	(54) Dynamic finger splint (73) WE Design Beheer B.V. (72) Wouter Robin Engelshoven (74) dr. R.C. van Duijvenbode c.s.	(51) B05B 1/14 (11) 2026282 (47) 14.04.2022 (22) 17.08.2020
(54) Mobile parasol base, and assembly of such a parasol base and a parasol	(51) A61K 9/00 A61K 31/728 A61M 37/00 A61P 17/12 (11) 2026264 (47) 13.04.2022 (22) 13.08.2020	(54) Spray device (73) Medspray B.V. (72) Cornelis Johannes Maria van Rijn (74) drs. A.A. Jilderda

(51) B22C 9/06 B22C 9/22	(72) Ir. Klaas Wubs	(22) 19.08.2020
(11) 2027618	(51) B66C 1/16	(54) Alternative Turbo Compounding
(47) 14.04.2022	(11) 2026254	(73) DAF Trucks N.V.
(22) 23.02.2021	(47) 13.04.2022	(72) Dirk-Jan de Jong
(54) FORMING MOLD FOR COMPRESSOR SCREW ROTOR	(22) 11.08.2020	(74) ir. H.A. Witmans c.s.
(73) Shaanxi University of Technology	(54) Transport carrier for transport of large objects and method for loading of loading goods on the transport carrier	(51) F03B 13/16 F03D 13/25
(72) Yayin He	(73) Sevenstar Yacht Transport B.V.	(11) 2026280
Yi Liang	(72) Max Stepanov	(47) 14.04.2022
Zhifeng Li	Richard Winandus Klabbers	(22) 17.08.2020
Xiaodong Ye	(74) ir. H.Th. van den Heuvel c.s.	(54) HYBRID ELECTRICITY PRODUCING ARRANGEMENT
Zhihong Liang	(51) C08J 11/16	(73) Aquamarine Foundation
(74) mr. ir. J. van Breda c.s.	C08J 11/24	(72) Thomas Robbert Paul Leunissen
(31) 202010830703.2	(11) 2026273	(74) ir. A. Blokland c.s.
(32) 18.08.2020	(47) 13.04.2022	(51) F21V 8/00
(33) China	(22) 14.08.2020	(11) 2026289
(51) B60L 53/31	(54) DEPOLYMERIZATION METHOD OF A WASTE POLYMER MATERIAL AND SYSTEM THEREFORE	(47) 14.04.2022
H02G 3/04	(73) Ioniqa Technologies B.V.	(22) 18.08.2020
H02G 11/00	(72) Fabian Wouters	(54) BACKLIGHT MODULE
(11) 2026274	Joost Robert Wolters	(73) Microsoft Technology Licensing, LLC
(47) 13.04.2022	André Banier de Haan	(72) Nalini Kanth Kurumaddali
(22) 14.08.2020	Jannigje Maria Jacomina Gravendeel	(74) ir. J.C. Volmer c.s.
(54) Laadkabelgeleideinrichting en werkwijze	(74) dr. ir. G.J.C. Verdijck c.s.	(51) G01J 1/44 H01J 37/26
(73) C10 design & development B.V.	(51) E01C 19/15	(11) 1043763
(72) Robert Hugo Sluijter	E02F 3/76	(47) 13.04.2022
Simon James Hemmingway Wilkinson	(11) 2026288	(22) 14.08.2020
Camille Wilhelmus van den Brande	(47) 14.04.2022	(54) METHOD AND SENSOR FOR MEASURING ELECTRONS
(74) ir. F.E. Hoeben	(22) 18.08.2020	(73) Technolution BV
(51) B62J 7/08	(54) ATTACHMENT FOR A TRACTOR, IN PARTICULAR A LEVELING PLANER	(72) ir Marc van Eert ir Rob Siegerist Sijmen Woutersen Yannick Coquereau
B62J 9/21	(73) Johan Wouter Witteveen	(74) ir. J.H. Lunshof
B62J 9/23	(72) Johan Wouter Witteveen	(51) G01L 9/00 H04R 19/04
B62J 9/27	(74) ir. F.A. Geurts c.s.	(11) 2026284
(11) 2026326	(51) E04C 3/04	(47) 14.04.2022
(47) 14.04.2022	E04C 3/08	(22) 18.08.2020
(22) 24.08.2020	E04H 3/24	(54) MEMS-based microphone and microphone assembly
(54) Adapter for attaching a bicycle accessory and bicycle accessory therefor	(11) 2026265	(73) TECHNISCHE UNIVERSITEIT DELFT
(73) Greensenz B.V.	(47) 13.04.2022	(72) Peter Gerard Steeneken
(72) Diederick van Es	(22) 13.08.2020	Marnix Abrahams Jorge Abraham Martinez Castaneda Gerard Jan Verbiest
(74) dr. R.C. van Duijvenbode c.s.	(54) Trussysteem alsmede een ladder-element en verbindingsraam voor toepassing daarin	(74) dr. R.C. van Duijvenbode c.s.
(51) B65D 5/70	(73) Sixty82 B.V.	(51) G01N 1/28 G01N 3/02 B28B 7/00 E02D 3/02 G01N 1/36 G01N 33/24
(11) 1043759	(72) Fokke Smeding	(11) 2028888
(47) 14.04.2022	Marc Hendriks	(47) 14.04.2022
(22) 17.08.2020	Ralph Beukema	(22) 30.07.2021
(54) Kinderveilige sluiting voor vouwkarton	(74) drs. A.A. Jilderda	(54) ASSEMBLY TYPE CONSOLIDATION MODEL BOX OF REMOLDED SOIL FOR PRE-EMBEDDED HALF-FACE PILE
(73) Anderling B.V.	(51) F01D 1/20	(73) Jilin Jianzhu University
(72) ir. Hendrik Christiaan Adolf Hoekstra	F02C 1/02	(72) Lei Niu
(51) B65D 43/02	F02C 6/16	Lina Xu
B65D 43/06	F04D 15/00	Jingwei Cai
(11) 1043765	(11) 2026297	Wei Tian
(47) 14.04.2022	(47) 14.04.2022	
(22) 19.08.2020	(22) 19.08.2020	
(54) An article to package and distribute food safely, more durably and at lowered cost to consumers	(54) System for generating an air flow	
(73) Unipak Beheer B.V.	(73) JDW Innovation & Engineering	
Unipak B.V.	(72) Johan Smaal	
(72) Adrianus Johannes Maria Ooms	Jan de Wijs	
(51) B65D 88/26	(74) ir. H.A. Witmans c.s.	
B65D 88/64	(51) F02B 37/00	
B65G 11/06	F02M 26/08	
(11) 1043766	F02M 26/22	
(47) 14.04.2022	(11) 2026301	
(22) 20.08.2020	(47) 14.04.2022	
(54) HELIX MOVER		
(73) Ir. Klaas Wubs		

Yujie Jin	(72) Jos Kamps
Yongmei Qian	(51) H02G 3/12
(74) dr. T. Wittop Koning PhD	(11) 2026275
(31) 202110399073.2	(47) 14.04.2022
(32) 14.04.2021	(22) 17.08.2020
(33) China	(54) INSTALLATION BOX WITH VARIABLE HEIGHT
(51) G01N 23/10	(73) Attema B.V.
G01N 23/222	(72) Antonie de Hoog
G01V 5/00	(74) ir. J.C. Volmer c.s.
(11) 2026256	(51) H02J 7/20
(47) 13.04.2022	H02M 1/10
(22) 11.08.2020	H02M 7/81
(54) A detection system and method for investigating a content of an item	(11) 2026324
(73) Dynaxion B.V.	(47) 14.04.2022
(72) Maximilian Messmer	(22) 21.08.2020
Emma Wooldridge	(54) Modular reconfigurable electrical AC/DC converter
Cornelis Pauwel Datema	(73) Prodrive Technologies B.V.
Enrico Junior Schioppa	ETH Zurich
(74) drs. A.A. Jilderda	(72) Jordi Everts
(51) G02C 7/08	Johann Walter Kolar
G02C 7/10	David Menzi
H01R 13/24	(74) M. Gilio
(11) 2026272	(51) H02S 10/10
(47) 13.04.2022	(11) 2026267
(22) 14.08.2020	(47) 13.04.2022
(54) CONNECTOR SUITABLE FOR ELECTRONICS GLASSES AND ELECTRONIC GLASSES COMPRISING SUCH A CONNECTOR	(22) 14.08.2020
(73) Morrow N.V.	(54) SYSTEEM VOOR HET PRODUCEREN VAN ZONNE-ELEKTRICITEIT EN VOOR GEBRUIK OP LANDBOUWGROND EN WERKWIJZE
(72) Philip Ekkels	(73) Gutami Holding B.V.
Lucas Jacky P. van Dorpe	(72) Arno Ferdinand Stassen
Anna Kmečová	Henri Carel van 't Hoff
Tim Ruytjens	(74) dr. ir. G.J.C. Verdijck c.s.
Philip Madden	(51) H02S 10/40
Paresh Limaye	H02S 20/22
(74) dr. ir. G.J.C. Verdijck c.s.	H02S 20/30
(51) G05B 19/042	H02S 30/10
(11) 2026300	H02S 30/20
(47) 14.04.2022	(11) 2026260
(22) 19.08.2020	(47) 13.04.2022
(54) Device and method for diagnosing a defect in a machine, in particular in a vehicle	(22) 12.08.2020
(73) Willem Hendrik 't Hart	(54) SOLAR PANEL DEVICE AND METHOD
(72) Willem Hendrik 't Hart	(73) Bob Kiezebrink Research & Development B.V.
(74) ir. F.A. Geurts c.s.	(72) Popke Lammert Sjoerd Kiezebrink
(51) G06Q 10/02	(74) ir. J.C. Volmer c.s.
G06Q 50/10	
(11) 1043762	
(47) 14.04.2022	
(22) 19.08.2020	
(54) Webshopmodel met dienstverleners en professionals zelf geëtaleerd als producten:	
(73) Jos Kamps	
(72) Jos Kamps	
(51) G06Q 10/02	
G06Q 50/10	
(11) 1043761	
(47) 14.04.2022	
(22) 19.08.2020	
(54) Webshopmodel voor cultuuraanbieder: les bestellen zonder inschrijving en direct starten:	
(73) Jos Kamps	

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.

(43) 15.12.2021

(11) EP3921256

(51) B65G 47/84

(71) National Presort, L.P.

EP2

Voor Nederland verleende Europese octrooien.

Contains data concerning European patents granted for The Netherlands.

(51) A01B 39/18	26.09.2019	(47) 20.04.2022
A01B 39/10	(22) 23.03.2018	(87) CA2018050522
(11) EP3610712	(54) PLACEMENT POSITION NOTIFICATION	08.11.2018
(21) EP18189448.6	SYSTEM	(22) 02.05.2018
(47) 20.04.2022	(73) HONDA MOTOR CO., LTD.	(54) METHOD OF GROWING PLANTS
(22) 17.08.2018	(72) MURO, Keiji	USING LED LIGHT AND LED LIGHT
(54) AGRICULTURAL CROSS-PROCESSING DEVICE	SHIMAMURA, Hideaki	SYSTEM EMPLOYING SAME
(73) Schulte, Reinhold	KANEKO, Runa	(73) 10644137 Canada Inc.
(72) Schulte, Reinhold	KAMEYAMA, Naoki	(72) SCHERWITZ, Sam
(51) A01B 45/02	(51) A01D 34/416	PAHLEVANINEZHAD, Hamid
(11) EP3595426	(11) EP3766326	PAHLEVANINEZHAD, Majid
(21) EP18717970.0	(21) EP19204648.0	(31) 201762586315 P
(47) 20.04.2022	(47) 20.04.2022	201762500096 P
(87) GB2018000038	(22) 22.10.2019	(32) 15.11.2017
20.09.2018	(54) A MOWER WIRE BOX WITH A TAKE-UP STRUCTURE	02.05.2017
(22) 14.03.2018	(73) Suzhou Yuyuan Machinery Co., Ltd	(33) United States of America
(54) GROUND AERATION DEVICE	(72) QIN, Guirong	United States of America
(73) Knight, Peter	(31) 201910643301	(51) A01K 7/06
(72) Knight, Peter	(32) 17.07.2019	A01K 39/02
(31) 201722185	(33) China	(11) EP3716758
201704047	(51) A01F 15/12	(21) EP18815106.2
(32) 28.12.2017	(11) EP3760033	(47) 20.04.2022
14.03.2017	(21) EP20181687.3	(87) EP2018000522
(33) United Kingdom	(47) 20.04.2022	06.06.2019
United Kingdom	(22) 23.06.2020	(22) 21.11.2018
(51) A01B 76/00	(54) NEEDLE FRAME YOKE AND ARM ASSEMBLY FOR AGRICULTURAL MACHINE	(54) DRINKING TROUGH, IN PARTICULAR FOR BEAK ANIMALS
A01B 79/02	(73) Deere & Company	(73) LUBING Maschinenfabrik Ludwig Bening GmbH & Co. KG
A01B 61/00	(72) Pieper, Mark A.	(72) ABELN, Michael
(11) EP3406122	Tortorella, Nathan F.	HAWK, Chris
(21) EP18169355.7	El-Zein, Mohamad S.	(31) 102017011041
(47) 20.04.2022	Portillo, Hector	(32) 29.11.2017
(22) 25.04.2018	Roth, Darin L.	(33) Germany
(54) SENSOR SYSTEM FOR DETERMINING SOIL CHARACTERISTICS	Guthy, Hema V.	(51) A01K 11/00
(73) Deere & Company	Subramaniam, Sankaran	(11) EP3823440
(72) RHODES, Michael	Aeschliman, Todd C.	(21) EP18746867.3
PUHALLA, Jeffrey	Hallale, Sanjeev M.	(47) 20.04.2022
TEVS, Nikolai	(31) 201916459018	(87) EP2018069656
(31) 201715605251	(32) 01.07.2019	23.01.2020
(32) 25.05.2017	(33) United States of America	(22) 19.07.2018
(33) United States of America	(51) A01G 3/08	(54) SYSTEM FOR SAMPLING TISSUE
(51) A01C 23/00	B25F 3/00	(73) Datamars SA
(11) EP2989879	B25F 5/02	(72) IORI, Marco
(21) EP15182543.7	B27B 17/00	BONGIORNO, Alessandro
(47) 20.04.2022	(11) EP3518650	PACHOUD, Damien
(22) 26.08.2015	(21) EP17783688.9	(51) A01K 47/04
(54) A SLURRY DISTRIBUTOR	(47) 20.04.2022	A01K 59/00
(73) Sørensen, Harry Højvang	(87) US2017054401	A01K 47/02
(72) Sørensen, Harry Højvang	05.04.2018	A01K 47/06
(31) 201400478	(22) 29.09.2017	(11) EP3255980
(32) 28.08.2014	(54) SPLIT POWER TOOL	(21) EP16748487.2
(33) Denmark	(73) MTD products Inc	(47) 20.04.2022
(51) A01D 34/00	(72) HARRIS, Breck	(87) AU2016050087
G05D 1/02	(31) 201662401556 P	18.08.2016
A01B 69/04	(32) 29.09.2016	(22) 12.02.2016
A01B 69/00	(33) United States of America	(54) A BEE-BENIGN ARTIFICIAL HONEYCOMB
(11) EP3769598	(51) A01G 7/04	(73) Flowbee Australia Pty Ltd
(21) EP18910642.0	(11) EP3618608	(72) ANDERSON, Cedar Joseph
(47) 20.04.2022	(21) EP18794259.4	ANDERSON, Stuart Ralph
(87) JP2018011849		

(31) 2015901124 2015900452	12.09.2019	26.09.2017
(32) 27.03.2015 12.02.2015	(22) 05.03.2018	(33) Japan
(33) Australia Australia	(54) INTEGRATED NOZZLE FOR PORTABLE AGRICULTURAL MACHINERY	Japan
(51) A01K 67/027 C12N 15/85 C07K 16/46	(73) Cifarelli S.p.A. (72) CIFARELLI, Roberto	(51) A01N 37/44 A01P 1/00 A01N 47/44 A61K 31/385 A61K 31/155 A61P 31/04
(11) EP3311661 (21) EP17196235.0 (47) 20.04.2022 (22) 18.09.2012	(51) A01M 21/04 A01N 59/06 A01N 59/08 A01P 13/00	(11) EP3590337 (21) EP19020461.0 (47) 20.04.2022 (22) 24.03.2015
(54) MANIPULATION OF IMMUNOGLOBULIN GENE DIVERSITY AND MULTI-ANTIBODY THERAPEUTICS	(11) EP3531831 (21) EP17777779.4 (47) 20.04.2022 (87) DK2017050303 03.05.2018	(54) MEDICAL USE OF A LIQUID ANTIMICROBIAL COMPOSITION
(73) Kymb Limited (72) ENGLAND, Nicholas LEE, E-Chiang CLUBE, Jasper FRIEDRICH, Glenn A	(22) 21.09.2017 (54) METHOD AND APPARATUS FOR WEED CONTROL WITH MICROWAVES	(73) GAMA HEALTHCARE LTD (72) Mistry, Dharmit Hallinan, Mark, James Fellows, Adrian, Neville
(31) 201211692 201208749 201205702 201204592 201203257 201116120 201116122	(73) Weed Fighter ApS (72) SCHMIDT, Jan Hugo (31) PA201600663 (32) 28.10.2016 (33) Denmark	(31) 201405660 (32) 28.03.2014 (33) United Kingdom
(32) 02.07.2012 18.05.2012 29.03.2012 15.03.2012 24.02.2012 19.09.2011 19.09.2011	(51) A01N 1/02 A01N 1/00 F26B 5/06 F26B 21/14 F26B 25/12	(51) A21D 8/02 A21D 10/02 (11) EP3419427 (21) EP17753727.1 (47) 20.04.2022 (87) US2017017904 24.08.2017
(33) United Kingdom United Kingdom United Kingdom United Kingdom United Kingdom United Kingdom	(11) EP3583847 (21) EP17896492.0 (47) 20.04.2022 (87) CN2017074762 23.08.2018 (22) 24.02.2017 (54) CELL FREEZE-DRYING SYSTEM AND METHOD	(22) 15.02.2017 (54) BAKING LIPASES (73) BASF SE (72) TAN, Xuqiu LISZKA, Michael POP, Cristina HUSTON DAVENPORT, Adrienne SEITTER, Michael, Friedrich Hermann HAEFNER, Stefan KUTSCHER, Jochen FUNKE, Andreas
(51) A01K 87/04 (11) EP3741210 (21) EP18901040.8 (47) 20.04.2022 (87) JP2018047623 25.07.2019 (22) 25.12.2018	(73) Xu, Xiaoyang (72) Xu, Xiaoyang (31) 201710090552 (32) 20.02.2017 (33) China	(31) 201662297582 P (32) 19.02.2016 (33) United States of America
(54) FISHING LINE GUIDE AND FISHING ROD EQUIPPED WITH SAME	(51) A01N 37/04 A01N 25/10 A01N 37/10 A01P 1/00 C02F 1/50 C08F 2/48	(51) A21D 13/062 C12N 9/28 A21D 8/04 (11) EP3166412 (21) EP15735944.9 (47) 20.04.2022 (87) EP2015065612 14.01.2016 (22) 08.07.2015
(73) Fuji Kogyo Co., Ltd. (72) OMURA, Kazuhito (31) 2018005465 20180093079 20180024645	(11) EP3459353 (21) EP18196412.3 (47) 20.04.2022 (22) 25.09.2018 (54) SYNTHETIC POLYMER FILM WHOSE SURFACE HAS MICROBICIDAL ACTIVITY, PHOTOCURABLE RESIN COMPOSITION, MANUFACTURING METHOD OF SYNTHETIC POLYMER FILM, AND STERILIZATION METHOD WITH USE OF SURFACE OF SYNTHETIC POLYMER FILM	(54) SUGAR-PRODUCING AND TEXTURE- IMPROVING BAKERY METHODS AND PRODUCTS FORMED THEREFROM
(32) 17.01.2018 09.08.2018 28.02.2018	(73) Sharp Kabushiki Kaisha (72) SHIBAI, Yasuhiro YAMADA, Miho MINOURA, Kiyoshi ATSUMO, Ken	(73) Caravan Ingredients Inc. (72) SKOGERSON, Lawrence FENG, GuoHua GUILFOYLE, Emily STINSON, Jesse
(33) Japan Korea (Republic) Korea (Republic)	(31) 2017226887 2017185204 (32) 27.11.2017	(31) 201462021899 P 14176074 (32) 08.07.2014 08.07.2014 (33) United States of America European Patent Office (EPO)
(51) A01M 7/00 (11) EP3761786 (21) EP18732496.7 (47) 20.04.2022 (87) IT2018000034		(51) A22C 11/10 (11) EP3909430

(21) EP21170025.7	(22) 01.07.2014	(72) SPRENGER, Norbert
(47) 20.04.2022	(54) HUMAN DIET EQUIVALENT ANIMAL FEED	BRASSART, Dominique
(22) 22.04.2021	(73) Washington University	(31) 15168137
(54) DEVICE FOR DIVIDING SAUSAGES INTO PORTIONS	Intercontinental Great Brands LLC	(32) 19.05.2015
(73) Concept Epices Sarl	(72) Lyle, Barbara	(33) European Patent Office (EPO)
(72) GINDREAU, Manuel	Martini, Peggy	(51) A23L 33/00
(31) 2004718	Hayashi, David	A23L 33/20
(32) 13.05.2020	Gordon, Jeffrey	(11) EP3573481
(33) France	(31) 201361869047 P	(21) EP18704878.0
(51) A22C 29/00	201361841786 P	(47) 20.04.2022
A22C 29/02	(32) 22.08.2013	(87) EP2018051590
A01K 61/59	01.07.2013	02.08.2018
B65B 13/02	(33) United States of America	(22) 23.01.2018
(11) EP3701798	United States of America	(54) DIET COMPOSITION FOR THE PREVENTION AND/OR THE TREATMENT OF ENDOMETRIAL HYPERPLASIA
(21) EP20159904.0	(51) A23L 15/00	(73) Università degli Studi di Genova
(47) 20.04.2022	A23L 17/00	L-Nutra Inc.
(22) 27.02.2020	A23L 29/212	(72) BECHERINI, Pamela
(54) CRUSTACEAN PINCER RESTRAINT	(11) EP3697232	NENCIONI, Alessio
(73) MacLennan, Gordon	(21) EP18796379.8	CAFFA, Irene
(72) MacLennan, Gordon	(47) 20.04.2022	LONGO, Valter
(31) 201902654	(87) EP2018078755	(31) 201700008499
(32) 27.02.2019	25.04.2019	(32) 26.01.2017
(33) United Kingdom	(22) 19.10.2018	(33) Italy
(51) A23C 20/02	(54) TEXTURISED SEAFOOD ANALOGUE PRODUCTS, USE OF PEA STARCH AND POTATO STARCH TO REPLACE EGG WHITE AND METHOD OF PREPARATION	(51) A23L 33/16
A23C 11/10	(73) Cosucra Groupe Warcoing S.A.	A23L 33/105
(11) EP3903601	(72) DESCAMPS, Mary	(11) EP3657964
(21) EP20171571.1	GUIOT, Ludivine	(21) EP18753247.8
(47) 20.04.2022	(31) 17197265	(47) 20.04.2022
(22) 27.04.2020	(32) 19.10.2017	(87) IB2018055454
(54) METHODS OF PROCESSING CULINARY NUTS AND EXTRACTION PRODUCTS OBTAINED BY THE SAME	(33) European Patent Office (EPO)	31.01.2019
(73) Zürcher Hochschule Für Angewandte Wissenschaften	(51) A23L 27/26	(22) 23.07.2018
Unico-first AG	A23L 27/10	(54) FOOD SUPPLEMENTS FOR USE IN THE PROPHYLAXIS AND TREATMENT OF MIGRAINE
(72) HÜHN, Tilo	A23L 33/145	(73) Cristalfarma S.r.l.
LAUX, Roland	A23L 23/00	(72) BONOMO, Francesco
(51) A23J 1/00	(11) EP3869977	DEL BONO, Maria Cristina
A23J 1/20	(21) EP19784082.0	(31) 201700085185
A23L 15/00	(47) 20.04.2022	(32) 26.07.2017
A23L 33/185	(87) EP2019077850	(33) Italy
A23L 33/19	30.04.2020	(51) A24D 1/02
(11) EP3735132	(22) 15.10.2019	A24D 1/20
(21) EP19700024.3	(54) PROCESS FOR THE PREPARATION OF A FLAVOURING	A24F 40/20
(47) 20.04.2022	(73) Unilever IP Holdings B.V.	(11) EP3788891
(87) EP2019050087	(72) BATENBURG, Amir, Maximiliaan	(21) EP20201803.2
11.07.2019	VAN HOEK, Jacoba, Carolina	(47) 20.04.2022
(22) 03.01.2019	KOEK, Jean, Hypolites	(22) 19.05.2017
(54) FOAM COMPRISING RAPESEED AND DAIRY PROTEINS	(31) 18202703	(54) SYSTEM COMPRISING A HEATING APPARATUS ARRANGED TO HEAT SMOKABLE MATERIAL AND A SMOKING ARTICLE
(73) DSM IP Assets B.V.	(32) 25.10.2018	(73) Nicoventures Trading Limited
(72) SHI, Jing	(33) European Patent Office (EPO)	(72) ENGLAND, William
(31) 18150470	(51) A23L 33/00	GOMEZ, Pablo Javier Ballesteros
(32) 05.01.2018	A23C 9/20	WOODMAN, Thomas Alexander John
(33) European Patent Office (EPO)	G01N 33/53	PHILLIPS, Jeremy
(51) A23K 10/00	(11) EP3298404	(31) 201608931
A23K 10/10	(21) EP16725437.4	(32) 20.05.2016
A23K 10/18	(47) 20.04.2022	(33) United Kingdom
A23K 40/20	(87) EP2016061066	(51) A24D 3/17
A23K 10/20	24.11.2016	(11) EP3700366
A23K 10/30	(22) 18.05.2016	(21) EP19787177.5
A23K 50/00	(54) KIT-OF-PARTS TO IDENTIFY MOTHER'S MILK MISSING	(47) 20.04.2022
A23K 50/40	FUCOSYLTRANSFERASE-2	(87) EP2019077231
A23K 50/50	DEPENDENT GLYCANS	09.07.2020
(11) EP3735836	(73) Société des Produits Nestlé S.A.	
(21) EP20167385.2		
(47) 20.04.2022		

(22) 08.10.2019	(73) Shenzhen IVPS Technology Co., Ltd.	(72) VOS, Gavin Michael
(54) BIODEGRADABLE SEGMENT OF A SMOKING PRODUCT	(72) CHEN, Wen	(31) 107120239
(73) delfortgroup AG	(31) 201621452909 U	(32) 12.06.2018
(72) BACHMANN, Stefan	(32) 27.12.2016	(33) Taiwan, Province of China
VOLGGER, Dietmar	(33) China	<hr/>
(31) 102019100112	(51) A24F 47/00	(51) A43B 1/00
(32) 04.01.2019	(11) EP3135140	A43B 3/00
(33) Germany	(21) EP16197190.8	(11) EP3720310
<hr/>	(47) 20.04.2022	(21) EP18830939.7
(51) A24F 40/40	(22) 03.11.2016	(47) 20.04.2022
A24F 40/60	(54) LIQUID SUPPLY, ATOMIZER AND ELECTRONIC CIGARETTE HAVING SAME	(87) IB2018059629
A24F 40/10	(73) Shenzhen First Union Technology Co., Ltd.	13.06.2019
(11) EP3479709	(72) LI, Yonghai	(22) 04.12.2018
(21) EP18186094.1	XU, Zhongli	(54) FOOTWEAR STRUCTURE WITH ELECTRONIC LIGHT SYSTEM
(47) 20.04.2022	JIANG, Zhanjun	(73) Geox S.p.A.
(22) 27.07.2018	(31) 201520871409 U	(72) MORETTI POLEGATO, Mario
(54) ELECTRONIC CIGARETTE	(32) 04.11.2015	ZILIO, Massimo
(73) Shenzhen IVPS Technology Co., Ltd.	(33) China	(31) 201700140116
(72) CHEN, Wen	(51) A24F 47/00	(32) 05.12.2017
(31) 201721489584 U	H05B 6/00	(33) Italy
(32) 07.11.2017	H05B 3/00	<hr/>
(33) China	(11) EP3692846	(51) A43B 1/04
<hr/>	(21) EP20166260.8	A43B 3/00
(51) A24F 40/44	(47) 20.04.2022	A43B 23/02
A24F 40/46	(22) 08.05.2017	A43B 23/07
(11) EP3563701	(54) AEROSOL-GENERATING DEVICE COMPRISING A SENSOR	(11) EP3405056
(21) EP19192035.4	(73) Philip Morris Products S.A.	(21) EP17702251.4
(47) 20.04.2022	(72) COLOTTE, Guillaume	(47) 20.04.2022
(22) 16.08.2019	BILAT, Stephane	(87) US2017013964
(54) HEATER, CARTRIDGE, ATOMIZER AND ELECTRONIC CIGARETTE HAVING SAME	(31) 16171790	27.07.2017
(73) Shenzhen First Union Technology Co., Ltd.	(32) 27.05.2016	(22) 18.01.2017
(72) LI, Zhengfa	(33) European Patent Office (EPO)	(54) FOOTWEAR WITH EMBROIDERY TRANSITION BETWEEN MATERIALS
LI, Yonghai	(51) A41C 3/14	(73) NIKE Innovate C.V.
LEI, Baoling	A41C 3/02	(72) LYKE, Christopher J.
ZHANG, Qing	A41C 3/00	HO, Lai Wa C.
HUANG, Desheng	(11) EP3216360	(31) 201662280547 P
XU, Zhongli	(21) EP16159832.1	(32) 19.01.2016
ZHANG, Yunkai	(47) 20.04.2022	(33) United States of America
(31) 201810940788	(22) 11.03.2016	<hr/>
(32) 17.08.2018	(54) AN IMPROVED BRA	(51) A43B 3/00
(33) China	(73) Guy's and St Thomas' NHS Foundation Trust	A43B 7/00
<hr/>	(72) ROCHON, Melissa	A43B 7/08
(51) A24F 40/46	(51) A42B 3/04	A43B 17/00
(11) EP3741225	(11) EP3747293	(11) EP3799754
(21) EP20180096.8	(21) EP20177408.0	(21) EP20199948.9
(47) 20.04.2022	(47) 20.04.2022	(47) 20.04.2022
(22) 26.11.2010	(22) 29.05.2020	(22) 02.10.2020
(54) AN ELECTRICALLY HEATED SMOKING SYSTEM WITH EXTERNAL HEATER	(54) EQUIPMENT FOR NECK PROTECTION	(54) FOOTWEAR FOR COOLING AND HEATING A USER'S FOOT
(73) Philip Morris Products S.A.	(73) D'Urso, Francesco	(73) ICC - Industrias E Comércio de Calçado, SA
(72) ZUBER, Gerard	(72) D'Urso, Francesco	(72) DA CUNHA FERNANDES, Helena Filipa
PLOJOUX, Julien	(31) 20190008319	CERQUEIRA DA SILVA, Filipe
RUSCIO, Dani	(32) 07.06.2019	MATOS SILVA, Sónia Isabel
GREIM, Olivier	(33) Italy	RIBEIRO GONÇALVES LEITE, Teófilo
(31) 09252687	(51) A42B 3/06	Óscar
(32) 27.11.2009	(11) EP3756496	MOREIRA FERRAZ, João
(33) European Patent Office (EPO)	(21) EP20189808.7	POÇAS GONÇALVES, José Joaquim
<hr/>	(47) 20.04.2022	TORRES PIMENTA, Joana Catarina
(51) A24F 40/485	(22) 19.06.2018	(31) 2019115812
A24F 40/44	(54) SAFETY HELMET CAPABLE OF ABSORBING MULTI-DIRECTION IMPACT	(32) 02.10.2019
A24F 40/46	(73) VOG - Image Police Inc.	(33) Portugal
A24F 40/10		<hr/>
(11) EP3342296		(51) A43B 7/12
(21) EP17209197.7		A43B 7/32
(47) 20.04.2022		A43B 9/02
(22) 20.12.2017		A43B 13/42
(54) ATOMIZER AND ELECTRONIC CIGARETTE HAVING SAME		(11) EP2037767
		(21) EP07725712.9

(47) 20.04.2022	(47) 20.04.2022	(21) EP18748992.7
(87) EP2007004831	(87) EP2018055538	(47) 20.04.2022
10.01.2008	20.09.2018	(87) FR2018051519
(22) 31.05.2007	(22) 07.03.2018	27.12.2018
(54) WATERPROOF VAPOR-PERMEABLE SHOE	(54) POLE HANDLE	(22) 22.06.2018
(73) Geox S.p.A.	(73) Lekisport AG	(54) SINGLE-USE DEFORMABLE CAPSULE
(72) POLEGATO MORETTI, Mario	(72) BÖING, Tobias	(73) LABORATOIRES M&L
(31) PD20060274	(31) 4502017	(72) DE BRUGIERE, Philippe
(32) 06.07.2006	3122017	(31) 1755751
(33) Italy	(32) 04.04.2017	(32) 23.06.2017
(51) A43B 17/02	15.03.2017	(33) France
A43B 7/14	(33) Switzerland	(51) A45D 40/16
A43B 13/38	Switzerland	A45D 40/00
A43B 5/00	(51) A45C 11/00	(11) EP3820326
A43B 17/18	(11) EP3817620	(21) EP19707122.8
A43B 17/00	(21) EP19745479.6	(47) 20.04.2022
A43B 7/32	(47) 20.04.2022	(87) IB2019050793
A43B 17/04	(87) US2019040832	16.01.2020
A43B 7/18	16.01.2020	(22) 31.01.2019
A43B 17/08	(22) 08.07.2019	(54) PROCESS FOR PRODUCING LIPSTICKS WITH SPECIAL TRIDIMENSIONAL SURFACE EFFECTS
(11) EP3082489	(54) CONTACT LENS CASE	(73) Intercos S.p.A.
(21) EP14872329.9	(73) Berlisi Industries	(72) LEONE, Fabio
(47) 20.04.2022	(72) DALICHAU, Bernard	LATTANZI, Giuseppe
(87) DK2014050435	PEREZ, Marcelo	(31) 201800007184
25.06.2015	PEREZ, Gonzalo	(32) 13.07.2018
(22) 17.12.2014	(31) 201862695147 P	(33) Italy
(54) BALANCE-IMPROVING LIQUID-FILLED INSOLE FOR USE IN THERAPEUTICS, REHABILITATION, STANDING AND WALKING WORK AND SPORTS	(32) 08.07.2018	(51) A46B 11/00
(73) Medicovi ApS	(33) United States of America	(11) EP3659466
(72) VINDRIIS, Peter	(51) A45D 27/46	(21) EP18209183.5
(31) 201370812	B26B 19/38	(47) 20.04.2022
(32) 20.12.2013	(11) EP3737257	(22) 29.11.2018
(33) Denmark	(21) EP19816332.1	(54) COSMETIC CONTAINER
(51) A44B 18/00	(47) 20.04.2022	(73) Glaspray Engineering & Manufacturing Co., Ltd
A61F 13/62	(87) EP2019084296	(72) CHEN, Sin-Hsiung
D04H 11/08	18.06.2020	(51) A47B 87/00
(11) EP2596715	(22) 10.12.2019	F16B 12/24
(21) EP13155740.7	(54) SHAVING SYSTEM WITH SHAVING DEVICE AND CLEANING DEVICE	(11) EP3412175
(47) 20.04.2022	(73) Koninklijke Philips N.V.	(21) EP18174763.5
(22) 22.02.2007	(72) HUPKES, Ernst	(47) 20.04.2022
(54) A nonwoven web for fastener female member	LAP, Reinder, Niels	(22) 06.06.2018
(73) Mitsui Chemicals, Inc.	(31) 18212480	(54) FURNISHING ELEMENT AND ASSEMBLY METHOD THEREOF
(72) Kline, Mark James	(32) 13.12.2018	(73) Veneta Cucine S.p.A.
Masuda, Kazuhiko	(33) European Patent Office (EPO)	(72) ARCHIUTTI, Giacomo
Morimoto, Hisashi	(51) A45D 34/04	(31) 201700064243
Horn, Thomas Alexander	A45D 40/18	(32) 09.06.2017
(31) 2006048776	A45D 40/20	(33) Italy
776455 P	(11) EP3869996	(51) A47C 7/74
(32) 24.02.2006	(21) EP20703143.6	A47C 27/00
24.02.2006	(47) 20.04.2022	A47C 31/02
(33) Japan	(87) EP2020050555	B60N 2/56
United States of America	16.07.2020	A47C 31/00
(51) A44C 5/24	(22) 10.01.2020	(11) EP3632268
(11) EP3666110	(54) PEN AS A CONTAINER FOR A NAIL GEL, BRUSH FOR APPLICATION AND LED FOR CURING THE GEL	(21) EP18810386.5
(21) EP18212449.5	(73) Yves Swiss AG	(47) 20.04.2022
(47) 20.04.2022	(72) NIEDERMANN, Claude	(87) JP2018020212
(22) 13.12.2018	(31) 8752019	06.12.2018
(54) ADJUSTABLE BRACELET CLASP	212019	(22) 25.05.2018
(73) Omega SA	(32) 03.07.2019	(54) VENTILATION MAT
(72) CATANESE, Rocco	10.01.2019	(73) Kurabe Industrial Co., Ltd.
(51) A45B 9/02	(33) Switzerland	(72) TAKEDA, Hiroya
A63C 11/22	Switzerland	MORISHITA, Norishige
(11) EP3595483	(51) A45D 37/00	FUJII, Hirotaka
(21) EP18708429.8	A45D 40/00	(31) 2017245949
	A45D 40/24	2017204921
	(11) EP3641589	

2017108423	(87) GB2018053423	A47G 21/10
(32) 22.12.2017	31.05.2019	A47J 37/07
24.10.2017	(22) 27.11.2018	(11) EP3868266
31.05.2017	(54) IMPROVED COFFEE BREWING	(21) EP21155195.7
(33) Japan	APPARATUS COMPRISING AN	(47) 20.04.2022
Japan	EXTRACTION SLEEVE	(22) 04.02.2021
Japan	(73) CambDEV Limited	(54) LOCKABLE BARBECUE TONGS
(51) A47C 21/02	(72) HASTINGS, Nicholas James	(73) WMF GmbH
(11) EP3319484	MALKIN, Hugh	(72) Kühn, Manuel
(21) EP16750467.9	MOLONY, David Marcus	Mang, Werner
(47) 20.04.2022	WILLIAMSON, Finbarr Charles Ronald	(31) 102020202232
(87) GB2016052062	GEORGE, Ian Michael Riorden	(32) 21.02.2020
19.01.2017	GUTSELL, Graham Scott	(33) Germany
(22) 08.07.2016	BULLOCK, Timothy Charles	(51) A47K 3/00
(54) ANCHORING APPARATUS FOR	(31) 201719683	E04B 1/68
BEDCLOTHES	(32) 27.11.2017	(11) EP3621502
(73) Elowes Limited	(33) United Kingdom	(21) EP18726747.1
(72) LOWE, Eric	(51) A47J 31/42	(47) 20.04.2022
(31) 201512110	(11) EP3716824	(87) EP2018062093
(32) 10.07.2015	(21) EP18829907.7	15.11.2018
(33) United Kingdom	(47) 20.04.2022	(22) 09.05.2018
(51) A47F 3/00	(87) GB2018053421	(54) JOINT FILLER CORD
F21V 21/35	31.05.2019	(73) HYDROPHON Kunststofftechnik GmbH
G09F 3/20	(22) 27.11.2018	(72) HILLE, Thomas
(11) EP3558065	(54) IMPROVED COFFEE BREWING	(31) 102017110057
(21) EP17828718.1	APPARATUS COMPRISING AN	(32) 10.05.2017
(47) 20.04.2022	EXTRACTION SLEEVE	(33) Germany
(87) EP2017083550	(73) CambDEV Limited	(51) A47K 3/16
28.06.2018	(72) GEORGE, Ian Michael Riorden	(11) EP3064111
(22) 19.12.2017	MOLONY, David Marcus	(21) EP15290061.9
(54) SYSTEM AND METHOD FOR	HASTINGS, Nicholas James	(47) 20.04.2022
POWERING MULTIPLE ELECTRONIC	WILLIAMSON, Finbarr Charles Ronald	(22) 06.03.2015
DISPLAY DEVICES FOR DISPLAYING	MALKIN, Hugh	(54) METHOD FOR MOUNTING A SHOWER
GOODS-RELATED INFORMATION	BULLOCK, Timothy Charles	TRAY
(73) REHAU Industries SE & Co. KG	GUTSELL, Graham Scott	(73) Geberit International AG
(72) NIEHOFF, Ansgar	(31) 201719682	(72) Randle, Ian
MICHELS, Peter	(32) 27.11.2017	Couty, Alain
EIBL, Stefan	(33) United Kingdom	Magnusson, Christian
GOLDSTEIN, Jörg	(51) A47J 36/38	(51) A47K 3/30
SCHMIDT, Steven	(11) EP3723562	E04B 2/82
BÜHLMAYER, Christian	(21) EP18834042.6	(11) EP3178359
FRITZLAR, Holger	(47) 20.04.2022	(21) EP16020478.0
(31) 102016124956	(87) IB2018060165	(47) 20.04.2022
(32) 20.12.2016	20.06.2019	(22) 02.12.2016
(33) Germany	(22) 17.12.2018	(54) PROFILE ASSEMBLY AND PARTITION
(51) A47F 5/08	(54) COOKING ASSEMBLY, COOKING	(73) Schulte Duschkabinenbau GmbH & Co.
G09F 3/20	POT AND POT LID WITH VAPOUR	KG
(11) EP3609368	PASSAGE	(72) Albers, Martin
(21) EP18717021.2	(73) Berghoff Worldwide NV	(31) 202015008576 U
(47) 20.04.2022	(72) VANTHOOR, Rafael	202015008397 U
(87) EP2018058955	(31) 201705949	(32) 16.12.2015
18.10.2018	(32) 15.12.2017	08.12.2015
(22) 09.04.2018	(33) Belgium	(33) Germany
(54) ELECTRONIC DISPLAY SYSTEM	(51) A47J 37/06	Germany
(73) REHAU Industries SE & Co. KG	(11) EP3761837	(51) A47L 9/00
(72) NIEHOFF, Ansgar	(21) EP19715986.6	A47L 9/28
GOLDSTEIN, Jörg	(47) 20.04.2022	G05D 1/02
BÜHLMAYER, Christian	(87) IB2019051791	B60K 7/00
MICHELS, Peter	12.09.2019	(11) EP3473152
EIBL, Stefan	(22) 06.03.2019	(21) EP18201013.2
SCHMIDT, Steven	(54) APPLIANCE FOR COOKING FOOD	(47) 20.04.2022
(31) 102017107927	WITH HEATING PLATES	(22) 17.10.2018
(32) 12.04.2017	(73) Biffood S.r.l.	(54) ROBOTIC APPARATUS, METHOD, AND
(33) Germany	(72) GAIBAZZI, Andrea	APPLICATIONS
(51) A47J 31/42	(31) 201800003320	(73) Maidbot, Inc.
(11) EP3716825	(32) 06.03.2018	(72) MORONITI, David
(21) EP18829908.5	(33) Italy	GREEN, Micah
(47) 20.04.2022	(51) A47J 43/28	WHITEHEAD, Steven

SUPRON, Steve	(21) EP19202889.2	(33) Italy
(31) 201762574255 P	(47) 20.04.2022	(51) A47L 13/22
201762573355 P	(22) 14.10.2019	(11) EP3520668
(32) 19.10.2017	(54) BASE STATION FOR HOUSEHOLD	(21) EP19162011.1
17.10.2017	APPLIANCE WITH AUTOMATED	(47) 20.04.2022
(33) United States of America	MOVEMENT	(22) 31.12.2015
United States of America	(73) Miele & Cie. KG	(54) CLEANING DEVICE AND METHOD OF
(51) A47L 9/04	(72) Lober, Marius	CLEANING A SURFACE
A47L 9/28	Döring, Sebastian	(73) Unger Marketing International, LLC
A47L 11/40	(31) 102018127866	(72) ADAMS, Paul H.
A47L 11/19	(32) 08.11.2018	WILDE, Frank
(11) EP3563742	(33) Germany	HUDA, Stephen
(21) EP17888513.3	(51) A47L 9/24	ROBERTS, Bryan Lee Jr.
(47) 20.04.2022	(11) EP2417889	PATTERSON, Joseph K.
(87) KR2017015003	(21) EP11174970.1	BUCKLEY, James M.
05.07.2018	(47) 20.04.2022	LOMBARDO, John
(22) 19.12.2017	(22) 22.07.2011	(31) 201562185382 P
(54) CLEANER	(54) Connection pipe with spring element	(32) 26.06.2015
(73) LG Electronics Inc.	(73) BSH Hausgeräte GmbH	(33) United States of America
(72) SUNG, Jihoon	(72) Ullrich, Christian	(51) A47L 15/00
MOON, Sihwan	Storath, Martin	A47L 15/42
(31) 20160184445	Hamm, Silvio	(11) EP3487377
(32) 30.12.2016	(31) 102010039283	(21) EP17745937.7
(33) Korea (Republic)	(32) 12.08.2010	(47) 20.04.2022
(51) A47L 9/04	(33) Germany	(87) US2017042720
A47L 11/40	(51) A47L 9/30	25.01.2018
(11) EP3459415	A47L 11/40	(22) 19.07.2017
(21) EP17799704.6	(11) EP3440979	(54) BATCH-TYPE WAREWASHER WITH
(47) 20.04.2022	(21) EP18187634.3	ENERGY RETAINING CURTAIN
(87) KR2017005243	(47) 20.04.2022	(73) Illinois Tool Works, Inc.
23.11.2017	(22) 07.08.2018	(72) JAMES, Michael T.
(22) 19.05.2017	(54) ROBOT CLEANER	SIEFKER, Zachary
(54) ROBOT CLEANER	(73) LG Electronics Inc.	ALKHARUSI, Tarik Said Mohammed
(73) LG Electronics Inc.	(72) Lee, Minwoo	ALSUBAIE, Bandr Mohsin
(72) SONG, Seunghyun	Yoon, Sungho	PAULUS, Mary E.
NAM, Bohyun	Jang, Jaewon	OSTERLOH, Daryl Michael
SHIM, Inbo	(31) 20170099763	PUCETTI, Adam
SUNG, Jihoon	(32) 07.08.2017	SHAIKH, Zaid Azmathullah
JUN, Woochan	(33) Korea (Republic)	ANIM-MENSAH, Alexander R.
PARK, Sojin	(51) A47L 11/40	MURLIDHARAN, Prasanna Venkatesh
LEE, Sangkyu	A47L 11/20	(31) 201662365463 P
(31) 20160184446	(11) EP3750467	(32) 22.07.2016
20160141106	(21) EP20182303.6	(33) United States of America
20160109317	(47) 20.04.2022	(51) A47L 15/42
20160072690	(22) 12.02.2018	(11) EP3345528
20160062415	(54) CLEANING DEVICE	(21) EP18150473.9
(32) 30.12.2016	(73) Koninklijke Philips N.V.	(47) 20.04.2022
27.10.2016	(72) KINGMA, Pieter	(22) 05.01.2018
26.08.2016	LUBBERS, Matthijs, Hendrikus	(54) DISHWASHER BASE STRUCTURE
10.06.2016	DE WIT, Bastiaan, Johannes	(73) Whirlpool Corporation
20.05.2016	(31) 17158036	(72) Kangas, William K.
(33) Korea (Republic)	(32) 27.02.2017	O'Brien, Thomas M.
Korea (Republic)	(33) European Patent Office (EPO)	(31) 201715400070
Korea (Republic)	(51) A47L 13/16	(32) 06.01.2017
Korea (Republic)	A47L 13/24	(33) United States of America
Korea (Republic)	A47L 13/256	(51) A47L 15/42
(51) A47L 9/06	(11) EP3790438	(11) EP3473156
(11) EP3656267	(21) EP19724628.3	(21) EP18187175.7
(21) EP18207617.4	(47) 20.04.2022	(47) 20.04.2022
(47) 20.04.2022	(87) IB2019053670	(22) 03.08.2018
(22) 21.11.2018	14.11.2019	(54) DISHWASHER
(54) MULTI-FUNCTIONAL VACUUM	(22) 06.05.2019	(73) Miele & Cie. KG
CLEANER NOZZLE	(54) CLEANING CLOTH FOR A BASE FOR	(72) Kara, Carcus
(73) Aktiebolaget Electrolux	MOPS WITH TABS	Rohde, Holger
(72) STAF, Håkan	(73) TTS Cleaning s.r.l.	(31) 102017124254
EKSTRÖM, Nicklas	(72) ZORZO, Marco	102017124259
(51) A47L 9/10	(31) 201800005166	(32) 18.10.2017
(11) EP3669733	(32) 08.05.2018	18.10.2017

(33) Germany	(33) Korea (Republic)	(32) 13.10.2016
Germany	(51) A61B 3/00	(33) Japan
(51) A47L 15/42	A61B 3/10	(51) A61B 5/00
D06F 34/34	G16H 10/00	A61B 5/02
F25D 29/00	(11) EP3395233	G06T 7/00
(11) EP2742843	(21) EP18168950.6	A61B 5/026
(21) EP13196176.5	(47) 20.04.2022	(11) EP3076854
(47) 20.04.2022	(22) 24.04.2018	(21) EP14809803.1
(22) 09.12.2013	(54) AMETROPIA TREATMENT TRACKING	(47) 20.04.2022
(54) Domestic appliance with at least one display window	METHODS AND SYSTEM	(87) EP2014076477
(73) BSH Hausgeräte GmbH	(73) Johnson & Johnson Vision Care Inc.	11.06.2015
(72) Merk, Tobias	(72) CHENG, Xu	(22) 04.12.2014
Racs, Florian	BRENNAN, Noel A.	(54) LOCAL FFR ESTIMATION AND VISUALISATION FOR IMPROVED FUNCTIONAL STENOSIS ANALYSIS
Gerstner, Norbert	(31) 201815952335	(73) Koninklijke Philips N.V.
(31) 102012222955	201762489666 P	(72) TIMMER, Jan
(32) 12.12.2012	(32) 13.04.2018	SCHMITT, Holger
(33) Germany	25.04.2017	GRASS, Michael
(51) A47L 15/50	(33) United States of America	NICKISCH, Hannes
(11) EP3348181	United States of America	(31) 13195675
(21) EP18151108.0	(51) A61B 3/10	(32) 04.12.2013
(47) 20.04.2022	A61B 3/12	(33) European Patent Office (EPO)
(22) 10.01.2018	A61B 5/00	(51) A61B 5/00
(54) DISHWASHER GUIDE RAIL ASSEMBLY	G01B 9/02	A61B 5/12
(73) Whirlpool Corporation	G01B 11/24	A61M 21/00
(72) Hansen, Matthew Martin Kenneth	G01N 21/47	(11) EP3534778
(31) 201715403215	(11) EP2620095	(21) EP17866994.1
(32) 11.01.2017	(21) EP13000274.4	(47) 20.04.2022
(33) United States of America	(22) 18.01.2013	(87) US2017059297
(51) A61B 1/00	(54) OPTICAL COHERENCE TOMOGRAPHIC APPARATUS	11.05.2018
A61B 1/005	(73) Canon Kabushiki Kaisha	(22) 31.10.2017
A61B 1/015	(72) Yoshida, Hirofumi	(54) SYSTEMS FOR REDUCING SOUND SENSITIVITIES AND IMPROVING AUDITORY PROCESSING, BEHAVIORAL STATE REGULATION AND SOCIAL ENGAGEMENT
A61B 1/12	(31) 2012014582	(73) Polyvagal Science LLC
(11) EP3453310	(32) 26.01.2012	(72) PORGES, Stephen
(21) EP18192659.3	(33) Japan	(31) 201662415996 P
(47) 20.04.2022	(51) A61B 3/11	(32) 01.11.2016
(22) 05.09.2018	A61B 3/00	(33) United States of America
(54) ENT GUIDEWIRE WITH CAMERA ON TIP	A61B 3/14	(51) A61B 5/00
(73) Biosense Webster (Israel) Ltd.	A61B 5/03	A61B 5/145
(72) GOVARI, Assaf	(11) EP3046460	(11) EP3829419
SITNITSKY, Ilya	(21) EP14784565.5	(21) EP19746094.2
ALGAWI, Yehuda	(47) 20.04.2022	(47) 20.04.2022
(31) 201816101503	(87) US2014056579	(87) EP2019070946
201762554922 P	26.03.2015	06.02.2020
(32) 12.08.2018	(22) 19.09.2014	(22) 02.08.2019
06.09.2017	(54) APPARATUS FOR DETERMINING PHYSIOLOGIC PERTURBATIONS OF A PATIENT	(54) BODY MONITORING SYSTEM WITH REMOVABLE CONNECTION
(33) United States of America	(73) Children's National Medical Center	(73) PKvitality
United States of America	(72) FINKEL, Julia	(72) PIERART, Luc
(51) A61B 1/00	(31) 201361879707 P	(31) 18306066
A61B 1/04	(32) 19.09.2013	(32) 03.08.2018
(11) EP2923629	(33) United States of America	(33) European Patent Office (EPO)
(21) EP13857619.4	(51) A61B 3/13	(51) A61B 5/00
(47) 20.04.2022	A61B 3/10	A61B 5/25
(87) KR2013010271	A61B 3/14	(11) EP3838125
30.05.2014	A61B 90/20	(21) EP21154215.4
(22) 13.11.2013	G02B 21/00	(47) 20.04.2022
(54) CAPSULE TYPE ENDOSCOPE SYSTEM	(11) EP3345532	(22) 05.07.2017
(73) Industry Foundation of Chonnam National University	(21) EP17195416.7	(54) BIOELECTRODE AND METHOD OF MANUFACTURING THE BIOELECTRODE
(72) PARK, Jong Oh	(47) 20.04.2022	(73) NOK Corporation
JEONG, Semi	(22) 09.10.2017	(72) FUTASHIMA, Ryo
CHOI, Hyun Chul	(54) OBSERVATION SYSTEM AND OBSERVATION CONTROL PROGRAM	
PARK, Suk Ho	(73) Nidek Co., Ltd.	
LEE, Cheong	(72) MATSUNOBU, Go	
(31) 20120133515	(31) 2016201881	
(32) 23.11.2012		

UDA, Toru	A01K 43/00	(32) 04.05.2017
SUGIYAMA, Yasushi	G01N 33/08	(33) European Patent Office (EPO)
(31) 2016134492	(11) EP3634223	(51) A61B 5/083
(32) 06.07.2016	(21) EP18737984.7	G01N 33/497
(33) Japan	(47) 20.04.2022	G01N 21/35
(51) A61B 5/02	(87) IB2018054103	A61B 5/08
A61B 5/024	13.12.2018	A61B 5/097
A61B 5/11	(22) 07.06.2018	B60K 28/06
A61B 5/00	(54) DEVICE TO MEASURE AN EMBRYO'S	A61B 5/00
G16H 50/70	HEART IN AN EGG	A61B 5/087
G16H 50/30	(73) Innovatec besloten vennootschap	G01N 21/3504
(11) EP3478166	(72) VAN DE LOO, Philip Karel Marie-Louise	G01N 21/03
(21) EP17821210.6	(31) 201705414	G01N 21/15
(47) 20.04.2022	(32) 09.06.2017	(11) EP2114246
(87) US2017039878	(33) Belgium	(21) EP08712764.3
04.01.2018	(51) A61B 5/0531	(47) 20.04.2022
(22) 29.06.2017	A61B 5/00	(87) SE2008050124
(54) ON-DEMAND HEART RATE	(11) EP3801243	12.09.2008
ESTIMATION BASED ON OPTICAL	(21) EP18729063.0	(22) 31.01.2008
MEASUREMENTS	(47) 20.04.2022	(54) INTERACTIVE ALCOMETRY
(73) Analog Devices, Inc.	(87) EP2018063706	(73) Senseair AB
(72) DEMIRTAS, Sefa	28.11.2019	(72) HÖK, Bertil
ADAMS, Robert	(22) 24.05.2018	(31) 0700236
AKL, Tony Joseph	(54) IMPEDANCE MEASUREMENT DEVICE	(32) 01.02.2007
KING, Jason D.	(73) Scibase Ab	(33) Sweden
BERNSTEIN, Jeffrey G.	(72) MELIN, David	(51) A61B 5/20
(31) 201615198438	KORSFELDT, Angelica	A61M 5/172
(32) 30.06.2016	JOSEFSSON, Alexandra	(11) EP3119284
(33) United States of America	ASKARY LORD, Nima	(21) EP15765772.7
(51) A61B 5/021	BERNDTSSON, Andreas	(47) 20.04.2022
A61B 5/022	(51) A61B 5/055	(87) US2015020196
A61B 5/00	A61B 5/107	24.09.2015
(11) EP3694406	A61B 5/00	(22) 12.03.2015
(21) EP18789282.3	G06T 7/60	(54) FLUID THERAPY SYSTEM
(47) 20.04.2022	G06T 7/00	(73) PLC Medical Systems, Inc.
(87) US2018050956	(11) EP2937039	(72) TAUSCHER, Mark
18.04.2019	(21) EP14165965.6	HALPERT, Andrew V.
(22) 13.09.2018	(47) 20.04.2022	(31) 201461954089 P
(54) BLOOD PRESSURE ESTIMATION	(22) 25.04.2014	(32) 17.03.2014
USING FINGER-WEARABLE SENSOR	(54) Lean tissue water concentration	(33) United States of America
ARRAY	quantification	(51) A61B 5/361
(73) Verily Life Sciences LLC	(73) AMRA Medical AB	A61B 5/00
(72) NARASIMHAN, Ravi	(72) Romu, Thobias	A61B 5/283
(31) 201715809895	Dahlqvist Leinhard, Olof	(11) EP2915479
201762570503 P	Borga, Magnus	(21) EP15156488.7
(32) 10.11.2017	(51) A61B 5/08	(47) 20.04.2022
10.10.2017	A61B 5/242	(22) 25.02.2015
(33) United States of America	A61B 5/243	(54) Device for terminating the detection of
United States of America	(11) EP3618709	atrial fibrillation
(51) A61B 5/0215	(21) EP18718473.4	(73) BIOTRONIK SE & Co. KG
A61B 5/027	(47) 20.04.2022	(72) Müssig, Dirk
A61B 5/01	(87) EP2018060541	Whittington, R. Hollis
(11) EP3675721	08.11.2018	Garner, Garth
(21) EP18765389.4	(22) 25.04.2018	(31) 201461946909 P
(47) 20.04.2022	(54) SYSTEM AND METHOD FOR DYNAMIC	(32) 03.03.2014
(87) EP2018073166	FOCUSING ON THE HEART AND/OR	(33) United States of America
07.03.2019	LUNGS BY FREQUENCY TUNING AND	(51) A61B 6/00
(22) 29.08.2018	ANALYSIS OF IMPEDANCE PHASE	A61B 6/12
(54) SENSING GUIDEWIRE WITH	AND/OR MAGNITUDE VARIATIONS	A61B 8/12
INTEGRATED PROXIMAL LOCKING	(73) Koninklijke Philips N.V.	A61B 5/00
FEATURE	(72) DOODEMAN, Gerardus Johannes	(11) EP3210536
(73) Koninklijke Philips N.V.	Nicolaas	(21) EP16204699.9
(72) HENDERSON, Eric, Brett	LEIJSSSEN, Jacobus Josephus	(47) 20.04.2022
BURKETT, David, Holt	KLEIJNEN, Mark	(22) 16.12.2016
(31) 201762552993 P	PEETERS, Wouter Herman	(54) X-RAY/INTRAVASCULAR IMAGING
(32) 31.08.2017	BEZEMER, Rick	COLOCATION SYSTEM
(33) United States of America	PAULUSSEN, Igor Wilhelmus Franciscus	(73) General Electric Company
(51) A61B 5/024	(31) 17169584	(72) VAILLANT, Regis

SUREDA, Francisco	A61B 90/11	A61F 2/24
(31) 201615056566	A61B 90/00	A61F 2/86
(32) 29.02.2016	(11) EP3713499	A61B 17/00
(33) United States of America	(21) EP18829539.8	A61B 17/064
(51) A61B 6/12	(47) 20.04.2022	(11) EP3302297
G06T 7/00	(87) US2018062173	(21) EP16734021.5
A61B 6/00	31.05.2019	(47) 20.04.2022
A61B 17/00	(22) 21.11.2018	(87) IB2016000840
A61B 90/00	(54) ADJUSTABLE TARGETING SET FOR	01.12.2016
G06T 7/30	MRI GUIDED BIOPSY PROCEDURE	(22) 26.05.2016
(11) EP2672895	(73) Devicor Medical Products, Inc.	(54) OFF-CENTER TISSUE ANCHORS WITH
(21) EP12704310.7	(72) BRUCE, John Kevin	TENSION MEMBERS
(47) 20.04.2022	CHOUNG, Rachel Yoon	(73) 4Tech Inc.
(87) IB2012050441	(31) 201762589785 P	(72) CAMPBELL, Thomas
16.08.2012	(32) 22.11.2017	GILMORE, Michael
(22) 31.01.2012	(33) United States of America	LYNN, Kevin
(54) MEDICAL IMAGING DEVICE	(51) A61B 10/02	VANERMEN, Hugo
FOR PROVIDING AN IMAGE	A61B 46/10	MULLINS, John
REPRESENTATION SUPPORTING	(11) EP3634244	MURPHY, Charlotte
THE ACCURATE POSITIONING OF	(21) EP18729233.9	SOBRINO-SERRANO, Gabriel
AN INVENTION DEVICE IN VESSEL	(47) 20.04.2022	DONNELLY, Evin William
INTERVENTION PROCEDURES	(87) US2018032390	TOBIS, Idan
(73) Koninklijke Philips N.V.	15.11.2018	GUIDOTTI, Andrea
(72) CATHIER, Pascal, Yves, François	(22) 11.05.2018	DENTI, Paolo
FLORENT, Raoul	(54) BIOPSY DEVICE WITH STERILE	(31) 201562167660 P
NEMPONT, Olivier, Pierre	SLEEVE	PCT/IB2015/002354
(31) 11305116	(73) Devicor Medical Products, Inc.	(32) 28.05.2015
(32) 07.02.2011	(72) RHAD, Edward, A.	02.12.2015
(33) European Patent Office (EPO)	ROBINSON, Andrew	(33) United States of America
(51) A61B 6/14	NOCK, Andrew, Paul	World Intellectual Property Office (WIPO)
A61B 6/00	(31) 201762505571 P	(51) A61B 17/072
A61B 5/01	(32) 12.05.2017	A61B 17/068
G01L 7/00	(33) United States of America	A61B 17/29
G01J 3/28	(51) A61B 10/06	(11) EP3685759
G01P 15/00	A61B 17/00	(21) EP19217161.9
G01R 33/02	A61B 10/04	(47) 20.04.2022
G01T 1/16	(11) EP3669791	(22) 03.03.2014
G06F 1/32	(21) EP19808164.8	(54) ARTICULATABLE SURGICAL
G01R 31/28	(47) 20.04.2022	INSTRUMENTS WITH CONDUCTIVE
G01R 31/58	(87) CN2019086386	PATHWAYS FOR SIGNAL
G03B 42/04	28.11.2019	COMMUNICATION
G06F 1/3206	(22) 10.05.2019	(73) Ethicon LLC
G06F 1/3287	(54) MEDICAL FORCEPS	(72) Koch JR., Robert L.
G06F 3/01	(73) Anrei Medical (Hangzhou) Co., Ltd.	Jaworek, Gary S.
H01L 27/14	(72) ZHANG, Rongnan	Auld, Michael D.
(11) EP3512428	LEI, Da	(31) 201313782295
(21) EP17777704.2	WANG, Liming	(32) 01.03.2013
(47) 20.04.2022	(31) 201810517098	(33) United States of America
(87) US2017051417	(32) 25.05.2018	(51) A61B 17/072
22.03.2018	(33) China	A61B 90/00
(22) 13.09.2017	(51) A61B 17/00	(11) EP3375386
(54) MULTIPLE-DIMENSION IMAGING	A61B 17/11	(21) EP18158201.6
SENSOR WITH OPERATION BASED	A61B 18/00	(47) 20.04.2022
ON MAGNETIC FIELD DETECTION	A61B 18/04	(22) 22.02.2018
(73) Dental Imaging Technologies Corporation	(11) EP3515322	(54) SURGICAL STAPLER WITH SMALL
(72) PIXTON, Kyle Alan	(21) EP17853586.0	DIAMETER ENDOSCOPIC PORTION
KHATUTSKIY, Leonid	(47) 20.04.2022	(73) Covidien LP
FRENCH, Adrian David	(87) US2017042937	(72) EBNER, Timothy D.
KRAVIS, Scott, David	29.03.2018	WHITFIELD, Kenneth
FRERICHS, James Paul	(22) 19.07.2017	GADDY, Anthony
(31) 201715627199	(54) VASCULAR STENT DEVICES	CASASANTA, Thomas
201615265753	(73) TVA Medical, Inc.	(31) 201715440010
(32) 19.06.2017	(72) PATE, Thomas D.	(32) 23.02.2017
14.09.2016	COHN, William E.	(33) United States of America
(33) United States of America	(31) 201662399465 P	(51) A61B 17/072
United States of America	(32) 25.09.2016	A61B 90/00
(51) A61B 10/02	(33) United States of America	A61B 17/00
A61B 17/34	(51) A61B 17/04	(11) EP3235445

- (21) EP17166579.7
(47) 20.04.2022
(22) 13.04.2017
(54) SURGICAL INSTRUMENT
COMPRISING A LOCKOUT
(73) Ethicon LLC
(72) HESS, Christopher J.
MORGAN, Jerome R.
HARRIS, Jason L.
SHELTON, IV, Frederick E.
(31) 201615131311
(32) 18.04.2016
(33) United States of America
-
- (51) A61B 17/072
C08G 63/66
C09J 167/04
(11) EP3162384
(21) EP16196364.0
(47) 20.04.2022
(22) 28.10.2016
(54) SURGICAL STAPLER BUTTRESS
ASSEMBLY WITH HUMIDITY
TOLERANT ADHESIVE
(73) Ethicon LLC
(72) BEZWADA, Rao S.
HOLTZMANN, Kathrin
EASTER, Ashley
DONNERS, Jack
CRAIGWOOD, Aidan
HAGERMAN, Caroline
VENDELY, Michael J.
TURNER, Prudence A.
SHELTON, IV, Frederick E.
(31) 201514926045
(32) 29.10.2015
(33) United States of America
-
- (51) A61B 17/115
(11) EP3689269
(21) EP20155141.3
(47) 20.04.2022
(22) 03.02.2020
(54) PROGRAMMABLE DISTAL TILT
POSITION OF END EFFECTOR FOR
POWERED SURGICAL DEVICES
(73) Covidien LP
(72) GUERRERA, Joseph Michael
JOYCE, Steven H.
(31) 202016732620
201962800836 P
(32) 02.01.2020
04.02.2019
(33) United States of America
United States of America
-
- (51) A61B 17/128
(11) EP3405116
(21) EP16885490.9
(47) 20.04.2022
(87) CN2016071178
27.07.2017
(22) 18.01.2016
(54) ENDOSCOPIC SURGICAL CLIP
APPLIER
(73) Covidien LP
(72) CAI, Longsheng
HU, Encheng
YI, Peng
-
- (51) A61B 17/128
A61B 90/00
(11) EP3664723
(21) EP18843642.2
(47) 20.04.2022
(87) US2018045306
14.02.2019
(22) 06.08.2018
(54) ENDOSCOPIC SURGICAL CLIP
APPLIER INCLUDING COUNTER
ASSEMBLY
(73) Covidien LP
(72) DININO, Matthew, A.
BARIL, Jacob, C.
(31) 201816012884
201762541873 P
(32) 20.06.2018
07.08.2017
(33) United States of America
United States of America
-
- (51) A61B 17/15
A61F 2/30
A61B 17/86
A61B 17/17
(11) EP3740141
(21) EP18700666.3
(47) 20.04.2022
(87) EP2018050889
18.07.2019
(22) 15.01.2018
(54) TOOLS FOR ASSISTING IN
OSTEOTOMY PROCEDURES,
AND METHODS FOR DESIGNING
OSTEOTOMY TOOLS
(73) Episurf IP-Management AB
(72) RYD, Leif
FLODSTRÖM, Katarina
BAKE, Nina
LILLIESTRÅLE, Richard
JÄGERBACK, Jonas
-
- (51) A61B 17/16
A61B 17/32
(11) EP3689272
(21) EP20164933.2
(47) 20.04.2022
(22) 25.10.2016
(54) APPARATUS TO REDUCE VIBRATION
(73) Medtronic Xomed, Inc.
(72) MILBURN, Thaddeus S.
HAUSER, Bret
(31) 201514926787
(32) 29.10.2015
(33) United States of America
-
- (51) A61B 17/221
(11) EP3795099
(21) EP20196009.3
(47) 20.04.2022
(22) 14.09.2020
(54) STENT SYSTEM
(73) Biomedical Solutions Inc.
(72) Ishida, Hiroki
(31) 2019169164
(32) 18.09.2019
(33) Japan
-
- (51) A61B 17/29
A61B 17/295
A61B 17/32
A61B 1/00
A61B 17/00
(11) EP3282968
(21) EP16718178.3
(47) 20.04.2022
(87) US2016027672
20.10.2016
(22) 15.04.2016
(54) ULTRASONIC SURGICAL
INSTRUMENT WITH ARTICULATION
JOINT HAVING INTEGRAL STIFFENING
MEMBERS
(73) Ethicon LLC
(72) MUHLENKAMP, Tylor C.
DENZINGER, Kristen
DICKERSON, Benjamin D.
ASHER, Ryan M.
SHAPIRO, Cara L.
WEISENBURGH, II, William B.
BALEK, Stephen J.
JOHNSON, Gregory W.
CAGLE, David J.
HOLLO, Joseph E.
WORRELL, Barry C.
SULLIVAN, Jason R.
(31) 201514688424
(32) 16.04.2015
(33) United States of America
-
- (51) A61B 17/3207
A61B 17/22
(11) EP3288472
(21) EP16721125.9
(47) 20.04.2022
(87) EP2016059590
03.11.2016
(22) 29.04.2016
(54) TISSUE CUTTING DEVICE AND
SYSTEM
(73) SEPTULUS AB
(72) BJURSTEN, Henrik
(31) 1550536
(32) 30.04.2015
(33) Sweden
-
- (51) A61B 17/3215
A61B 17/3217
A61B 50/20
A61B 50/31
A61B 50/33
A61B 50/36
A61B 90/90
A61B 90/92
A61B 90/94
A61B 90/96
A61B 90/98
A61B 50/00
A61L 2/26
A61B 50/30
(11) EP3723637
(21) EP17934591.3
(47) 20.04.2022
(87) US2017066507
20.06.2019
(22) 14.12.2017
(54) INTERCHANGEABLE LABELLING
PLATE
(73) Aesculap AG
Aesculap Inc.
(72) FREY, Gerhard
HEID, Elmar
SCHUBERT, Tommy
NUBER, Edward

WELLER, Frank	(73) Silony Medical International AG	(72) HADDAD, Steven L.
(51) A61B 17/34	(72) OHNMACHT, Timo	BOND, Paul
A61B 90/50	HEUER, Frank	(31) 201161569052 P
A61B 17/17	RIESINGER, Ralf	(32) 09.12.2011
(11) EP3744270	(31) 102015214874	(33) United States of America
(21) EP20176170.7	(32) 04.08.2015	(51) A61B 17/86
(47) 20.04.2022	(33) Germany	(11) EP2967694
(22) 22.05.2020	(51) A61B 17/70	(21) EP14767460.0
(54) SYSTEM FOR POSITIONING	A61B 17/86	(47) 20.04.2022
(73) Karl Storz SE & Co. KG Intellectual Property	(11) EP3085320	(87) US2014020678
(72) Sauer, Michael	(21) EP16157414.0	25.09.2014
Nann, Steffen	(47) 20.04.2022	(22) 05.03.2014
Kielack, Robin	(22) 25.02.2016	(54) BONE SCREWS
(31) 102019114352	(54) MONOAXIAL BONE SCREW	(73) INNOVISION, Inc.
(32) 28.05.2019	(73) Silony Medical International AG	(72) RUSSELL, Thomas, A.
(33) Germany	(72) Trautwein, Frank, Thilo	(31) 201361801804 P
(51) A61B 17/34	Tautz, Katharina	(32) 15.03.2013
A61M 25/01	Heuer, Frank	(33) United States of America
A61M 25/00	(31) 202015003062 U	(51) A61B 17/88
A61B 10/04	(32) 25.04.2015	A61M 5/168
(11) EP3294160	(33) Germany	A61M 25/10
(21) EP16723873.2	(51) A61B 17/70	(11) EP3448289
(47) 20.04.2022	A61B 17/86	(21) EP17790239.2
(87) US2016030541	(11) EP3117787	(47) 20.04.2022
17.11.2016	(21) EP16001248.0	(87) US2017029330
(22) 03.05.2016	(47) 20.04.2022	02.11.2017
(54) ENDOSCOPIC NEEDLE STYLET WITH ENHANCED-FLEXIBILITY LENGTHS	(22) 02.06.2016	(22) 25.04.2017
(73) Cook Medical Technologies, LLC	(54) PEDICLE SCREW WITH TULIP	(54) INFLATABLE BONE TAMP WITH FLOW CONTROL
(72) LAVELLE, Shay	(73) Signus Medizintechnik GmbH	(73) Medtronic Holding Company Sàrl
BUTLER, James	(72) Bas, van der Pol	(72) DRUMA, Calin
KEADY, Fionan	(31) 102015008036	KAR, Shankar
NEILAN, John	102015007467	(31) 201615138670
(31) 201562161577 P	(32) 23.06.2015	(32) 26.04.2016
(32) 14.05.2015	09.06.2015	(33) United States of America
(33) United States of America	(33) Germany	(51) A61B 18/00
(51) A61B 17/56	(51) A61B 17/80	(11) EP3496639
A61B 17/68	(11) EP3116423	(21) EP16784471.1
A61B 17/80	(21) EP15711383.8	(47) 20.04.2022
A61B 17/84	(47) 20.04.2022	(87) EP2016074872
A61F 2/30	(87) US2015019414	15.02.2018
A61F 2/38	17.09.2015	(22) 17.10.2016
A61F 2/42	(22) 09.03.2015	(54) IMPROVED ENERGY-DELIVERING SYSTEM
A61B 17/17	(54) BONE PLATE	(73) Medical Development Technologies S.A.
A61B 17/02	(73) DePuy Synthes Products, Inc.	(72) VAN LANGENHOVE, Glenn
(11) EP3589240	(72) AEBI, This	(31) 16184126
(21) EP18760395.6	WOLF, Stefan	16184127
(47) 20.04.2022	(31) 201414204967	(32) 12.08.2016
(87) US2018020077	201461951352 P	12.08.2016
07.09.2018	(32) 11.03.2014	(33) European Patent Office (EPO)
(22) 28.02.2018	11.03.2014	European Patent Office (EPO)
(54) INTERNAL JOINT STABILIZER DEVICE	(33) United States of America	(51) A61B 18/04
(73) Skeletal Dynamics, LLC	United States of America	A61B 18/14
(72) ORBAY, Jorge L.	(51) A61B 17/80	(11) EP3141203
HAUSMAN, Michael R.	A61B 17/82	(21) EP15184682.1
(31) 201715444847	A61B 17/86	(47) 20.04.2022
(32) 28.02.2017	A61B 17/16	(22) 10.09.2015
(33) United States of America	A61B 17/15	(54) ABLATION DEVICE FOR LARGE-SCALE MUCOSA ABLATION
(51) A61B 17/70	(11) EP2787912	(73) Erbe Elektromedizin GmbH
(11) EP3331461	(21) EP12854972.2	(72) Stäbler, Thomas
(21) EP16753300.9	(47) 20.04.2022	Fischer, Klaus
(47) 20.04.2022	(87) US2012068449	Enderle, Markus
(87) EP2016068582	13.06.2013	(51) A61B 18/04
09.02.2017	(22) 07.12.2012	A61L 2/14
(22) 03.08.2016	(54) ORTHOPEDIC PLATE AND ORTHOPEDIC DEVICE FOR COUPLING BONE SEGMENTS	H05H 1/24
(54) HANDLING INSTRUMENT FOR A BONE ANCHOR	(73) Haddad, Steven L.	

(11) EP3506847	(51) A61B 18/14	A61B 17/32
(21) EP17749663.5	A61B 18/00	A61B 17/02
(47) 20.04.2022	(11) EP3725250	(11) EP3628258
(87) EP2017068913	(21) EP19169865.3	(21) EP19199944.0
08.03.2018	(47) 20.04.2022	(47) 20.04.2022
(22) 26.07.2017	(22) 17.04.2019	(22) 26.09.2019
(54) DEVICE AND METHODS FOR	(54) ELECTRICAL SURGICAL INSTRUMENT	(54) ENERGY-BASED TISSUE SPECIMEN
GENERATING A PLASMA JET WITH	WITH JOINT SEALING	REMOVAL
ASSOCIATED ENDOSCOPE AND USE	(73) Erbe Elektromedizin GmbH	(73) Covidien LP
(73) Leibniz-Institut für Plasmaforschung und	(72) WEILER, Rolf	(72) ALLEN, James, D.
Technologie e.V.	(51) A61B 18/14	KINGSLEY, Dylan, R.
(72) WINTER, Jörn	A61B 90/00	MOUA, Tony
(31) 16187095	(11) EP3389524	ROBINSON, William E.
(32) 02.09.2016	(21) EP16876170.8	WHAM, Robert, H.
(33) European Patent Office (EPO)	(47) 20.04.2022	MANLEY, Prakash
(51) A61B 18/12	(87) SG2016050606	DROCHNER, Thomas, E.
(11) EP3222239	22.06.2017	(31) 201816143787
(21) EP15861368.7	(22) 15.12.2016	(32) 27.09.2018
(47) 20.04.2022	(54) METHOD FOR FABRICATING	(33) United States of America
(87) JP2015079961	DEPLOYABLE MULTI-SPINE	(51) A61B 34/20
26.05.2016	APPARATUS FOR CATHETER-BASED	A61B 10/04
(22) 23.10.2015	RENAL DENERVATION	A61B 18/14
(54) TREATMENT TOOL AND TREATMENT	(73) Handok Kalos Medical	A61B 90/00
SYSTEM	Agency for Science, Technology and	A61B 5/00
(73) Olympus Corporation	Research	A61B 5/06
(72) TANAKA, Kazue	(72) SINGH, Pushpapraj	A61B 1/018
TANAKA, Kazuhiro	RANDLES, Andrew Benson	A61B 1/267
TAKASHINO, Tomoyuki	LIM, Ruiqi	A61B 34/00
TAKEI, Yusuke	DAMALERIO, Ramona	A61B 34/10
(31) 2014233825	CHUNGPAIBOONPATANA, Surasit	A61B 18/00
(32) 18.11.2014	CHENG, Ming-Yuan	(11) EP3245974
(33) Japan	ZHANG, Songsong	(21) EP17170976.9
(51) A61B 18/12	TAN, Ee Lim	(47) 20.04.2022
A61B 18/14	GU, Alex Yuandong	(22) 15.05.2017
A61B 17/295	TAN, Kwan Ling	(54) SYSTEM AND METHOD TO ACCESS
A61B 17/32	CHEN, Weiguo	LUNG TISSUE
A61B 17/00	(31) 10201510264Y	(73) Covidien LP
A61B 18/00	(32) 15.12.2015	(72) KRIMSKY, William
A61B 34/35	(33) Singapore	(31) 201615155830
A61B 34/30	(51) A61B 18/14	(32) 16.05.2016
(11) EP3278753	A61N 1/32	(33) United States of America
(21) EP17188031.3	A61N 1/36	(51) A61B 34/30
(47) 20.04.2022	A61N 7/02	A61B 34/00
(22) 05.04.2013	A61N 1/05	A61B 17/29
(54) SURGICAL INSTRUMENT CONTROL	A61B 18/00	A61B 17/00
(73) Intuitive Surgical Operations, Inc.	(11) EP2623062	(11) EP3310287
(72) ROSA, David, J.	(21) EP13159259.4	(21) EP16812285.1
BROGNA, Salvatore J.	(47) 20.04.2022	(47) 20.04.2022
(31) 201261621974 P	(22) 14.11.2007	(87) US2016037515
(32) 09.04.2012	(54) Methods and apparatus for performing a	22.12.2016
(33) United States of America	non-continuous circumferential treatment	(22) 15.06.2016
(51) A61B 18/12	to a body lumen	(54) ROBOTIC SURGICAL ASSEMBLIES
A61B 18/14	(73) Medtronic Ireland Manufacturing	(73) Covidien LP
A61B 18/00	Unlimited Company	(72) KAPADIA, Jaimeen
B26D 1/00	(72) Wu, Andrew	(31) 201562181817 P
B26F 3/00	Clark, Benjamin J.	(32) 19.06.2015
B29C 59/00	Michlitsch, Kenneth, J.	(33) United States of America
B29C 65/00	Gifford, Hanson	(51) A61B 34/30
(11) EP3777739	Demarais, Denise	A61B 46/10
(21) EP19191757.4	Deem, Mark	A61B 17/00
(47) 20.04.2022	Zadno, Nicolas	A61B 34/35
(22) 14.08.2019	(31) 599890	A61B 17/072
(54) CUTTING ELECTRODE, SURGICAL	(32) 14.11.2006	(11) EP3193767
INSTRUMENT AND METHOD OF	(33) United States of America	(21) EP15841989.5
MANUFACTURING THE CUTTING	(51) A61B 18/16	(47) 20.04.2022
ELECTRODE	A61B 17/00	(87) US2015041684
(73) Erbe Elektromedizin GmbH	A61B 18/12	24.03.2016
(72) KOERNER, Johannes	A61B 18/14	(22) 23.07.2015

(54) ROBOTICALLY CONTROLLING SURGICAL ASSEMBLIES	(54) A CONNECTION TOOL FOR A TONGUE MANIPULATION SYSTEM	TJHIA, Crystal
(73) Covidien LP	(73) Koninklijke Philips N.V.	TE, Dennis
(72) WARD, Alistair	(72) DIVETIA, Asheesh	CAM, Bruce
FULLER, Daniel L.	HENZE, Stephanie	(31) 201615199598
GROVER, Simon R.	BEEBY, Ruth	(32) 30.06.2016
KILBY, Charles F.	(31) 201462040101 P	(33) United States of America
(31) 201462050443 P	(32) 21.08.2014	(51) A61C 8/00
(32) 15.09.2014	(33) United States of America	(11) EP2299927
(33) United States of America	(51) A61C 3/16	(21) EP08784668.9
(51) A61B 46/00	A61C 8/00	(47) 20.04.2022
A61B 17/00	(11) EP3518815	(87) EP2008005585
(11) EP2713935	(21) EP17777362.9	14.01.2010
(21) EP12789811.2	(47) 20.04.2022	(22) 09.07.2008
(47) 20.04.2022	(87) GB2017052860	(54) MEDICAL IMPLANT
(87) US2012039555	05.04.2018	(73) Nobel Biocare Services AG
29.11.2012	(22) 25.09.2017	(72) JÖRNEUS, Lars
(22) 25.05.2012	(54) RELEASE DEVICE	MALO CARVALHO, Paulo
(54) SURGICAL DRAPE WITH SEPARABLE ELEMENTS	(73) Harrogate Implant Innovations Ltd	PETERSSON, Henrik
(73) Creative Surgical Solutions, LLC	(72) DOSWELL, Tim	(51) A61C 13/00
(72) DROY, Dan	CAMPBELL, Stephen	A61C 13/08
CORENMAN, Donald	EGAN, Christopher	A61C 13/34
Strauch Eric	(31) 201619710	A61C 13/20
(31) 201113155219	201616389	A61C 13/01
201161490432 P	(32) 22.11.2016	A61C 13/36
(32) 07.06.2011	27.09.2016	B33Y 80/00
26.05.2011	(33) United Kingdom	(11) EP3649983
(33) United States of America	United Kingdom	(21) EP18205735.6
(51) A61B 90/50	(51) A61C 5/77	(47) 20.04.2022
A61B 34/30	A61C 13/00	(22) 12.11.2018
A61C 1/00	A61C 13/08	(54) DENTAL PROSTHESIS PRODUCTION METHOD
A61B 34/20	B33Y 10/00	(73) Ivoclar Vivadent AG
(11) EP3515353	(11) EP3723659	(72) Häfele, Clemens Andreas
(21) EP17783582.4	(21) EP19752161.0	Frei, Roger
(47) 20.04.2022	(47) 20.04.2022	Hagenbuch, Konrad
(87) IB2017055584	(87) EP2019071048	Schülke, Andreas
22.03.2018	13.02.2020	(51) A61C 17/028
(22) 14.09.2017	(22) 05.08.2019	A61C 17/02
(54) TRACKING AND GUIDANCE ARRANGEMENT FOR A SURGICAL ROBOT SYSTEM AND RELATED METHOD	(54) METHOD FOR PRODUCING A DENTAL COMPONENT	A61C 19/06
(73) Neocis Inc.	(73) Redios-Tec GmbH	(11) EP2459112
(72) HE, Wuwei	(72) MILLER, Stephan	(21) EP10805033.7
SALCEDO, Juan	(31) 102018119078	(47) 20.04.2022
MOZES, Alon	(32) 06.08.2018	(87) US2010043670
ANDERSON, Ryan	(33) Germany	03.02.2011
MCMAHAN, William Chu-Hyon	(51) A61C 7/00	(22) 29.07.2010
COLE, David Peter	G06T 7/00	(54) ORAL CARE DEVICE
VAISH, Sarvagya	G16H 50/00	(73) Johnson & Johnson Consumer Inc.
(31) 201615269449	(11) EP3517071	(72) FUSI, Robert, W., II.
(32) 19.09.2016	(21) EP18154281.2	FOUGERE, Richard, J.
(33) United States of America	(47) 20.04.2022	OCHS, Harold, D.
(51) A61B 90/92	(22) 30.01.2018	MCDONOUGH, Justin
A61B 90/00	(54) SYSTEM FOR ENRICHING A DIGITAL DENTAL MODEL	(31) 844879
A61B 17/00	(73) Dental Monitoring	229839 P
A61B 17/04	(72) PELLISSARD, Thomas	(32) 28.07.2010
A61B 17/24	SALAH, Philippe	30.07.2009
A61F 5/56	(51) A61C 7/08	(33) United States of America
(11) EP3182906	(11) EP3478214	United States of America
(21) EP15770643.3	(21) EP17729721.5	(51) A61D 17/00
(47) 20.04.2022	(47) 20.04.2022	(11) EP3337422
(87) IB2015055669	(87) US2017035825	(21) EP16750522.1
25.02.2016	04.01.2018	(47) 20.04.2022
(22) 27.07.2015	(22) 02.06.2017	(87) NL2016050484
	(54) ORTHODONTIC PLASTIC SHELL WITH REINFORCEMENT INSERT	02.03.2017
	(73) Align Technology, Inc.	(22) 06.07.2016
	(72) TANUGULA, Rohit	(54) METHOD AND DEVICE TO AUTOMATICALLY DETECT CALVING
		(73) Lely Patent N.V.
		(72) DE GROOT, Ester

SONG, Xiangyu	(21) EP16152952.4	(33) United States of America
VAN DER TOL, Patrick Philip Jacob	(47) 20.04.2022	(51) A61F 5/01
(31) 2015326	(22) 27.01.2016	(11) EP3621562
(32) 21.08.2015	(54) SPINAL IMPLANT	(21) EP18723816.7
(33) Netherlands	(73) K2M, Inc.	(47) 20.04.2022
(51) A61F 2/06	(72) Boyd, Clint	(87) EP2018061933
(11) EP2012708	Wilson, Lester	15.11.2018
(21) EP07732471.3	Nordeen, Hilal	(22) 08.05.2018
(47) 20.04.2022	Morrison, Thomas	(54) FOOT MOVEMENT DAMPER AND
(87) GB2007001430	Moore, Jennifer	SHOE FOR DAMPING A FOOT
01.11.2007	(31) 201562196371 P	MOVEMENT VIA THE ANKLE JOINT
(22) 20.04.2007	201562108197 P	(73) Betterguards Technology GmbH
(54) APPARATUS FOR MAINTAINING FLUID	(32) 24.07.2015	(72) STUMPER, Timo
FLOW THROUGH BODY PASSAGES	27.01.2015	BUSCHINGER, Oscar
(73) LimFlow GmbH	(33) United States of America	BICHLER, Vinzenz
(72) PACEY, Andrew, Robert	United States of America	(31) 102017109877
DICKINSON, Robert, Julian	(51) A61F 2/44	(32) 08.05.2017
ROTHMAN, Martin, Terry	A61F 2/30	(33) Germany
JAIN, Ajay, Kumar	(11) EP3157470	(51) A61F 5/01
(31) 0607761	(21) EP15733590.2	(11) EP3761920
(32) 20.04.2006	(47) 20.04.2022	(21) EP19710372.4
(33) United Kingdom	(87) US2015036118	(47) 20.04.2022
(51) A61F 2/16	23.12.2015	(87) EP2019055693
(11) EP3536281	(22) 17.06.2015	12.09.2019
(21) EP19171119.1	(54) CORPECTOMY IMPLANTS WITH	(22) 07.03.2019
(47) 20.04.2022	ROUGHENED BIOACTIVE LATERAL	(54) ORTHOSIS HAVING A STOP PIN
(22) 19.09.2013	SURFACES	HOLDER
(54) INTRAOCULAR LENS	(73) Titan Spine, Inc.	(73) Albrecht GmbH
(73) Zaldivar, Roberto	(72) THOMPSON, Carmie, A.	(72) OPAHLE, Hans-Georg
Zaldivar, Roger	KENNEDY, Eric	(31) 102018105480
(72) Zaldivar, Roberto	ULLRICH, Peter, F., Jr.	(32) 09.03.2018
Zaldivar, Roger	PATTERSON, Chad, J.	(33) Germany
(31) 201261702995 P	(31) 201414306460	(51) A61F 5/01
(32) 19.09.2012	(32) 17.06.2014	(11) EP3761921
(33) United States of America	(33) United States of America	(21) EP19710373.2
(51) A61F 2/24	(51) A61F 2/44	(47) 20.04.2022
(11) EP2651336	A61F 2/46	(87) EP2019055696
(21) EP11808165.2	(11) EP2967899	12.09.2019
(47) 20.04.2022	(21) EP14762656.8	(22) 07.03.2019
(87) EP2011006253	(47) 20.04.2022	(54) ORTHOSIS COMPRISING A CAP THAT
21.06.2012	(87) US2014030848	CAN BE FIXED WITHOUT THE USE OF
(22) 12.12.2011	18.09.2014	TOOLS
(54) APPARATUS COMPRISING AN	(22) 17.03.2014	(73) Albrecht GmbH
ALIGNING DEVICE	(54) EXPANDABLE VERTEBRAL BODY	(72) OPAHLE, Hans-Georg
(73) Venus MedTech (HangZhou), Inc.	REPLACEMENT DEVICE	(31) 102018105482
(72) LIM, Hou-Sen	(73) Spectrum Spine IP Holdings, LLC	(32) 09.03.2018
GOETZ, Wolfgang	(72) PENDLETON, John, E.	(33) Germany
(31) 422669 P	ROBINSON, James, C.	(51) A61F 5/445
(32) 14.12.2010	(31) 201361802360 P	A61F 5/44
(33) United States of America	(32) 15.03.2013	A61F 5/443
(51) A61F 2/24	(33) United States of America	(11) EP3727247
(11) EP3500184	(51) A61F 5/00	(21) EP18833609.3
(21) EP17842203.6	A61F 5/01	(47) 20.04.2022
(47) 20.04.2022	A61F 5/04	(87) DK2018050394
(87) US2017047582	(11) EP3463207	27.06.2019
22.02.2018	(21) EP17807343.3	(22) 20.12.2018
(22) 18.08.2017	(47) 20.04.2022	(54) TOOLS AND METHODS FOR PLACING
(54) APPARATUS FOR MITRAL VALVE	(87) US2017035040	AN OSTOMY APPLIANCE ON A USER
REPAIR	07.12.2017	(73) Coloplast A/S
(73) LSI Solutions, Inc.	(22) 30.05.2017	(72) HANSEN, Jais Ask
(72) SAUER, Jude, S.	(54) FLEXION AND EXTENSION	DAUGAARD-JENSEN, Daniel Gewecke
MARTELLARO, Angelo, John	RANGE LIMITING HINGE FOR AN	ANDERSEN, Niels Kristian Mäkinen
(31) 201615240334	ORTHOPEDIC BRACE	HVID, Niels
(32) 18.08.2016	(73) United Surgical, Inc.	SOERENSEN, Peter Flintholm
(33) United States of America	(72) YODER, Jerome	ANDERSEN, Dan Boegsted
(51) A61F 2/44	MASON, Jeffrey, T.	(31) PA201770995
(11) EP3050540	(31) 201662343568 P	(32) 22.12.2017
	(32) 31.05.2016	

(33) Denmark	(11) EP3454807	Ben Natan, Amichai
(51) A61F 5/56	(21) EP17796717.1	(31) 201815949094
(11) EP3563813	(47) 20.04.2022	(32) 10.04.2018
(21) EP17885581.3	(87) US2017031817	(33) United States of America
(47) 20.04.2022	16.11.2017	(51) A61F 13/511
(87) JP2017044804	(22) 09.05.2017	A61F 13/49
05.07.2018	(54) NEGATIVE PRESSURE WOUND	(11) EP3466386
(22) 14.12.2017	DRESSING MANAGEMENT SYSTEM	(21) EP17806333.5
(54) MOUTHPIECE	(73) ConvaTec Technologies Inc.	(47) 20.04.2022
(73) Mitsui Chemicals, Inc.	(72) LEE, Bryony	(87) JP2017017956
(72) TSUCHIYA, Yasufumi	POWELL, Shauna	07.12.2017
RAAD, Walid	BISHOP, Stephen	(22) 11.05.2017
YUKITA, Takashi	GILDING, Duncan	(54) ABSORBENT ARTICLE
NAGAI, Hideyuki	(31) 201608099	(73) Kao Corporation
(31) 2017108996	201662370667 P	(72) KAJIWARA, Jun
2017037311	(32) 09.05.2016	FUKUDA, Yuko
2017021254	03.08.2016	KOYAMA, Izumi
2016253265	(33) United Kingdom	OKUDA, Yasuyuki
2016253263	United States of America	(31) 2017091606
2016253255	(51) A61F 13/42	2016107845
(32) 01.06.2017	G01N 27/403	(32) 02.05.2017
28.02.2017	B60C 19/00	30.05.2016
08.02.2017	(11) EP3866740	(33) Japan
27.12.2016	(21) EP19762930.6	Japan
27.12.2016	(47) 20.04.2022	(51) A61F 13/53
27.12.2016	(87) EP2019073240	B32B 5/26
(33) Japan	23.04.2020	C09J 4/00
Japan	(22) 30.08.2019	C08F 22/06
Japan	(54) CONSTRUCTIONAL FEATURES OF A	(11) EP3411000
Japan	MOISTURE DETECTOR, AND METHOD	(21) EP17702639.0
Japan	FOR MAKING SUCH	(47) 20.04.2022
Japan	(73) Fyster, As	(87) EP2017052268
(51) A61F 9/008	(72) ECKHOFF, Rolf	10.08.2017
A61F 9/007	(31) 20181323	(22) 02.02.2017
(11) EP3313338	(32) 15.10.2018	(54) LAYERED PRODUCT COMPRISING
(21) EP16739577.1	(33) Norway	SUPERABSORBENT POLYMER
(47) 20.04.2022	(51) A61F 13/49	(73) Waterdrager Holding B.V.
(87) IB2016053954	A61F 13/496	(72) CLAESSENS, Marco Johannes Cornelis
23.03.2017	A61F 13/551	Marie
(22) 30.06.2016	(11) EP3203956	ROELING, Thomas
(54) CONTROL OF SCANNING IMAGES	(21) EP15784252.7	(31) 2016217
DURING VITREORETINAL SURGERY	(47) 20.04.2022	(32) 03.02.2016
(73) Alcon Inc.	(87) US2015054813	(33) Netherlands
(72) YU, Lingfeng	14.04.2016	(51) A61F 13/58
HOPKINS, Mark	(22) 09.10.2015	A61F 13/62
REN, Hugang	(54) LENGTH-TO-WAIST AND HIP-TO-	(11) EP3357471
SANCHEZ, Robert	SIDE SILHOUETTES OF ADULT	(21) EP18000272.7
TAKAKAWA, Ryan	DISPOSABLE ABSORBENT ARTICLES	(47) 20.04.2022
(31) 201514858701	AND ARRAYS	(22) 28.09.2011
(32) 18.09.2015	(73) The Procter & Gamble Company	(54) DIAPER CLOSURE SYSTEM
(33) United States of America	(72) SEITZ, Bret Darren	(73) AVERY DENNISON CORPORATION
(51) A61F 13/00	MAGEE, Luke Robinson	(72) Bogaerts, Bert
A61F 13/08	LAVON, Gary Dean	(31) 38717410 P
D04B 21/18	MENNER, Jeremy	(32) 28.09.2010
(11) EP3021805	HAMILTON, Raymond Scott	(33) United States of America
(21) EP13742190.5	(31) 201462061874 P	(51) A61G 1/00
(47) 20.04.2022	(32) 09.10.2014	A61G 1/02
(87) EP2013065281	(33) United States of America	A61G 1/04
22.01.2015	(51) A61F 13/495	(11) EP3352673
(22) 19.07.2013	A61F 13/494	(21) EP16882231.0
(54) ELASTIC BANDAGE	(11) EP3552590	(47) 20.04.2022
(73) Presscise AB	(21) EP18188917.1	(87) US2016056664
(72) VASILIS, Jonathan	(47) 20.04.2022	06.07.2017
MATTSSON, Erney	(22) 14.08.2018	(22) 12.10.2016
LUNDH, Torbjörn	(54) ANTI-IRRITANT DIAPER	(54) RADIOABSORBENT ASSEMBLIES
(51) A61F 13/02	(73) Ben Natan, Amichai	(73) Egg Medical, Inc.
A61F 13/00	Ben Natan, Chaim	(72) GAINOR, John P.
A61M 1/00	(72) Ben Natan, Chaim	WILSON, Robert F.

VALETI, Uma S.	(11) EP3463244	(33) United States of America
(31) 201562240409 P	(21) EP17805889.7	United States of America
(32) 12.10.2015	(47) 20.04.2022	(51) A61J 15/00
(33) United States of America	(87) CN2017086964	(11) EP3691601
(51) A61G 5/06	07.12.2017	(21) EP18887214.7
A61G 5/10	(22) 02.06.2017	(47) 20.04.2022
B66B 9/08	(54) GUIDE ROBOT AND METHOD AND	(87) US2018067923
B62D 55/075	SYSTEM FOR OPERATING THE SAME	02.07.2020
(11) EP3758662	(73) BOE Technology Group Co., Ltd.	(22) 28.12.2018
(21) EP19705820.9	(72) YU, Zhanquan	(54) CATHETER WITH BALLOON VALVE
(47) 20.04.2022	(31) 201610391227	(73) Sainath Intellectual Properties, LLC
(87) IB2019050276	(32) 03.06.2016	(72) IYUNNI, Venkata Sesha Sayi Nath
18.07.2019	(33) China	(51) A61J 15/00
(22) 14.01.2019	(51) A61J 1/03	A61B 5/00
(54) TRACKED STAIR CLIMBER	A61J 1/20	A61B 5/06
(73) Antano Group S.r.l.	A61J 1/05	(11) EP3429549
(72) MANCINELLI, Vincenzo	(11) EP3064189	(21) EP17706172.8
(31) 201800000933	(21) EP13896379.8	(47) 20.04.2022
(32) 15.01.2018	(47) 20.04.2022	(87) EP2017053023
(33) Italy	(87) JP2013079214	21.09.2017
(51) A61H 1/00	07.05.2015	(22) 10.02.2017
A61H 99/00	(22) 29.10.2013	(54) FIBER-OPTIC REALSHAPE SENSING
A47C 1/024	(54) DIVIDED PACKET, METHOD OF	FEEDING TUBE
A47C 1/034	MANUFACTURING DIVIDED PACKET,	(73) Koninklijke Philips N.V.
A61M 21/02	AND DEVICE FOR MANUFACTURING	(72) FLEXMAN, Molly, Lar
A61M 21/00	DIVIDED PACKET	VAN DER MARK, Martinus, Bernardus
A47B 83/02	(73) Morimoto-Pharma Co., Ltd.	KAHYA, Neriman, Nicoletta
(11) EP3817702	(72) MORIMOTO, Shuji	(31) 201662308243 P
(21) EP19734120.9	YAMAUCHI, Hiroshi	(32) 15.03.2016
(47) 20.04.2022	NOZAKI, Masao	(33) United States of America
(87) EP2019067910	MIKAMI, Masaho	(51) A61K 6/20
09.01.2020	(51) A61J 3/10	A61K 6/30
(22) 03.07.2019	G01N 27/22	A61K 6/54
(54) MULTI-SENSORY RECLINER CHAIR	G01N 33/15	A61K 6/61
(73) Habiche, Leila Benedicte	(11) EP3684322	A61K 6/76
(72) Habiche, Leila Benedicte	(21) EP18773748.1	A61K 6/77
(31) 1856165	(47) 20.04.2022	A61K 6/80
(32) 04.07.2018	(87) EP2018075415	A61K 6/887
(33) France	28.03.2019	(11) EP3166570
(51) A61H 1/02	(22) 20.09.2018	(21) EP15739446.1
A61H 3/00	(54) PHARMACEUTICAL MANUFACTURING	(47) 20.04.2022
(11) EP3581166	INSTALLATION AND METHOD	(87) US2015039286
(21) EP19182901.9	OF MANUFACTURING OF A	14.01.2016
(47) 20.04.2022	PHARMACEUTICAL PRODUCT	(22) 07.07.2015
(22) 01.08.2016	(73) F. Hoffmann-La Roche AG	(54) TWO-COMPONENT SELF-ADHESIVE
(54) FRAME ASSEMBLY AND MOTION	(72) CHALUS, Pascal	DENTAL COMPOSITION, PROCESS OF
ASSISTANCE APPARATUS INCLUDING	SIBIK, Juraj	PRODUCTION AND USE THEREOF
THE SAME	(31) 17192423	(73) 3M Innovative Properties Company
(73) Samsung Electronics Co., Ltd.	(32) 21.09.2017	(72) HECHT, Reinhold
Korea University of Technology	(33) European Patent Office (EPO)	LUDSTECK, Manfred
and Education Industry-University	(51) A61J 9/00	GUGGENBERGER, Rainer
Corporation Foundation	A61J 11/04	RAIA, Gioacchino
(72) ROH, Se-Gon	B65D 6/02	STIPPSCHILD, Andrea
CHOI, Hyun do	(11) EP2906177	(31) 14176520
LEE, Youn Baek	(21) EP13846217.1	(32) 10.07.2014
KIM, Jeonghun	(47) 20.04.2022	(33) European Patent Office (EPO)
KIM, Yong-Jae	(87) US2013064456	(51) A61K 8/27
LEE, Jongwon	17.04.2014	A61Q 1/00
(31) 20160026905	(22) 11.10.2013	A61Q 19/00
20150166078	(54) CHILD FEEDING SYSTEM	C10G 9/02
(32) 07.03.2016	(73) Narendran, Kailas N.	A61K 8/02
26.11.2015	McBean, John M.	A61Q 1/12
(33) Korea (Republic)	(72) McBean, John M.	(11) EP3305272
Korea (Republic)	Narendran, Kailas N.	(21) EP16800103.0
(51) A61H 3/06	(31) 201313854054	(47) 20.04.2022
A61H 3/04	201261712527 P	(87) JP2016065632
G01S 13/58	(32) 30.03.2013	01.12.2016
G01S 13/93	11.10.2012	(22) 26.05.2016

(54) SEBUM ADSORBENT AND COSMETIC COMPRISING SAME	(31) 1657859 1657858	(11) EP3253372
(73) Sakai Chemical Industry Co., Ltd.	16198041	(21) EP16747314.9
(72) ASHIDA, Takuro	16182522	(47) 20.04.2022
HAYASHI, Shintaro	16182521	(87) US2016016703
(31) 2015108695	15198427	11.08.2016
(32) 28.05.2015	(32) 23.08.2016	(22) 05.02.2016
(33) Japan	23.08.2016	(54) PREPARATION OF AN OIL-IN-WATER EMULSION FOR POLYMER STABILIZED PHARMACEUTICAL FORMULATIONS
(51) A61K 8/34	09.11.2016	(73) R.P. Scherer Technologies, LLC
A61Q 19/08	03.08.2016	(72) UKEJE, Anayo Michael
A61K 8/9794	03.08.2016	SWANK, Ronald W.
(11) EP3727302	08.12.2015	WONG, Waiken
(21) EP18833969.1	(33) France	FOREMAN, James Michael
(47) 20.04.2022	France	(31) 201562112804 P
(87) FR2018053367	European Patent Office (EPO)	(32) 06.02.2015
27.06.2019	European Patent Office (EPO)	(33) United States of America
(22) 18.12.2018	European Patent Office (EPO)	
(54) COSMETIC COMPOSITIONS IN PARTICULAR WITH ANTI-AGING EFFECT, COMPRISING A GREEN EXTRACT OF AFRAMOMUM ANGUSTIFOLIUM OR LONGOZA PLANT	European Patent Office (EPO)	
(73) LVMH Recherche	(51) A61K 9/00	(51) A61K 9/127
(72) PECHER, Virginie	A61K 9/28	A61K 9/48
JEANNETON, Olivier	A61K 47/34	A61K 48/00
LEBLANC-NOBLESSE, Emmanuelle	A61P 17/00	C12N 15/11
NIZARD, Carine	A61P 17/06	C07H 21/04
(31) 1762974	A61P 17/10	A61P 9/00
(32) 22.12.2017	A61P 17/16	A61K 31/7088
(33) France	A61P 31/00	(11) EP3544591
(51) A61K 8/36	A61P 29/00	(21) EP17873643.5
A61Q 13/00	A61K 31/203	(47) 20.04.2022
(11) EP3793514	A61K 31/327	(87) US2017063060
(21) EP19724474.2	A61K 31/4436	31.05.2018
(47) 20.04.2022	A61K 33/40	(22) 22.11.2017
(87) EP2019062472	(11) EP2109445	(54) PARTICLE-MEDIATED DELIVERY OF BIOLOGICS
21.11.2019	(21) EP08702719.9	(73) Mayo Foundation for Medical Education and Research
(22) 15.05.2019	(47) 20.04.2022	(72) TERZIC, Andre
(54) FRAGRANCE COMPOSITIONS	(87) IL2008000140	BEHFAR, Atta
(73) Givaudan SA	07.08.2008	(31) 201662426090 P
(72) GRANIER, Thierry	(22) 03.02.2008	(32) 23.11.2016
LELIEVRE, Dominique	(54) COMPOSITIONS FOR TOPICAL APPLICATION COMPRISING A PEROXIDE AND RETINOID	(33) United States of America
LINIGER, Marc	(73) Sol-Gel Technologies Ltd.	(51) A61K 9/14
(31) PCT/EP2018/080974	(72) SERTCHOOK, Hanan	A61K 9/127
PCT/EP2018/062552	BAR-SIMANTOV, Haim	A61P 31/12
(32) 12.11.2018	SHAPIRO, Leora	A61P 31/10
15.05.2018	TOLEDANO, Ofer	A61P 31/04
(33) World Intellectual Property Office (WIPO)	ABU-REZIQ, Raed	A61P 31/06
World Intellectual Property Office (WIPO)	LOBODA, Natalia	A61P 31/00
(51) A61K 8/41	(31) 898701 P	A61P 11/08
A61Q 5/02	(32) 01.02.2007	A61P 31/08
A61Q 5/12	(33) United States of America	A61K 9/00
(11) EP3386473	(51) A61K 9/107	A61P 11/00
(21) EP16809352.4	A61K 47/10	A61K 31/7048
(47) 20.04.2022	A61K 47/30	A61K 31/7036
(87) EP2016080033	A61K 31/436	A61K 31/7034
15.06.2017	A61K 38/13	A61K 31/496
(22) 07.12.2016	A61K 38/22	(11) EP3067047
(54) OLIGOESTER AMMONIUM SALTS AND THEIR USE IN COSMETIC COMPOSITIONS	A61K 31/05	(21) EP16156100.6
(73) Clariant International Ltd	A61K 31/395	(47) 20.04.2022
(72) KRATZ, Anton	A61K 31/4045	(22) 05.12.2006
KITA-TOKARCZYK, Katarzyna	A61K 31/427	(54) LIPID-BASED COMPOSITIONS OF ANTIINFECTIVES FOR TREATING PULMONARY INFECTIONS
BENSON, Hannah	A61K 31/4745	(73) Insmmed Incorporated
PLATEN, Tobias	A61K 31/465	(72) NICHOLSON, Susan
LEINWEBER, Dirk	A61K 31/7048	WEERS, Jeff
	A61K 31/7068	(31) 748468 P
	A61K 31/675	(32) 08.12.2005
	A61K 47/14	(33) United States of America
	A61K 38/14	
	A61K 31/337	

(51) A61K 9/16	United States of America	(33) European Patent Office (EPO)
(11) EP3398615	(51) A61K 9/48	(51) A61K 31/4365
(21) EP16882104.9	A61K 9/51	A61K 31/4355
(47) 20.04.2022	A61K 31/7076	C07D 495/04
(87) KR2016015445	A61K 38/02	C07D 491/04
06.07.2017	C12N 9/10	A61P 17/00
(22) 29.12.2016	(11) EP3582761	(11) EP3624795
(54) MUCOADHESIVE PHARMACEUTICAL	(21) EP18888492.8	(21) EP18731592.4
COMPOSITION AND PREPARATION	(47) 20.04.2022	(47) 20.04.2022
METHOD THEREFOR	(87) US2018065168	(87) US2018033544
(73) Samyang Holdings Corporation	20.06.2019	22.11.2018
(72) YOON, Jong Won	(22) 12.12.2018	(22) 18.05.2018
PARK, Sang Yeob	(54) METHODS AND COMPOSITIONS	(54) FUSED HETEROAROMATIC-ANILINE
(31) 20150190402	FOR VAULT NANOPARTICLE	COMPOUNDS FOR TREATMENT OF
(32) 30.12.2015	IMMOBILIZATION OF THERAPEUTIC	DERMAL DISORDERS
(33) Korea (Republic)	MOLECULES AND FOR VAULT	(73) NFlection Therapeutics, Inc.
(51) A61K 9/19	TARGETING	(72) DUNCTON, Matthew
A61K 9/00	(73) Aukera, Inc.	KINCAID, John
A61K 47/12	(72) BOXX, Gayle	(31) 201762508997 P
A61P 1/02	(31) 201762598378 P	(32) 19.05.2017
A61L 24/00	(32) 13.12.2017	(33) United States of America
A61L 24/02	(33) United States of America	(51) A61K 31/437
A61L 24/04	(51) A61K 31/19	A61K 31/497
A61L 24/08	A61K 38/22	A61P 35/00
A61L 15/00	A61P 3/04	A61P 29/00
A61F 13/00	(11) EP3434268	A61P 25/00
(11) EP3534975	(21) EP18181547.3	A61P 9/04
(21) EP17868020.3	(47) 20.04.2022	A61P 27/12
(47) 20.04.2022	(22) 26.09.2013	C07D 491/048
(87) IB2017056871	(54) COMPOUNDS FOR THE TREATMENT	A61K 31/423
11.05.2018	OF OBESITY AND METHODS OF USE	A61K 45/06
(22) 03.11.2017	THEREOF	A61K 31/444
(54) MUCOADHESIVE PREPARATIONS,	(73) The Children's Medical Center	A61K 31/4745
METHODS AND APPLICATIONS	Corporation	A61K 31/519
THEREOF	The General Hospital Corporation	A61K 31/5377
(73) Axio Biosolutions Pvt. Ltd	(72) MAJZOUB, Joseph	C07D 498/04
(72) A.G., Indu	MAZITSCHEK, Ralph	(11) EP3180002
SONAJE, Kiran	CAKIR, Isin	(21) EP15832016.8
MAVELY, Leo	OZCAN, Umut	(47) 20.04.2022
(31) 201621037801	CABI, Serkan	(87) IB2015056129
(32) 04.11.2016	(31) 201261706153 P	18.02.2016
(33) India	(32) 27.09.2012	(22) 12.08.2015
(51) A61K 9/20	(33) United States of America	(54) INHIBITORS OF TRYPTOPHAN
A61K 9/24	(51) A61K 31/43	DIOXYGENASES (IDO1 AND TDO) AND
A61K 31/09	A61K 31/431	THEIR USE IN THERAPY
A61K 31/192	A61K 31/366	(73) Auckland Uniservices Limited
A61K 31/485	A61K 31/22	(72) CHING, Lai Ming
A61K 9/22	A61K 45/06	PALMER, Brian Desmond
(11) EP3364955	A61P 31/04	GAMAGE, Swarnalatha Akuratiya
(21) EP16785649.1	(11) EP3703756	(31) 62868814
(47) 20.04.2022	(21) EP18800066.5	(32) 13.08.2014
(87) US2016056481	(47) 20.04.2022	(33) New Zealand
13.04.2017	(87) EP2018080057	(51) A61K 31/44
(22) 11.10.2016	09.05.2019	A61K 31/4985
(54) PHARMACEUTICAL FORMULATION	(22) 02.11.2018	A61K 31/519
(73) RB Health (US) LLC	(54) USE OF STATINS IN OVERCOMING	C07D 519/00
(72) KASER, Matthew	RESISTANCE TO BETA-LACTAM	(11) EP3240536
CHEN, Kevin	ANTIBIOTICS IN BACTERIAL SPECIES	(21) EP15875972.0
WOODHOUSE, Ernest, Joseph	SYNTHETIZING ISOPRENOIDS USING	(47) 20.04.2022
WILKINSON, Elliot	THE MEVALONATE SYNTHETIC	(87) US2015066225
BOROVICKA, Josef	PATHWAY	07.07.2016
QIU, Hongchun	(73) Consejo Superior de Investigaciones	(22) 17.12.2015
CAVATUR, Raghu	Cientificas (CSIC)	(54) IMIDAZOPYRAZINE ANALOGS WITH 3-
(31) 201562239775 P	University of Würzburg	TERTIARY CARBON SUBSTITUTIONS
201562239780 P	(72) LÓPEZ SERRANO, Daniel	AS BTK INHIBITORS
(32) 09.10.2015	KOCH, Gudrun	(73) Merck Sharp & Dohme Corp.
09.10.2015	(31) 17382734	(72) WANG, Dahai
(33) United States of America	(32) 02.11.2017	LIU, Jian

GUIADEEN, Deodialsingh GAO, Xiaolei KOZLOWSKI, Joseph, A. (31) PCT/CN2014/095767 (32) 31.12.2014 (33) World Intellectual Property Office (WIPO)	(51) A61K 31/661 A61K 9/00 A61P 25/00 A61P 25/28 A61P 21/00 (11) EP3592360 (21) EP18709010.5 (47) 20.04.2022 (87) EP2018055706 13.09.2018 (22) 08.03.2018 (54) ACEFAPC FOR THE TREATMENT OF ACETYLCHOLINE-DEPENDENT DISEASES (73) Institut national de recherche pour l'agriculture, l'alimentation et l'environnement Institut National de la Santé et de la Recherche Médicale (INSERM) Institut National des Sciences Appliquées de Lyon Université Claude Bernard Lyon 1 Lipther	A61K 45/06 A61K 31/4415 A61K 31/455 A61K 31/4188 A61K 31/51 A61K 31/555 A61K 31/593 A61K 33/30 A61K 31/525 A61K 31/714 A23L 33/105 (11) EP3533454 (21) EP18200636.1 (47) 20.04.2022 (22) 20.10.2015 (54) COMPOSITION COMPRISING A MIXTURE OF PLANT EXTRACTS OR A MIXTURE OF MOLECULES CONTAINED IN SAID PLANTS AND USE TO ACT ON THE CARBOHYDRATE AND/OR LIPID METABOLISM (73) La Rochelle Université Université Clermont Auvergne CNRS Valbiotis
(51) A61K 31/47 A61K 9/46 A61K 9/16 A61K 9/48 (11) EP3606511 (21) EP18713995.1 (47) 20.04.2022 (87) EP2018058629 11.10.2018 (22) 04.04.2018 (54) PHARMACEUTICAL COMPOSITION COMPRISING LENVATINIB MESYLATE (73) Synthron B.V. (72) ÁLVAREZ FERNÁNDEZ, Lisardo VELADA CALZADA, Jose KUMAR, Rohit NOGUEIRAS NIETO, Luis (31) 17164761 (32) 04.04.2017 (33) European Patent Office (EPO)	(51) A61K 31/47 A61K 47/02 A61K 9/16 A61K 9/48 (11) EP3632436 (21) EP18198662.1 (47) 20.04.2022 (22) 04.10.2018 (54) PHARMACEUTICAL COMPOSITION COMPRISING LENVATINIB SALTS (73) Synthron B.V. (72) ALVAREZ FERNANDEZ, Lisardo NOGUIRAS NIETO, Luis (11) EP3254685 (21) EP16746880.0 (47) 20.04.2022 (87) KR2016001310 11.08.2016 (22) 05.02.2016 (54) COMPOSITION FOR TREATING INFLAMMATORY DISEASE INDUCED BY HYPER-IMMUNE RESPONSE (73) Kolon TissueGene, Inc. Kolon Life Science, Inc. (72) KIM, Sujeong CHOI, Kyoungbaek KIM, Daewook LEE, Hyeonyoul LEE, Hyesun KIM, Min CHOI, Heonsik (31) 201562112718 P (32) 06.02.2015 (33) United States of America	(72) MAUGARD, Thierry SIRVENT, Pascal PELTIER, Sébastien (31) 1460064 (32) 20.10.2014 (33) France
(51) A61K 31/47 A61K 47/02 A61K 9/16 A61K 9/48 (11) EP3632436 (21) EP18198662.1 (47) 20.04.2022 (22) 04.10.2018 (54) PHARMACEUTICAL COMPOSITION COMPRISING LENVATINIB SALTS (73) Synthron B.V. (72) ALVAREZ FERNANDEZ, Lisardo NOGUIRAS NIETO, Luis (11) EP3197460 (21) EP15788100.4 (47) 20.04.2022 (87) FR2015000185 31.03.2016 (22) 22.09.2015 (54) DERMOCOSMETIC OR PHARMACEUTICAL USE OF A COMPOSITION CONTAINING AT LEAST ONE INHIBITOR OF CERTAIN CHEMOKINES (73) Greenpharma Université de Strasbourg Centre National de la Recherche Scientifique (CNRS)	(51) A61K 35/32 A61K 35/12 A61K 38/18 A61P 29/00 A61P 19/02 A61P 3/10 (11) EP3254685 (21) EP16746880.0 (47) 20.04.2022 (87) KR2016001310 11.08.2016 (22) 05.02.2016 (54) COMPOSITION FOR TREATING INFLAMMATORY DISEASE INDUCED BY HYPER-IMMUNE RESPONSE (73) Kolon TissueGene, Inc. Kolon Life Science, Inc. (72) KIM, Sujeong CHOI, Kyoungbaek KIM, Daewook LEE, Hyeonyoul LEE, Hyesun KIM, Min CHOI, Heonsik (31) 201562112718 P (32) 06.02.2015 (33) United States of America	(51) A61K 36/61 A61P 35/00 A61K 36/074 A61K 36/076 A61K 36/236 A61K 36/284 A61K 36/285 A61K 36/287 A61K 36/481 A61K 36/484 A61K 36/489 A61K 36/534 A61K 36/54 (11) EP3597207 (21) EP17900742.2 (47) 20.04.2022 (87) CN2017101223 20.09.2018 (22) 11.09.2017 (54) TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING TUMOURS, PREPARATION METHOD THEREFOR AND USE THEREOF (73) Zuo, Shixu Zhao, Na Zuo, Angang (72) Zuo, Shixu Zuo, Angang Zhao, Na (31) 201710147162 (32) 13.03.2017 (33) China
(51) A61K 31/616 A61P 17/00 A61K 9/06 A61K 45/06 A61K 8/37 (11) EP3197460 (21) EP15788100.4 (47) 20.04.2022 (87) FR2015000185 31.03.2016 (22) 22.09.2015 (54) DERMOCOSMETIC OR PHARMACEUTICAL USE OF A COMPOSITION CONTAINING AT LEAST ONE INHIBITOR OF CERTAIN CHEMOKINES (73) Greenpharma Université de Strasbourg Centre National de la Recherche Scientifique (CNRS)	(51) A61K 36/28 A61K 36/45 A61K 36/67 A61P 3/10 A61K 9/00 A61K 9/28 A61K 9/48 A61K 31/197 A61K 31/4525	(72) Zuo, Shixu Zuo, Angang Zhao, Na (31) 201710147162 (32) 13.03.2017 (33) China (51) A61K 38/00 C07K 14/00 A61K 31/282 A61K 31/4188

A61K 35/28	(11) EP3476399	(54) ANTI-GM-CSF ANTIBODIES AND USES THEREFOR
A61K 35/30	(21) EP17814733.6	(73) MorphoSys AG
A61K 45/06	(47) 20.04.2022	(72) THOMASSEN-WOLF, Elisabeth
A61K 35/12	(87) CN2017089492	STEIDL, Stefan
A61P 25/02	28.12.2017	(31) 68200905 P
(11) EP3500285	(22) 22.06.2017	(32) 18.05.2005
(21) EP17842044.4	(54) LAG-3 ANTIBODY, ANTIGEN-BINDING FRAGMENT THEREOF, AND PHARMACEUTICAL APPLICATION THEREOF	(33) United States of America
(47) 20.04.2022	(73) Shanghai Hengrui Pharmaceutical Co., Ltd.	(51) A61K 39/155
(87) US2017047107	Jiangsu Hengrui Medicine Co. Ltd.	C07K 14/135
22.02.2018	(72) SUN, Piao yang	C07K 16/10
(22) 16.08.2017	FU, Yayuan	(11) EP3178490
(54) COMPOSITIONS FOR THE TREATMENT OF CHEMOTHERAPY-INDUCED NEUROPATHIC PAIN	ZHANG, Lianshan	(21) EP16190004.8
(73) Henry Ford Health System	TAO, Weikang	(47) 20.04.2022
(72) CHOPP, Michael	CAO, Zhuoxiao	(22) 15.07.2010
ZHANG, Yi	HU, Qiyue	(54) RSV F PROTEIN COMPOSITIONS AND METHODS FOR MAKING SAME
ZHANG, Zhenggang	(31) 201610465386	(73) GlaxoSmithKline Biologicals S.A.
(31) 201662375820 P	(32) 23.06.2016	(72) DORMITZER, Philip, R.
(32) 16.08.2016	(33) China	SWANSON, Kurt
(33) United States of America	(51) A61K 39/00	(31) 294426 P
(51) A61K 38/08	A61P 31/18	225805 P
A61K 48/00	C07K 16/10	(32) 12.01.2010
C07K 14/47	(11) EP3556396	15.07.2009
A61P 29/00	(21) EP19156884.9	(33) United States of America
(11) EP3206704	(47) 20.04.2022	United States of America
(21) EP15851584.1	(22) 31.08.2011	(51) A61K 39/395
(47) 20.04.2022	(54) HUMAN IMMUNODEFICIENCY VIRUS (HIV)-NEUTRALIZING ANTIBODIES	A61P 9/10
(87) US2015055380	(73) Theraclone Sciences, Inc.	A61P 29/00
21.04.2016	The Scripps Research Institute	A61P 37/06
(22) 13.10.2015	International AIDS Vaccine Initiative	(11) EP3283110
(54) PEPTIDES HAVING ANTI-INFLAMMATORY PROPERTIES	(72) Huber, Michael	(21) EP16780800.5
(73) Riptide Bioscience, Inc.	Doores, Katherine	(47) 20.04.2022
(72) GARVIN, Charles E.	Olsen, Ole	(87) US2016027676
MARTIN, George R.	Burton, Dennis. R.	20.10.2016
LOPEZ, Henry W.	Moyle, Matthew	(22) 15.04.2016
JAYNES, Jesse M.	Walker, Laura Marjorie	(54) ANTIBODIES DIRECTED AGAINST INTERLEUKIN 36 RECEPTOR (IL-36R)
YATES, Clayton	Frey, Steven	(73) AnaptysBio, Inc.
(31) 201462063909 P	Mitcham, Jennifer	(72) LONDEI, Marco
(32) 14.10.2014	Kaminsky, Stephen	BOWERS, Peter
(33) United States of America	Koff, Wayne	MCKNIGHT, Andrew John
(51) A61K 38/46	Poignard, Pascal Raymond Georges	KING, David J.
C12N 15/113	Chan-Hui, Po-ying	(31) 201562147824 P
C07K 14/44	Phogat, Sanjay K.	(32) 15.04.2015
A61P 21/00	Simek-Lemos, Melissa Danielle, de Jean de St. Marcel	(33) United States of America
(11) EP3180034	(31) 201161515548 P	(51) A61K 45/06
(21) EP15832025.9	201161476978 P	A61K 9/00
(47) 20.04.2022	38694010 P	A61K 9/10
(87) US2015044639	37860410 P	A61K 47/38
18.02.2016	(32) 05.08.2011	A61K 9/20
(22) 11.08.2015	19.04.2011	A61K 31/506
(54) PREVENTION OF MUSCULAR DYSTROPHY BY CRISPR/CAS9-MEDIATED GENE EDITING	27.09.2010	(11) EP3426251
(73) The Board of Regents of The University of Texas System	31.08.2010	(21) EP17764092.7
(72) SHELTON, John M.	(33) United States of America	(47) 20.04.2022
MCANALLY, John R.	United States of America	(87) US2017021565
LONG, Chengzu	United States of America	14.09.2017
BASSEL-DUBBY, Rhonda	United States of America	(22) 09.03.2017
OLSON, Eric N.	(51) A61K 39/00	(54) METHODS OF TREATING DEPRESSION USING OREXIN-2 RECEPTOR ANTAGONISTS
(31) 201462035584 P	C07K 16/24	(73) Janssen Pharmaceutica NV
(32) 11.08.2014	(11) EP3620171	(72) DE BOER, Peter
(33) United States of America	(21) EP19180152.1	KENT, Justine, M.
(51) A61K 39/00	(47) 20.04.2022	DREVETS, Wayne, C.
A61K 39/395	(22) 17.05.2006	(31) 201662306487 P
C07K 16/28		(32) 10.03.2016
		(33) United States of America

(51) A61K 47/54 C07K 14/605 A61P 3/10 A61P 1/00 A61P 1/14 A61P 3/04 A61P 3/06 A61P 3/08 A61P 7/12 A61P 9/00 A61P 15/00 A61P 15/08 A61P 43/00	A61K 8/14 C07K 14/54 C07K 16/18 A61K 47/42 A61K 39/395 A61P 35/00 C07K 14/525	(72) PARZINGER, Mara SCHMIDT, Alexander WESTER, Hans-Jürgen
(11) EP2637698 (21) EP11779456.0 (47) 20.04.2022 (87) EP2011069738 18.05.2012 (22) 09.11.2011 (54) DOUBLE-ACYLATED GLP-1 DERIVATIVES	(11) EP3292140 (21) EP16790111.5 (47) 20.04.2022 (87) US2016031049 10.11.2016 (22) 05.05.2016 (54) CANCER IMMUNOTHERAPEUTIC	(31) 17206510 (32) 11.12.2017 (33) European Patent Office (EPO)
(73) Novo Nordisk A/S (72) LAU, Jesper GARIBAY, Patrick William LINDEROTH, Lars MADSEN, Alice Ravn SPETZLER, Jane KOFOED, Jacob WIECZOREK, Birgit KODRA, János Tibor SAUERBERG, Per KRUSE, Thomas	(73) Rubicon Biotechnology LLC (72) REYNOLDS, Glenn RICHERI, Richard PARSEGHIAN, Missag (31) 201562157395 P (32) 05.05.2015 (33) United States of America	(51) A61L 2/07 A61L 2/28 A61B 90/70 C12Q 1/22 G01N 31/22 (11) EP3485915 (21) EP17202315.2 (47) 20.04.2022 (22) 17.11.2017 (54) DEVICE AND METHOD FOR DETECTING A SUCCESSFUL THERMAL DISINFECTION OR STERILIZATION
(31) 414221 P 201161497123 P 10190515 11169276	(31) 201562157395 P (32) 05.05.2015 (33) United States of America	(51) A61L 2/07 A61L 2/28 A61B 90/70 C12Q 1/22 G01N 31/22 (11) EP3485915 (21) EP17202315.2 (47) 20.04.2022 (22) 17.11.2017 (54) DEVICE AND METHOD FOR DETECTING A SUCCESSFUL THERMAL DISINFECTION OR STERILIZATION
(32) 16.11.2010 15.06.2011 09.11.2010 09.06.2011	(31) 201562157395 P (32) 05.05.2015 (33) United States of America	(73) MELAG Medizintechnik GmbH & Co. KG (72) BONATZ, Stefan PODOLSKI, Denis BECKER, Tino PFEIFER, Stefan
(33) United States of America United States of America European Patent Office (EPO) European Patent Office (EPO)	(51) A61K 48/00 A61P 27/02 C12N 15/63 C12N 15/86 (11) EP3413928 (21) EP17750871.0 (47) 20.04.2022 (87) US2017017469 17.08.2017 (22) 10.02.2017 (54) ANTI-ANGIOGENIC MIRNA THERAPEUTICS FOR INHIBITING CORNEAL NEOVASCULARIZATION	(51) A61L 9/20 B60H 3/06 (11) EP3758761 (21) EP19707014.7 (47) 20.04.2022 (87) EP2019054978 06.09.2019 (22) 28.02.2019 (54) AIR TREATMENT DEVICE
(51) A61K 47/64 C08K 5/16 C12N 15/64 A61K 47/54 A61K 47/59	(73) University of Massachusetts (72) XUN, Xu TAI, Phillip ZHENG, Qiang ZAMORE, Phillip, D. GAO, Guangping LU, Yi (31) 201662294362 P (32) 12.02.2016 (33) United States of America	(73) HUTCHINSON (72) MOUNIER, Jean-Yves (31) 1851769 (32) 28.02.2018 (33) France
(11) EP2903652 (21) EP13779729.6 (47) 20.04.2022 (87) EP2013002978 10.04.2014 (22) 02.10.2013 (54) HYDROXYLATED POLYAMINE DERIVATIVES AS TRANSFECTION REAGENTS	(51) A61K 49/00 (11) EP3773750 (21) EP19713467.9 (47) 20.04.2022 (87) EP2019057538 03.10.2019 (22) 26.03.2019 (54) FORMULATION AND METHOD OF PREPARATION	(51) A61L 15/24 A61L 15/28 A61L 15/42 (11) EP3843796 (21) EP19790784.3 (47) 20.04.2022 (87) IB2019057215 05.03.2020 (22) 27.08.2019 (54) COMPOSITE DRESSINGS, MANUFACTURING METHODS AND APPLICATIONS THEREOF
(73) BioNTech Delivery Technologies GmbH (72) REINSCH, Christian PANZNER, Steffen WENDISCH, Volkmar DREHER, Christina	(73) GE Healthcare AS (72) KISERUD, Marit Swärd Nordmo (31) 201804835 (32) 26.03.2018 (33) United Kingdom	(73) ADVAMEDICA INC. (72) MAVELY, Leo AGRAWAL, Animesh SONAJE, Kiran (31) 201841032029 (32) 27.08.2018 (33) India
(31) 12006913 (32) 05.10.2012 (33) European Patent Office (EPO)	(51) A61K 51/04 (11) EP3723815 (21) EP18812215.4 (47) 20.04.2022 (87) EP2018084399 20.06.2019 (22) 11.12.2018 (54) PSMA LIGANDS FOR IMAGING AND ENDORADIO THERAPY	(51) A61L 15/42 A61L 15/28 A61L 15/22 A61L 24/00 A61L 24/04 A61L 31/04 A61L 31/14 (11) EP3308807 (21) EP16807858.2 (47) 20.04.2022 (87) KR2016006213
(51) A61K 47/68 C07K 14/47	(73) Technische Universität München	

15.12.2016	(51) A61L 27/18	A61L 27/54
(22) 10.06.2016	A61L 27/22	(11) EP3159018
(54) POROUS STRUCTURE AND METHOD	A61L 27/24	(21) EP16184407.1
FOR MANUFACTURING SAME	A61L 27/56	(47) 20.04.2022
(73) Korea Institute Of Industrial Technology	C08L 67/00	(22) 27.02.2009
(72) KIM, Chaehwa	(11) EP3180041	(54) GRADIENT COATING FOR
KIM, Yoonjin	(21) EP15757073.0	BIOMEDICAL APPLICATIONS
DOH, Song Jun	(47) 20.04.2022	(73) Smith & Nephew, Inc
IM, Jung Nam	(87) US2015045337	(72) SCOTT, Marcus, L
LEE, Gyu Dong	18.02.2016	JANI, Shilesh, C
KIM, Tae Hee	(22) 14.08.2015	WHITSITT, Laura, S
(31) 20150083576	(54) COMPOSITION, METHODS	GAN, Lu
(32) 12.06.2015	AND DEVICES USEFUL FOR	(31) 32767 P
(33) Korea (Republic)	MANUFACTURING OF IMPLANTABLE	(32) 29.02.2008
(51) A61L 15/60	ARTICLES	(33) United States of America
B65G 53/04	(73) The Secant Group, LLC	(51) A61L 27/34
C08J 3/12	(72) HARRIS, Jeremy J.	D04H 1/728
(11) EP3749376	ROBERTSON, Austin	A61L 31/10
(21) EP19701863.3	GABRIELE, Peter D.	D01D 5/00
(47) 20.04.2022	NICHOLSON, Charles Brendan	(11) EP3355949
(87) EP2019051966	WROBLESKY, Kayla	(21) EP16791670.9
15.08.2019	DONNELLY, Julia	(47) 20.04.2022
(22) 28.01.2019	SMOOT, Carissa	(87) IB2016001529
(54) METHOD FOR THE PNEUMATIC	(31) 201462037640 P	06.04.2017
DELIVERY OF SUPERABSORBENT	201462037425 P	(22) 03.10.2016
PARTICLES	(32) 15.08.2014	(54) METHODS FOR ELECTROSPIN
(73) BASF SE	14.08.2014	COATING AND LAMINATING OF
(72) BAUMANN, Katrin	(33) United States of America	ENDOLUMINAL PROSTHESES
DANIEL, Thomas	United States of America	(73) Xeltis AG
BAUER, Stephan	(51) A61L 27/24	(72) COX, Martijn Antonius Johannes
WOLF, Hanno Ruediger	A61F 2/00	NANDAKUMAR, Anandkumar
TOENNESSEN, Markus	(11) EP3375461	SVANIDZE, Oleg
(31) 18155317	(21) EP16868041.1	VOLPATO, Fabio, Zomer
(32) 06.02.2018	(47) 20.04.2022	NAZ, Christophe Pierre Edouard
(33) European Patent Office (EPO)	(87) CN2016107264	(31) 201562236073 P
(51) A61L 17/10	01.06.2017	(32) 01.10.2015
D01F 6/62	(22) 25.11.2016	(33) United States of America
A61L 27/18	(54) TISSUE REPAIR FIBER MEMBRANE,	(51) A61L 27/36
A61L 17/14	PREPARATION METHOD AND	A61L 27/56
D01D 5/096	APPLICATION THEREOF, AND TISSUE	A61L 27/54
D06M 15/33	REPAIR PRODUCT	A61F 2/28
D06M 15/53	(73) Medprin Regenerative Medical	A61B 17/70
D06M 15/333	Technologies Co., Ltd.	(11) EP3419563
(11) EP3639861	(72) YUAN, Yuyu	(21) EP17757099.1
(21) EP19212982.3	DENG, Kunxue	(47) 20.04.2022
(47) 20.04.2022	(31) 201510854225	(87) US2017018814
(22) 23.03.2011	(32) 27.11.2015	31.08.2017
(54) COATINGS FOR THE MANUFACTURE	(33) China	(22) 22.02.2017
AND APPLICATION OF	(51) A61L 27/28	(54) SPINAL IMPLANT SYSTEM
POLYHYDROXYALKANOATE MEDICAL	A61L 27/34	(73) Warsaw Orthopedic, Inc.
DEVICES	A61L 27/36	(72) VICKERS, Scott M.
(73) Tepha, Inc.	A61L 27/54	(31) 201615052605
(72) Montcrieff, Jon I	(11) EP3655051	(32) 24.02.2016
Connelly, Dennis W	(21) EP18742848.7	(33) United States of America
Martin, David P	(47) 20.04.2022	(51) A61M 1/00
Rizk, Said	(87) IB2018054893	F04B 43/12
(31) 41162910 P	24.01.2019	A61F 9/007
36354310 P	(22) 02.07.2018	A61M 5/142
32568610 P	(54) COATED IMPLANTABLE DEVICE	(11) EP2596817
31801410 P	(73) Nobil Bio Ricerche S.r.l.	(21) EP13153232.7
(32) 09.11.2010	(72) CASSINELLI, Clara	(47) 20.04.2022
12.07.2010	TORRE, Elisa	(22) 06.11.2007
19.04.2010	MORRA, Marco	(54) Eye treatment system with fluidics pump
26.03.2010	IVIGLIA, Giorgio	interface
(33) United States of America	(31) 201700081175	(73) Johnson & Johnson Surgical Vision, Inc.
United States of America	(32) 18.07.2017	(72) Edwards, Craig
United States of America	(33) Italy	(31) 558416
United States of America	(51) A61L 27/30	(32) 09.11.2006

(33) United States of America	(22) 03.08.2017	A61M 5/142
(51) A61M 1/02	(54) ARTICULAR ADMINISTRATION DEVICE	(11) EP3576824
(11) EP3461511	(73) Della Bidia, Simona	(21) EP17812202.4
(21) EP18196853.8	(72) Della Bidia, Simona	(47) 20.04.2022
(47) 20.04.2022	(31) 201700013971	(87) US2017063319
(22) 26.09.2018	201600120336 U	09.08.2018
(54) SYSTEMS AND METHODS FOR	(32) 08.02.2017	(22) 27.11.2017
PROCESSING LARGE VOLUMES OF	28.11.2016	(54) AMBULATORY INFUSION DEVICES
BIOLOGICAL FLUID	(33) Italy	AND FILTER ASSEMBLIES FOR USE
(73) Fenwal, Inc.	Italy	WITH SAME
(72) BINNINGER, Steven C.	(51) A61M 5/20	(73) Medtronic MiniMed, Inc.
OLSON, Bret	(11) EP3374006	(72) YAP, Darren, Y.k.
SCHLINKER, Alaina	(21) EP16809488.6	MONTALVO, Susan, Mcconnell
WEGENER, Christopher J.	(47) 20.04.2022	MONTALVO, Rudolph, A.
(31) 201762565949 P	(87) FR2016052926	STOTT, Milton
(32) 29.09.2017	18.05.2017	(31) 201762452637 P
(33) United States of America	(22) 10.11.2016	(32) 31.01.2017
(51) A61M 1/34	(54) AUTO-INJECTOR HAVING A MEDIAN	(33) United States of America
(11) EP3603693	WINDOW WITH ONE TRIANGULAR	(51) A61M 5/44
(21) EP19181860.8	END	(11) EP3104917
(47) 20.04.2022	(73) Aptar France SAS	(21) EP15714163.1
(22) 29.12.2012	(72) FOUCAULT, Franck	(47) 20.04.2022
(54) FILTER AND FRAME APPARATUS AND	PINHEIRO, Philippe	(87) DE2015100060
METHOD OF USE	SAUSSAYE, Anthony	20.08.2015
(73) Delcath Systems, Inc.	(31) 1560879	(22) 12.02.2015
(72) BARTON, Matthew G	(32) 13.11.2015	(54) DEVICE FOR HEATING FLOWING
APPLING, William M	(33) France	FLUIDS
ENGELHARD, Stephen N	(51) A61M 5/20	(73) Barkey GmbH & Co. KG
(31) 201161581496 P	A61M 5/32	(72) TESCHNER, Holger
(32) 29.12.2011	A61M 5/00	NOWACK, Armin
(33) United States of America	(11) EP2654840	BARKEY, Thomas
(51) A61M 5/00	(21) EP11802930.5	BARKEY, Christian
A61J 1/16	(47) 20.04.2022	(31) 102014103233
(11) EP3524293	(87) EP2011073502	102014101749
(21) EP19154783.5	28.06.2012	(32) 11.03.2014
(47) 20.04.2022	(22) 21.12.2011	12.02.2014
(22) 31.01.2019	(54) AUTO-INJECTOR	(33) Germany
(54) HOLDING MEMBER AND PACKAGING	(73) Sanofi-Aventis Deutschland GmbH	Germany
STRUCTURE OF SYRINGE PISTONS	(72) EKMAN, Matthew	(51) A61M 15/00
(73) Dai-kyo Seiko, LTD.	BARROW-WILLIAMS, Timothy Donald	(11) EP3363485
(72) YOSHIDA, Takayuki	HOURMAND, Yannick	(21) EP17156995.7
(31) 2018020755	(31) 201161432255 P	(47) 20.04.2022
(32) 08.02.2018	10196067	(22) 20.02.2017
(33) Japan	(32) 13.01.2011	(54) METERED DOSE INHALER
(51) A61M 5/00	21.12.2010	(73) Presspart GmbH & Co. Kg
B65D 43/00	(33) United States of America	(72) Jung, Benjamin
B65D 77/20	European Patent Office (EPO)	von den Driesch, Till
(11) EP3851136	(51) A61M 5/303	Seiler, Matthias
(21) EP20305023.2	A61M 5/20	(51) A61M 15/00
(47) 20.04.2022	A61M 5/30	A61M 11/00
(22) 15.01.2020	A61M 5/24	A61K 9/00
(54) PACKAGING FOR MEDICAL DEVICES	(11) EP3398634	A61K 31/58
(73) Becton Dickinson France	(21) EP16881842.5	(11) EP3432954
(72) EYMERY, Anaïs	(47) 20.04.2022	(21) EP17769205.0
LE LOC'H, Clémentine	(87) JP2016089190	(47) 20.04.2022
(51) A61M 5/142	06.07.2017	(87) CA2017050027
A61M 5/145	(22) 28.12.2016	28.09.2017
A61M 5/20	(54) ADMINISTRATION APPARATUS	(22) 11.01.2017
A61M 5/31	(73) Daicel Corporation	(54) DEVICE FOR DELIVERING PARTICLES
A61M 5/14	(72) ODA, Shingo	IN THE UPPER RESPIRATORY TRACT
A61M 39/24	HASHIMOTO, Aya	(73) Services Medicaux Arnold et Joan
A61F 2/30	NAGAMATSU, Shinji	Zidulka Inc.
(11) EP3544657	YAMASHITA, Kunihiko	(72) ZIDULKA, Arnold
(21) EP17768512.0	(31) 2015255792	(31) 201662312878 P
(47) 20.04.2022	(32) 28.12.2015	(32) 24.03.2016
(87) IB2017054753	(33) Japan	(33) United States of America
31.05.2018	(51) A61M 5/36	(51) A61M 15/00
	A61M 5/38	B65D 75/32

B65D 75/70	(31) 20160186	(33) Japan
B65D 83/06	(32) 13.07.2016	(51) A61M 37/00
(11) EP3352824	(33) Ireland	A61K 9/00
(21) EP16849836.8	(51) A61M 25/00	(11) EP3111987
(47) 20.04.2022	(11) EP3593848	(21) EP15755798.4
(87) US2016053635	(21) EP17899362.2	(47) 20.04.2022
30.03.2017	(47) 20.04.2022	(87) JP2015054641
(22) 26.09.2016	(87) JP2017009693	03.09.2015
(54) DRY POWDER UNIT DOSE DEVICE AND DELIVERY SYSTEM	13.09.2018	(22) 19.02.2015
(73) Mystic Pharmaceuticals, Inc.	(22) 10.03.2017	(54) MICRONEEDLE SHEET
(72) GJERTSEN, Jeffrey	(54) CATHETER	(73) Hisamitsu Pharmaceutical Co., Inc.
HANCOCK, Jesse	(73) ASAHİ INTECC CO., LTD.	(72) YAMAMOTO, Naoki
SHAW, Michael	(72) HORI, Takayuki	OGURA, Makoto
GOODMAN, Phillip	(51) A61M 25/00	(31) 2014037348
SULLIVAN, Timothy	(11) EP3646915	(32) 27.02.2014
(31) 201562222861 P	(21) EP17916183.1	(33) Japan
(32) 24.09.2015	(47) 20.04.2022	(51) A61M 39/18
(33) United States of America	(87) JP2017024185	A61M 39/10
(51) A61M 15/08	03.01.2019	(11) EP3488895
B05B 11/00	(22) 30.06.2017	(21) EP18215931.9
A61M 11/00	(54) CATHETER	(47) 20.04.2022
A61M 15/00	(73) ASAHİ INTECC CO., LTD.	(22) 21.07.2014
(11) EP3793654	(72) ISHIKAWA, Masamoto	(54) ASEPTIC COUPLING DEVICES
(21) EP19731323.2	(51) A61M 25/00	(73) Colder Products Company
(47) 20.04.2022	A61B 17/34	(72) GERST, Patrick Thomas
(87) FR2019051119	A61B 17/00	WILLIAMS, Randall Scott
21.11.2019	(11) EP3376975	(31) 201361857471 P
(22) 16.05.2019	(21) EP15908971.3	(32) 23.07.2013
(54) DEVICE FOR DISPENSING A FLUID PRODUCT	(47) 20.04.2022	(33) United States of America
(73) Aptar France SAS	(87) US2015061662	(51) A61M 60/135
(72) LEBEL, Baptiste	26.05.2017	A61M 60/857
ADAM, Fabien	(22) 19.11.2015	A61M 60/148
(31) 1854172	(54) PERCUTANEOUS ACCESS SYSTEMS	(11) EP3142721
(32) 18.05.2018	(73) Summit Access, LLC	(21) EP15724913.7
(33) France	(72) GEIST, Leroy, D.	(47) 20.04.2022
(51) A61M 16/06	JUTTE, LeRoy	(87) US2015030660
(11) EP3193994	GRIFFIN, Dennis	19.11.2015
(21) EP15842627.0	(51) A61M 37/00	(22) 13.05.2015
(47) 20.04.2022	(11) EP3672680	(54) CANNULA ASSEMBLY
(87) AU2015050546	(21) EP18734794.3	(73) Abiomed, Inc.
24.03.2016	(47) 20.04.2022	(72) HASTIE, Caitlyn
(22) 15.09.2015	(87) EP2018067123	CORBETT, Scott C.
(54) HEADGEAR COMPRISING SPACER FABRIC	28.02.2019	(31) 201461992825 P
(73) ResMed Pty Ltd	(22) 26.06.2018	(32) 13.05.2014
(72) HASKARD, Kirrily Michele	(54) DEVICE FOR IMPLANTING OBJECTS UNDER SKIN	(33) United States of America
WONG, Chiew Khuen	(73) H&B Electronic GmbH & Co. KG	(51) A61N 1/36
(31) 2014903687	(72) PETRY, Dariusz	(11) EP3679981
(32) 16.09.2014	MORLOK, Tobias	(21) EP18837918.4
(33) Australia	(31) 202017105048 U	(47) 20.04.2022
(51) A61M 16/16	(32) 23.08.2017	(87) JP2018025112
A61M 11/04	(33) Germany	31.01.2019
A61M 16/10	(51) A61M 37/00	(22) 02.07.2018
(11) EP3484565	A61J 1/00	(54) DYSURIA TREATMENT DEVICE
(21) EP17743402.4	(11) EP3431133	(73) Otsuka Techno Corporation
(47) 20.04.2022	(21) EP17766775.5	(72) MASUDA, Tetsuya
(87) IE2017000013	(47) 20.04.2022	TSUKUI, Nobuo
18.01.2018	(87) JP2017010639	(31) 2017171382
(22) 13.07.2017	21.09.2017	(32) 06.09.2017
(54) AN ELECTRICALLY POWERED HEATER UNIT	(22) 16.03.2017	(33) Japan
(73) Oglesby & Butler Research & Development Limited	(54) MICRONEEDLE PATCH CASE	(51) A61N 1/365
(72) GRIFFIN, Michael, John	(73) Cosmed Pharmaceutical Co., Ltd.	A61N 1/37
TOWNSEND, John	(72) HIGUCHI, Kiyotsune	(11) EP3328484
STOREY, John, Joseph	QUAN, Ying-shu	(21) EP16748019.3
	KAMIYAMA, Fumio	(47) 20.04.2022
	(31) 2016074692	(87) US2016044676
	(32) 16.03.2016	02.02.2017
		(22) 29.07.2016

<p>(54) SYSTEM WITH AN ABSOLUTE INTRATHORACIC IMPEDANCE BASED SCHEME TO STRATIFY PATIENTS FOR DETERMINING RISK OF A HEART FAILURE EVENT</p> <p>(73) Medtronic Inc.</p> <p>(72) SHARMA, Vinod REDEMSKE, Jodi L.</p> <p>(31) 201615222461 201562199057 P</p> <p>(32) 28.07.2016 30.07.2015</p> <p>(33) United States of America United States of America</p> <hr/> <p>(51) A61N 1/37 A61N 1/368</p> <p>(11) EP3548140</p> <p>(21) EP17829363.5</p> <p>(47) 20.04.2022</p> <p>(87) US2017064346 07.06.2018</p> <p>(22) 01.12.2017</p> <p>(54) SYSTEMS FOR SELECTING STIMULATION PARAMETERS FOR ELECTRICAL STIMULATION DEVICES</p> <p>(73) Boston Scientific Neuromodulation Corporation</p> <p>(72) STOFFREGEN, William, Conrad RUBLE, Stephen, B. GOVEA, Michael, X. TERNES, David, J. BLUM, David CLARK, Bryan, Allen STOLEN, Craig, M. THAKUR, Pramodsingh, Hirasingh</p> <p>(31) 201662429650 P</p> <p>(32) 02.12.2016</p> <p>(33) United States of America</p> <hr/> <p>(51) A61N 1/375</p> <p>(11) EP3212281</p> <p>(21) EP15790802.1</p> <p>(47) 20.04.2022</p> <p>(87) US2015058079 06.05.2016</p> <p>(22) 29.10.2015</p> <p>(54) MODULAR SHIELD EXTENDER</p> <p>(73) Medtronic, Inc.</p> <p>(72) JOHNSON-MORKE, Linda, M. ROLES, Randy, S. KAST, John, E. PAIDOSH, Chris, J.</p> <p>(31) 201462073648 P</p> <p>(32) 31.10.2014</p> <p>(33) United States of America</p> <hr/> <p>(51) A61N 1/375 A61N 1/39 A61N 1/365 A61N 1/05</p> <p>(11) EP2914337</p> <p>(21) EP13783786.0</p> <p>(47) 20.04.2022</p> <p>(87) US2013065491 08.05.2014</p> <p>(22) 17.10.2013</p> <p>(54) LEADLESS PACEMAKER SYSTEM</p> <p>(73) Medtronic Inc.</p> <p>(72) DEMMER, Wade M. SHELDON, Todd J.</p>	<p>GREENHUT, Saul E. BONNER, Matthew D.</p> <p>(31) 201213665492</p> <p>(32) 31.10.2012</p> <p>(33) United States of America</p> <hr/> <p>(51) A61N 1/378 A61N 1/362</p> <p>(11) EP3824950</p> <p>(21) EP20212121.6</p> <p>(47) 20.04.2022</p> <p>(22) 17.01.2019</p> <p>(54) ELECTRONIC PACEMAKER</p> <p>(73) Theil, Thomas Mehnert, Walter</p> <p>(72) Theil, Thomas Mehnert, Walter</p> <p>(31) 102018205940 102018100998</p> <p>(32) 18.04.2018 17.01.2018</p> <p>(33) Germany Germany</p> <hr/> <p>(51) A61N 5/06 A61K 8/44 A61L 2/10 A61Q 17/00 A23L 33/175 A61K 31/198 A61K 47/18 A61P 17/02 A61P 35/00 A61Q 17/04</p> <p>(11) EP3677308</p> <p>(21) EP18860334.4</p> <p>(47) 20.04.2022</p> <p>(87) JP2018032827 04.04.2019</p> <p>(22) 05.09.2018</p> <p>(54) ODOR CONTROL METHOD AND STERILIZATION APPARATUS</p> <p>(73) Ushio Denki Kabushiki Kaisha</p> <p>(72) NAITO, Keisuke</p> <p>(31) 2017188610</p> <p>(32) 28.09.2017</p> <p>(33) Japan</p> <hr/> <p>(51) A61N 5/10</p> <p>(11) EP3409321</p> <p>(21) EP18170091.5</p> <p>(47) 20.04.2022</p> <p>(22) 30.04.2018</p> <p>(54) KILOVOLTAGE RADIATION THERAPY</p> <p>(73) Precision RT, INC.</p> <p>(72) BOYD, Douglas P. SONG, Samuel M. WEIL, Michael</p> <p>(31) 201715722979 201762514466 P</p> <p>(32) 02.10.2017 02.06.2017</p> <p>(33) United States of America United States of America</p> <hr/> <p>(51) A61N 5/10</p> <p>(11) EP3503972</p> <p>(21) EP17761761.0</p> <p>(47) 20.04.2022</p> <p>(87) US2017048623 08.03.2018</p> <p>(22) 25.08.2017</p>	<p>(54) OFFLINE ANGLE SELECTION IN ROTATIONAL IMAGING AND TRACKING SYSTEMS</p> <p>(73) Accuray Incorporated</p> <p>(72) O'CONNELL, Rob JORDAN, Petr SCHNARR, Eric MYRONENKO, Andriy MAURER, Calvin</p> <p>(31) 201615250563</p> <p>(32) 29.08.2016</p> <p>(33) United States of America</p> <hr/> <p>(51) A61N 5/10 A61B 8/00 A61B 8/08</p> <p>(11) EP3773895</p> <p>(21) EP19717371.9</p> <p>(47) 20.04.2022</p> <p>(87) IT2019050067 10.10.2019</p> <p>(22) 27.03.2019</p> <p>(54) RADIOTHERAPY SYSTEM</p> <p>(73) S.I.T. - Sordina IORT Technologies S.p.A.</p> <p>(72) DI FRANCESCO, Massimo FELICI, Giuseppe</p> <p>(31) 201800008048 201800004953 201800004199</p> <p>(32) 10.08.2018 27.04.2018 04.04.2018</p> <p>(33) Italy Italy Italy</p> <hr/> <p>(51) A61N 5/10 G16H 20/40 G16H 10/60 G16H 30/40</p> <p>(11) EP3658231</p> <p>(21) EP18752372.5</p> <p>(47) 20.04.2022</p> <p>(87) US2018043320 31.01.2019</p> <p>(22) 23.07.2018</p> <p>(54) RADIATION THERAPY PLANNING USING DEEP CONVOLUTIONAL NETWORK</p> <p>(73) Elekta, Inc.</p> <p>(72) HIBBARD, Lyndon Stanley</p> <p>(31) 201715658484</p> <p>(32) 25.07.2017</p> <p>(33) United States of America</p> <hr/> <p>(51) A61P 25/22 A61P 25/24 A61P 25/28 A61P 43/00 A61K 39/44 A61K 39/00 C08G 69/40 A61K 47/54 A61K 47/60 A61K 47/64 A61K 47/69 A61K 9/00 B01J 13/02 C08G 69/10 C08G 81/00 C08L 77/00</p>
--	--	--

B01J 13/00	(72) SAKAI, Takaya	A63B 21/005
A61K 47/50	MIYOSHI, Mariko	A63B 21/008
A61K 47/34	FURUKAWA, Daisuke	A63B 21/015
A61K 39/395	SHIRAI, Aya	A63B 21/02
A61K 31/7088	OZAWA, Toshiaki	A63B 71/06
(11) EP3072506	(31) PCT/JP2017/014730	(11) EP3473303
(21) EP14863728.3	(32) 10.04.2017	(21) EP17814344.2
(47) 20.04.2022	(33) World Intellectual Property Office (WIPO)	(47) 20.04.2022
(87) JP2014005856	(51) A62B 1/08	(87) BR2017000005
28.05.2015	A62B 35/00	28.12.2017
(22) 21.11.2014	(11) EP3391060	(22) 24.01.2017
(54) CARRIER FOR DRUG DELIVERY	(21) EP16834261.6	(54) MICROPROCESSOR-CONTROLLED
AND CONJUGATE, COMPOSITION	(47) 20.04.2022	SYSTEM FOR HUMAN PHYSICAL
CONTAINING SAME, AND METHOD	(87) NZ2016050200	TRAINING
FOR ADMINISTERING SAME	22.06.2017	(73) Leopoldo Da Câmara Filho, Carlos
(73) National University Corporation Tokyo	(22) 16.12.2016	Alberto
Medical and Dental University	(54) A VARIABLE BEHAVIOUR CONTROL	(72) Leopoldo Da Câmara Filho, Carlos
The University of Tokyo	MECHANISM FOR A MOTIVE SYSTEM	Alberto
(72) NISHIYAMA, Nobuhiro	(73) Eddy Current Limited Partnership	(31) 102016014608
KUWAHARA, Hiroya	(72) SCOTT, Peter	(32) 21.06.2016
MIZUSAWA, Hidehiro	FROST, Lincoln	(33) Brazil
YOKOTA, Takanori	WOODS, Benjamin	(51) A63B 21/068
KATAOKA, Kazunori	DIEHL, Andrew Karl	A63B 21/002
FUKUSATO, Yu	(31) 15715391	A63B 22/10
MIZOGUCHI, Akihiro	(32) 18.12.2015	A63B 23/035
MIYATA, Kanjiro	(33) New Zealand	A63B 23/12
ANRAKU, Yasutaka	(51) A62B 18/00	A63B 21/16
NISHINA, Kazutaka	A62B 9/00	(11) EP3544693
MATSUMOTO, Yu	(11) EP3856360	(21) EP17873935.5
ISHII, Takehiko	(21) EP19773071.6	(47) 20.04.2022
(31) 2014096935	(47) 20.04.2022	(87) US2017063062
2013242347	(87) EP2019075272	31.05.2018
(32) 08.05.2014	02.04.2020	(22) 22.11.2017
22.11.2013	(22) 20.09.2019	(54) APPARATUS, KIT, AND METHOD
(33) Japan	(54) A POLLUTION MASK AND CONTROL	FOR PERFORMING STRAP-BASED
Japan	METHOD	EXERCISES
(51) A61P 35/00	(73) Koninklijke Philips N.V.	(73) Fitness Anywhere LLC
A61K 39/395	(72) SU, Wei	(72) HETRICK, Randal
A61K 35/74	CHEN, Weizhong	HERNAN DELGADO, Mauricio
A61K 39/04	KONG, Tao	(31) 201615359176
(11) EP3082956	(31) PCT/CN2018/107994	(32) 22.11.2016
(21) EP14827518.3	19150469	(33) United States of America
(47) 20.04.2022	(32) 27.09.2018	(51) A63F 13/213
(87) GB2014053717	07.01.2019	A63F 13/216
25.06.2015	(33) World Intellectual Property Office (WIPO)	A63F 13/35
(22) 16.12.2014	European Patent Office (EPO)	A63F 13/5255
(54) A CHECKPOINT INHIBITOR AND A	(51) A62C 2/06	A63F 13/795
WHOLE CELL MYCOBACTERIUM FOR	F16L 5/04	G06T 19/00
USE IN CANCER THERAPY	H02G 3/04	G06F 3/048
(73) Immodulon Therapeutics Limited	(11) EP2906304	G06F 3/0481
(72) BILYARD, Kevin	(21) EP13773765.6	(11) EP3517190
GRANGE, John	(47) 20.04.2022	(21) EP19162351.1
AKLE, Charles	(87) EP2013070875	(47) 20.04.2022
(31) 201322725	17.04.2014	(22) 21.11.2013
(32) 20.12.2013	(22) 08.10.2013	(54) INFORMATION PROCESSING DEVICE,
(33) United Kingdom	(54) FIRE-PROTECTION SLEEVE	TERMINAL DEVICE, INFORMATION
(51) A61Q 19/10	(73) Hilti Aktiengesellschaft	PROCESSING METHOD, AND
A61K 8/36	(72) MORDAU, Ulf	PROGRAMME
A61K 8/44	KLEIN, Manfred	(73) Sony Group Corporation
A61K 8/46	(31) 102012218540	(72) HOMMA, Shunichi
(11) EP3610852	(32) 11.10.2012	FUKUCHI, Masaki
(21) EP18784345.3	(33) Germany	WU, Jianing
(47) 20.04.2022	(51) A63B 21/00	KASHITANI, Tatsuki
(87) JP2018014942	A61B 5/22	ABE, Shinichiro
18.10.2018	A63B 24/00	(31) 2013018444
(22) 09.04.2018	G05B 19/048	(32) 01.02.2013
(54) KERATIN PLUG REMOVAL METHOD	G01L 1/00	(33) Japan
(73) Kao Corporation	A63B 21/002	(51) A63F 13/40

A63F 13/30	(21) EP13859871.9	Derrien, Stéphane
B25J 9/00	(47) 20.04.2022	Barale, Michel
G05B 19/00	(87) US2013071861	(31) 201361839608 P
G05D 1/02	12.06.2014	(32) 26.06.2013
G07C 9/00	(22) 26.11.2013	(33) United States of America
(11) EP2878347	(54) METHOD FOR REDUNDANT STERILE	(51) B01D 46/00
(21) EP14195341.4	FILTRATION	B01D 46/10
(47) 20.04.2022	(73) EMD Millipore Corporation	B01D 46/42
(22) 28.11.2014	(72) FOLEY, Sean	B01D 46/44
(54) Training system and training method	PERREAULT, Jeremy	B01D 46/52
(73) Toyota Jidosha Kabushiki Kaisha	RAUTIO, Kevin	(11) EP3769833
(72) Itoh, Masayuki	(31) 201261732551 P	(21) EP19188126.7
(31) 2013249357	(32) 03.12.2012	(47) 20.04.2022
(32) 02.12.2013	(33) United States of America	(22) 24.07.2019
(33) Japan	(51) B01D 27/06	(54) FILTER ELEMENT WITH
(51) B01D 17/04	B01D 27/00	FUNCTIONAL CHAMBER AND FILTER
B01D 17/06	B01D 27/04	ARRANGEMENT WITH SUCH A
(11) EP3513854	B01D 29/00	FILTER ELEMENT AND METHOD FOR
(21) EP18204461.0	B01D 29/05	CONTROLLING A FILTER SYSTEM
(47) 20.04.2022	B01D 29/07	(73) Carl Freudenberg KG
(22) 07.06.2013	B01D 29/13	(72) OELSNER, Alexander
(54) HIGH VELOCITY ELECTROSTATIC	(11) EP3389815	BRÄUNLING, Volker
COALESCING OIL/WATER	(21) EP16876549.3	STAHL, Ulrich
SEPARATOR	(47) 20.04.2022	(51) B01D 53/04
(73) Cameron Technologies Limited	(87) US2016066583	B01D 53/26
(72) TREVAS, David A.	22.06.2017	H01F 27/14
TAGGART, Davis L.	(22) 14.12.2016	(11) EP3791951
MANEN, David R	(54) FILTER ELEMENT WITH ENDCAP	(21) EP19196627.4
WALLACE, Harry G.	HAVING RIGID REINFORCING	(47) 20.04.2022
SAMS, Gary W.	MEMBER	(22) 11.09.2019
(31) 201213491890	(73) Cummins Filtration SARL	(54) A BREATHING DEVICE FOR
(32) 08.06.2012	(72) COUTANT, Joel	DEHUMIDIFYING AIR TO BE SUPPLIED
(33) United States of America	JARNO, Didier	TO AN EXPANSION VESSEL OF A
(51) B01D 19/00	BONZI, Pierrick	POWER ELECTRICAL APPARATUS
B01D 61/00	SCHECKEL, Benjamin L.	(73) COMEM S.p.A.
B01D 63/00	MALGORN, Gérard	(72) Nucci, Francesca
B01D 69/00	(31) 201562267389 P	Ugolin, Gianmaria
B01D 53/22	(32) 15.12.2015	Carollo, Carlo
C02F 103/06	(33) United States of America	(51) B01D 53/04
C02F 103/36	(51) B01D 29/52	B01D 53/62
C02F 11/12	(11) EP3212301	B01D 53/82
C02F 1/44	(21) EP15790609.0	B01J 20/04
C02F 1/72	(47) 20.04.2022	(11) EP3257567
C02F 1/66	(87) FR2015052820	(21) EP17173767.9
C02F 101/10	06.05.2016	(47) 20.04.2022
C02F 101/16	(22) 20.10.2015	(22) 31.05.2017
B01D 61/24	(54) LUBRICATING OIL FILTERING DEVICE	(54) AIR TREATMENT CARTRIDGE FOR
(11) EP3302747	(73) FIVES DMS	MOUNTING LITHIUM HYDROXIDE
(21) EP16804421.2	(72) SEQUEIRA, David	SHEETS
(47) 20.04.2022	(31) 1460335	(73) Hamilton Sundstrand Corporation
(87) US2016035486	(32) 28.10.2014	(72) O'COIN, James R.
08.12.2016	(33) France	SENOFONTE, Leonard P.
(22) 02.06.2016	(51) B01D 39/18	JUNG, Elliot I.
(54) METHOD OF REMOVING HYDROGEN	(11) EP3013451	BONFIGLIO, Gennaro
SULFIDE FROM WATER	(21) EP14747135.3	(31) 201615180429
(73) ConocoPhillips Company	(47) 20.04.2022	(32) 13.06.2016
(72) MINIER-MATAR, Joel	(87) IB2014062640	(33) United States of America
JANSON, Arnold	31.12.2014	(51) B01D 53/26
CHOWDHURY, Zaid	(22) 26.06.2014	(11) EP2365852
GHARFEH, Samir	(54) FILTER ELEMENT COMPRISING	(21) EP10790507.7
ADHAM, Samer	A BASE WEB AND METHOD OF	(47) 20.04.2022
(31) 201562169649 P	MAKING A PAPER HAVING FILTERING	(87) CA2010001087
(32) 02.06.2015	PROPERTIES AND FORMING SAID	20.01.2011
(33) United States of America	BASE WEB	(22) 12.07.2010
(51) B01D 25/26	(73) Papeteries de Mauduit	(54) PROCESS FOR REMOVING
B01D 61/14	(72) Pan, Jiayi	CONDENSABLE COMPONENTS FROM
B01D 61/18	Durot, Nathalie	A FLUID
(11) EP2925420	Le Moigne, Christophe	(73) DEXPRO CORPORATION

(72) MADDOCKS, James MCKAY, Wayne N.	D01D 10/06 B65H 57/14	(22) 08.03.2019 (54) MIXING DEVICE WITH CLOSURE ELEMENT
(31) 225101 P	(11) EP3797858	
(32) 13.07.2009	(21) EP20193261.3	(73) Maschinenfabrik Gustav Eirich GmbH & Co KG
(33) United States of America	(47) 20.04.2022	(72) GÜNTHER, Timo
(51) B01D 53/26	(22) 28.08.2020	OTT, Christian
B01D 53/04	(54) DEVICE FOR RINSING OR IMPREGNATING A MEMBRANE FIBRE	(31) 102018106187
(11) EP2944369	(73) qCoat GmbH	(32) 16.03.2018
(21) EP14737823.6	(72) Drößler, Lutz	(33) Germany
(47) 20.04.2022	Hinkefuß, Manfred	
(87) JP2014050134	Schulze, Agnes	(51) B01F 11/00
17.07.2014	(31) 102019126315	(11) EP3479894
(22) 08.01.2014	(32) 30.09.2019	(21) EP17199729.9
(54) DEHYDRATION DEVICE, GAS COMPRESSION SYSTEM, AND DEHYDRATION METHOD	(33) Germany	(47) 20.04.2022
(73) Mitsubishi Heavy Industries Engineering, Ltd.	(51) B01D 65/02	(22) 02.11.2017
	B01D 67/00	(54) SHAKER
	B01D 69/08	(73) Infors AG
(72) INUI, Masayuki	D01D 5/24	(72) Hawrylenko, Alexander
NAKAYAMA, Koji	D01D 10/06	(51) B01F 13/08
YONEKAWA, Takahito	B65H 57/14	B01F 7/22
SORIMACHI, Yoshiki	(11) EP3799950	(11) EP3659700
TSUJIUCHI, Tatsuya	(21) EP20193344.7	(21) EP18209087.8
(31) 201313859339	(47) 20.04.2022	(47) 20.04.2022
201313738611	(22) 28.08.2020	(22) 29.11.2018
(32) 09.04.2013	(54) DEVICE FOR FLUSHING AND IMPREGNATING A FILTER MEMBRANE	(54) MAGNETICALLY-COUPLED LIQUID MIXER
10.01.2013	SHEET	(73) Alfa Laval Corporate AB
(33) United States of America	(73) qCoat GmbH	(72) FØNS, Michael Juhl
United States of America	(72) Schulze, Agnes	(51) B01F 23/233
(51) B01D 53/26	Hinkefuß, Manfred	B01F 27/117
B64D 13/06	Drößler, Lutz	B01F 27/172
B01D 45/12	(31) 102019126317	B01F 27/80
(11) EP3427812	(32) 30.09.2019	B01F 27/94
(21) EP18182640.5	(33) Germany	B01F 33/503
(47) 20.04.2022	(51) B01D 67/00	C02F 7/00
(22) 10.07.2018	B01D 71/26	B01F 101/00
(54) WATER EXTRACTOR FOR ENVIRONMENTAL CONTROL SYSTEM OF AN AIRCRAFT	B01D 71/78	(11) EP3823743
(73) Hamilton Sundstrand Corporation	B01D 69/02	(21) EP19813480.1
(72) HIMMELMANN, Richard A.	(11) EP3221035	(47) 20.04.2022
(31) 201715645030	(21) EP15804280.4	(87) EP2019083097
(32) 10.07.2017	(47) 20.04.2022	11.06.2020
(33) United States of America	(87) US2015061591	(22) 29.11.2019
	26.05.2016	(54) APPARATUS FOR AERATING BODIES OF WATER
(51) B01D 63/02	(22) 19.11.2015	(73) INVENT Umwelt- und Verfahrenstechnik AG
B01D 65/08	(54) GRAFTED ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE MICROPOROUS MEMBRANES	(72) HÖFKEN, Marcus
B01D 61/02	(73) Entegris, Inc.	STEIDL, Walter
B01D 61/14	(72) GJOKA, Alketa	FREY, Torsten
(11) EP3681618	JABER, Jad, Ali	HAGSPIEL, Thomas
(21) EP18769142.3	(31) 201462082570 P	(31) 102019103252
(47) 20.04.2022	201462082576 P	202018106871 U
(87) EP2018074410	201462082573 P	(32) 11.02.2019
21.03.2019	(32) 20.11.2014	03.12.2018
(22) 11.09.2018	20.11.2014	(33) Germany
(54) METHOD FOR PROCESSING A PROTEIN-CONTAINING SUSPENSION OR PROTEIN-CONTAINING SOLUTION	(33) United States of America	Germany
(73) Fresenius Medical Care Deutschland GmbH	United States of America	(51) B01J 19/00
(72) SMYSLOVA, Liubov	United States of America	B01J 19/24
FEURLE, Juliane	United States of America	B01D 11/00
(31) 102017216030	(51) B01F 9/12	B01J 8/18
(32) 12.09.2017	B01F 15/00	(11) EP3423183
(33) Germany	B01F 15/02	(21) EP17707360.8
(51) B01D 65/02	(11) EP3765182	(47) 20.04.2022
B01D 67/00	(21) EP19709922.9	(87) EP2017054967
B01D 69/08	(47) 20.04.2022	08.09.2017
D01D 5/24	(87) EP2019055838	(22) 02.03.2017
	19.09.2019	(54) MULTI-PHASE LOOP REACTOR AND METHOD FOR OPERATING SAME

(73) Rheinisch-Westfälische Technische Hochschule (RWTH) Aachen	(87) BE2014000067 18.06.2015	G01N 33/49 (11) EP3778027
(72) SCHMIDT, Markus WEBER, Benedikt BEDNARZ, Andreas JUPKE, Andreas	(22) 09.12.2014 (54) HYDRATED LIME COMPOSITION FOR EXHAUST GAS TREATMENT (73) Lime Technology Consulting S.R.L.	(21) EP20189386.4 (47) 20.04.2022 (22) 04.08.2020 (54) SEPARATING BODY AND METHOD FOR SEPARATING BLOOD PLASMA AND BLOOD CELLS
(31) 16158578 (32) 03.03.2016 (33) European Patent Office (EPO)	(72) DUMONT Philippe (31) 201300822 (32) 10.12.2013 (33) Belgium	(73) Sarstedt AG & Co. KG (72) WEINSTOCK, Mark (31) 102019121723 (32) 13.08.2019 (33) Germany
(51) B01J 19/02 G01N 30/84 B01J 19/00 B01J 8/02 B01J 6/00 B01J 19/24 G01N 30/02	(51) B01J 35/10 B01J 35/00 B01J 35/02 B01J 35/04 B01J 23/63 B01J 23/56 B01J 37/00 B01J 37/02 B01J 37/08 B01D 53/94 F01N 3/28	(51) B01L 3/00 G01N 33/48 G01N 33/50 (11) EP3681638 (21) EP18856953.7 (47) 20.04.2022 (87) US2018050839 21.03.2019 (22) 13.09.2018 (54) IMPROVED LIQUID TEST SAMPLE DISPENSING DEVICE FOR THE COLLECTION OF LIQUID WASTE AND METHODS OF USE RELATED THERETO
(11) EP3256243 (21) EP16703976.7 (47) 20.04.2022 (87) EP2016052902 18.08.2016 (22) 11.02.2016 (54) USE OF A REACTOR AND DEVICE FOR QUANTITATIVELY OBTAINING MOLECULAR HYDROGEN FROM SUBSTANCES	(11) EP3275542 (21) EP16772527.4 (47) 20.04.2022 (87) JP2016059319 06.10.2016 (22) 24.03.2016 (54) EXHAUST GAS PURIFICATION CATALYST	(73) Siemens Healthcare Diagnostics Inc. (72) ULLAH, Aman (31) 201762558549 P (32) 14.09.2017 (33) United States of America
(73) Thermo Fisher Scientific (Bremen) GmbH (72) RENPENNING, Julian KÜMMEL, Steffen GEHRE, Matthias	(73) Toyota Jidosha Kabushiki Kaisha Cataler Corporation (72) TANABE, Toshitata OHASHI, Tatsuya MIURA Masahide KATOH, Satoru HIRAO, Tetsuhiro ORI, Hirotaka NAITO, Hiroaki TAKEUCHI, Michihiko NARITA, Keiichi SAITO Yoshinori SUZUKI Hiromasa	(31) 102015102710 102015102126 (32) 25.02.2015 13.02.2015 (33) Germany Germany
(31) 102015102710 102015102126 (32) 25.02.2015 13.02.2015 (33) Germany Germany	(31) 2015065504 (32) 27.03.2015 (33) Japan	(51) B03C 3/12 B03C 3/09 B03C 3/08 (11) EP3389871 (21) EP16704470.0 (47) 20.04.2022 (87) GB2016050262 10.08.2017 (22) 04.02.2016 (54) ELECTROSTATIC PRECIPITATOR AND METHOD
(51) B01J 19/24 C04B 35/01 (11) EP3833471 (21) EP19748545.1 (47) 20.04.2022 (87) EP2019071031 13.02.2020 (22) 05.08.2019 (54) MODULAR, SELF-SUPPORTING SCAFFOLDING SYSTEM	(51) B01J 49/00 C07C 67/343 C07C 51/353 C07C 51/47 C07C 67/56 C07C 69/54 C07C 57/04 (11) EP2411147 (21) EP10711702.0 (47) 20.04.2022 (87) GB2010050510 30.09.2010 (22) 25.03.2010 (54) PROCESS FOR THE TREATMENT OF AN ION EXCHANGE RESIN	(51) B03C 3/12 B03C 3/36 B03C 3/47 B03C 3/86 (11) EP3272422 (21) EP17173140.9 (47) 20.04.2022 (22) 26.05.2017 (54) SCROLL TYPE ELECTROSTATIC PRECIPITATOR AND AIR CONDITIONING APPARATUS HAVING THE SAME
(73) BASF SE (72) BERNNAT, Jens FLICK, Dieter GLENK, Friedrich OLBERT, Gerhard APPEL, Hagen KOLIOS, Grigorios SCHEIFF, Frederik ANDERLOHR, Christopher Alec ZOELS, Bernd	(87) GB2010050510 30.09.2010 (22) 25.03.2010 (54) PROCESS FOR THE TREATMENT OF AN ION EXCHANGE RESIN (73) Mitsubishi Chemical UK Limited (72) MORRIS, Trevor, Huw (31) 0905257 (32) 27.03.2009 (33) United Kingdom	(73) Samsung Electronics Co., Ltd (72) CHO, Il-yong YOON, Ji-won KOCHIYAMA, Yasuhiko LEE, Kwang-seung NOH, Hyong-soo LEE, Ki-sup YUN, In-chul
(31) 18187508 (32) 06.08.2018 (33) European Patent Office (EPO)	(31) 2015065504 (32) 27.03.2015 (33) Japan	(51) B03C 3/12 B03C 3/09 B03C 3/08 (11) EP3389871 (21) EP16704470.0 (47) 20.04.2022 (87) GB2016050262 10.08.2017 (22) 04.02.2016 (54) ELECTROSTATIC PRECIPITATOR AND METHOD
(51) B01J 20/04 B01J 20/28 B01J 20/30 B01D 53/50 B01D 53/68 B01D 53/14	(51) B01L 3/00 C12M 1/26 C12M 1/00	(51) B03C 3/12 B03C 3/36 B03C 3/47 B03C 3/86 (11) EP3272422 (21) EP17173140.9 (47) 20.04.2022 (22) 26.05.2017 (54) SCROLL TYPE ELECTROSTATIC PRECIPITATOR AND AIR CONDITIONING APPARATUS HAVING THE SAME
(11) EP3079806 (21) EP14851415.1 (47) 20.04.2022	(51) B01L 3/00 C12M 1/26 C12M 1/00	(73) Samsung Electronics Co., Ltd (72) CHO, Il-yong YOON, Ji-won KOCHIYAMA, Yasuhiko LEE, Kwang-seung NOH, Hyong-soo LEE, Ki-sup YUN, In-chul

(51) B04C 11/00	B05C 5/02	23.12.2013
B04C 3/00	(11) EP3590610	(33) United States of America
(11) EP3846942	(21) EP18182178.6	United States of America
(21) EP19759277.7	(47) 20.04.2022	<hr/>
(47) 20.04.2022	(22) 06.07.2018	(51) B06B 1/06
(87) EP2019073654	(54) METHOD FOR COATING A TILE	B23K 20/10
12.03.2020	ELEMENT	B29C 65/08
(22) 05.09.2019	(73) Saint-Gobain Ecophon AB	B26D 7/08
(54) METHOD FOR MONITORING FLOW IN	(72) Nilsson, Thomas	B06B 3/00
CENTRIFUGAL SEPARATOR	Lövdahl, Roger	(11) EP3507028
(73) Yara International ASA	<hr/>	(21) EP17768987.4
(72) BUJALSKI, Jakub	(51) B05D 5/08	(47) 20.04.2022
KARLSEN, Stine	B05D 1/28	(87) EP2017071620
ANDERSEN, Lars-Erik	B05C 1/02	08.03.2018
(31) 18192740	B05C 1/08	(22) 29.08.2017
(32) 05.09.2018	F16C 9/02	(54) ULTRASONIC VIBRATION
(33) European Patent Office (EPO)	F16C 33/20	SYSTEM HAVING AN AMPLITUDE
<hr/>	B05D 7/14	TRANSFORMER MOUNTED ON THE
(51) B05B 1/30	(11) EP3601822	LATERAL SURFACE
B05B 12/00	(21) EP19727641.3	(73) Herrmann Ultraschalltechnik GmbH &
B05B 12/02	(47) 20.04.2022	Co. KG
B05B 12/08	(87) EP2019063780	(72) VOGLER, Ulrich
B05B 15/55	26.12.2019	(31) 102016116430
A01M 7/00	(22) 28.05.2019	(32) 02.09.2016
B05B 1/00	(54) METHOD FOR PRODUCING AN AXIAL	(33) Germany
B05B 9/08	SLIDING BEARING	<hr/>
B05B 15/40	(73) KS Gleitlager GmbH	(51) B08B 1/00
B05B 15/30	(72) DRAFZ, Rebekka	A46B 13/02
(11) EP3708259	BUERKLE, Gunter	A47L 11/14
(21) EP20168485.9	(31) 102018114696	B08B 1/04
(47) 20.04.2022	(32) 19.06.2018	(11) EP3524363
(22) 06.10.2017	(33) Germany	(21) EP18212960.1
(54) PORTABLE SPRAY DEVICE	<hr/>	(47) 20.04.2022
(73) BASF SE	(51) B06B 1/04	(22) 17.12.2018
(72) DOERR, Siegfried	G01H 1/00	(54) APPARATUSES AND METHODS FOR
ZITO, Raffaello	G01M 7/02	CLEANING A SURFACE
LUDWIG, Lydia	G01N 29/04	(73) The Boeing Company
STOCKBURGER, Bernd	H02K 33/18	(72) ERICKSON, Chris J.
REHKUGLER, Rolf	(11) EP3433028	TOMUTA, Raul
KUEHN, Annett	(21) EP17721219.8	PRINGLE-IV, John W.
NOLTE, Marc	(47) 20.04.2022	(31) 201815890567
HENKES, Steffen	(87) NL2017000003	(32) 07.02.2018
MOGILEWSKI, Juri	28.09.2017	(33) United States of America
MORAN PUENTE, Diana Westfalia	(22) 22.03.2017	<hr/>
KEPES, Christian	(54) VIBRATION EXCITER	(51) B08B 9/043
(31) 16192661	(73) Rsonance B.V.	B08B 9/045
(32) 06.10.2016	(72) VAN DER LINDEN, Petrus Johannes	B08B 9/093
(33) European Patent Office (EPO)	Gerardus	(11) EP3433032
<hr/>	(31) 1041780	(21) EP17770828.6
(51) B05C 11/02	(32) 22.03.2016	(47) 20.04.2022
B05C 11/04	(33) Netherlands	(87) US2017022294
B05C 11/10	<hr/>	28.09.2017
(11) EP3485983	(51) B06B 1/04	(22) 14.03.2017
(21) EP18205040.1	G01V 1/135	(54) HIGH PRESSURE CLEANING LANCE
(47) 20.04.2022	G01V 1/38	DRIVE SAFETY APPARATUS
(22) 07.11.2018	G10K 11/20	(73) Stoneage, Inc.
(54) TOOL FOR SMOOTHING A SEALING	G01V 1/04	(72) GALBRAITH, Stephen L.
SEAM BY SCRAPING AND/OR	(11) EP2891524	BARNES, Jeffery R.
SUCTION, PROVIDED WITH A	(21) EP14198114.2	SCHNEIDER, Joseph
READILY INTERCHANGEABLE WEDGE	(47) 20.04.2022	(31) 201662313438 P
(73) PSA Automobiles SA	(22) 16.12.2014	(32) 25.03.2016
(72) GUESDON, CHRISTOPHE	(54) Low-frequency Lorentz force based	(33) United States of America
HERMETZ, FABRICE	marine seismic source	<hr/>
HENIN, JULIEN	(73) PGS Geophysical AS	(51) B08B 9/043
(31) 1760905	(72) Oscarsson, Mattias	B08B 9/045
(32) 20.11.2017	Traetten, Oystein	B23B 29/034
(33) France	Voldsbakk, Rune	(11) EP3287201
<hr/>	Tonnessen, Rune	(21) EP17186261.8
(51) B05D 1/26	(31) 201414523111	(47) 20.04.2022
B05D 3/02	201361920118 P	(22) 15.08.2017
B05D 3/04	(32) 24.10.2014	(54) PIPE CLEANING DEVICE
		(73) Picote Solutions Inc.

(72) LOKKINEN, Mika	F01D 5/14	LEITNER, Stefan
(31) 20165641	F01D 5/18	(31) 510202018
(32) 26.08.2016	F01D 5/28	(32) 21.11.2018
(33) Finland	B28B 1/00	(33) Austria
(51) B08B 9/045	B28B 7/34	(51) B22D 17/32
(11) EP3774092	B22F 10/20	B22D 17/10
(21) EP19716101.1	B22F 3/24	B22D 17/04
(47) 20.04.2022	(11) EP3021999	B22D 17/20
(87) EP2019057899	(21) EP14825685.2	B29C 45/77
17.10.2019	(47) 20.04.2022	(11) EP3871806
(22) 28.03.2019	(87) US2014045172	(21) EP20216801.9
(54) ADAPTIVE CLEANING DEVICE	22.01.2015	(47) 20.04.2022
(73) PICOTE SOLUTIONS INC.	(22) 02.07.2014	(22) 23.12.2020
(72) LOKKINEN, Mika	(54) METHOD OF PREPARING A CASTING	(54) DIE CASTING METHOD AND DIE
(31) 20185331	CORE	CASTING DEVICE
(32) 09.04.2018	(73) Raytheon Technologies Corporation	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
(33) Finland	(72) MONGILLO, Dominic J., Jr.	(72) ASANO, Junji
(51) B21B 31/24	FISK, Benjamin T.	MATSUURA, Yoshiki
(11) EP3843912	PROPHETER-HINCKLEY, Tracy A.	(31) 2020031294
(21) EP19755901.6	(31) 201361856308 P	(32) 27.02.2020
(47) 20.04.2022	(32) 19.07.2013	(33) Japan
(87) EP2019072035	(33) United States of America	(51) B22D 19/00
05.03.2020	(51) B22D 11/12	B22C 9/24
(22) 16.08.2019	B22D 11/128	(11) EP3771506
(54) USE OF A DEVICE FOR ADJUSTING	B22D 11/20	(21) EP20189046.4
AN OBJECT AND ROLLING MILL	(11) EP3590629	(47) 20.04.2022
(73) SMS Group GmbH	(21) EP19180226.3	(22) 31.07.2020
(72) BENDER, Hans-Jürgen	(47) 20.04.2022	(54) CASTING METHOD WITH A SHAPING
PAERSCH, Volker	(22) 14.06.2019	CONTOUR FOR PRODUCING A CORE,
(31) 102018214583	(54) STRAND GUIDE SEGMENT WITH	COMPONENT AND SYSTEM FOR
(32) 29.08.2018	INDIVIDUALLY MOVABLE STRAND	PRODUCING A COMPONENT
(33) Germany	GUIDING ROLLERS	(73) Fraunhofer-Gesellschaft zur Förderung
(51) B21B 31/32	(73) Primetals Technologies Austria GmbH	der angewandten Forschung e.V.
B21B 37/62	(72) Ziegler, Guenter	(72) Wöstmann, Franz-Josef
(11) EP3790674	Hirschmanner, Martin	Klei, Jonas
(21) EP19721316.8	Wimmer, Franz	(31) 102019211441
(47) 20.04.2022	Ramstorfer, Franz	(32) 31.07.2019
(87) EP2019061747	Schorn, Christian	(33) Germany
14.11.2019	Starrermaier, Michael	(51) B22F 3/11
(22) 07.05.2019	Thoene, Heinrich	B22F 7/00
(54) ROLL STAND WITH A HYDRAULIC	Enzinger, Christian	B22F 7/02
ARRANGEMENT FOR CONTROLLING	Guttenbrunner, Josef	C22C 1/04
THE ROLL GAP AND METHOD	Pennerstorfer, Paul	(11) EP3823780
THEREFOR	Poepl, Johann	(21) EP19735224.8
(73) Muhr und Bender KG	Shan, Guoxin	(47) 20.04.2022
(72) EICK, Alexander	(31) 505402018	(87) EP2019065975
EICHNER, Harald	(32) 02.07.2018	23.01.2020
FELDMANN, Andre	(33) Austria	(22) 18.06.2019
(31) 18171953	(51) B22D 11/16	(54) METHOD FOR PRODUCING AN OPEN-
(32) 11.05.2018	B22D 11/07	PORED METAL BODY HAVING AN
(33) European Patent Office (EPO)	B22D 11/108	OXIDE LAYER AND METAL BODY
(51) B21B 37/00	G01B 15/02	PRODUCED BY SAID METHOD
(11) EP3542915	G01F 23/284	(73) Fraunhofer-Gesellschaft zur Förderung
(21) EP19156244.6	G01F 23/28	der angewandten Forschung e.V.
(47) 20.04.2022	(11) EP3883706	Alantum Europe GmbH
(22) 08.02.2019	(21) EP19805560.0	(72) ANDREAS, Tillmann
(54) METHOD FOR CONTROLLING A	(47) 20.04.2022	WEISSGÄRBER, Thomas
PRODUCTION SYSTEM OF A ROLLING	(87) EP2019080691	BÜTTNER, Tilo
MILL	28.05.2020	WALTHER, Gunnar
(73) thyssenkrupp AG	(22) 08.11.2019	BÖHM, Hans-Dietrich
thyssenkrupp Hohenlimburg GmbH	(54) THICKNESS MEASUREMENT OF A	GERSTLE, Alexandra
(72) OSTHOFF, Rainer	LAYER OF A CASTING POWDER IN A	BODEN, Arne
(31) 102018106393	MOLD	KOLVENBACH, Robin
(32) 19.03.2018	(73) Primetals Technologies Austria GmbH	TORKUHL, Lars
(33) Germany	(72) DOLLHÄUBL, Paul Felix	KIEBACK, Bernd
(51) B22C 9/04	STELZER, Andreas	POSS, René
B22F 5/00	KAINEDER, Alexander	(31) 102018212110
	LANG, Oliver	(32) 20.07.2018

(33) Germany	(54) METHOD OF MAKING AN ABRADABLE	B28D 1/10
(51) B22F 3/23	COATING HAVING VARIABLE	B28D 7/00
C22C 1/05	DENSITIES	(11) EP3659734
(11) EP3452432	(73) Centre National de la Recherche	(21) EP19212048.3
(21) EP17792334.9	Scientifique	(47) 20.04.2022
(47) 20.04.2022	Université Paul Sabatier (Toulouse III)	(22) 28.11.2019
(87) CA2017050540	Safran Aircraft Engines	(54) METHOD FOR DETERMINING AT
09.11.2017	(72) EPHERRE, Romain	LEAST ONE WEAR PARAMETER
(22) 04.05.2017	LE BIEZ, Philippe, Charles, Alain	OF A CUTTING WIRE, AND ITS
(54) A METHOD OF MAKING METALLIC	SELEZNEFF, Serge, Georges, Vladimir	IMPLEMENTATION DEVICE
COMPOUNDS AND METALLIC MATRIX	CHEVALLIER, Geoffroy	(73) Commissariat à l'Energie Atomique et
COMPOSITES USING COMPRESSION	ESTOURNES, Claude	aux Energies Alternatives
ACTIVATED SYNTHESIS	MOTTIN, Jean-Baptiste	(72) VELET, Nicolas
(73) Parker Lodge Holdings LLC	(31) 1562318	COUSTIER, Fabrice
(72) MANLEY, Richard	(32) 14.12.2015	DEBOURDEAU, Mathieu
HOLLOWAY, Scott Richard	(33) France	RIVA, Roland
(31) 201662331507 P	(51) B22F 10/28	(31) 1871973
(32) 04.05.2016	B22F 12/42	(32) 28.11.2018
(33) United States of America	B22F 12/13	(33) France
(51) B22F 5/12	B33Y 10/00	(51) B23D 77/00
B22F 1/00	(11) EP3377321	(11) EP3439816
B22F 3/02	(21) EP16816572.8	(21) EP17715464.8
B22F 3/24	(47) 20.04.2022	(47) 20.04.2022
B22F 3/105	(87) DE2016000399	(87) EP2017057921
B33Y 10/00	26.05.2017	12.10.2017
B33Y 30/00	(22) 16.11.2016	(22) 04.04.2017
B23K 9/04	(54) METHOD FOR 3D PRINTING WITH A	(54) REAMER
B23K 35/32	NARROW WAVELENGTH SPECTRUM	(73) Gühring KG
B23K 35/40	(73) voxeljet AG	(72) SCHANZ, Gerhard
B23K 15/00	(72) REEVERS, James	KLEINER, Gilbert
B21C 1/00	BRÜLLER, Lisa	BECK, Manfred
C22C 27/02	GÜNTHER, Daniel	(31) 102016205657
C22C 30/00	SCHECK, Christoph	(32) 06.04.2016
C23F 1/00	(31) 102015014964	(33) Germany
B33Y 70/00	(32) 20.11.2015	(51) B23K 9/00
B23K 26/342	(33) Germany	B23K 1/00
B21C 23/00	(51) B23D 47/04	B23K 1/18
B23K 35/02	B23D 59/00	B23K 3/00
B22F 10/20	(11) EP2942137	B23K 9/167
(11) EP3408047	(21) EP15165480.3	B23K 9/23
(21) EP17744870.1	(47) 20.04.2022	B23K 37/04
(47) 20.04.2022	(22) 28.04.2015	B23K 37/047
(87) US2017015047	(54) SAWING MACHINE FOR SAWING	B23K 101/12
03.08.2017	METALLIC WORKPIECES	B23K 103/12
(22) 26.01.2017	(73) KEURO Besitz GmbH & Co. EDV-	B21D 51/18
(54) FABRICATION OF HIGH-ENTROPY	Dienstleistungs KG	B21D 51/24
ALLOY WIRE AND MULTI-PRINCIPAL	(72) Sabel, André	B23K 3/08
ELEMENT ALLOY WIRE FOR ADDITIVE	Stolzer, Armin	B23K 37/053
MANUFACTURING	(31) 102014208535	(11) EP3269486
(73) H.C. Starck Place	(32) 07.05.2014	(21) EP16761739.8
(72) HOGAN, Patrick	(33) Germany	(47) 20.04.2022
WINNICKA, Maria, B.	(51) B23D 61/02	(87) JP2016057090
STAWOVY, Michael, Thomas	B27B 5/34	15.09.2016
SMATHERS, David, B.	(11) EP3426427	(22) 08.03.2016
ROZAK, Gary, A.	(21) EP16708637.0	(54) CAN BODY PRODUCTION APPARATUS
(31) 201662287690 P	(47) 20.04.2022	AND CAN BODY PRODUCTION
(32) 27.01.2016	(87) EP2016054531	METHOD
(33) United States of America	08.09.2017	(73) Mitsubishi Electric Corporation
(51) B22F 7/06	(22) 03.03.2016	(72) OKA, Kohei
C23C 24/08	(54) A SPACER STRUCTURE FOR A SAW	GOTO, Kenji
F01D 11/12	DISC ASSEMBLY AND A SAW DISC	MOTEGI, Hiromichi
B22F 3/105	ASSEMBLY	MONODANE, Takeshi
(11) EP3389904	(73) Husqvarna AB	TAKEYAMA, Hidetoshi
(21) EP16825838.2	(72) NILSSON, Tobias	HISHINUMA, Shizuyuki
(47) 20.04.2022	SJÖDAHL, Fredrik	(31) 2015048912
(87) FR2016053358	(51) B23D 65/00	(32) 12.03.2015
22.06.2017	B28D 5/00	(33) Japan
(22) 13.12.2016	B28D 5/04	(51) B23K 9/095

B23K 9/167	(87) JP2015085628	G02B 27/28
B23K 10/00	30.06.2016	G02F 1/01
H02M 3/335	(22) 21.12.2015	B22F 10/28
B23K 9/10	(54) METHOD FOR JOINING METAL	B22F 10/34
(11) EP3397417	MEMBERS	B22F 10/36
(21) EP16829199.5	(73) National University Corporation Gunma	B22F 12/90
(47) 20.04.2022	University	B29C 64/393
(87) US2016069087	(72) TSUNETOU Tatsunori	B29C 64/268
06.07.2017	TOMIKAWA Yohei	(11) EP3368271
(22) 29.12.2016	MA Xiaojuan	(21) EP16860880.0
(54) CONSTANT CURRENT CONTROL	KOYAMA Shinji	(47) 20.04.2022
SYSTEMS AND METHODS	AKIYAMA Tsukasa	(87) US2016059329
(73) Illinois Tool Works, Inc.	(31) 2014264109	04.05.2017
(72) KNOENER, Craig Steven	(32) 26.12.2014	(22) 28.10.2016
MANTHE, Alan Adam	(33) Japan	(54) LONG AND HIGH RESOLUTION
(31) 201615137793	(51) B23K 20/16	STRUCTURES FORMED BY ADDITIVE
201662286764 P	B23K 23/00	MANUFACTURING TECHNIQUES
201562274117 P	B23K 103/10	(73) Seurat Technologies, Inc.
(32) 25.04.2016	(11) EP3782762	(72) TOOMRE, Erik
25.01.2016	(21) EP18740625.1	LEARD, Francis, L.
31.12.2015	(47) 20.04.2022	DEMUTH, James, A.
(33) United States of America	(87) ES2018070309	BERDICHEVSKY, Eugene
United States of America	24.10.2019	FEES, Heiner
United States of America	(22) 18.04.2018	KAMSHAD, Kourosh
(51) B23K 9/10	(54) EXOTHERMIC WELDING SYSTEM AND (31)	201562248787 P
(11) EP3233350	METHOD	201562248847 P
(21) EP15787407.4	(73) KLK Electro Materiales, S.L.U.	201562248795 P
(47) 20.04.2022	(72) DUART ÁLVAREZ DE CIENFUEGOS,	201562248821 P
(87) US2015056125	Daniel	201562248780 P
23.06.2016	(51) B23K 26/00	201562248968 P
(22) 18.10.2015	B23K 26/04	201562248980 P
(54) SYSTEMS FOR PROVIDING A	B23K 26/21	201562248799 P
WELDING SYSTEM ACCESS TO A	B23K 26/06	201562248770 P
NETWORK VIA POWER LINES	B23K 26/08	201562248783 P
(73) Illinois Tool Works Inc.	B23K 26/26	201562248791 P
(72) DENIS, Marc Lee	B23K 26/242	201562248848 P
(31) 201414575825	B23K 26/244	201562248776 P
(32) 18.12.2014	(11) EP3069813	201562248835 P
(33) United States of America	(21) EP14861981.0	201562248969 P
(51) B23K 20/10	(47) 20.04.2022	201562248966 P
H01R 43/02	(87) JP2014005538	201562248839 P
B23K 101/38	21.05.2015	201562248841 P
(11) EP3906133	(22) 04.11.2014	201562248765 P
(21) EP19800973.0	(54) LASER WELDING CONDITION	201562248989 P
(47) 20.04.2022	DETERMINATION METHOD AND	201562248758 P
(87) EP2019080248	LASER WELDING DEVICE	201562248829 P
14.05.2021	(73) Panasonic Intellectual Property	201562248833 P
(22) 05.11.2019	Management Co., Ltd.	(32) 30.10.2015
(54) ULTRASONIC WELDING DEVICE WITH	(72) FUJIWARA, Junji	30.10.2015
POSITION DETECTION OF JOINT	NAKAGAWA, Tatsuyuki	30.10.2015
PARTNERS	KAWAMOTO, Atsuhiko	30.10.2015
(73) Schunk Sonosystems Gmbh	IKEDA, Tatsuya	30.10.2015
(72) GÜNTHER, Daniel	MUKAI, Yasushi	30.10.2015
GASSERT, Frank	(31) 2013236426	30.10.2015
MÜLLER, Stefan	(32) 15.11.2013	30.10.2015
WERNER, Waldemar	(33) Japan	30.10.2015
KOSECKI, Dariusz	(51) B23K 26/03	30.10.2015
BECKER, Stephan	B23K 26/08	30.10.2015
WAGENBACH, Rainer	B23K 26/082	30.10.2015
KOCH, Eugen	B23K 26/342	30.10.2015
(51) B23K 20/16	B23K 37/04	30.10.2015
B23K 20/00	B28B 1/00	30.10.2015
B23K 20/233	B29C 64/153	30.10.2015
B23K 20/24	B29C 64/379	30.10.2015
B23K 20/02	B33Y 10/00	30.10.2015
(11) EP3238869	B33Y 40/00	30.10.2015
(21) EP15872967.3	B33Y 50/02	30.10.2015
(47) 20.04.2022	G02B 27/09	30.10.2015

30.10.2015	B23K 26/36	E05F 15/67
30.10.2015	B23K 26/08	E06B 9/06
(33) United States of America	B23K 37/04	(11) EP3450092
United States of America	B23K 26/38	(21) EP18188058.4
United States of America	(11) EP3681670	(47) 20.04.2022
United States of America	(21) EP18768817.1	(22) 08.08.2018
United States of America	(47) 20.04.2022	(54) COVERING APPARATUS FOR
United States of America	(87) EP2018073767	MACHINE TOOLS
United States of America	21.03.2019	(73) P.E.I. Protezioni Elaborazioni Industriali
United States of America	(22) 04.09.2018	S.r.l.
United States of America	(54) DEVICE FOR ALIGNING AND	(72) BENEDETTI, Michele
United States of America	POSITIONING A WORKPIECE	SHIHADDEH, Omar
United States of America	RELATIVE TO A LASER BEAM OF A	(31) 201700097201
United States of America	LASER PROCESSING MACHINE	(32) 29.08.2017
United States of America	(73) Rollomatic S.A.	(33) Italy
United States of America	(72) KRUMM, Christian	(51) B23Q 16/00
United States of America	FREIDY, Mouhamad Ali	B23Q 16/06
United States of America	CANOSA, José	B23Q 1/66
United States of America	SCHOENENBERGER, Pascal	(11) EP3473378
United States of America	(31) 102017121526	(21) EP18201607.1
United States of America	(32) 15.09.2017	(47) 20.04.2022
United States of America	(33) Germany	(22) 19.10.2018
United States of America	(51) B23Q 1/70	(54) POSITIONING SYSTEM ADAPTED TO
United States of America	B23Q 15/18	OPERATION AT LOW TEMPERATURES
United States of America	B24B 41/04	(73) Commissariat à l'énergie atomique et aux
(51) B23K 26/042	(11) EP3357636	énergies alternatives
B23K 26/03	(21) EP18153222.7	(72) BARRIERE, Jean-Christophe
B23K 26/04	(47) 20.04.2022	(31) 1759928
B23K 26/38	(22) 24.01.2018	(32) 20.10.2017
B23K 101/18	(54) TOOL MODULE FOR FINISHING	(33) France
B23K 101/16	(73) Nitschke, Steffen	(51) B23Q 16/10
B23K 26/08	(72) Nitschke, Steffen	(11) EP3446829
(11) EP3849740	(31) 102017102094	(21) EP18188866.0
(21) EP19786934.0	(32) 02.02.2017	(47) 20.04.2022
(47) 20.04.2022	(33) Germany	(22) 14.08.2018
(87) EP2019077339	(51) B23Q 1/76	(54) MACHINING HEAD WITH AXLE CLAMP
23.04.2020	B23B 29/16	DEVICE AND PROCESSING DEVICE
(22) 09.10.2019	B23B 31/10	(73) HOMAG GmbH
(54) METHOD AND DEVICE FOR LASER	B23B 13/00	(72) Calmbach, Martin
CUTTING A TAILORED BLANK FROM	B23Q 3/18	Gringel, Martin
A CONTINUOUSLY CONVEYED SHEET	(11) EP3488965	(31) 102017118901
STRIP	(21) EP18207453.4	(32) 18.08.2017
(73) Schuler Pressen GmbH	(47) 20.04.2022	(33) Germany
(72) KLINKER, Karsten	(22) 21.11.2018	(51) B24B 19/26
SCHIEBER, Frank	(54) CENTERING DEVICE FOR BARS	B24B 35/00
SEITZ, Alexander	(73) Top Automazioni S.R.L.	B24B 19/00
GROSSE, Jan-Peter	(72) RAMBERTI, Diego	B24B 11/00
(31) 102018125620	BARGELLINI, Nicola	B24B 41/06
(32) 16.10.2018	(31) 201700134468	B23Q 3/06
(33) Germany	(32) 23.11.2017	B24B 27/00
(51) B23K 35/30	(33) Italy	B23Q 3/04
B23K 35/02	(51) B23Q 5/26	(11) EP3292954
F02M 55/02	F15B 11/06	(21) EP17188579.1
F02M 55/00	(11) EP3513908	(47) 20.04.2022
F02M 61/16	(21) EP19150550.2	(22) 30.08.2017
(11) EP3470660	(47) 20.04.2022	(54) DEVICE FOR PRODUCING A
(21) EP17196151.9	(22) 07.01.2019	SLIGHTLY CURVED SURFACE
(47) 20.04.2022	(54) PNEUMATIC ACTUATION SYSTEM	(73) Thielenhaus Technologies GmbH
(22) 12.10.2017	AND MACHINE TOOL ON WHICH SAID	(72) Fink, Klaus-Peter
(54) BRAZED ARTICLE, FUEL RAIL	SYSTEM IS INSTALLED	Thielenhaus, Dr. Johann Peter
ASSEMBLY AND METHODS FOR	(73) SCM Group S.p.A.	DiNardi, Pete
PRODUCING THE SAME	(72) GALLO, Gianluca	(31) 201615261568
(73) Vitesco Technologies GmbH	D'AURIA, Marcello	(32) 09.09.2016
(72) Di Domizio, Gisella	(31) 201800001630	(33) United States of America
Serra, Giandomenico	(32) 22.01.2018	(51) B24B 37/04
Giovanetti, Massimo	(33) Italy	C30B 29/16
Weigl, Georg	(51) B23Q 11/08	(11) EP2789420
(51) B23Q 1/48	E05F 15/605	(21) EP12855467.2

(47) 20.04.2022	(22) 30.07.2019	(22) 02.08.2016
(87) JP2012081504 13.06.2013	(54) METHOD FOR OPERATING A HYDRAULICALLY ACTUATED WORK TOOL	(54) ADAPTER SYSTEM FOR FIXING A TOOL TO AN OSCILLATING DRIVABLE DRIVE SECTION
(22) 05.12.2012	(73) Gustav Klauke GmbH	(73) Wolfcraft GmbH
(54) METHOD FOR MANUFACTURING SOLID OXIDE AND DEVICE THEREFOR	(72) FRENKEN, Egbert	(72) Schlich, Thomas
(73) Osaka University	(31) 102018118677	Noniewicz, Zbigniew
(72) YAMAUCHI Kazuto	(32) 01.08.2018	Schüller, Hans-Jürgen
(31) 2011266659	(33) Germany	(31) 102015114028
(32) 06.12.2011	(51) B25D 11/00	(32) 24.08.2015
(33) Japan	B25F 5/02	(33) Germany
(51) B24C 1/10	(11) EP3022019	(51) B25F 5/00
B08B 3/02	(21) EP14832514.5	B25F 5/02
B05B 7/04	(47) 20.04.2022	H02K 7/14
(11) EP3450103	(87) US2014045704	(11) EP3389941
(21) EP18189818.0	05.02.2015	(21) EP16777666.5
(47) 20.04.2022	(22) 08.07.2014	(47) 20.04.2022
(22) 20.08.2018	(54) ROTARY HAMMER	(87) EP2016073601
(54) PORTABLE CAVITATION PEENING METHOD	(73) Milwaukee Electric Tool Corporation	22.06.2017
(73) The Boeing Company	(72) EBNER, Jeremy R.	(22) 04.10.2016
(72) DIEP, Hali The	WYLER, Andrew R.	(54) HOUSING COVER FOR A HAND-HELD POWER TOOL
THORESON, Amanda Jean	(31) 201361846303 P	(73) Robert Bosch GmbH
SANDERS, Daniel Gordon	(32) 15.07.2013	(72) STIERLE, Peter
(31) 201715693409	(33) United States of America	LUTZ, Manfred
(32) 31.08.2017	(51) B25D 11/12	SCHOMISCH, Thomas
(33) United States of America	F16D 27/108	ESENWEIN, Florian
(51) B25B 1/24	F16D 27/11	(31) 102015225783
B25B 5/00	F16D 27/118	(32) 17.12.2015
B25B 5/10	(11) EP3479965	(33) Germany
B25B 5/16	(21) EP18201305.2	(51) B25F 5/00
B23Q 3/06	(47) 20.04.2022	H01H 23/14
(11) EP3789160	(22) 18.10.2018	G01D 5/20
(21) EP20193981.6	(54) POWER TOOL INCLUDING ELECTROMAGNETIC CLUTCH	H03K 17/97
(47) 20.04.2022	(73) Milwaukee Electric Tool Corporation	(11) EP3763485
(22) 01.09.2020	(72) GREUNKE, Kyle	(21) EP20192388.5
(54) CLAMP FOR HOLDING A BLOCK OF MATERIAL ON A MACHINING TABLE, CLAMPING DEVICE COMPRISING SAID CLAMP AND METHOD FOR CLAMPING A BLOCK OF MATERIAL ON A MACHINING TABLE	SUHR, Benjamin R.	(47) 20.04.2022
(73) Airbus Operations SAS	VANDAALWYK, Brett J.	(22) 25.09.2017
(72) LHOPITAL, Vincent	(31) 201862636365 P	(54) TRIGGER ASSEMBLY
HAMON, Arnaud	201862623160 P	(73) Milwaukee Electric Tool Corporation
LOYER, Anthony	201762575022 P	(72) DEY, IV, John S.
(31) 1909889	(32) 28.02.2018	SCHNEIDER, Jacob P.
(32) 09.09.2019	29.01.2018	(31) 201662400707 P
(33) France	20.10.2017	(32) 28.09.2016
(51) B25B 15/06	(33) United States of America	(33) United States of America
(11) EP3750669	United States of America	(51) B25F 5/02
(21) EP20151995.6	United States of America	B24B 23/02
(47) 20.04.2022	(51) B25F 1/00	(11) EP3573790
(22) 11.02.2020	B25F 5/00	(21) EP17817755.6
(54) MANUAL TOOL	(11) EP3834992	(47) 20.04.2022
(73) Melozzi, Alessandro	(21) EP20213379.9	(87) EP2017083861
(72) Melozzi, Alessandro	(47) 20.04.2022	02.08.2018
(31) 201900000795	(22) 11.12.2020	(22) 20.12.2017
(32) 18.01.2019	(54) ADAPTER AND POWER TOOL SYSTEM	(54) HANDHELD MACHINE TOOL
(33) Italy	(73) Globe (Jiangsu) Co., Ltd.	(73) Robert Bosch GmbH
(51) B25B 27/10	(72) GUO, Xinzhong	(72) WOLF, Andreas
H01R 43/042	YAN, An	VOLLMER, Rainer
(11) EP3829820	HUANG, Lei	STIERLE, Peter
(21) EP19750089.5	(31) 201911271649	LUTZ, Manfred
(47) 20.04.2022	(32) 12.12.2019	ANDRASIC, Sinisa
(87) EP2019070509	(33) China	BARTH, Daniel
06.02.2020	(51) B25F 5/00	BOECK, Cornelius
	B24B 23/04	(31) 102017201311
	B23D 61/00	(32) 27.01.2017
	(11) EP3135439	(33) Germany
	(21) EP16182415.6	(51) B25H 1/00
	(47) 20.04.2022	B65B 13/02
		(11) EP3815850

(21) EP20204799.9	(72) GILGES, Siegmarr	(32) 03.04.2017
(47) 20.04.2022	(31) 93047	01.09.2016
(22) 29.10.2020	(32) 27.04.2016	(33) United Kingdom
(54) FLUSH MOUNT TABLETOP FOR AUTOMATIC CABLE TIE TOOL	(33) Luxembourg	United Kingdom
(73) Panduit Corp.	(51) B25J 9/16	(51) B26B 21/40
(72) LESNIAK, Scott M.	(11) EP3284563	(11) EP3829837
PIERCE, Alfred	(21) EP17181575.6	(21) EP19758902.1
PSAREV, Kirill	(47) 20.04.2022	(47) 20.04.2022
VU, Thuc K.	(22) 17.07.2017	(87) EP2019070663
(31) 202017080147	(54) PICKING SYSTEM	06.02.2020
201962927730 P	(73) Kabushiki Kaisha Yaskawa Denki	(22) 31.07.2019
(32) 26.10.2020	(72) ISHIKAWA, Shinichi	(54) ADJUSTABLE SHAVER CARTRIDGES AND METHODS THEREOF
30.10.2019	KUTSUKAKE, Fuminori	(73) Bic Violex S.A.
(33) United States of America	YAMAMOTO, Akihiro	(72) PSOMIADIS, Ioannis
United States of America	TAKANISHI, Kanji	CHATZIGRIGORIOU, Nikolaos
(51) B25J 9/00	(31) 2016159901	(31) 201862712492 P
B32B 7/12	(32) 17.08.2016	(32) 31.07.2018
B32B 38/10	(33) Japan	(33) United States of America
B65H 37/04	(51) B25J 9/16	(51) B26B 21/44
H05K 3/00	B25J 19/02	B26B 21/40
(11) EP3351496	B25J 19/00	(11) EP3680076
(21) EP16794916.3	B25J 11/00	(21) EP20150908.0
(47) 20.04.2022	A47L 9/28	(47) 20.04.2022
(87) CN2016072417	H02J 50/00	(22) 09.01.2020
23.03.2017	H02J 5/00	(54) LUBRICATING STRIP FOR RAZOR CARTRIDGE AND RAZOR CARTRIDGE USING THE SAME
(22) 28.01.2016	(11) EP3484677	(73) Dorco Co., Ltd.
(54) DOUBLE-SIDED ADHESIVE TAPE	(21) EP17828432.9	(72) KIM, Doo Shik
ATTACHING APPARATUS AND	(47) 20.04.2022	LEE, Tae Young
METHOD FOR ATTACHING DOUBLE-	(87) US2017041840	(31) 20190003311
SIDED ADHESIVE TAPE	18.01.2018	(32) 10.01.2019
(73) BOE Technology Group Co., Ltd.	(22) 13.07.2017	(33) Korea (Republic)
Hefei Xinsheng Optoelectronics	(54) AUTONOMOUS ROBOT AUTO-	(51) B26B 21/56
Technology Co., Ltd	DOCKING AND ENERGY	B26B 21/40
(72) HOU, Chengcheng	MANAGEMENT SYSTEMS AND	B26B 21/44
ZHANG, Yueyuan	METHODS	(11) EP3481607
HU, Ming	(73) iRobot Corporation	(21) EP17730494.6
ZHANG, Shancai	(72) MORRIS, William	(47) 20.04.2022
LI, Hengbin	KARAPETYAN, Vazgen	(87) EP2017064845
(31) 201510591922	O'BRIEN, John P.	11.01.2018
(32) 16.09.2015	(31) 201662361881 P	(22) 16.06.2017
(33) China	(32) 13.07.2016	(54) RAZOR SYSTEM
(51) B25J 9/04	(33) United States of America	(73) BIC-Violex S.A.
B25J 13/08	(51) B25J 9/16	(72) KOPELAS, Panagiotis
(11) EP3715059	G05B 19/423	EFTHIMIADIS, Dimitrios
(21) EP20166304.4	(11) EP3646996	(31) 201662358673 P
(47) 20.04.2022	(21) EP19205885.7	(32) 06.07.2016
(22) 27.03.2020	(47) 20.04.2022	(33) United States of America
(54) HORIZONTAL ARTICULATED ROBOT	(22) 29.10.2019	(51) B27C 5/10
(73) Seiko Epson Corporation	(54) CONTROL APPARATUS AND ROBOT	B27F 5/02
(72) Kawai, Hiroki	TEACHING CONTROL METHOD	B27F 5/12
(31) 2019066088	(73) Seiko Epson Corporation	B23Q 9/00
(32) 29.03.2019	(72) Motoyoshi, Masaki	B25F 5/00
(33) Japan	Adachi, Hiroki	B23Q 35/08
(51) B25J 9/12	(31) 2018203703	(11) EP3380289
B25J 17/02	(32) 30.10.2018	(21) EP16801772.1
B25J 19/00	(33) Japan	(47) 20.04.2022
B25J 9/10	(51) B26B 19/16	(87) EP2016078871
B25J 19/06	(11) EP3507066	01.06.2017
(11) EP3448627	(21) EP17781537.0	(22) 25.11.2016
(21) EP17719288.7	(47) 20.04.2022	(54) PORTABLE HAND ROUTER FOR MAKING CAVITIES ON A SURFACE OF A BOARD
(47) 20.04.2022	(87) IB2017055277	(73) Virutex S.A.
(87) EP2017060056	08.03.2018	(72) CAMPAÑA MARTÍNEZ, José
02.11.2017	(22) 01.09.2017	(31) 15382589
(22) 27.04.2017	(54) A HAIR TRIMMING DEVICE	
(54) MOTORIZED JOINT FOR A	(73) The IP Business Ltd.	
PROGRAMMABLE MOVING MACHINE	(72) MOUNT, Timothy Richard	
(73) Ovalo GmbH	(31) 201705368	
	201614886	

(32) 27.11.2015	(32) 31.01.2018	B29K 105/08
(33) European Patent Office (EPO)	(33) Germany	B29C 33/30
(51) B27N 3/14	(51) B29C 35/02	B29C 70/46
(11) EP3774245	G01K 11/12	B29C 70/48
(21) EP19708045.0	B29C 73/34	B29C 70/20
(47) 20.04.2022	(11) EP3072659	B29C 70/34
(87) EP2019054499	(21) EP16152502.7	B29C 70/38
03.10.2019	(47) 20.04.2022	B29L 31/00
(22) 22.02.2019	(22) 25.01.2016	B29K 105/06
(54) SCATTERING PROCESS.	(54) SYSTEM AND METHOD TO MONITOR	(11) EP3572201
(73) Siempelkamp Maschinen- und	A THERMAL ENVIRONMENT OF A	(21) EP18741719.1
Anlagenbau GmbH	COMPOSITE STRUCTURE USING	(47) 20.04.2022
(72) SCHRÖDER, Werner	A THERMOCHROMATIC WITNESS	(87) JP2018000778
(31) 102018107354	ASSEMBLY	26.07.2018
(32) 28.03.2018	(73) The Boeing Company	(22) 15.01.2018
(33) Germany	(72) HOLMAN, Wesley L.	(54) METHOD FOR MANUFACTURING
(51) B28C 7/16	JAMISON, Brandon P.	FIBER-REINFORCED PLASTIC
B28B 1/00	GEORGESON, Gary E.	(73) Mitsubishi Chemical Corporation
B28B 3/22	GROVE, Randy J.	(72) KAJI, Satoshi
B28C 5/12	(31) 201514856550	TAKANO, Tsuneo
B28C 5/38	201514670394	HONMA, Takashi
E04G 21/04	(32) 16.09.2015	(31) 2017056123
B33Y 30/00	26.03.2015	2017006767
B01F 25/314	(33) United States of America	(32) 22.03.2017
B01F 27/072	United States of America	18.01.2017
B01F 27/50	(51) B29C 41/32	(33) Japan
(11) EP3638476	B41F 17/00	Japan
(21) EP18773499.1	B33Y 30/00	(51) B29C 44/08
(47) 20.04.2022	B29C 64/336	B29C 44/58
(87) FR2018051371	B29C 64/209	B29C 44/56
20.12.2018	B33Y 40/00	B29D 35/00
(22) 12.06.2018	B33Y 10/00	B29K 75/00
(54) SYSTEM FOR EXTRUDING	B29C 64/118	B29K 101/12
CEMENTITIOUS MATERIAL	(11) EP3345735	B29L 31/50
BEADS FOR AN ARCHITECTURAL	(21) EP16842402.6	(11) EP3194138
STRUCTURE ADDITIVE	(47) 20.04.2022	(21) EP15751243.5
MANUFACTURING ROBOT	(87) RU2016000121	(47) 20.04.2022
(73) Xtrees	09.03.2017	(87) US2015044055
(72) DUBALLET, Romain	(22) 04.03.2016	11.02.2016
ROUX, Philippe	(54) METHOD OF PRINTING ON A 3D JET	(22) 06.08.2015
AKHAVAN ZAKERI, Mahriz	PRINTER	(54) METHOD OF FORMING A FOAMED
MALLET, Alban	(73) OOO "Picaso 3D"	PART
GAUDILLIERE, Nadja	(72) ISUPOV, Viktor Vladimirovich	(73) New Balance Athletics, Inc.
BOUYSSOU, Charles	(31) 2015137736	(72) FISHER, Sam
MOREL, Philippe	(32) 04.09.2015	BEST, Brian Steven
GOSSELIN, Clément	(33) Russian Federation	MURPHY, Sean B.
BLANCHET, Laurent	(51) B29C 43/02	(31) 201462033921 P
(31) 1755381	D06N 7/00	(32) 06.08.2014
(32) 14.06.2017	B29K 21/00	(33) United States of America
(33) France	B29K 105/26	(51) B29C 45/00
(51) B29B 7/18	B29L 31/00	B29C 45/16
B29B 7/26	(11) EP3666489	B29L 31/34
(11) EP3746278	(21) EP19152445.3	B60L 53/16
(21) EP18815130.2	(47) 20.04.2022	H01R 13/52
(47) 20.04.2022	(22) 18.01.2019	(11) EP3629425
(87) EP2018082918	(54) FLOOR MATS AND METHODS OF	(21) EP19198855.9
08.08.2019	PRODUCING THE SAME	(47) 20.04.2022
(22) 29.11.2018	(73) Aladdin Manufacturing Corporation	(22) 23.09.2019
(54) INTERNAL MIXER	(72) TRIMBLE, Craig	(54) CONTACT HOUSING FOR A
(73) Harburg-Freudenberger Maschinenbau	JENKINS, Joey	CHARGING SOCKET OF A MOTOR
GmbH	EDWARDS, Shawn	VEHICLE AND METHOD FOR
(72) LIMPER, Andreas	LAWSON, Anthony	PRODUCING A CHARGING SOCKET
HESSE, Markus	SANCHEZ-CAMARILLO, Franco	OF A MOTOR VEHICLE
ALFES, Steffen	BROWN, Andrew	(73) Lisa Dräxlmaier GmbH
KEUTER, Harald	(31) 201862779939 P	(72) Livk, Uros
RINKER, Maik	(32) 14.12.2018	(31) 102018123621
NOELLING, Petra	(33) United States of America	(32) 25.09.2018
(31) 102018201482	(51) B29C 43/34	(33) Germany

(51) B29C 45/14 B29C 33/12 B29C 45/84 B29C 45/76	(54) SYSTEM FOR MANUFACTURING MOLDED PRODUCT	(33) Japan Japan
(11) EP3804944	(73) Yushin Precision Equipment Co. , Ltd.	(51) B29C 49/46
(21) EP20199229.4	(72) KANAZAWA, Ryuichi	B29C 49/06
(47) 20.04.2022	HAMAHATA, Mitsuharu	B29C 49/48
(22) 30.09.2020	IKEDA, Koji	B67C 3/22
(54) TOOL HALF AND METHOD FOR MANUFACTURING AN INJECTION MOULDED PART WITH AT LEAST ONE SOCKET-TYPE INSERT	(31) 2019163540	B65B 3/02
(73) Lisa Dräxlmaier GmbH	2018172548	B29K 23/00
(72) Greifeneder, Daniel	(32) 09.09.2019	B29K 67/00
Rainer, Liedtke	14.09.2018	B29L 31/00
Püschel, Stefan	(33) Japan	(11) EP3647015
Esterbauer, Peter	Japan	(21) EP18824320.8
Peterlechner, Hermann		(47) 20.04.2022
(31) 102019126938	(51) B29C 48/08	(87) JP2018022096
(32) 08.10.2019	B29C 48/20	03.01.2019
(33) Germany	(11) EP3230038	(22) 08.06.2018
(51) B29C 45/14	(21) EP15804732.4	(54) LIQUID-CONTAINING CONTAINER MANUFACTURING METHOD
B29C 45/76	(47) 20.04.2022	(73) Yoshino Kogyosho Co., Ltd.
B29C 33/12	(87) EP2015078219	(72) TANAKA, Toshimasa
B29C 45/84	16.06.2016	(31) 2017129907
(11) EP3804946	(22) 01.12.2015	(32) 30.06.2017
(21) EP20200661.5	(54) METHOD FOR EXTRUDING AN EXPANDED POLYMER SHEET	(33) Japan
(47) 20.04.2022	(73) Proxital S.p.A.	(51) B29C 49/46
(22) 08.10.2020	(72) RONZINI, Emanuele	B29C 49/12
(54) MAGAZINE DEVICE AND METHOD FOR FEEDING INSERTS TO AN INJECTION MOULD	(31) MI20142107	B29C 49/06
(73) Lisa Dräxlmaier GmbH	(32) 09.12.2014	B29K 23/00
(72) Püschel, Stefan	(33) Italy	B29K 67/00
Greifeneder, Daniel	(51) B29C 48/36	(11) EP3647017
Rainer, Liedtke	B29C 48/69	(21) EP18824982.5
Peterlechner, Hermann	B29C 48/25	(47) 20.04.2022
Esterbauer, Peter	B29C 48/695	(87) JP2018019154
(31) 102019126941	B01F 5/06	03.01.2019
(32) 08.10.2019	(11) EP3107707	(22) 17.05.2018
(33) Germany	(21) EP15752829.0	(54) LIQUID-CONTAINING CONTAINER MANUFACTURING METHOD
(51) B29C 45/14	(47) 20.04.2022	(73) Yoshino Kogyosho Co., Ltd.
B29C 45/76	(87) CA2015000099	(72) OKUYAMA, Yuichi
B29C 45/84	27.08.2015	MORIKAMI, Shigeki
B29C 33/12	(22) 18.02.2015	SHIOKAWA, Mitsuru
(11) EP3804945	(54) APPARATUS FOR EXTRUDING PLASTIC MATERIALS	(31) 2017126658
(21) EP20200660.7	(73) REDETEC Inc.	(32) 28.06.2017
(47) 20.04.2022	(72) OOSTERMAN, James Dennon	(33) Japan
(22) 08.10.2020	JOYCE, David Miles	(51) B29C 53/68
(54) TOOL HALF AND METHOD FOR MANUFACTURING AN INJECTION MOULDED PART WITH AT LEAST ONE PIN-SHAPED INSERT	KAY, Alex W.	(11) EP3541600
(73) Lisa Dräxlmaier GmbH	(31) 2843392	(21) EP17808104.8
(72) Liedtke, Rainer	201461941689 P	(47) 20.04.2022
Peterlechner, Hermann	(32) 20.02.2014	(87) FR2017053099
Püschel, Stefan	19.02.2014	24.05.2018
Greifeneder, Daniel	(33) Canada	(22) 13.11.2017
Esterbauer, Peter	United States of America	(54) MACHINE AND METHOD FOR SIMULTANEOUSLY LAYING CABLES IN A HELIX ON THE OUTER SURFACE OF A UNIT ELEMENT OF A FLUID TRANSPORT DUCT
(31) 102019126939	(51) B29C 49/08	(73) Saipem SA
(32) 08.10.2019	B29C 49/24	(72) SUNDERMANN, Axel
(33) Germany	B65D 23/08	PIONETTI, François-Régis
(51) B29C 45/76	(11) EP3196139	AGOUMI, Jalil
(11) EP3623134	(21) EP15826863.1	(31) 1661077
(21) EP19197068.0	(47) 20.04.2022	(32) 16.11.2016
(47) 20.04.2022	(87) JP2015003475	(33) France
(22) 12.09.2019	04.02.2016	(51) B29C 64/00
	(22) 09.07.2015	B01J 19/24
	(54) COMPOSITE CONTAINER	(11) EP3802060
	(73) Discma AG	(21) EP19746023.1
	(72) SHIOKAWA, Mitsuru	(47) 20.04.2022
	TOYODA, Tamotsu	(87) EP2019069009
	TABATA, Shinichi	
	(31) 2014223680	
	2014156919	
	(32) 31.10.2014	
	31.07.2014	

30.01.2020	VOGEL, Hendric	(33) United States of America
(22) 15.07.2019	(31) 201762476947 P	(51) B29C 70/54
(54) REACTOR FOR CARRYING OUT A CHEMICAL EQUILIBRIUM REACTION	(32) 27.03.2017	B29D 99/00
(73) Siemens Aktiengesellschaft	(33) United States of America	B64C 1/06
(72) KIENER, Christoph	(51) B29C 64/25	B29C 65/00
(31) 18186079	B29C 64/364	(11) EP3666507
(32) 27.07.2018	B33Y 30/00	(21) EP19213395.7
(33) European Patent Office (EPO)	B29C 64/153	(47) 20.04.2022
(51) B29C 64/112	B29C 64/129	(22) 04.12.2019
B33Y 10/00	B22F 10/20	(54) METHOD FOR MANUFACTURING A WINGBOX OF AN AIRCRAFT COMPRISING AT LEAST ONE STIFFENER WITH AT LEAST ONE THROUGH HOLE
B33Y 70/00	(11) EP3587078	(73) Airbus Operations SAS
B33Y 80/00	(21) EP19191829.1	(72) VIVIEN, Guillaume
(11) EP3515687	(47) 20.04.2022	PRIDIE, Jago
(21) EP17784014.7	(22) 28.07.2017	PENVEN, Benoît
(47) 20.04.2022	(54) APPARATUS FOR MANUFACTURING THREE-DIMENSIONAL OBJECTS	FORDOS, Nicolas
(87) IB2017055696	(73) CL Schutzrechtsverwaltungs GmbH	(31) 1872706
29.03.2018	(72) Büchner, David	(32) 11.12.2018
(22) 20.09.2017	(51) B29C 67/00	(33) France
(54) METHOD FOR SOLID FREEFORM FABRICATION	B33Y 30/00	(51) B29C 70/74
(73) Stratasys Ltd.	B33Y 50/02	B29C 67/00
(72) MELAMED, Ophira	B22F 3/105	B33Y 10/00
TEKEN, Avraham	(11) EP3271152	B33Y 80/00
MANNA, Cesar M.	(21) EP15899892.2	(11) EP3463832
LEVY, Avraham	(47) 20.04.2022	(21) EP17728995.6
RAVICH, Diana	(87) US2015042987	(47) 20.04.2022
MIDA, Gavish	02.02.2017	(87) US2017035135
(31) 201662397949 P	(22) 30.07.2015	07.12.2017
(32) 22.09.2016	(54) THREE-DIMENSIONAL OBJECT PRODUCTION	(22) 31.05.2017
(33) United States of America	(73) Hewlett-Packard Development Company, L.P.	(54) METHOD OF PRINTING A CONTOURED OBJECT USING COLOR AND STRUCTURAL LAYERS
(51) B29C 64/112	(72) RAMIREZ MUELA, David	(73) Nike Innovate C.V.
B33Y 50/00	DE PENA, Alejandro Manuel	(72) MILLER, Todd, W.
(11) EP3471943	ZHAO, Lihua	MANVILLE, Laurel
(21) EP16919079.0	(51) B29C 70/02	(31) 201662343766 P
(47) 20.04.2022	B29C 70/54	(32) 31.05.2016
(87) US2016058088	(11) EP3374165	(33) United States of America
26.04.2018	(21) EP16801105.4	(51) B29C 73/10
(22) 21.10.2016	(47) 20.04.2022	B29L 31/30
(54) MULTIPLE DISPENSE TECHNOLOGY 3D PRINTING	(87) US2016061506	(11) EP3532275
(73) Hewlett-Packard Development Company, L.P.	18.05.2017	(21) EP16790845.8
(72) MOROVIC, Jan	(22) 11.11.2016	(47) 20.04.2022
NIELSON, Jeffrey A.	(54) HYBRID VEIL AS INTERLAYER IN COMPOSITE MATERIALS AND METHOD FOR MANUFACTURING A MODIFIED PREPREG COMPRISING A HYBRID VEIL	(87) US2016058598
MOROVIC, Peter	(73) Cytec Industries Inc.	03.05.2018
(51) B29C 64/124	(72) RESTUCCIA, Carmelo, Luca	(22) 25.10.2016
B29C 64/30	BLACKBURN, Robert	(54) ACOUSTIC PANEL REPAIR WITH RETENTION OF ACOUSTIC PROPERTIES
B29C 69/00	(31) 201562254224 P	(73) Rohr, Inc.
B33Y 10/00	(32) 12.11.2015	(72) WEE, Chong Yaw
(11) EP3600842	(33) United States of America	TEO, Chia Huat
(21) EP18715370.5	(51) B29C 70/44	(51) B29D 24/00
(47) 20.04.2022	B29D 99/00	B32B 37/14
(87) US2018022370	(11) EP3613567	B29D 99/00
04.10.2018	(21) EP19181571.1	B29C 65/48
(22) 14.03.2018	(47) 20.04.2022	B29C 65/56
(54) METHOD OF MAKING THREE- DIMENSIONAL OBJECTS BY ADDITIVE MANUFACTURING	(22) 21.06.2019	(11) EP3360672
(73) Carbon, Inc.	(54) FLEXIBLE MANDREL FOR FORMING COMPOSITE STRUCTURES	(21) EP17203709.5
Adidas AG	(73) The Boeing Company	(47) 20.04.2022
(72) CARLSON, Craig B.	(72) Noel, Jennifer Sue	(22) 27.11.2017
DACHS II, Gregory W.	Morris, John D.	(54) SPLICES COMPRISING HONEYCOMB CORES SUPPORTED BY TIE CLIPS AND METHODS OF FORMING THEREOF
PRICE, R. Griffin	Lee, Michael A.	
PERRAULT, Jacques	(31) 201816108680	
BALL, Braden Reed	(32) 22.08.2018	
MCCLUSKEY, Sean Friedrich Walter		
KABARIA, Hardik		

(73) The Boeing Company	(54) COMPONENT HAVING COVER PLATES	E04B 1/76
(72) MARTY, Mikel D.	AND PIPE SEGMENTS MADE OF A	(11) EP3448672
BLISS, Megan E.	WOOD MATERIAL	(21) EP17722557.0
BOWN, Roger A.	(73) Air Bamboo Industrial GmbH	(47) 20.04.2022
PIERCE, Evan F.	(72) ALBRECHT, Matthias	(87) US2017029192
MOORE, Francis W.	KUJUS-TENEKEDSHIJEV, Roman	02.11.2017
(31) 201715409192	KUHMANN, Jochen	(22) 24.04.2017
(32) 18.01.2017	(31) 102016114138	(54) POLYMER FOAM INSULATION
(33) United States of America	102016108854	STRUCTURES HAVING A FACING
(51) B29D 30/32	(32) 29.07.2016	LAYER OF A POLYLACTIDE RESIN
B29D 30/72	12.05.2016	(73) NatureWorks LLC
(11) EP3562661	(33) Germany	(72) OWUSU, Osei A.
(21) EP17842367.9	Germany	HOSSIENY, Nemat
(47) 20.04.2022	(51) B32B 3/30	NATAL, Manuel A.W.
(87) IB2017058258	B32B 17/10	BENSON, Richard Douglas
05.07.2018	B32B 27/30	(31) 201662329124 P
(22) 21.12.2017	(11) EP3162536	(32) 28.04.2016
(54) APPARATUS AND PROCESS FOR	(21) EP15812293.7	(33) United States of America
BUILDING TYRES FOR VEHICLE	(47) 20.04.2022	(51) B32B 7/04
WHEELS	(87) JP2015068397	B32B 27/08
(73) Pirelli Tyre S.p.A.	30.12.2015	B32B 27/32
(72) BADOLATO, Luigi Antonio	(22) 25.06.2015	(11) EP3700744
GIAMBERSIO, Dario	(54) ENGRAVED ROLL MANUFACTURING	(21) EP18788801.1
BOSIO, Luigi	METHOD AND ENGRAVED ROLL	(47) 20.04.2022
SABBATANI, Enrico	OBTAINABLE BY THE METHOD	(87) EP2018079216
(31) 201600132442	(73) Sekisui Chemical Co., Ltd.	02.05.2019
(32) 29.12.2016	(72) NAKAYAMA, Kazuhiko	(22) 24.10.2018
(33) Italy	INUI, Hiroaki	(54) MULTILAYER POLYMER FILM
(51) B30B 1/26	(31) 2014130492	(73) Borealis AG
B30B 15/14	(32) 25.06.2014	(72) JAMIESON, John
B30B 15/06	(33) Japan	DE WEVER, William
B21D 24/10	(51) B32B 5/00	(31) 18155175
B21D 24/02	B32B 5/02	17198140
(11) EP2813358	B32B 5/04	(32) 05.02.2018
(21) EP14172134.0	B32B 5/10	24.10.2017
(47) 20.04.2022	B32B 5/18	(33) European Patent Office (EPO)
(22) 12.06.2014	B32B 5/22	European Patent Office (EPO)
(54) Die cushion force setting apparatus	B32B 5/24	(51) B32B 7/05
(73) Aida Engineering, Ltd.	B32B 5/26	B32B 5/02
(72) Makabe, Junji	B32B 7/00	B32B 5/08
Tsuchida, Kazufumi	B32B 7/02	B32B 5/24
Kohno, Yasuyuki	B32B 7/04	B32B 15/02
(31) 2013125121	B32B 7/10	B32B 15/082
(32) 14.06.2013	B32B 7/12	B32B 15/088
(33) Japan	B32B 9/00	B32B 15/14
(51) B30B 15/04	B32B 19/00	B32B 15/20
B30B 15/00	B32B 19/02	B32B 27/12
(11) EP3708351	B32B 19/04	B32B 27/30
(21) EP20158428.1	(11) EP3250375	B32B 27/32
(47) 20.04.2022	(21) EP16712457.7	B32B 27/34
(22) 20.02.2020	(47) 20.04.2022	B32B 27/36
(54) PRESS MACHINE	(87) IB2016050377	B32B 3/04
(73) ASAHI-SEIKI MANUFACTURING CO.,	04.08.2016	B32B 3/06
LTD.	(22) 26.01.2016	B32B 3/26
(72) OKADA, Mitsuhiro	(54) A PANEL MADE OF COMPOSITE	(11) EP3272517
(31) 2019043379	MATERIAL HAVING A LAYERED	(21) EP16765088.6
(32) 11.03.2019	STRUCTURE	(47) 20.04.2022
(33) Japan	(73) Composite Research S.r.l.	(87) JP2016058590
(51) B32B 3/18	(72) GIULIETTI, Nicola	22.09.2016
B32B 3/20	FOSSAT, Eugenio	(22) 17.03.2016
B32B 21/04	(31) TO20150061	(54) STRUCTURAL BODY AND CORE
(11) EP3455064	(32) 28.01.2015	(73) Kabushiki Kaisha Toshiba
(21) EP17724784.8	(33) Italy	(72) UCHIDA, Kenya
(47) 20.04.2022	(51) B32B 5/20	HAYAMIZU, Naoya
(87) EP2017061227	B32B 27/36	UEMATSU, Ikuo
16.11.2017	B29C 44/06	(31) 2015053452
(22) 10.05.2017	B29C 44/12	(32) 17.03.2015
	E04C 2/284	(33) Japan

(51) B32B 7/08	(32) 26.01.2015	(32) 16.05.2016
B32B 27/08	(33) European Patent Office (EPO)	(33) Japan
(11) EP3159157	(51) B32B 21/08	(51) B32B 37/14
(21) EP16194547.2	B27N 7/00	B29C 55/00
(47) 20.04.2022	B44C 5/04	B32B 3/26
(22) 19.10.2016	E04F 15/02	B32B 7/035
(54) NANOTUBE ENHANCEMENT OF	B05D 7/06	B29C 48/08
INTERLAMINAR PERFORMANCE FOR	B27M 3/04	B32B 27/20
A COMPOSITE COMPONENT	B32B 21/00	(11) EP3880473
(73) Raytheon Technologies Corporation	B32B 21/02	(21) EP18807033.8
(72) RIEHL, John D.	B32B 38/00	(47) 20.04.2022
NAIK, Rajiv A.	B32B 7/12	(87) EP2018081477
FOSTER, Larry	B32B 27/12	22.05.2020
(31) 201514886480	B32B 27/40	(22) 15.11.2018
(32) 19.10.2015	B32B 33/00	(54) RECYCLABLE PACKAGING LAMINATE
(33) United States of America	B32B 3/10	HAVING A GOOD BARRIER EFFECT
(51) B32B 15/08	B32B 5/02	AND LOW DENSITY, AND METHOD
C25D 5/56	B32B 27/06	FOR THE PRODUCTION THEREOF
H05K 3/00	(11) EP3878648	(73) Constantia Pirk GmbH & Co. KG
C23C 28/02	(21) EP20162393.1	(72) GREFENSTEIN, Achim
B32B 15/088	(47) 20.04.2022	LAMTIGUI, Thami
B32B 15/09	(22) 11.03.2020	(51) B32B 38/00
B32B 15/04	(54) COMPOSITE MATERIAL WITH A	B32B 43/00
B32B 37/00	THERMOPLASTIC FILM FOR USE IN A	H01M 50/116
(11) EP3747648	FLOOR PANEL AND A METHOD FOR	H01M 10/04
(21) EP20184887.6	ITS MANUFACTURE	H01M 50/10
(47) 20.04.2022	(73) Flooring Technologies Ltd.	B65H 23/34
(22) 02.03.2017	(72) Dr. Kalwa, Norbert	(11) EP3486084
(54) METAL-CLAD LAMINATE AND	Seidack, Georg	(21) EP18770992.8
MANUFACTURING METHOD FOR	(51) B32B 27/16	(47) 20.04.2022
SAME	B32B 27/20	(87) KR2018002479
(73) Kuraray Co., Ltd.	B32B 27/36	27.09.2018
(72) NAKASHIMA, Takahiro	B32B 7/10	(22) 28.02.2018
SUZUKI, Shigeaki	(11) EP3634746	(54) LEVELING APPARATUS FOR
HIRAMATSU, Shinji	(21) EP18725586.4	PREVENTING CURLING OF POUCH-
SUNAMOTO, Tatsuya	(47) 20.04.2022	TYPE SECONDARY BATTERY
(31) 2016041591	(87) GB2018051222	(73) LG Energy Solution, Ltd.
(32) 03.03.2016	15.11.2018	(72) SHIN, Byung-Heon
(33) Japan	(22) 08.05.2018	LEE, Woo-Yong
(51) B32B 17/06	(54) MULTI-LAYER FILM ASSEMBLY	KIM, Hyun-Tae
B32B 17/10	SUITABLE FOR USE IN A MULTI-	(31) 20170034958
(11) EP3412447	LAYER CARD	(32) 20.03.2017
(21) EP18173457.5	(73) DUPONT TEIJIN FILMS U.S. LIMITED	(33) Korea (Republic)
(47) 20.04.2022	PARTNERSHIP	(51) B33Y 10/00
(22) 21.05.2018	(72) CHILD, Felicity	A61L 27/46
(54) PASSIVE RADIATIVE COOLING OF	HODGSON, Mark	A61L 27/48
WINDOW STRUCTURES	ASHBY, Shane	A61L 27/38
(73) Palo Alto Research Center, Incorporated	PARNHAM, Emily	A61L 27/36
AGC Automotive Americas R & D, Inc.	(31) 201707361	B33Y 30/00
(72) VAN OVERMEERE, Quentin L.C.	(32) 08.05.2017	B33Y 70/00
WANG, Victoria X.	(33) United Kingdom	A61L 27/26
CASSE, Bernard D.	(51) B32B 27/20	A61L 27/52
(31) 201715616847	B32B 27/00	A61L 27/54
(32) 07.06.2017	B32B 3/30	(11) EP3689609
(33) United States of America	B32B 27/30	(21) EP20160362.8
(51) B32B 17/10	B32B 27/36	(47) 20.04.2022
H05B 3/84	B44C 3/02	(22) 11.12.2015
(11) EP3250379	B44C 5/00	(54) GRAFT SCAFFOLD FOR CARTILAGE
(21) EP15805432.0	(11) EP3459734	REPAIR AND PROCESS FOR MAKING
(47) 20.04.2022	(21) EP17799124.7	SAME
(87) EP2015078303	(47) 20.04.2022	(73) ETH Zürich
04.08.2016	(87) JP2017016172	(72) Zenobi-Wong, Marcy
(22) 02.12.2015	23.11.2017	Müller, Michael
(54) HEATABLE LAMINATED SIDE WINDOW	(22) 24.04.2017	Kesti, Matti
(73) SAINT-GOBAIN GLASS FRANCE	(54) DECORATIVE SHEET	(31) 15158224
(72) KLEIN, Marcel	(73) Riken Technos Corporation	14197449
KREBS, Benjamin	(72) INOMATA, Hitomi	(32) 09.03.2015
(31) 15152463	(31) 2016097551	11.12.2014

(33) European Patent Office (EPO) European Patent Office (EPO)	B33Y 80/00 A61L 27/16 A61L 27/54	(22) 20.02.2019 (54) LOW-VIBRATION CYLINDER (73) Flint Group Germany GmbH (72) Bennink, Klaus Schwiertz, Martin Müller, Uwe
(51) B33Y 10/00 B29C 64/106 B33Y 70/00 C12M 1/12 C12M 1/26 C12N 5/00 (11) EP3705294 (21) EP20156113.1 (47) 20.04.2022 (22) 07.02.2020 (54) METHOD OF MANUFACTURING CELL SPHEROID USING BIOINK (73) UNIST (Ulsan National Institute of Science and Technology) (72) JEON, Seug Gyu KANG, Hyun Wook HEO, Jun Ho (31) 20190025956 (32) 06.03.2019 (33) Korea (Republic)	(11) EP3774284 (21) EP19715803.3 (47) 20.04.2022 (87) EP2019057734 03.10.2019 (22) 27.03.2019 (54) DEVICE FOR PRODUCING 3D- PRINTED ACTIVE SUBSTANCE- RELEASING SYSTEMS WITH ACTIVE SUBSTANCE DEPOTS, AND METHOD FOR PRODUCING 3D-PRINTED ACTIVE SUBSTANCE-RELEASING SYSTEMS (73) Universität Rostock (72) EICKNER, Thomas TESKE, Michael SCHMITZ, Klaus-Peter MARTZMOHR, Roland RIESS, Alexander GRABOW, Niels MAU, Robert SEITZ, Hermann (31) 102018107585 (32) 29.03.2018 (33) Germany	(51) B41J 2/055 B41J 2/14 B41J 2/16 (11) EP3381690 (21) EP17187830.9 (47) 20.04.2022 (22) 24.08.2017 (54) FLUID EJECTION DEVICE HAVING A CROSSTALK REDUCTION ELEMENT, PRINTHEAD INCLUDING THE EJECTION DEVICE, PRINTER INCLUDING THE PRINTHEAD, AND METHOD FOR MANUFACTURING THE EJECTION DEVICE (73) STMicroelectronics S.r.l. STMicroelectronics, Inc. (72) GIUSTI, Domenico DODD, Simon PRELINI, Carlo Luigi FERRERA, Marco (31) 201700034134 (32) 28.03.2017 (33) Italy
(51) B33Y 10/00 B33Y 30/00 B29C 64/118 G01T 1/00 (11) EP3466686 (21) EP18183823.6 (47) 20.04.2022 (22) 17.07.2018 (54) ADDITIVE MANUFACTURING FIBER COMPOSITES AND RELATED SYSTEMS AND METHODS (73) The Boeing Company (72) Wilenski, Mark S. Harrison, Samuel F. Kozar, Michael P. (31) 201715726283 (32) 05.10.2017 (33) United States of America	(51) B33Y 70/00 (11) EP3750943 (21) EP20177083.1 (47) 20.04.2022 (22) 21.07.2017 (54) RESIN POWDER FOR SOLID FREEFORM FABRICATION, DEVICE FOR SOLID FREEFORM FABRICATION OBJECT, AND METHOD OF MANUFACTURING SOLID FREEFORM FABRICATION OBJECT (73) Ricoh Company, Ltd. (72) KAMODA, Kiichi YAGUCHI, Shigenori IIDA, Sohichiroh YAMASHITA, Yasuyuki HIGUCHI, Shinzo IWATSUKI, Hitoshi TAMOTO, Nozomu SUZUKI, Yasuo SAITO, Akira (31) 2017138268 2017111488 2017049036 2016144862 (32) 14.07.2017 06.06.2017 14.03.2017 22.07.2016 (33) Japan Japan Japan Japan	(72) GIUSTI, Domenico DODD, Simon PRELINI, Carlo Luigi FERRERA, Marco (31) 201700034134 (32) 28.03.2017 (33) Italy (51) B41J 2/14 (11) EP3620303 (21) EP19191399.5 (47) 20.04.2022 (22) 13.08.2019 (54) LIQUID EJECTION HEAD AND PROCESS FOR PRODUCING LIQUID EJECTION HEAD (73) CANON KABUSHIKI KAISHA (72) ASAI, Kazuhiro SASAKI, Koji NAGATA, Shingo YAMAMURO, Jun (31) 2018166888 (32) 06.09.2018 (33) Japan (51) B41J 2/14 B41J 2/155 (11) EP3608109 (21) EP19188293.5 (47) 20.04.2022 (22) 25.07.2019 (54) LIQUID DISCHARGE HEAD AND RECORDING APPARATUS (73) CANON KABUSHIKI KAISHA (72) KIMURA, Satoshi KOMAMIYA, Yumi OKUSHIMA, Shingo (31) 2018148579 (32) 07.08.2018 (33) Japan
(51) B33Y 30/00 B29C 64/209 B29C 64/255 B29C 64/321 G03F 7/20 B22F 3/105 B29K 105/00 A61C 13/00 (11) EP3642039 (21) EP18735220.8 (47) 20.04.2022 (87) EP2018066528 27.12.2018 (22) 21.06.2018 (54) CONTAINER FOR USE IN STEREOLITHOGRAPHIC SYSTEMS (73) Sirona Dental Systems GmbH (72) SCHMIDT, Christian (31) 102017210384 (32) 21.06.2017 (33) Germany	(51) B41F 13/08 B41F 13/10 B41F 27/10 B41F 27/14 (11) EP3698969 (21) EP19158348.3 (47) 20.04.2022	(51) B41J 2/14 B41J 2/18 (11) EP3733414 (21) EP17936668.7 (47) 20.04.2022 (87) JP2017047168 04.07.2019 (22) 28.12.2017

(54) INK JET HEAD AND INK JET RECORDING APPARATUS	(47) 20.04.2022	B41M 5/41
(73) KONICA MINOLTA, INC.	(22) 02.02.2018	(11) EP3069894
(72) TANAKA, Souichi	(54) A PRINTING APPARATUS	(21) EP14861774.9
HAMANO, Hikaru	(73) Dover Europe Sàrl	(47) 20.04.2022
(51) B41J 2/175	(72) BOND, Nicky	(87) JP2014079621
B41J 2/18	Toudmeri, Mohammed	21.05.2015
B41J 2/19	(31) 201701909	(22) 07.11.2014
(11) EP3711958	(32) 06.02.2017	(54) THERMAL RECORDING SHEET
(21) EP20159215.1	(33) United Kingdom	(73) Osaka Sealing Printing Co., Ltd.
(47) 20.04.2022	(51) B41J 25/22	(72) ONO, Shinichi
(22) 25.02.2020	B41J 2/21	KIMURA, Takayuki
(54) LIQUID SUPPLY DEVICE AND LIQUID DISCHARGE DEVICE	B41J 29/377	YOSHIDA, Masahiko
(73) Toshiba Tec Kabushiki Kaisha	B41J 29/393	(31) 2013236907
(72) HARA, Kazuhiro	(11) EP2616247	(32) 15.11.2013
(31) 2019051160	(21) EP11825674.2	(33) Japan
(32) 19.03.2019	(47) 20.04.2022	(51) B41M 5/333
(33) Japan	(87) US2011050242	B41M 5/327
(51) B41J 11/00	22.03.2012	B41M 5/337
B23Q 7/14	(22) 01.09.2011	(11) EP3790739
H02K 41/02	(54) INKJET PRINTER WITH DOT ALIGNMENT VISION SYSTEM	(21) EP19722602.0
B65G 54/02	(73) Electronics for Imaging, Inc.	(47) 20.04.2022
B65G 35/06	(72) HEATH, Peter	(87) EP2019061582
B65G 17/34	JIMENEZ, Luis, Alejandro	14.11.2019
B41J 11/06	(31) 883058	(22) 06.05.2019
B65H 5/04	(32) 15.09.2010	(54) HEAT-SENSITIVE RECORDING MATERIAL
B65H 7/02	(33) United States of America	(73) Papierfabrik August Koehler SE
B41J 13/12	(51) B41J 35/36	(72) HORN, Michael
G06K 13/07	B41J 2/325	ZIERINGER, Kerstin
(11) EP3463909	B41J 31/00	STALLING, Timo
(21) EP17724837.4	(11) EP3760447	(31) 102018111224
(47) 20.04.2022	(21) EP20179586.1	(32) 09.05.2018
(87) EP2017062710	(47) 20.04.2022	(33) Germany
30.11.2017	(22) 23.01.2018	(51) B42D 25/23
(22) 25.05.2017	(54) DETECTING PRINTING RIBBON ORIENTATION	B42D 25/29
(54) DEVICE AND METHOD FOR CONVEYING SUBSTRATES IN A PRINTING MACHINE	(73) Datamax-O'Neil Corporation	B42D 25/328
(73) MGI Digital Technology	(72) D'ARMAN COURT, Sébastien Michel	B42D 25/351
(72) ABERGEL, Edmond	Marie Joseph	B42D 25/355
GAUTIER LE BOULCH, Louis	(31) 201715802714	B42D 25/373
(31) 1654805	201715416606	B42D 25/445
(32) 27.05.2016	(32) 03.11.2017	B42D 25/45
(33) France	26.01.2017	(11) EP3374197
(51) B41J 13/00	(33) United States of America	(21) EP16797741.2
B41J 11/00	United States of America	(47) 20.04.2022
(11) EP3524438	(51) B41K 1/12	(87) EP2016001843
(21) EP19155511.9	B41K 1/40	18.05.2017
(47) 20.04.2022	(11) EP3856531	(22) 08.11.2016
(22) 05.02.2019	(21) EP19780137.6	(54) SECURITY ELEMENT, METHOD FOR PRODUCING SAME, AND DATA CARRIER EQUIPPED WITH THE SECURITY ELEMENT
(54) PRINTING APPARATUS	(47) 20.04.2022	(73) Giesecke+Devrient Currency Technology GmbH
(73) CANON KABUSHIKI KAISHA	(87) AT2019060313	(72) TEUFEL, Björn
(72) MATSUURA, Masaaki	02.04.2020	DORFF, Giselher
OGASAWARA, Seiji	(22) 24.09.2019	(31) 102015014505
TOKUDA, Shuichi	(54) TURNING DEVICE FOR A SELF-INKING STAMP	(32) 10.11.2015
ISHIDA, Takaaki	(73) COLOP STEMPELERZEUGUNG SKOPEK GESELLSCHAFT M.B.H. & CO. KG.	(33) Germany
HATTORI, Yuna	(72) RIEDL, Norbert	(51) B42D 25/328
TSUKUDA, Masakazu	WILFLINGSIEDER, Johann	G02B 5/18
MATSUO, Kazuki	(31) 508192018	G02B 5/02
NISHIDA, Tomofumi	(32) 24.09.2018	(11) EP3154794
(31) 2018021193	(33) Austria	(21) EP15756832.0
(32) 08.02.2018	(51) B41M 5/28	(47) 20.04.2022
(33) Japan	B41M 5/30	(87) EP2015000970
(51) B41J 17/36	B41M 5/337	17.12.2015
B41J 35/36	B41M 5/40	(22) 11.05.2015
(11) EP3575097	B41M 5/42	
(21) EP19186968.4		

(54) SECURITY ELEMENT AND METHOD FOR PRODUCING A SECURITY ELEMENT HAVING LIGHT-SCATTERING STRUCTURES	(47) 20.04.2022 (22) 13.05.2019 (54) METHOD FOR THE MANUFACTURE OF A WOODEN BOARD PROVIDED WITH A DECORATIVE LAYER	(51) B60F 5/02 B64C 37/00 B64C 27/26 B64C 29/00 B64C 39/04 B64C 39/06 B64C 39/12
(73) Hueck Folien Gesellschaft m.b.H. Joanneum Research Forschungsgesellschaft mbH	(73) Flooring Technologies Ltd. (72) Kalwa, Norbert	
(72) SCHMIDEGG, Klaus STEINDORFER, Michael TRASSL, Stefan SCHMIDT, Volker STADLOBER, Barbara BELEGRATIS, Maria	(51) B60B 33/00 (11) EP3548302 (21) EP17822154.5 (47) 20.04.2022 (87) EP2017080789 07.06.2018 (22) 29.11.2017 (54) CASTER WITH BRAKING DEVICE (73) GROSS + FROELICH GMBH & CO. KG (72) VON BORDELIUS, Ralph ROTTENAU, Hans-Wilhelm	(11) EP3698995 (21) EP20158443.0 (47) 20.04.2022 (22) 20.02.2020 (54) VTOL FIXED-WING FLYING PLATFORM SYSTEM (73) Shanghai Autoflight Co., Ltd. (72) TIAN, Yu (31) 201916281020 (32) 20.02.2019 (33) United States of America
(31) 4542014 (32) 10.06.2014 (33) Austria	(31) 102016123080 (32) 30.11.2016 (33) Germany	(51) B60G 9/02 B60G 1/04 B60G 11/16 A01D 41/02 B62D 7/04 A01B 69/04 A01D 43/063 A01D 67/00 B62D 9/00
(51) B42D 25/351 B41M 3/00 B41M 3/14 B42D 25/378	(51) B60C 5/01 B60C 5/00 B60C 9/22	(11) EP3756911 (21) EP20181742.6 (47) 20.04.2022 (22) 23.06.2020 (54) VEHICLE WITH A SWING AXLE AND A STABILISATION MECHANISM FOR THE SWING AXLE (73) Lely Patent N.V. (72) VISSER, Arend Cornelis DE JONG, Ruth VERWEIJ, Rochus Johannes
(11) EP3527403 (21) EP19156032.5 (47) 20.04.2022 (22) 07.02.2019 (54) MULTILAYERED PRINTED MATTER (73) Mimaki Engineering Co., Ltd. (72) HORIUCHI, Yuhei (31) 2018025447 (32) 15.02.2018 (33) Japan	(11) EP3640047 (21) EP18816800.9 (47) 20.04.2022 (87) JP2018016840 20.12.2018 (22) 25.04.2018 (54) TIRE (73) Bridgestone Corporation (72) FUDEMOTO, Hiroyuki KYO, Soichi (31) 2017115089 (32) 12.06.2017 (33) Japan	(11) EP3756911 (21) EP20181742.6 (47) 20.04.2022 (22) 23.06.2020 (54) VEHICLE WITH A SWING AXLE AND A STABILISATION MECHANISM FOR THE SWING AXLE (73) Lely Patent N.V. (72) VISSER, Arend Cornelis DE JONG, Ruth VERWEIJ, Rochus Johannes
(51) B44B 5/00 B44C 1/24 B44C 5/04 B29C 59/02 B29C 59/04 B29C 70/58	(51) B60C 11/03 B60C 11/12 B60C 11/11 B60C 11/13	(31) 2023388 (32) 26.06.2019 (33) Netherlands
(11) EP3702172 (21) EP19160259.8 (47) 20.04.2022 (22) 01.03.2019 (54) METHOD FOR PRODUCING A MULTILAYER STRUCTURED PANEL AND PANEL MANUFACTURED BY MEANS OF THIS METHOD (73) Flooring Technologies Ltd. (72) Oldorff, Frank	(11) EP3636458 (21) EP18813146.0 (47) 20.04.2022 (87) JP2018017406 13.12.2018 (22) 01.05.2018 (54) TIRE (73) Bridgestone Corporation (72) ISHIHARA, Nobuyuki MATSUNAGA, Midori (31) 2017112843 (32) 07.06.2017 (33) Japan	(31) 2023388 (32) 26.06.2019 (33) Netherlands
(51) B44C 5/04 (11) EP3686029 (21) EP19153171.4 (47) 20.04.2022 (22) 23.01.2019 (54) METHOD FOR PRODUCING AN ABRASION-RESISTANT AND WATERPROOF MULTILAYER PANEL (73) Flooring Technologies Ltd. (72) Lehnhoff, Ingo Kalwa, Norbert Oldorff, Frank	(11) EP3636458 (21) EP18813146.0 (47) 20.04.2022 (87) JP2018017406 13.12.2018 (22) 01.05.2018 (54) TIRE (73) Bridgestone Corporation (72) ISHIHARA, Nobuyuki MATSUNAGA, Midori (31) 2017112843 (32) 07.06.2017 (33) Japan	(31) 2023388 (32) 26.06.2019 (33) Netherlands
(51) B44C 5/04 B05D 1/12 B05D 3/02 B05D 7/08 B05D 7/00 B05D 1/30 B05D 3/12 B05D 7/10	(51) B60D 1/06 B60D 1/52 B60D 1/60 B60D 1/58	(11) EP3765316 (21) EP20708604.2 (47) 20.04.2022 (87) IB2020000024 20.08.2020 (22) 11.02.2020 (54) VEHICLE SUSPENSION HAVING CONTROLLABLE GROUND CLEARANCE AND RIGIDITY (73) Gavrilov, Aleksei V. (72) Gavrilov, Aleksei V. (31) 2019103888 (32) 12.02.2019 (33) Russian Federation
(11) EP3888933 (21) EP21175732.3	(11) EP3683070 (21) EP19152613.6 (47) 20.04.2022 (22) 18.01.2019 (54) PARTS FOR A DETACHABLE TRAILER HITCH AND TRAILER HITCH (73) ACPS Automotive GmbH (72) Földesi, Bernát Recker, Dirk	(11) EP3463940 (21) EP17725249.1 (47) 20.04.2022 (87) EP2017062388

14.12.2017	(54) ROLLER BLIND ARRANGEMENT WITH	(11) EP3683081
(22) 23.05.2017	GUIDE STRIPS FOR ROLLER BLIND	(21) EP19210322.4
(54) METHOD AND MOTOR VEHICLE	MATERIAL	(47) 20.04.2022
COMPRISING A CONTROL DEVICE	(73) Webasto SE	(22) 20.11.2019
FOR CONTROLLING AT LEAST ONE	(72) STEINER, Erwin	(54) VEHICLE-MOUNTED SOLAR POWER
VIBRATION DAMPER OF THE MOTOR	STEINBERGER, Andreas	GENERATION DEVICE
VEHICLE	JOSWIG, Patrick	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
(73) Volkswagen Aktiengesellschaft	DIETL, Rudolf	(72) GO, Koichi
(72) DE BEER, Frank	(31) 102018101557	(31) 2019007589
BÄRECKE, Frank	1020171117632	(32) 21.01.2019
PÜTZSCHLER, Jürgen	(32) 24.01.2018	(33) Japan
KUKLA, Stefan	03.08.2017	(51) B60K 35/00
(31) 102016209929	(33) Germany	B60K 37/02
(32) 06.06.2016	Germany	(11) EP3848221
(33) Germany	(51) B60K 15/035	(21) EP20178755.3
(51) B60J 1/02	F02M 25/08	(47) 20.04.2022
B32B 17/10	(11) EP3677464	(22) 08.06.2020
(11) EP3826866	(21) EP19020661.5	(54) DISPLAY DEVICE FOR VEHICLE
(21) EP19719528.2	(47) 20.04.2022	(73) LG Electronics Inc.
(47) 20.04.2022	(22) 25.11.2019	(72) SON, Sang-Hyeun
(87) EP2019060842	(54) FUEL CONTAINER VENTILATION	SONG, Seunghwan
30.01.2020	SYSTEM	SHIM, In Koo
(22) 29.04.2019	(73) Skoda Auto a.s.	(31) 20200002809
(54) VEHICLE WINDOW UNIT WITH	(72) Windrich, Dirk	(32) 08.01.2020
CURVATURE-DEPENDENT TINTING	Schirmer, Ralph	(33) Korea (Republic)
(73) Saint-Gobain Glass France	Valenta, Petr	(51) B60K 35/00
(72) ARNDT, Martin	(31) 20183566	B60K 37/02
KRONHARDT, Heinrich	(32) 27.11.2018	B60R 7/04
(31) 18185740	(33) Czech Republic	B60R 11/02
(32) 26.07.2018	(51) B60K 15/04	(11) EP3848223
(33) European Patent Office (EPO)	(11) EP2994329	(21) EP20183383.7
(51) B60J 5/04	(21) EP14794587.7	(47) 20.04.2022
B60R 16/02	(47) 20.04.2022	(22) 01.07.2020
(11) EP3808581	(87) US2014037716	(54) DISPLAY APPARATUS AND STORAGE
(21) EP20200745.6	13.11.2014	FOR VEHICLE
(47) 20.04.2022	(22) 12.05.2014	(73) LG Electronics Inc.
(22) 08.10.2020	(54) FUEL-DISPENSING NOZZLE	(72) SONG, Seunghwan
(54) VEHICLE DOOR STRUCTURE AND	INHIBITOR	KANG, Seung Mo
COVER MODULE	(73) Stant USA Corp.	DIBOINE, Romain
(73) YAZAKI CORPORATION	(72) GROOM, J Bradley	(31) 20200002711
(72) Hamada, Ryo	(31) 201461937730 P	(32) 08.01.2020
(31) 2019189680	201361822243 P	(33) Korea (Republic)
(32) 16.10.2019	(32) 10.02.2014	(51) B60K 35/00
(33) Japan	10.05.2013	G01P 15/08
(51) B60J 5/04	(33) United States of America	G01D 7/08
B62D 25/02	United States of America	G12B 11/00
B62D 25/04	(51) B60K 15/07	G07C 5/08
(11) EP3750726	F17C 1/00	B60K 37/02
(21) EP20162989.6	F17C 13/08	(11) EP3375654
(47) 20.04.2022	B60K 1/04	(21) EP15908224.7
(22) 13.03.2020	(11) EP3820725	(47) 20.04.2022
(54) VEHICLE SIDE BODY STRUCTURE,	(21) EP19737843.3	(87) ES2015070810
VEHICLE BODY STRUCTURE, AND	(47) 20.04.2022	18.05.2017
VEHICLE	(87) FR2019051331	(22) 11.11.2015
(73) Mazda Motor Corporation	16.01.2020	(54) DEVICE FOR DISPLAYING MARKINGS
(72) GENDO, Toshiyuki	(22) 05.06.2019	(73) Manso Aguado, Manuel Alejandro
NAKAMURA, Takeshi	(54) FIXATION DEVICE OF GAS TANK, LIKE	(72) Manso Aguado, Manuel Alejandro
YAMAZAKI, Tadashi	HYDROGEN GAS TANK, IN A VEHICLE	(51) B60K 35/00
(31) 2019110883	(73) PSA Automobiles SA	G05D 1/02
(32) 14.06.2019	(72) LEMBERT, Patricia	B60R 16/02
(33) Japan	PERU, Marc	B62D 15/02
(51) B60J 7/00	(31) 1856288	B60W 30/06
(11) EP3661777	(32) 09.07.2018	G05D 1/00
(21) EP18737540.7	(33) France	B60W 50/08
(47) 20.04.2022	(51) B60K 16/00	G08B 25/01
(87) EP2018067293	B60L 8/00	B60K 37/06
07.02.2019	B60L 58/20	(11) EP3594043
(22) 27.06.2018	H01M 10/46	(21) EP19193841.4

(47) 20.04.2022	(21) EP18713204.8	B60L 58/10
(22) 22.05.2015	(47) 20.04.2022	B60L 58/18
(54) SYSTEM FOR CONTROLLING A VEHICLE	(87) EP2018057291	B60L 58/21
(73) WAYMO LLC	27.09.2018	(11) EP3463963
(72) NEMEC, Philip	(22) 22.03.2018	(21) EP17728609.3
AULA, Anne Kristiina	(54) VEHICLE WITH SMART TOUCH	(47) 20.04.2022
LUDWICK, Christopher	(73) FM Marketing GmbH	(87) GB2017051565
LU, David Tse-zhou	(72) MAIER, Ferdinand	07.12.2017
AHN, YooJung	(31) 102017106212	(22) 01.06.2017
CULLINANE, Brian Douglas	(32) 22.03.2017	(54) ELECTRIC VEHICLE BATTERY
JOHNSON, Calvin Karl	(33) Germany	MANAGEMENT APPARATUS AND
SHANE, Albert	(51) B60K 37/06	METHOD
(31) 201414455215	B60W 50/08	(73) Arrival Limited
201462002319 P	B60W 50/14	(72) LESZCZYNSKI, Mirek
(32) 08.08.2014	A01D 34/00	(31) 201609685
23.05.2014	(11) EP3715167	(32) 02.06.2016
(33) United States of America	(21) EP20164095.0	(33) United Kingdom
United States of America	(47) 20.04.2022	(51) B60L 7/26
(51) B60K 37/06	(22) 19.03.2020	(11) EP2788219
(11) EP3118049	(54) RIDING LAWN EQUIPMENT ENGINE	(21) EP12795425.3
(21) EP16001491.6	SPEED CONTROL MODULE	(47) 20.04.2022
(47) 20.04.2022	(73) Deere & Company	(87) EP2012074258
(22) 05.07.2016	(72) Braun, Jesse	13.06.2013
(54) DEVICE AND METHOD FOR SUPPORTING A DRIVER OF A VEHICLE, IN PARTICULAR A COMMERCIAL VEHICLE	Zwieg, Kevin M	(22) 03.12.2012
(73) MAN Truck & Bus SE	Slaughter, Matthew	(54) ESTIMATION OF RECUPERATED
(72) Wölfel, Christiane	Glover, Ryan J	ENERGY
Adlhart, Helmut	Mayefske, Mark	(73) Renault s.a.s
Glohr, Tobias	(31) 201916370183	(72) BRUNEAU, Aymeric
Mohra, Holger	(32) 29.03.2019	GUILBERT, Bruno
Eisner, Johannes	(33) United States of America	AZZI, Hamid
Zipf, Christoph	(51) B60L 3/04	(31) 1161136
Fritz, Maria	B60L 53/30	(32) 05.12.2011
Wahn, Nina Alexandra	H02M 1/10	(33) France
Wenninger, Dominik	H02J 7/00	(51) B60L 50/10
(31) 102015009027	(11) EP3658403	B60L 50/50
(32) 11.07.2015	(21) EP18742516.0	(11) EP3213953
(33) Germany	(47) 20.04.2022	(21) EP17154644.3
(51) B60K 37/06	(87) EP2018070124	(47) 20.04.2022
B60K 35/00	31.01.2019	(22) 03.02.2017
(11) EP3665029	(22) 25.07.2018	(54) HYBRID ELECTRIC LOCOMOTIVE
(21) EP18759754.7	(54) ELECTRICAL VEHICLE CHARGING	(73) Kabushiki Kaisha Toshiba
(47) 20.04.2022	DEVICE FOR CHARGING AN	(72) KIKKAWA, Kenichi
(87) IB2018055924	ELECTRICAL VEHICLE WITH A DC	KUWANO, Yuuki
14.02.2019	VOLTAGE	KONDO, Atsumi
(22) 07.08.2018	(73) ABB Schweiz AG	KATO, Jin
(54) VIRTUAL HUMAN-MACHINE INTERFACE SYSTEM AND CORRESPONDING VIRTUAL HUMAN-MACHINE INTERFACE METHOD FOR A VEHICLE	(72) RAAIJMAKERS, Stefan Joannes	(31) 2016042211
(73) Marelli Automotive Lighting Italy S.p.A.	(31) 17183299	(32) 04.03.2016
(72) CICCARELLA, Sebastiano	(32) 26.07.2017	(33) Japan
VAI, Carlo	(33) European Patent Office (EPO)	(51) B60L 50/50
NOVELLO, Andrea	(51) B60L 5/04	B60L 50/10
GALLO, Carlo	B60L 5/39	B60L 58/14
(31) 201700091628	B60M 1/28	(11) EP3476647
(32) 08.08.2017	B60M 1/30	(21) EP17905917.5
(33) Italy	G05B 19/042	(47) 20.04.2022
(51) B60K 37/06	B65G 43/02	(87) CN2017101685
B60K 35/00	(11) EP3741606	07.03.2019
G06F 3/0482	(21) EP19176358.0	(22) 14.09.2017
G06F 3/044	(47) 20.04.2022	(54) POWER SUPPLY SYSTEM FOR
H03K 17/96	(22) 24.05.2019	ELECTRIC VEHICLE, CONTROL
(11) EP3600939	(54) DEVICE AND METHOD FOR	METHOD AND ELECTRIC VEHICLE
	DETECTING WEAR ON A CONVEYING	(73) Suzhou DSM Green Power Ltd.
	SYSTEM WITH SLIDING CONTACTS	(72) LI, Jingyu
	(73) Siemens Aktiengesellschaft	WU, Walter
	(72) KÖNIG, Frank	(31) 201710779935
	(51) B60L 7/18	(32) 01.09.2017
	B60L 7/16	(33) China
	B60L 53/80	(51) B60L 53/30
	B60L 58/12	B60L 53/16

(11) EP3691930	(22) 03.09.2020	(22) 13.01.2021
(21) EP18785500.2	(54) VEHICLE FOR TRANSPORTING LIVING ANIMALS	(54) ELECTRICAL CONNECTION BOX AND COVER STRUCTURE FOR ELECTRICAL CONNECTION PART
(47) 20.04.2022	(73) Carrosseriebouw Van Ravenhorst B.V.	(73) Yazaki Corporation
(87) DE2018100795	(72) VAN RAVENHORST, Dirk	(72) KOBAYASHI, Kazuki
11.04.2019	(31) 2023757	TAKAHASHI, Chihiro
(22) 19.09.2018	(32) 03.09.2019	OISHI, Shinya
(54) ELECTRIC CONNECTION DEVICE FOR ELECTRIC OR HYBRID MOTOR VEHICLES	(33) Netherlands	(31) 2020005018
(73) Kiekert AG	(51) B60Q 1/26	(32) 16.01.2020
(72) TÖPFER, Claus	B60Q 1/34	(33) Japan
SCHLABS, Winfried	B60Q 1/40	(51) B60R 19/48
SONNENSCHNEIN, Tim	B60Q 1/44	B60R 19/18
DJEDOVIC, Benjamin	B60Q 11/00	(11) EP3868611
(31) 102017123208	(11) EP3724028	(21) EP21157183.1
(32) 06.10.2017	(21) EP18807087.4	(47) 20.04.2022
(33) Germany	(47) 20.04.2022	(22) 15.02.2021
(51) B60N 2/28	(87) EP2018082709	(54) REINFORCED REAR STRUCTURE OF A MOTOR VEHICLE
(11) EP2540562	20.06.2019	(73) Renault s.a.s
(21) EP12174065.8	(22) 27.11.2018	(72) DIDIER, Sebastien
(47) 20.04.2022	(54) SIGNALLING DEVICE WITH INTEGRATED ACCELEROMETER	(31) 2001731
(22) 28.06.2012	DOOR ON THE BACK OF A USER OF A LOCOMOTION MACHINE	(32) 21.02.2020
(54) CHILD SEAT	(73) AIT EL HADJ, Mohamed	(33) France
(73) Wonderland Switzerland AG	(72) AIT EL HADJ, Mohamed	(51) B60R 21/00
(72) Gillett, Sharon A.	(31) 1771364	G08G 1/16
Gillett, Michael H.	(32) 14.12.2017	H04N 5/232
Hartenstine, Curtis M.	(33) France	B62D 15/02
(31) 201161571637 P	(51) B60Q 3/54	(11) EP3061655
(32) 01.07.2011	B60Q 3/62	(21) EP14856148.3
(33) United States of America	B60Q 3/64	(47) 20.04.2022
(51) B60N 2/28	G02B 6/00	(87) JP2014078122
(11) EP3628537	(11) EP2803531	30.04.2015
(21) EP19202215.0	(21) EP14167179.2	(22) 22.10.2014
(47) 20.04.2022	(47) 20.04.2022	(54) AUTOMATIC PARKING CONTROL DEVICE, AND PARKING ASSIST DEVICE
(22) 18.08.2015	(22) 06.05.2014	(73) Clarion Co., Ltd.
(54) CHILD SEAT FOR A MOTOR VEHICLE	(54) Laminar device for illuminating the interior of a vehicle	(72) IMAI, Masato
(73) CYBEX GmbH	(73) Lisa Dräxlmaier GmbH	SAKATA, Masao
(72) POS, Martin	(72) Bayersdorfer, Bernhard	OKADA, Takashi
(31) 202014104056 U	(31) 102013008433	(31) 2013220248
(32) 29.08.2014	(32) 17.05.2013	(32) 23.10.2013
(33) Germany	(33) Germany	(33) Japan
(51) B60N 3/10	(51) B60R 13/02	(51) B60R 21/235
(11) EP3484748	(11) EP3678900	C08K 3/36
(21) EP17737257.0	(21) EP18762094.3	C09D 183/04
(47) 20.04.2022	(47) 20.04.2022	(11) EP3653671
(87) EP2017067050	(87) EP2018073630	(21) EP18832595.5
18.01.2018	07.03.2019	(47) 20.04.2022
(22) 07.07.2017	(22) 03.09.2018	(87) JP2018021647
(54) HOLDER DEVICE FOR A VEHICLE INTERIOR AND METHOD FOR DAMPING A MOVEMENT OF A RECEIVING SECTION OF A HOLDER DEVICE	(54) INSERT FOR A RUN SLIDE FOR A VEHICLE WINDOW	17.01.2019
(73) HS Products Engineering GmbH	(73) Hutchinson	(22) 06.06.2018
(72) SPECHT, Martin	(72) DAVID, Pierre	(54) ADDITION-CURABLE SILICONE RUBBER COMPOSITION AND AIR BAG
HUBER, Dietmar Christian	PETIT, Emmanuel	(73) Shin-Etsu Chemical Co., Ltd.
(31) 102016112747	PROCHASSON, Benoît	(72) MIZUSHIMA, Hidenori
(32) 12.07.2016	(31) 1758130	ASHIDA, Ryo
(33) Germany	(32) 04.09.2017	UBUKATA, Shigeru
(33) Germany	(33) France	(31) 2017137833
(51) B60P 3/04	(51) B60R 16/023	(32) 14.07.2017
B60H 1/00	H02G 3/14	(33) Japan
B60P 3/20	H05K 5/02	(51) B60S 1/56
F25D 17/08	E05D 3/04	G02B 27/00
A01K 45/00	E05D 7/10	(11) EP3638551
A01K 1/00	H05K 5/03	(21) EP18817151.6
(11) EP3789243	(11) EP3851334	(47) 20.04.2022
(21) EP20194282.8	(21) EP21151335.3	(87) NO2018050163
(47) 20.04.2022	(47) 20.04.2022	

20.12.2018	(54) METHOD FOR DIAGNOSTICS ON	(11) EP3511218
(22) 15.06.2018	A BRAKING SYSTEM OF A MOTOR	(21) EP17848660.1
(54) APPARATUS FOR CLEANING OBJECT	VEHICLE, AND CORRESPONDING	(47) 20.04.2022
AN SURFACE	BRAKING SYSTEM	(87) JP2017031487
(73) Romoline AS	(73) Audi AG	15.03.2018
(72) MONRAD, Rolf	(72) VOLKMAR, Kai	(22) 31.08.2017
(31) 20170980	(31) 102017202813	(54) VEHICULAR TURNING CONTROL
(32) 15.06.2017	(32) 22.02.2017	SYSTEM
(33) Norway	(33) Germany	(73) NTN Corporation
(51) B60S 9/00	(51) B60T 15/04	(72) SUZUKI, Yuta
B62D 55/06	G05G 1/04	(31) 2016174287
B66C 23/36	G05G 5/00	(32) 07.09.2016
B66C 23/80	B60T 7/10	(33) Japan
B66C 23/76	(11) EP3795438	(51) B60W 30/02
(11) EP3279044	(21) EP19197696.8	B60W 10/04
(21) EP17177448.2	(47) 20.04.2022	B60W 10/11
(47) 20.04.2022	(22) 17.09.2019	B60W 10/18
(22) 22.06.2017	(54) HAND BRAKE VALVE	B60W 40/10
(54) MOBILE WORK MACHINE	(73) ZF CV Systems Europe BV	(11) EP3415388
(73) Liebherr-Werk Nenzing GmbH	(72) ZABIEGLO, Wojciech	(21) EP16908819.2
(72) Mietschnig, Walter	TANAKA, Nobuyuki	(47) 20.04.2022
(31) 202016004687 U	SWIATEK, Pawel	(87) JP2016070708
(32) 29.07.2016	DRELICH, Lukasz	18.01.2018
(33) Germany	(51) B60T 17/08	(22) 13.07.2016
(51) B60T 7/20	(11) EP3762268	(54) VEHICLE CONTROL DEVICE
B60T 13/26	(21) EP19711528.0	(73) Mazda Motor Corporation
B60T 13/68	(47) 20.04.2022	(72) OGAWA, Daisaku
B60R 25/08	(87) EP2019055893	UMETSU, Daisuke
(11) EP3481685	12.09.2019	SUNAHARA, Osamu
(21) EP17740067.8	(22) 08.03.2019	HIWATASHI, Keiichi
(47) 20.04.2022	(54) BRAKE ACTUATOR	TAKAHARA, Yasunori
(87) GB2017051967	(73) Faiveley Transport Nordic AB	OHISA, Chikako
11.01.2018	(72) PERSSON, Tobias	(51) B60W 30/16
(22) 04.07.2017	REHNBERG, Gustav	F02D 41/12
(54) VEHICLE BRAKING SYSTEM	(31) 1850263	B60W 30/17
(73) Haldex Brake Products AB	(32) 09.03.2018	B60W 30/18
(72) BRIGHTMAN, Neil	(33) Sweden	G06K 9/00
HARRISON, Dudley, John	(51) B60W 10/08	(11) EP3702228
MELLINGS, Carl	B60W 10/18	(21) EP17929884.9
PIECZKO, Mark	B60W 20/40	(47) 20.04.2022
(31) 201611713	B60W 30/18	(87) JP2017038789
(32) 05.07.2016	B60W 30/182	02.05.2019
(33) United Kingdom	B60W 50/08	(22) 26.10.2017
(51) B60T 8/17	(11) EP3212480	(54) CONTROL METHOD AND CONTROL
H01F 7/18	(21) EP15793924.0	DEVICE FOR AUTONOMOUS VEHICLE
(11) EP3199415	(47) 20.04.2022	(73) Nissan Motor Co., Ltd.
(21) EP17152780.7	(87) SE2015051089	(72) MIYAGAWA, Tomohiro
(47) 20.04.2022	06.05.2016	(51) B60W 30/18
(22) 24.01.2017	(22) 15.10.2015	B60K 31/00
(54) SYSTEMS AND METHODS FOR	(54) METHOD AND SYSTEM FOR	B60W 10/00
SOLENOID STATE DETERMINATION	DECELERATING A VEHICLE	B60W 10/06
(73) Goodrich Corporation	(73) Scania CV AB	B60W 20/00
(72) KORDIK, Michael	(72) SUNDEN, Fredrik	B60W 10/02
SUMMERS, Paul	LIWELL, Mats	B60K 6/40
(31) 201615006351	NILSSON, Mattias	B60W 10/08
(32) 26.01.2016	AFRAM, Kourie	B60W 20/40
(33) United States of America	(31) 1451290	B60W 20/15
(51) B60T 13/74	(32) 29.10.2014	(11) EP3345798
B60T 17/22	(33) Sweden	(21) EP15902886.9
B60T 1/06	(51) B60W 30/02	(47) 20.04.2022
F16D 49/00	B60K 17/356	(87) JP2015004444
(11) EP3585666	B60T 8/1755	09.03.2017
(21) EP18703241.2	B60L 15/20	(22) 01.09.2015
(47) 20.04.2022	B60K 1/02	(54) VEHICLE TRAVEL CONTROL METHOD
(87) EP2018051716	B60K 7/00	AND VEHICLE TRAVEL CONTROL
30.08.2018	B60W 40/06	DEVICE
(22) 24.01.2018	B60W 40/068	(73) Nissan Motor Co., Ltd.
	B60W 30/045	(72) IWAMOTO, Tadashi

(51) B60W 30/18 B60W 50/14	(73) Baidu USA LLC	BIGRAS, Martin
(11) EP2899083	(72) ZHOU, Jinyun	GOULET, Stéphane
(21) EP14003893.6	TAO, Jiaming	(31) 3053303
(47) 20.04.2022	HU, Jiangtao	(32) 28.08.2019
(22) 19.11.2014	LI, Dong	(33) Canada
(54) Method and driver assistance system for assisting a driver of a motor vehicle when changing lanes	ZHANG, Liangliang	(51) B61G 9/04
(73) MAN Truck & Bus SE	(31) 201816168709	(11) EP3760508
(72) Schwertberger, Walter	(32) 23.10.2018	(21) EP18880619.4
Kraus, Sven	(33) United States of America	(47) 20.04.2022
Reule, Michael	(51) B61C 17/04	(87) CN2018118557
Römersperger, Xaver	(11) EP3442843	31.05.2019
Dörner, Karlheinz	(21) EP17727825.6	(22) 30.11.2018
Völl, Sebastien	(47) 20.04.2022	(54) COUPLER TELESCOPIC APPARATUS AND COUPLER
(31) 102014001115	(87) EP2017062266	(73) CRRRC Qingdao Sifang Rolling Stock Research Institute Co., Ltd.
(32) 28.01.2014	21.12.2017	(72) TIAN, Qianqian
(33) Germany	(22) 22.05.2017	LIU, Hui
(51) B60W 40/076	(54) RAIL VEHICLE WITH AN OPERATOR COMPARTMENT	WANG, Guangchao
B60W 10/06	(73) Siemens Mobility GmbH	(31) 201810677483
B60W 10/20	(72) KITZEL, Hans-Peter	(32) 27.06.2018
B60W 10/22	SCHMAL, Viktor	(33) China
B60W 30/12	BREMEKAMP, Udo	(51) B61L 23/04
B60W 30/14	HEMMERICH, Dirk	(11) EP3135555
G05D 1/02	(31) 102016210748	(21) EP16186434.3
G05D 1/08	(32) 16.06.2016	(47) 20.04.2022
G06K 9/00	(33) Germany	(22) 30.08.2016
B60W 40/11	(51) B61D 1/04	(54) ROUTE EXAMINING SYSTEM AND METHOD
(11) EP3330147	B61D 37/00	(73) Transportation IP Holdings, LLC
(21) EP17184256.0	(11) EP3251912	(72) BROWN, Timothy Robert
(47) 20.04.2022	(21) EP16172510.6	MATTHEWS, Brett Alexander
(22) 01.08.2017	(47) 20.04.2022	STATON, Brian Lee
(54) METHOD AND APPARATUS FOR GENERATING A DRIVING ROUTE FOR AN AUTONOMOUS VEHICLE	(22) 01.06.2016	FRIES, Jeffery Michael
(73) Samsung Electronics Co., Ltd.	(54) RAIL VEHICLE WITH DIFFERENT PASSENGER ZONES	PLOTNIKOV, Yuri Alexeyevich
(72) Jang, Cheolhun	(73) Bombardier Transportation GmbH	POONACHA, Samhitha Palanganda
(31) 20160161138	(72) Palm, Johan	BOVERMAN, Gregory
(32) 30.11.2016	Jakobsson, Marcus	NOFFSINGER, Joseph Forrest
(33) Korea (Republic)	Wennerblom, Anna	WHEELER, Frederick Wilson
(51) B60W 50/14	Persson, Erik	FRANGIEH, Tannous
G01C 21/34	Fhager, Björn	NAYERI, Majid
(11) EP3363707	(51) B61D 17/02	KUMAR, Ajith Kuttannair
(21) EP18305051.7	B61F 19/04	(31) 201514841209
(47) 20.04.2022	(11) EP3628562	(32) 31.08.2015
(22) 22.01.2018	(21) EP19196201.8	(33) United States of America
(54) METHOD FOR DETERMINING AN AREA REACHABLE BY A VEHICLE USING A DYNAMIC MODEL AND AN ASSOCIATED GRAPH	(47) 20.04.2022	(51) B61L 27/00
(73) IFP Energies nouvelles	(22) 09.09.2019	(11) EP3487748
(72) DE NUNZIO, Giovanni	(54) RAILWAY VEHICLE	(21) EP17771993.7
THIBAULT, Laurent	(73) Hitachi, Ltd.	(47) 20.04.2022
(31) 1751262	(72) TAKAHARA, Kyouji	(87) EP2017072292
(32) 16.02.2017	MORITA, Kiyoshi	22.03.2018
(33) France	BADALOTTI, Timoteo	(22) 06.09.2017
(51) B60W 60/00	KOREISHI, Kazuto	(54) MONITORING INFRASTRUCTURE FACILITIES BY MEANS OF GEO-CLUSTERING
B60W 30/12	MATSUI, Akitoshi	(73) Siemens Mobility GmbH
G05D 1/02	(31) 201815777	(72) AUFDERHEIDE, Helge
(11) EP3643575	(32) 27.09.2018	(31) 102016217883
(21) EP19194977.5	(33) United Kingdom	(32) 19.09.2016
(47) 20.04.2022	(51) B61D 17/08	(33) Germany
(22) 02.09.2019	(11) EP3786024	(51) B62B 3/00
(54) A TWO-STEP REFERENCE LINE SMOOTHING METHOD TO MIMIC HUMAN DRIVING BEHAVIORS FOR AUTONOMOUS DRIVING CARS	(21) EP20193170.6	A45C 13/26
	(47) 20.04.2022	B62B 5/06
	(22) 27.08.2020	(11) EP3245894
	(54) SIDE WALL FOR A RAIL VEHICLE BODY	(21) EP16198380.4
	(73) Bombardier Transportation GmbH	(47) 20.04.2022
	(72) LESSARD, Nancy	(22) 11.11.2016
	MORNEAU, Gaston	(54) OPERATING HANDLE DEVICE
	GOSSELIN, Yvan	
	HIGGINS, Danny	

(73) Daiichi Kosho Ltd.	(33) United States of America	(54) SIDE SILL STRUCTURE FOR VEHICLE
(72) Yamamoto, Hideo	(51) B62D 15/02	(73) Kia Corporation
(31) 2016101725	B60W 30/10	HYUNDAI MOTOR COMPANY
(32) 20.05.2016	B60W 10/184	(72) KIM, Hyun Sik
(33) Japan	B60W 10/20	(31) 20190168224
(51) B62D 1/16	B60T 8/1755	(32) 16.12.2019
(11) EP3720754	B62D 6/00	(33) Korea (Republic)
(21) EP18826968.2	(11) EP3902734	(51) B62D 65/02
(47) 20.04.2022	(21) EP19845720.2	B62D 31/02
(87) EP2018083361	(47) 20.04.2022	B62D 31/04
13.06.2019	(87) IB2019061405	(11) EP3659903
(22) 03.12.2018	02.07.2020	(21) EP17921832.6
(54) SPINDLE AND STEERING COLUMN	(22) 27.12.2019	(47) 20.04.2022
ASSEMBLY HAVING SAME	(54) AUTOMOTIVE ELECTRONIC LATERAL	(87) CN2017117620
(73) thyssenkrupp Presta AG	DYNAMICS CONTROL SYSTEM FOR A	21.02.2019
thyssenkrupp AG	SELF-DRIVING MOTOR VEHICLE	(22) 21.12.2017
(72) PICHONNAT, Christian	(73) C.R.F. Società Consortile per Azioni	(54) SYSTEM AND METHOD FOR
GEISELBERGER, Thomas	(72) RAFFONE, Enrico	ASSEMBLING DOUBLE-DECKER
YOHO, Justin	REI, Claudio	VEHICLE BODY
(31) 201715833585	(31) 201800021244	(73) CRRRC Tangshan Co., Ltd.
(32) 06.12.2017	(32) 27.12.2018	(72) LIANG, Wenzhong
(33) United States of America	(33) Italy	MAO, Mao
(51) B62D 5/00	(51) B62D 21/15	LIU, Dongjun
B62D 5/04	B62D 25/20	TIAN, Xinli
(11) EP3492344	B60K 1/04	ZHANG, Mingwei
(21) EP18209049.8	(11) EP3747737	FENG, Xiaozhong
(47) 20.04.2022	(21) EP20162461.6	WANG, Wenxiao
(22) 29.11.2018	(47) 20.04.2022	(31) 201710693833
(54) A VEHICLE WITH A VARIABLE	(22) 11.03.2020	(32) 14.08.2017
STEERING RATIO	(54) LOWER VEHICLE-BODY STRUCTURE	(33) China
(73) CNH Industrial Italia S.p.A.	OF A VEHICLE, VEHICLE-BODY	(51) B62H 3/00
(72) BENEVELLI, Alessandro	STRUCTURE OF A VEHICLE, AND	B62H 5/00
(31) 201700138256	VEHICLE	B62H 5/20
(32) 30.11.2017	(73) Mazda Motor Corporation	(11) EP3378740
(33) Italy	(72) NAKAYAMA, Nobuyuki	(21) EP16865716.1
(51) B62D 6/00	HATANO, Kazuhisa	(47) 20.04.2022
(11) EP3647158	MATSUDA, Yamato	(87) CN2016105548
(21) EP19205602.6	KUBOTA, Harumitsu	26.05.2017
(47) 20.04.2022	(31) 2019107389	(22) 12.11.2016
(22) 28.10.2019	(32) 07.06.2019	(54) BICYCLE PARKING MANAGEMENT
(54) STEERING SYSTEM AND CONTROL	(33) Japan	SYSTEM AND METHOD WITHOUT
METHOD FOR A STEERING SYSTEM	(51) B62D 21/15	LOCKING PILES
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	B62D 25/20	(73) Jiangsu Hongpu Technology Ltd.
(72) TAKASHIMA, Toru	B60K 1/04	(72) XIE, Wenyu
NAKANO, Yusuke	(11) EP3747738	XIE, Ruichu
(31) 2018204091	(21) EP20162462.4	XIE, Zikai
(32) 30.10.2018	(47) 20.04.2022	(31) 201610309964
(33) Japan	(22) 11.03.2020	201510775802
(51) B62D 15/02	(54) LOWER VEHICLE-BODY STRUCTURE	(32) 11.05.2016
B60W 30/06	OF AN ELECTRIC VEHICLE, VEHICLE-	16.11.2015
B60W 30/095	BODY STRUCTURE OF AN ELECTRIC	(33) China
B60W 50/00	VEHICLE, AND ELECTRIC VEHICLE	China
G06N 5/00	(73) Mazda Motor Corporation	(51) B62J 1/22
(11) EP3568334	(72) KOUNO, Katsuhito	B62J 1/26
(21) EP17826324.0	NAKAYAMA, Nobuyuki	B62J 1/00
(47) 20.04.2022	KUBOTA, Harumitsu	(11) EP3630590
(87) JP2017043380	TAKEBAYASHI, Toshihiro	(21) EP18725802.5
19.07.2018	NAKAGIRI, Ryohei	(47) 20.04.2022
(22) 28.11.2017	(31) 2019107388	(87) EP2018062498
(54) SYSTEM, METHOD AND NON-	(32) 07.06.2019	06.12.2018
TRANSITORY COMPUTER READABLE	(33) Japan	(22) 15.05.2018
STORAGE MEDIUM FOR PARKING	(51) B62D 25/02	(54) BICYCLE SADDLE
VEHICLE	B62D 27/02	(73) Ergon International GmbH
(73) Mitsubishi Electric Corporation	B60K 1/04	(72) ARNOLD, Franc
(72) WANG, Yebin	(11) EP3838720	KRAUSE, Andreas
JHA, Devesh	(21) EP20194039.2	VOLLMER, Christian
(31) 201715402353	(47) 20.04.2022	(31) 202017002940 U
(32) 10.01.2017	(22) 02.09.2020	(32) 29.05.2017

(33) Germany	(31) 201705605	(31) 2018078
(51) B62J 7/02	(32) 30.08.2017	(32) 23.12.2016
B62K 7/00	(33) Belgium	(33) Netherlands
B62K 7/02	(51) B63B 1/06	(51) B63H 21/17
B62J 27/30	(11) EP3615409	B63H 5/125
(11) EP3786040	(21) EP18724967.7	H02K 5/132
(21) EP20190927.2	(47) 20.04.2022	(11) EP3753842
(47) 20.04.2022	(87) FR2018051026	(21) EP20179970.7
(22) 13.08.2020	01.11.2018	(47) 20.04.2022
(54) DELIVERY BICYCLE CONTAINER	(22) 24.04.2018	(2) 15.06.2020
(73) RTI Sports GmbH	(54) SURFACE VESSEL WITH MOTORISED	(54) VESSEL PROPULSION DEVICE AND
(72) GRAEVE, Arndt	MECHANICAL PROPULSION HAVING	VESSEL WITH VESSEL PROPULSION
RASCHE, Johannes	A FUSIFORM HULL AND BALLASTED	DEVICE
(31) 202019104809 U	KEEL	(73) Verhaar Omega B.V.
(32) 02.09.2019	(73) Ixblue	(72) VERHAAR, Alexander Mark
(33) Germany	(72) GRALL, Sébastien	VERHAAR, Jan
(51) B62J 17/04	(31) 1753690	(31) 2023328
B62J 27/20	(32) 27.04.2017	(32) 17.06.2019
B60R 21/215	(33) France	(33) Netherlands
(11) EP3786043	(51) B63B 21/10	(51) B64C 1/18
(21) EP18916516.0	B63B 21/50	B64D 45/00
(47) 20.04.2022	(11) EP3615412	(11) EP3868649
(87) JP2018017240	(21) EP18728692.7	(21) EP21155444.9
31.10.2019	(47) 20.04.2022	(47) 20.04.2022
(22) 27.04.2018	(87) GB2018051102	(22) 05.02.2021
(54) AIRBAG DEVICE FOR SADDLE-TYPE	01.11.2018	(54) AIRCRAFT INCLUDING A FLOOR AND
VEHICLE	(22) 26.04.2018	A FIREPROOF AND/OR SMOKE-TIGHT
(73) HONDA MOTOR CO., LTD.	(54) MOORING APPARATUS	HATCH
(72) KOBAYASHI Yuki	(73) Flintstone Technology Limited	(73) AIRBUS OPERATIONS (S.A.S.)
MIYAKAWA Futoshi	(72) SMITH, David	(72) CASSE, Christophe
KUROKI Kazuyoshi	(31) 201711907	(31) 2001812
(51) B62K 25/28	201706745	(32) 24.02.2020
B62K 25/30	(32) 24.07.2017	(33) France
(11) EP2782820	27.04.2017	(51) B64C 3/10
(21) EP12851566.5	(33) United Kingdom	B64C 39/02
(47) 20.04.2022	United Kingdom	(11) EP3509943
(87) US2012066427	(51) B63B 27/16	(21) EP17848297.2
30.05.2013	B63J 3/00	(47) 20.04.2022
(22) 21.11.2012	B63B 35/54	(87) IL2017051025
(54) BICYCLE COMPRISING A	B63H 21/17	15.03.2018
RECIPROCATING RAIL MOVEMENT	(11) EP3753840	(22) 11.09.2017
SUSPENSION SYSTEM	(21) EP20190421.6	(54) MODULAR VEHICLE SYSTEM
(73) Hoogendoorn, Steven, W.	(47) 20.04.2022	(73) Israel Aerospace Industries Ltd.
Yeti Cycling LLC	(22) 02.11.2017	(72) BUBLITSKY, Ron
(72) ZAWISTOWSKI, Peter	(54) A TRANSPORT SYSTEM AND	(31) 24777216
HOOGENDOORN, Steven, W.	METHOD	(32) 12.09.2016
(31) 201261635800 P	(73) Vard Electro AS	(33) Israel
201261609927 P	(72) SØVIK, Christian	(51) B64C 7/02
201161563292 P	(31) 20161753	B64D 15/04
(32) 19.04.2012	(32) 04.11.2016	B64D 33/02
12.03.2012	(33) Norway	(11) EP3632791
23.11.2011	(51) B63B 35/03	(21) EP19201345.6
(33) United States of America	B63B 35/04	(47) 20.04.2022
United States of America	F16L 1/235	(22) 03.10.2019
United States of America	H02G 1/10	(54) NACELLE INLET WITH
(51) B62M 6/50	(11) EP3558810	REINFORCEMENT STRUCTURE
B62M 6/55	(21) EP17828791.8	(73) Rohr, Inc.
B62M 11/14	(47) 20.04.2022	(72) LALY, Biju Balan
(11) EP3676166	(87) NL2017050863	(31) 201811037338
(21) EP18762085.1	28.06.2018	201816210174
(47) 20.04.2022	(22) 21.12.2017	(32) 03.10.2018
(87) EP2018073399	(54) DEVICE AND METHOD FOR PAYING	05.12.2018
07.03.2019	OUT AN ELONGATED FLEXIBLE	(33) India
(22) 30.08.2018	ARTICLE FROM A VESSEL	United States of America
(54) POWER TRAIN	(73) DEME Offshore NL B.V.	(51) B64C 11/30
(73) E2 Drives SA	(72) GREMMEN, Marco Martinus Maria	B64C 11/38
(72) DELEVAL, Arthur	SCHEERS, Philip Meijnardt Jacobus	B64C 11/42
GODFRIND, Simon	BOLS, Lucas Jan Adriaan Maria	

B64C 11/40	(47) 20.04.2022	21.09.2017
F02C 9/58	(87) US2016062890	(22) 17.03.2017
(11) EP3741666	15.06.2017	(54) TOWING VEHICLE
(21) EP20175920.6	(22) 18.11.2016	(73) Goldhofer AG
(47) 20.04.2022	(54) STORAGE BIN WITH LUGGAGE	(72) RIESER, Martin
(22) 21.05.2020	POSITIONING PROTRUSIONS	(31) 102016204542
(54) METHOD OF CONTROLLING A	(73) C&D Zodiac, Inc.	(32) 18.03.2016
PROPELLER WITH TWO-POSITION	(72) SAVIAN, Scott	(33) Germany
SOLENOID	HEIMBACH, Eric	<hr/>
(73) Pratt & Whitney Canada Corp.	LONG, Eric	(51) B64G 1/50
(72) MEUNIER, Gabriel	(31) 201562264205 P	(11) EP3880556
LAMARRE, Sylvain	(32) 07.12.2015	(21) EP19845712.9
DES ROCHES-DIONNE, Nicolas	(33) United States of America	(47) 20.04.2022
(31) 201916418467	<hr/>	(87) FR2019053141
(32) 21.05.2019	(51) B64D 11/00	25.06.2020
(33) United States of America	B64F 5/10	(22) 18.12.2019
<hr/>	B64C 1/06	(54) METHOD FOR ATTACHING A
(51) B64C 25/02	(11) EP3134313	HEAT-DISSIPATING PIECE OF
(11) EP3597535	(21) EP15718108.2	EQUIPMENT, SPACECRAFT WALL AND
(21) EP19193895.0	(47) 20.04.2022	SPACECRAFT
(47) 20.04.2022	(87) IB2015052876	(73) Airbus Defence and Space SAS
(22) 27.06.2017	29.10.2015	(72) WALKER, Andrew
(54) POLYMER COMPOSITE/METAL LOAD	(22) 20.04.2015	(31) 1873211
TRANSFER JOINT FOR LANDING	(54) BUFFER ZONE FOR INTERIOR	(32) 18.12.2018
GEAR	AIRCRAFT FEATURES	(33) France
(73) Goodrich Corporation	(73) Bombardier Inc.	<hr/>
(72) GURVICH, Mark R.	(72) HOLOWKA, Stefan	(51) B65B 11/58
GANIS, Rony Giovanni	MALEK, Bruce	B65B 11/02
ZAFIRIS, Georgios S.	BEAUDIN, Nikolas	(11) EP3792191
(31) 201615193968	(31) 201461984631 P	(21) EP19207054.8
(32) 27.06.2016	(32) 25.04.2014	(47) 20.04.2022
(33) United States of America	(33) United States of America	(22) 05.11.2019
<hr/>	<hr/>	(54) PORTABLE WRAPPING MACHINE
(51) B64C 25/26	(51) B64D 33/02	(73) Cousins Packaging, Inc.
B64D 45/00	B64D 27/14	(72) Cousins, Neil. G.
(11) EP3483062	B64D 27/24	Davidovic, Sribislav Z.
(21) EP18195784.6	B64D 29/04	(31) 201916569170
(47) 20.04.2022	B64D 27/02	(32) 12.09.2019
(22) 20.09.2018	F01D 5/14	(33) United States of America
(54) METHODS AND APPARATUS FOR	F02K 3/00	<hr/>
CONTROLLING LANDING GEAR	(11) EP3653508	(51) B65B 11/58
SHRINK	(21) EP19204330.5	B65B 11/04
(73) The Boeing Company	(47) 20.04.2022	B65B 61/22
(72) Bryant, Malcolm S.	(22) 21.10.2019	(11) EP3755630
Plude, Leo W.	(54) BOUNDARY LAYER INGESTION FAN	(21) EP18834039.2
(31) 201715809397	SYSTEM	(47) 20.04.2022
(32) 10.11.2017	(73) Rolls-Royce plc	(87) IB2018060025
(33) United States of America	(72) Goodhand, Martin	29.08.2019
<hr/>	(31) 201818681	(22) 13.12.2018
(51) B64C 27/14	(32) 16.11.2018	(54) DEVICE FOR APPLYING COVER
B64D 35/00	(33) United Kingdom	SHEETS TO PALLETISED LOADS
F16C 3/02	<hr/>	(73) E80 Group S.p.A.
(11) EP3617064	(51) B64D 37/02	(72) SFORACCHI, Gianluca
(21) EP19193461.1	(11) EP3683152	(31) 201800002957
(47) 20.04.2022	(21) EP19211903.0	(32) 22.02.2018
(22) 23.08.2019	(47) 20.04.2022	(33) Italy
(54) BALLISTIC RESISTANT DRIVE SHAFT	(22) 27.11.2019	<hr/>
(73) Hamilton Sundstrand Corporation	(54) VENTED TANK SYSTEMS AND	(51) B65B 23/12
(72) ZAFIRIS, Georgios S.	COMPONENTS	B65B 35/32
SCHAEFER, Joyel M.	(73) Hamilton Sundstrand Corporation	B65B 35/36
KING, Michael	(72) SLAYTER, Matthew	B65B 35/44
MARRON, Edward P.	ROBERTS, Jeffrey Todd	B65B 57/00
GURVICH, Mark R.	(31) 201916247188	B65B 5/06
REED, Brayton	(32) 14.01.2019	B65B 57/14
(31) 201816111352	(33) United States of America	B65B 23/18
(32) 24.08.2018	<hr/>	(11) EP3350083
(33) United States of America	(51) B64F 1/22	(21) EP16784981.9
<hr/>	F15B 1/02	(47) 20.04.2022
(51) B64D 11/00	(11) EP3429925	(87) NL2016050645
A47B 46/00	(21) EP17711653.0	23.03.2017
(11) EP3386860	(47) 20.04.2022	(22) 19.09.2016
(21) EP16873574.4	(87) EP2017056401	

(54) SYNCHRONIZATION SYSTEM FOR INFEED OF PRODUCT STACKS ONTO A PACKER CHAIN OF A PACKAGING MACHINE, SYNCHRONISATION DEVICE FOR SUCH A SYNCHRONIZATION SYSTEM AND TRANSPORT DEVICE FOR SUCH A SYNCHRONIZATION SYSTEM	12.07.2019 (33) United States of America United States of America	(11) EP3243412 (21) EP17000818.9 (47) 20.04.2022
(73) B.V. Machinefabriek Houdijk	(51) B65B 59/00 B65B 61/18 B65B 65/00 B65B 9/06 B65B 9/067 B65B 9/073	(22) 12.05.2017 (54) STORAGE AND TRANSPORT UNIT (73) Heidhoff, Cord (72) Heidhoff, Cord (31) 102016108948 (32) 13.05.2016 (33) Germany
(72) DE JONG, Henricus Nicolaas Johannes	B65B 9/08 B65B 51/10 B65B 9/087 B65B 9/093	(51) B65D 33/25 A44B 19/16 (11) EP3765374 (21) EP19711849.0 (47) 20.04.2022 (87) EP2019056058 19.09.2019 (22) 11.03.2019
(31) 2015466 (32) 18.09.2015 (33) Netherlands	B65B 51/32 B65B 61/06 (11) EP3573893 (21) EP17804954.0 (47) 20.04.2022	(54) DOCKING SEAL AND DOCKING METHOD FOR CONTAMINATION-FREE CONNECTION OF A FIRST FLEXIBLE CASING TO A SECOND FLEXIBLE CASING, FLEXIBLE CASING WITH SUCH A DOCKING SEAL AND USE OF SUCH A DOCKING SEAL (73) Andocksysteme G. Untch GmbH (72) UNTCH, Günter (31) 102018105676 (32) 12.03.2018 (33) Germany
(51) B65B 31/02 B65B 43/46 B65G 47/91 B65B 3/00 B65B 55/02	(87) IB2017056892 11.05.2018 (22) 03.11.2017 (54) ADJUSTABLE HORIZONTAL FORM-FILL-SEAL DEVICES AND METHODS OF USING SAME (73) Nestec S.A. (72) ASTRY, Casey CYBART, Mark (31) 201662417555 P (32) 04.11.2016 (33) United States of America	(51) B65D 41/18 B65D 50/04 B65D 53/02 (11) EP3674228 (21) EP18847491.0 (47) 20.04.2022 (87) CN2018101074 28.02.2019 (22) 17.08.2018 (54) BOTTLE CAP CAPABLE OF BEING OPENED BY ONE PRESS (73) Clown Fish Shanghai Industrial Co., Ltd. (72) LI, Yuejun (31) 201710720300 (32) 21.08.2017 (33) China
(11) EP3810516 (21) EP19736817.8 (47) 20.04.2022 (87) IB2019054755 26.12.2019 (22) 07.06.2019	(51) B65D 1/38 A45C 13/38 A45C 5/04 A45C 5/02 (11) EP3539888 (21) EP19162083.0 (47) 20.04.2022 (22) 12.03.2019 (54) HOLDING BASKET OPEN AT ONE SIDE AND METHOD FOR PRODUCING SUCH HOLDING BASKET (73) Schambeck, Josef-Michael (72) Schambeck, Josef-Michael (31) 202018101416 U (32) 14.03.2018 (33) Germany	(51) B65D 47/08 B65D 50/06 B65D 51/24 (11) EP3762304 (21) EP19725613.4 (47) 20.04.2022 (87) US2019031606 14.11.2019 (22) 09.05.2019 (54) CONTAINER LID WITH BUTTON RELEASE AND LOCK (73) Runway Blue, LLC (72) FAERBER, Paul James COLBY, Jim Allen MEYERS, David O. OMDAHL, II, John R. JACOBSEN, Joseph O. SORENSEN, Steven M. (31) 201862669882 P (32) 10.05.2018 (33) United States of America
(54) AN APPARATUS FOR EXTRACTING PHARMACEUTICAL CONTAINERS BEING BOTTLES, FROM RELATIVE SUPPORT ELEMENTS CONSTITUTED BY A TRAY	(51) B65B 43/50 A24F 40/70 B65G 47/82 B65G 47/84 (11) EP3822182 (21) EP20208485.1 (47) 20.04.2022 (22) 18.11.2020	(51) B65D 25/32 A47G 23/04 B65D 43/02 B65D 81/36 A63B 65/10 B65D 25/10 B65D 85/30 F25D 3/08 A47G 23/02
(73) Marchesini Group S.p.A. (72) ANATRINI, Dario TERROSI, Andrea (31) 201800006485 (32) 20.06.2018 (33) Italy	(51) B65D 19/26 (11) EP3405071 (21) EP16886208.4 (47) 20.04.2022 (87) IN2016050255 27.07.2017 (22) 29.07.2016 (54) CUSTOMIZABLE PALLET (73) Kapoor, Asheer (72) Kapoor, Asheer (31) 201621002075 (32) 20.01.2016 (33) India	(51) B65D 77/20
(51) B65B 43/50 A24F 40/70 B65G 47/82 B65G 47/84	(51) B65D 25/32 A47G 23/04 B65D 43/02 B65D 81/36 A63B 65/10 B65D 25/10 B65D 85/30 F25D 3/08 A47G 23/02	
(11) EP3822182 (21) EP20208485.1 (47) 20.04.2022 (22) 18.11.2020	(51) B65D 19/26 (11) EP3405071 (21) EP16886208.4 (47) 20.04.2022 (87) IN2016050255 27.07.2017 (22) 29.07.2016 (54) CUSTOMIZABLE PALLET (73) Kapoor, Asheer (72) Kapoor, Asheer (31) 201621002075 (32) 20.01.2016 (33) India	
(54) MANUFACTURING MACHINE AND MANUFACTURING METHOD FOR THE PRODUCTION OF DISPOSABLE CARTRIDGES	(51) B65D 19/26 (11) EP3405071 (21) EP16886208.4 (47) 20.04.2022 (87) IN2016050255 27.07.2017 (22) 29.07.2016 (54) CUSTOMIZABLE PALLET (73) Kapoor, Asheer (72) Kapoor, Asheer (31) 201621002075 (32) 20.01.2016 (33) India	
(73) G.D SOCIETA' PER AZIONI (72) LANZARINI, Luca MILANDRI, Francesco GROSSO, Daniele LEGNANI, Mirco (31) 201900021369 (32) 18.11.2019 (33) Italy	(51) B65D 19/26 (11) EP3405071 (21) EP16886208.4 (47) 20.04.2022 (87) IN2016050255 27.07.2017 (22) 29.07.2016 (54) CUSTOMIZABLE PALLET (73) Kapoor, Asheer (72) Kapoor, Asheer (31) 201621002075 (32) 20.01.2016 (33) India	
(51) B65B 51/06 B65B 59/00 (11) EP3763625 (21) EP20185252.2 (47) 20.04.2022 (22) 10.07.2020	(51) B65D 25/32 A47G 23/04 B65D 43/02 B65D 81/36 A63B 65/10 B65D 25/10 B65D 85/30 F25D 3/08 A47G 23/02	
(54) RANDOM CASE SEALER	(51) B65D 25/32 A47G 23/04 B65D 43/02 B65D 81/36 A63B 65/10 B65D 25/10 B65D 85/30 F25D 3/08 A47G 23/02	
(73) Signode Industrial Group LLC (72) MENTA, William J. FOX, Bryce J. (31) 202016918200 201962873325 P (32) 01.07.2020	(51) B65D 25/32 A47G 23/04 B65D 43/02 B65D 81/36 A63B 65/10 B65D 25/10 B65D 85/30 F25D 3/08 A47G 23/02	

B32B 27/00	(11) EP3350104	(54) DEVICE FOR INDIVIDUALISING SMALL
B65D 81/34	(21) EP16846956.7	LOOSE OBJECTS
B65D 51/16	(47) 20.04.2022	(73) Expertise Vision
B65D 77/22	(87) SE2016050858	(72) BASSY, Emmanuel
(11) EP3604165	23.03.2017	(31) 1560487
(21) EP18777998.8	(22) 14.09.2016	(32) 02.11.2015
(47) 20.04.2022	(54) CONVEYOR SUPPORT RAIL	(33) France
(87) JP2018013043	ATTACHMENT, SUPPORT RAIL AND	<hr/>
04.10.2018	CONVEYOR	(51) B65G 47/24
(22) 28.03.2018	(73) Flexlink AB	B65G 54/02
(54) CONTAINER AND METHOD FOR	(72) SNABB, Josef	(11) EP3768622
MANUFACTURING A CONTAINER	ASKERDAL, Magnus	(21) EP19705929.8
(73) Dai Nippon Printing Co., Ltd.	(31) 1551189	(47) 20.04.2022
(72) TAKIMOTO Satoshi	(32) 16.09.2015	(87) EP2019052661
WATANABE Kaoru	(33) Sweden	26.09.2019
TAKAHASHI Makiko	<hr/>	(22) 04.02.2019
ISHIKAWA Hiroshi	(51) B65G 27/02	(54) MACHINE AND METHOD FOR
(31) 2017187125	B65G 27/04	POSITIONING OBJECTS
2017065855	B65G 27/24	(73) Mulet Vallés, Tomás
2017065754	B65G 27/30	(72) MARTÍNEZ MÉNDEZ, Fernando
(32) 27.09.2017	(11) EP3521215	MULET VALLÉS, Tomás
29.03.2017	(21) EP19155211.6	(31) 201830276
29.03.2017	(47) 20.04.2022	(32) 21.03.2018
(33) Japan	(22) 04.02.2019	(33) Spain
Japan	(54) VIBRATORY CONVEYOR	<hr/>
Japan	(73) Afag Holding AG	(51) B65G 47/252
<hr/>	(72) Bäumlér, Martin	B65G 47/91
(51) B65D 77/20	(31) 102018102554	(11) EP3250487
B65D 1/34	(32) 06.02.2018	(21) EP16743847.2
B65D 81/20	(33) Germany	(47) 20.04.2022
(11) EP3740440	<hr/>	(87) US2016013470
(21) EP19704187.4	(51) B65G 41/00	04.08.2016
(47) 20.04.2022	B07B 15/00	(22) 14.01.2016
(87) EP2019000015	B65G 21/10	(54) FLIPPING APPARATUS, SYSTEM
25.07.2019	(11) EP3768621	AND METHOD FOR PROCESSING
(22) 16.01.2019	(21) EP18714213.8	ARTICLES
(54) DISHWARE UNIT AND METHOD FOR	(47) 20.04.2022	(73) KLA-Tencor Corporation
SEALING PARTIALLY PREPARED	(87) EP2018057529	(72) DE BLOCK, Erik
MEALS	25.04.2019	TRUYENS, Carl
(73) MChef GmbH & Co. KG	(22) 23.03.2018	(31) 201562108660 P
(72) EILERTS, Martin	(54) MOVABLE MATERIAL PROCESSING	(32) 28.01.2015
(31) 102018000407	APPARATUS COMPRISING A	(33) United States of America
(32) 19.01.2018	FOLDABLE CONVEYOR	<hr/>
(33) Germany	(73) Metso Outotec Finland Oy	(51) B65G 47/32
<hr/>	(72) JUUTINEN, Tuomas	B65G 47/84
(51) B65G 1/137	(51) B65G 43/02	B07C 5/12
G06T 7/00	B65G 47/08	B65G 33/04
B07C 3/14	(11) EP3558852	G01B 5/02
B07C 7/00	(21) EP17709600.5	(11) EP3380420
(11) EP3689792	(47) 20.04.2022	(21) EP16797854.3
(21) EP18862052.0	(87) EP2017053886	(47) 20.04.2022
(47) 20.04.2022	28.06.2018	(87) EP2016077782
(87) JP2018025736	(22) 21.02.2017	01.06.2017
04.04.2019	(54) HANDLING SYSTEM AND METHOD	(22) 15.11.2016
(22) 06.07.2018	FOR HANDLING PIECE GOODS	(54) DEVICE AND METHOD FOR
(54) PACKAGE RECOGNITION DEVICE,	(73) Kronen Aktiengesellschaft	SEPARATING AND/OR TESTING
PACKAGE SORTING SYSTEM AND	(72) BEER, Erhard	CONTAINERS
PACKAGE RECOGNITION METHOD	MEHDI, Arsalan	(73) Esomatec GmbH
(73) Panasonic Intellectual Property	ASTNER, Michael	(72) ALLHAUSEN, Stefan
Management Co., Ltd.	KOLLMUSS, Manuel	SPREEN, Hermann
(72) MORIYAMA, Takaaki	(31) 102016125361	LANDWEHR, Stefan
IDERA, Takaaki	(32) 22.12.2016	(31) 102015120426
OHTSUBO, Shohji	(33) Germany	(32) 25.11.2015
(31) 2017187200	<hr/>	(33) Germany
(32) 27.09.2017	(51) B65G 47/14	(51) B65G 59/04
(33) Japan	(11) EP3371078	B65G 59/10
<hr/>	(21) EP16798656.1	(11) EP3187441
(51) B65G 21/06	(47) 20.04.2022	(21) EP15382673.0
B65G 15/60	(87) EP2016076140	(47) 20.04.2022
B65G 21/22	11.05.2017	(22) 29.12.2015
B65G 15/62	(22) 28.10.2016	(54) METHOD FOR DESTACKING TRAYS

(73) Grupo Celulosas Moldeadas, S.L.	(87) EP2018051401	B66B 5/06
(72) RUIZ REDONDO, Aritz	02.08.2018	(11) EP3209589
(51) B65H 23/04	(22) 22.01.2018	(21) EP15781685.1
B65H 23/182	(54) VESSEL AND METHOD FOR	(47) 20.04.2022
B65H 19/12	HANDLING A LONG-LENGTH CABLE	(87) EP2015074211
(11) EP3383776	ON SAID VESSEL	28.04.2016
(21) EP16816802.9	(73) B.V. Twentsche Kabelfabriek	(22) 20.10.2015
(47) 20.04.2022	(72) ROPS, Dingeman	(54) ELEVATOR WITH A DECENTRALISED
(87) US2016064372	ROELOFS, Rob	ELECTRONIC SAFETY SYSTEM
08.06.2017	(31) 2018215	(73) Inventio AG
(22) 01.12.2016	(32) 24.01.2017	(72) GEISSHÜSLER, Michael
(54) ROLLED MATERIAL TENSIONING AND	(33) Netherlands	MICHEL, David
LOADING SYSTEM	(51) B65H 75/14	(31) 14189798
(73) Nike Innovate C.V.	(11) EP3342738	(32) 21.10.2014
(72) HANCOCK, Stephen	(21) EP17210532.2	(33) European Patent Office (EPO)
MONTOYA, Adam	(47) 20.04.2022	(51) B66B 7/08
(31) 201562261699 P	(22) 22.12.2017	(11) EP3470356
(32) 01.12.2015	(54) COLLAR RETENTION SYSTEM	(21) EP18199817.0
(33) United States of America	FOR PACKAGING DEVICE FOR	(47) 20.04.2022
(51) B65H 29/12	DISPENSING ELONGATED FLEXIBLE	(22) 11.10.2018
B65H 31/30	MATERIAL	(54) COMPACT BELT TERMINATION
B65H 5/02	(73) Ademco Inc.	ASSEMBLY
(11) EP2687467	(72) MEACHUM, Brian	(73) Otis Elevator Company
(21) EP13168222.1	DUNAR, Daniel	(72) Ma, Jun
(47) 20.04.2022	(31) 201715850076	(31) 201715782657
(22) 17.05.2013	201662439627 P	(32) 12.10.2017
(54) Transport apparatus	(32) 21.12.2017	(33) United States of America
(73) NCR Corporation	28.12.2016	(51) B66B 13/16
(72) Boon, Anthony	(33) United States of America	B66B 5/00
Dunn, Frank	United States of America	(11) EP3360837
(31) 201213551351	(51) B66B 1/40	(21) EP17305159.0
(32) 17.07.2012	B66B 1/34	(47) 20.04.2022
(33) United States of America	(11) EP3569543	(22) 13.02.2017
(51) B65H 37/04	(21) EP19162676.1	(54) MAINTENANCE ACCESS SYSTEM
B26D 7/00	(47) 20.04.2022	FOR ELEVATORS
B65H 7/02	(22) 13.03.2019	(73) Otis Elevator Company
B26F 1/14	(54) METHOD FOR CONTROLLING MOTOR	(72) Fauconnet, Aurelien
B26F 1/04	IN ELEVATOR SYSTEM	Badaoui, Amine
B26D 5/06	(73) LSIS Co., Ltd.	Beauchaud, Frederic
B26D 5/34	(72) SON, Ju-Beom	(51) B66B 13/24
B26D 5/32	(31) 20180054633	(11) EP3428107
B26F 1/00	(32) 14.05.2018	(21) EP17180926.2
B65H 7/10	(33) Korea (Republic)	(47) 20.04.2022
B26F 1/02	(51) B66B 5/00	(22) 12.07.2017
(11) EP3333104	(11) EP3412616	(54) BLOCKING DEVICE
(21) EP16832590.0	(21) EP18173992.1	(73) Otis Elevator Company
(47) 20.04.2022	(47) 20.04.2022	(72) De Miguel Urquijo, Antonio
(87) JP2016066005	(22) 24.05.2018	Quiles, Juan
09.02.2017	(54) ELEVATOR DRIVE CONTROL TO	Foschini, Gianluca
(22) 31.05.2016	PROTECT DRIVE COMPONENTS	(51) B67D 7/74
(54) HOLE-PUNCHING DEVICE, SHEET	FROM MOISTURE	B67D 1/00
PROCESSING DEVICE, AND IMAGE	(73) Otis Elevator Company	B67D 1/08
FORMING SYSTEM	(72) AGIRMAN, Ismail	(11) EP2352696
(73) Kyocera Document Solutions Inc.	NAGARAJAN, Prasanna	(21) EP09821036.2
(72) EGAWA, Keisuke	(31) 201715613615	(47) 20.04.2022
(31) 2015155907	(32) 05.06.2017	(87) US2009059937
(32) 06.08.2015	(33) United States of America	22.04.2010
(33) Japan	(51) B66B 5/00	(22) 08.10.2009
(51) B65H 54/76	(11) EP3653557	(54) SYSTEMS AND METHODS FOR
B63B 27/00	(21) EP18290132.2	PREDILUTION OF SWEETENER
B65H 57/12	(47) 20.04.2022	(73) The Coca-Cola Company
B65H 57/28	(22) 14.11.2018	(72) QUARTARONE, Daniel, S.
B65H 59/38	(54) ELEVATOR ALARM SYSTEMS	HUGHES, Robert
B63B 35/04	(73) Otis Elevator Company	CARPENTER, Gregg
B63B 35/00	(72) SIRIGU, Gerard	ZIESEL, Lawrence, B.
(11) EP3573914	TROUVAIN, Guillaume	(31) 251469
(21) EP18700601.0	(51) B66B 5/00	(32) 15.10.2008
(47) 20.04.2022		

(33) United States of America	(11) EP3678990	H01M 4/62
(51) B81B 7/04	(21) EP18766014.7	(11) EP3617148
B81B 5/00	(47) 20.04.2022	(21) EP19194479.2
B81B 3/00	(87) GB2018052469	(47) 20.04.2022
B81B 7/00	07.03.2019	(22) 29.08.2019
(11) EP3356288	(22) 31.08.2018	(54) PREPARATION METHOD OF A
(21) EP16852584.8	(54) PROCESS FOR PRODUCING	HIERARCHICALLY STRUCTURED
(47) 20.04.2022	PARTICULATE CARBON-COATED	LITHIUM TITANATE NANOTUBE
(87) US2016054416	LITHIUM IRON PHOSPHATE, CARBON	(73) Petrochina Company Limited
06.04.2017	COATED LITHIUMIRON PHOSPHATE	(72) SUN, Liang
(22) 29.09.2016	AND ITS USES	LIU, Xiaodan
(54) MEMS GRID FOR MANIPULATING	(73) Johnson Matthey Public Limited	JIAO, Hang
STRUCTURAL PARAMETERS OF	Company	JIN, Xu
MEMS DEVICES	(72) COPLEY, Mark	LI, Jianming
(73) Mems Drive Inc.	RIVAS-VELAZCO, Maria Elena	WANG, Xiaoqi
(72) NG, Matthew	PETRUCCO, Enrico	LIU, He
LIU, Xiaolei	(31) 201714101	(31) 201811002667
WANG, Guiqin	(32) 04.09.2017	(32) 30.08.2018
TANG, Tony	(33) United Kingdom	(33) China
GUTIERREZ, Roman	(51) C01B 33/107	(51) C01G 39/06
(31) 201514872123	C23C 16/44	C01B 17/20
(32) 30.09.2015	C01B 33/03	C01B 19/00
(33) United States of America	(11) EP3543211	C07C 211/03
(51) C01B 3/38	(21) EP17872766.5	C09K 11/02
C01B 3/48	(47) 20.04.2022	C09K 11/68
C01B 3/56	(87) JP2017035981	C07C 211/21
(11) EP3814275	24.05.2018	B82Y 30/00
(21) EP19740225.8	(22) 03.10.2017	B82Y 40/00
(47) 20.04.2022	(54) METHOD FOR HYDROLYZING	(11) EP3594181
(87) US2019039426	CHLOROSILANE POLYMERS	(21) EP19189487.2
02.01.2020	(73) IHI Corporation	(47) 20.04.2022
(22) 27.06.2019	(72) ISHIZAKI, Masato	(22) 25.01.2018
(54) TAIL GAS HEATING WITHIN PSA	OOTSUKA, Yuuta	(54) SYNTHESIS OF 2D LAYERED
SURGE TANK	KUBOTA, Wataru	MATERIALS USING AN AMINE-METAL
(73) Praxair Technology, Inc.	AKAZAKI, Kozue	COMPLEX AND A SLOW SULFUR-
(72) WARTA, Andrew	TANAKA, Yasutomo	RELEASING PRECURSOR
KALP, Bryan, S.	(31) 2016222956	(73) Nanoco 2D Materials Limited
DRNEVICH, Raymond, F.	(32) 16.11.2016	(72) Daniels, Steven
RAYBOLD, Troy, M	(33) Japan	(31) 201762588774 P
(31) 201816023374	(51) C01B 37/02	201762453780 P
(32) 29.06.2018	C01B 39/06	(32) 20.11.2017
(33) United States of America	C01B 39/48	02.02.2017
(51) C01B 3/40	(11) EP3798189	(33) United States of America
C01B 3/44	(21) EP20196845.0	United States of America
B01J 23/78	(47) 20.04.2022	(51) C02F 1/00
B01J 23/94	(22) 18.09.2020	C02F 1/28
B01J 35/00	(54) METHOD FOR SYNTHESISING	C02F 1/42
B01J 35/02	ZEOLITE IZM-2 IN THE PRESENCE	C02F 1/44
B01J 35/10	OF A NITROGEN-CONTAINING	C02F 101/20
B01J 37/02	ORGANIC STRUCTURING AGENT	C02F 101/30
B01J 38/02	IN THE HYDROXIDE FORM AND OF	C02F 101/34
B01J 38/10	AN ALKALI METAL CHLORIDE, IN A	(11) EP3445719
B01J 21/04	FLUORINATED OR NOT FLUORINATED	(21) EP17721562.1
B01J 21/10	MEDIUM	(47) 20.04.2022
B01J 23/755	(73) IFP Energies nouvelles	(87) EP2017059553
(11) EP3805149	(72) MARTINEZ FRANCO, Raquel	26.10.2017
(21) EP19201909.9	PRIGENT, Monique	(22) 21.04.2017
(47) 20.04.2022	(31) 1910619	(54) WATER TREATMENT APPARATUS
(22) 08.10.2019	(32) 26.09.2019	(73) Pall Corporation
(54) FLUIDIZABLE STEAM REFORMING	(33) France	(72) DAHLBERG, Christian
CATALYST AND USE OF A CATALYST	(51) C01G 23/00	OECHSLE, Dietmar
IN METHANE STEAM REFORMING	C01G 23/047	KEY, Steffen
(73) C&CS Catalysts and Chemical	C01G 23/053	(31) 102016107483
Specialties GmbH	B01J 20/06	(32) 22.04.2016
(72) Nacken, Manfred	B01J 20/28	(33) Germany
(51) C01B 25/30	B01J 20/30	(51) C02F 1/26
C01B 25/45	H01M 4/36	C02F 101/32
H01M 4/58	H01M 4/485	C02F 1/44

(11) EP3160909	(54) METHOD AND ARRANGEMENT FOR	(54) GLASS SHEET APPROACHING
(21) EP15731081.4	WASTEWATER TREATMENT	NEUTRALITY IRRESPECTIVE OF ITS
(47) 20.04.2022	(73) awama GmbH	THICKNESS
(87) EP2015064462	(72) SIEVERS, Michael	(73) AGC Glass Europe
30.12.2015	(31) 102014013813	(72) LAMBRICHT, Thomas
(22) 25.06.2015	(32) 23.09.2014	DOGIMONT, Audrey
(54) DEVICE FOR EXTRACTION OF	(33) Germany	(31) 16180344
POLLUTANTS BY MULTICHANNEL	(51) C03B 7/02	(32) 20.07.2016
TUBULAR MEMBRANE	C03B 5/42	(33) European Patent Office (EPO)
(73) CNRS Centre National de la Recherche	C03B 5/16	(51) C03C 13/00
Scientifique	(11) EP3307683	C03C 13/04
Aix-Marseille Université	(21) EP16730176.1	C03C 3/078
(72) TESTA, Fabrice	(47) 20.04.2022	C03C 4/00
MOULIN, Philippe	(87) US2016036182	C03C 4/12
ANGUILLE, Stéphane	15.12.2016	G02B 6/02
(31) 14306002	(22) 07.06.2016	(11) EP3768645
(32) 25.06.2014	(54) APPARATUS AND METHOD FOR	(21) EP19711616.3
(33) European Patent Office (EPO)	CONDITIONING MOLTEN GLASS	(47) 20.04.2022
(51) C02F 1/66	(73) Corning Incorporated	(87) EP2019057323
C02F 103/10	(72) DE ANGELIS, Gilbert	26.09.2019
C02F 103/16	LARONZE, Pierre	(22) 22.03.2019
(11) EP3792223	(31) 201562173475 P	(54) OPTICAL ELEMENT AND ASSOCIATED
(21) EP20195025.0	(32) 10.06.2015	MANUFACTURING METHOD
(47) 20.04.2022	(33) United States of America	(73) Centre national de la recherche
(22) 08.09.2020	(51) C03B 33/03	scientifique
(54) METHOD FOR OPTIMISED	B28D 1/14	Universite de Limoges
DESALINATION OF AN ALKALINE	B28D 7/04	(72) HUMBERT, Georges
INDUSTRIAL EFFLUENT WITH	(11) EP3640219	AUGUSTE, Jean-Louis
PRESSURISED CO2	(21) EP18867307.3	VERON, Emmanuel
(73) L'AIR LIQUIDE, SOCIETE ANONYME	(47) 20.04.2022	POMAREDE, Damien
POUR L'ETUDE ET L'EXPLOITATION	(87) JP2018037286	CHENU, Sébastien
DES PROCEDES GEORGES CLAUDE	03.10.2019	ALLIX, Mathieu
(72) BRAS, Dominique	(22) 04.10.2018	DELAIZIR, Gaëlle
CAMPO, Philippe	(54) DEVICE FOR MAKING HOLES IN	GENEVOIS, Cécile
ALBAN, Bruno	GLASS PLATE	(31) 1852502
(31) 1909926	(73) BANDO KIKO CO., LTD.	(32) 22.03.2018
(32) 10.09.2019	(72) TAKADA, Takeshi	(33) France
(33) France	(31) 2018070320	(51) C03C 21/00
(51) C02F 1/68	(32) 30.03.2018	B32B 17/06
C02F 5/08	(33) Japan	B32B 17/10
B01F 1/00	(51) C03B 37/07	(11) EP3057915
B64D 11/00	C03B 9/41	(21) EP14793366.7
(11) EP3500532	G01B 11/06	(47) 20.04.2022
(21) EP17842182.2	G01N 33/38	(87) US2014060241
(47) 20.04.2022	G05B 19/401	23.04.2015
(87) US2017047522	G01J 5/00	(22) 13.10.2014
22.02.2018	G01N 21/90	(54) ION EXCHANGE PROCESSES AND
(22) 18.08.2017	(11) EP2873652	CHEMICALLY STRENGTHENED
(54) SCALE REDUCTION CARTRIDGE	(21) EP14193205.3	GLASS SUBSTRATES RESULTING
SYSTEM	(47) 20.04.2022	THEREFROM
(73) National Machine Company	(22) 14.11.2014	(73) Corning Incorporated
(72) BROWNE, Ronnie	(54) Utilization of wall thickness measurement	(72) SORENSEN, Michael Lesley
(31) 201662376668 P	in combination with thermal imaging of	GARNER, Sean Matthew
(32) 18.08.2016	containers	(31) 201361890530 P
(33) United States of America	(73) Emhart Glass S.A.	(32) 14.10.2013
(51) C02F 11/16	(72) Simon, Jonathan S.	(33) United States of America
C02F 11/18	(31) 201314081330	(51) C03C 27/12
C02F 1/52	(32) 15.11.2013	B60J 1/00
C02F 11/04	(33) United States of America	B32B 3/30
C02F 11/06	(51) C03C 4/00	B32B 17/10
C02F 11/12	C03C 3/095	B32B 3/26
C02F 101/10	(11) EP3487824	(11) EP3789357
(11) EP3197839	(21) EP17751639.0	(21) EP20201769.5
(21) EP15777890.3	(47) 20.04.2022	(47) 20.04.2022
(47) 20.04.2022	(87) EP2017068137	(22) 31.03.2017
(87) EP2015071870	25.01.2018	(54) INTERLAYER FOR LAMINATED GLASS,
31.03.2016	(22) 18.07.2017	AND LAMINATED GLASS
(22) 23.09.2015		(73) Sekisui Chemical Co., Ltd.

(72) NAKAYAMA, Kazuhiko	(32) 30.06.2016	(72) YAMASHITA, Junya
(31) 2016073211	(33) Germany	SUZUKI, Atsushi
(32) 31.03.2016	(51) C04B 30/00	(31) 2017195416
(33) Japan	C09K 3/10	(32) 05.10.2017
(51) C04B 7/24	C04B 14/20	(33) Japan
C04B 18/16	C04B 111/27	(51) C04B 37/02
F27B 15/00	(11) EP3297970	H01L 23/373
F28C 3/14	(21) EP16724950.7	(11) EP3768654
(11) EP3788019	(47) 20.04.2022	(21) EP18713175.0
(21) EP19742981.4	(87) GB2016051450	(47) 20.04.2022
(47) 20.04.2022	24.11.2016	(87) EP2018056957
(87) NL2019050248	(22) 19.05.2016	26.09.2019
07.11.2019	(54) SEALING MATERIAL AND GASKET	(22) 20.03.2018
(22) 29.04.2019	OF IMPROVED WATER RESISTANCE	(54) COPPER-CERAMIC SUBSTRATE
(54) CEMENT WASTE RECYCLING DEVICE	AND PROCESS FOR MAKING THIS	(73) Aurubis Stolberg GmbH & Co. KG
(73) C2CA Technology B.V.	SEALING MATERIAL	(72) CAPPI, Benjamin
(72) BERKOUT, Peter	(73) Flexitallic Investments, Inc.	LEHMANN, Helge
FASE, Harry	(72) WOOLFENDEN, Stephen	ZEIGER, Karl
REM, Peter	SKIPPER, Neal	(51) C04B 41/89
HEIJBOER, Jaap	ROGERS, Richard	F01D 5/28
(31) 2020846	BOND, Stephen Peter	(11) EP2287135
(32) 30.04.2018	(31) 201606561	(21) EP10171471.5
(33) Netherlands	201509650	(47) 20.04.2022
(51) C04B 28/02	201508628	(22) 30.07.2010
C04B 28/04	(32) 14.04.2016	(54) Solvent based environmental barrier
C04B 38/02	03.06.2015	coatings for high temperature ceramic
C04B 111/52	20.05.2015	components
(11) EP3237353	(33) United Kingdom	(73) General Electric Company
(21) EP15823671.1	United Kingdom	(72) Boutwell, Brett allen
(47) 20.04.2022	United Kingdom	Kirby, Glen Harold
(87) FR2015053620	(51) C04B 35/16	(31) 641980
30.06.2016	C04B 38/06	230279 P
(22) 18.12.2015	C04B 35/632	(32) 18.12.2009
(54) METHOD FOR THE CONTINUOUS	C08K 3/34	31.07.2009
PRODUCTION OF A LOW-DENSITY	C08L 83/04	(33) United States of America
MINERAL FOAM	(11) EP3048088	United States of America
(73) Holcim Technology Ltd	(21) EP16152214.9	(51) C04B 41/89
(72) JEZEQUEL, Pierre-Henri	(47) 20.04.2022	F01D 5/28
REBOUSSIN, Sandrine	(22) 21.01.2016	(11) EP3174839
BERNARD, Freddy	(54) POROUS CERAMIC MATERIALS FOR	(21) EP15753221.9
(31) 1463226	INVESTMENT CASTING	(47) 20.04.2022
(32) 23.12.2014	(73) General Electric Company	(87) US2015039331
(33) France	(72) KLUG, Frederic Joseph	04.02.2016
(51) C04B 28/24	O'BRIEN, Michael Joseph	(22) 07.07.2015
B22C 5/00	HOEL, Cathleen Ann	(54) ARTICLE COMPRISING
C04B 40/00	MCNULTY, Thomas Francis	ENVIRONMENTAL BARRIER COATING
C04B 38/00	GONSALVES, Ayesha Maria	(73) General Electric Company
C04B 111/28	LEMAN, John Thomas	(72) WAN, Julin
C04B 111/10	JOHNSON, Matthew Thomas	(31) 201414445665
C04B 111/40	(31) 201514605224	(32) 29.07.2014
C04B 111/76	(32) 26.01.2015	(33) United States of America
(11) EP3478643	(33) United States of America	(51) C05D 3/02
(21) EP17735453.7	(51) C04B 35/524	C05F 11/02
(47) 20.04.2022	B32B 9/00	C05F 17/00
(87) EP2017065923	C01B 32/05	(11) EP3348539
04.01.2018	C04B 38/00	(21) EP17000046.7
(22) 27.06.2017	D01F 9/12	(47) 20.04.2022
(54) HEAT INSULATING REFRACTORY	B32B 18/00	(22) 11.01.2017
MOULDED BODY, PARTICULARLY	(11) EP3693349	(54) METHOD OF MAKING AN ORGANIC
A PANEL, AND METHOD FOR	(21) EP18865273.9	CARBON FERTILISER
PRODUCING SAME AND USE OF	(47) 20.04.2022	(73) Bode, Ingo
SAME	(87) JP2018030845	Harmeier, Frank
(73) Refratechnik Holding GmbH	11.04.2019	Kurrelvink, Hartwig
(72) JANSEN, Helge, Prof. Dr.	(22) 21.08.2018	(72) Kurrelvink, Hartwig
SCHEMMEL, Thomas, Dr.	(54) LAYERED CARBON FOAM AND	Harmeier, Frank
SCHÖLWER, Michael	PRODUCTION METHOD FOR	Bode, Ingo
STEIN, Petra, Dr.	LAYERED CARBON FOAM	(51) C05G 5/30
(31) 102016112042	(73) Asahi Kasei Kabushiki Kaisha	

C05B 15/00	(72) FRYE, Jr., John, G.	ENOMURA, Masakazu
C05G 3/00	ALBRECHT, Karl, O.	(31) 2016173038
C05B 17/00	LEE, Suh-Jane	(32) 05.09.2016
C05B 11/10	LILGA, Michael, A.	(33) Japan
C05D 9/02	(31) 201461935050 P	(51) C07C 47/228
C05G 5/23	(32) 03.02.2014	C07C 47/453
(11) EP3717443	(33) United States of America	C11B 9/00
(21) EP18815279.7	(51) C07C 7/00	(11) EP3581554
(47) 20.04.2022	C07C 7/04	(21) EP19186737.3
(87) GB2018053355	C07C 7/13	(47) 20.04.2022
06.06.2019	C07C 15/08	(22) 08.05.2014
(22) 20.11.2018	B01D 15/18	(54) IMPROVEMENTS IN OR RELATING TO
(54) PHOSPHATIC FERTILIZERS	(11) EP3814307	ORGANIC COMPOUNDS
BASED ON ALKANOLAMINE SALTS	(21) EP19731299.4	(73) Givaudan SA
OF PHOSPHORIC ACID AND	(47) 20.04.2022	(72) KRAFT, Philip
ALKANOLAMINE METAL COMPLEXES	(87) EP2019066445	ZOU, Yue
(73) Yara UK Limited	02.01.2020	LAUE, Heike
(72) BUTLER, Victoria	(22) 21.06.2019	VOIROL, Francis
WARD, Stuart	(54) METHOD FOR PRODUCING	GOEKE, Andreas
(31) 201720083	PARAXYLENE USING A SIMULATED	(31) 201308236
(32) 01.12.2017	MOVING-BED STEP, AND A STEP OF	(32) 08.05.2013
(33) United Kingdom	FRACTIONATING TWO FRACTIONS IN	(33) United Kingdom
(51) C06B 21/00	A TWO-SECTION COLUMN	(51) C07C 51/31
C06B 45/10	(73) AXENS	(11) EP3728177
(11) EP3319928	(72) PREVOST, Isabelle	(21) EP18840071.7
(21) EP16741108.1	HOTIER, Gérard	(47) 20.04.2022
(47) 20.04.2022	PIGOURIER, Jérôme	(87) IB2018060386
(87) GB2016052028	(31) 1856049	27.06.2019
12.01.2017	(32) 29.06.2018	(22) 19.12.2018
(22) 06.07.2016	(33) France	(54) METHODS OF MAKING
(54) PBX COMPOSITION	(51) C07C 37/20	POLYFUNCTIONAL
(73) BAE Systems PLC	C07C 39/17	POLYFLUORINATED COMPOUNDS
(72) BUDD, Michael, Edward	(11) EP3847149	(73) 3M Innovative Properties Company
ARTHUR, Richard, Stephen	(21) EP19755882.8	(72) HIRSCHBERG, Markus E.
HAYES, Wayne, Cord	(47) 20.04.2022	SMITH, Sean M.
STEVENS, Rebecca, Elizabeth	(87) EP2019071894	LAMANNA, William M.
(31) 201601433	12.03.2020	HINTZER, Klaus
201511869	(22) 15.08.2019	RÖSCHENTHALER, Gerd-Volker
15275169	(54) PROCESS FOR THE	TVERDOMED, Sergey N.
(32) 26.01.2016	PREPARATION OF 3,3,5-	PAJKERT, Romana
07.07.2015	TRIMETHYLCYCLOHEXYLIDENE	(31) 201762609064 P
07.07.2015	BISPHENOL	(32) 21.12.2017
(33) United Kingdom	(73) Covestro Intellectual Property GmbH &	(33) United States of America
United Kingdom	Co. KG	(51) C07C 68/06
European Patent Office (EPO)	(72) SLUYTS, Erik	B01J 31/02
(51) C07C 1/24	MICHELE, Volker	B01J 31/06
B01J 37/03	TRAVING, Michael	C07C 68/08
B01J 37/04	HEYLEN, Kristof	C07C 69/96
B01J 37/08	VANDEN EYNDE, Johan	C07B 61/00
B01J 21/06	(31) 18192240	(11) EP2540697
B01J 21/08	(32) 03.09.2018	(21) EP11747402.3
B01J 23/06	(33) European Patent Office (EPO)	(47) 20.04.2022
B01J 23/08	(51) C07C 45/81	(87) JP2011054018
B01J 23/10	C09B 61/00	01.09.2011
B01J 27/18	C07C 49/255	(22) 23.02.2011
C07C 29/60	C07J 53/00	(54) METHOD FOR PRODUCING DIARYL
C07C 1/207	(11) EP3508471	CARBONATE
C07C 1/30	(21) EP17846758.5	(73) Asahi Kasei Kabushiki Kaisha
C07C 49/203	(47) 20.04.2022	(72) MIYAKE, Nobuhisa
(11) EP3102554	(87) JP2017031962	NISHIYAMA, Budianto
(21) EP15742636.2	08.03.2018	(31) 2010037928
(47) 20.04.2022	(22) 05.09.2017	2010037930
(87) US2015013312	(54) METHOD FOR PRODUCING	(32) 23.02.2010
06.08.2015	MICROPARTICLES FROM	23.02.2010
(22) 28.01.2015	PRESSURIZED AND HEATED	(33) Japan
(54) CONVERSION OF 2,3-BUTANEDIOL TO	STARTING MATERIAL SOLUTION	Japan
BUTADIENE	(73) M. Technique Co., Ltd.	(51) C07C 209/16
(73) Battelle Memorial Institute	(72) ARAKI, Kaeko	C07C 213/02

C07C 211/10	(33) European Patent Office (EPO)	(33) United States of America
C07C 215/08	European Patent Office (EPO)	(51) C07D 233/90
C07C 209/86	(51) C07D 213/81	A61P 23/00
C07C 213/10	C07D 213/82	(11) EP3360863
(11) EP3700883	C07C 275/16	(21) EP16853130.9
(21) EP18785384.1	C07D 231/14	(47) 20.04.2022
(47) 20.04.2022	C07D 241/24	(87) CN2016101696
(87) EP2018078320	C07C 231/02	13.04.2017
02.05.2019	A61K 31/44	(22) 10.10.2016
(22) 17.10.2018	A61P 35/00	(54) ETOMIDATE DERIVATIVE AND
(54) METHOD FOR MANUFACTURING	(11) EP3183236	INTERMEDIATE, PREPARATION
ETHYLENE AMINES	(21) EP15753692.1	METHOD AND USE THEREOF
(73) BASF SE	(47) 20.04.2022	(73) Jiangsu Nhwaluokang Pharmaceutical
(72) LUYKEN, Hermann	(87) EP2015069356	Research and Development Co., Ltd.
(31) 17198943	03.03.2016	(72) XU, Xiangqing
(32) 27.10.2017	(22) 24.08.2015	REN, Liang
(33) European Patent Office (EPO)	(54) METHOD FOR THE PRODUCTION OF	ZHANG, Guisheng
(51) C07C 225/22	18F-LABELED ACTIVE ESTERS AND	ZENG, Lingguo
A61P 35/00	THEIR APPLICATION EXEMPLIFIED	WANG, Tao
C07D 295/112	BY THE PREPARATION OF A PSMA-	LI, Qingeng
C07C 253/30	SPECIFIC PET-TRACER	(31) 201510650913
C07F 9/12	(73) Universität zu Köln	(32) 10.10.2015
C07C 49/835	Max-Planck-Gesellschaft zur Förderung	(33) China
C07C 49/84	der Wissenschaften	(51) C07D 239/46
C07C 45/45	(72) NEUMAIER, Bernd	C07D 239/22
C07C 221/00	KRAPF, Phillip	(11) EP3759082
(11) EP3118204	ZLATOPOLSKIY, Boris	(21) EP19709566.4
(21) EP15740755.2	RICHARZ, Raphael	(47) 20.04.2022
(47) 20.04.2022	(31) 14183635	(87) IB2019051155
(87) CN2015070651	14182053	06.09.2019
30.07.2015	(32) 04.09.2014	(22) 13.02.2019
(22) 14.01.2015	24.08.2014	(54) PROCESS FOR THE SYNTHESIS OF 6-
(54) O-PHENYL CHALCONE COMPOUND	(33) European Patent Office (EPO)	CHLOROMETHYLURACIL
AND PREPARATION METHOD AND	European Patent Office (EPO)	(73) Procos S.p.A.
USE THEREOF	(51) C07D 217/08	(72) MORANA, Fabio
(73) Neopnora Bio-Technology (Zhuhai) Ltd.	C07D 471/04	GOBBATO, Stefano
(72) ZUO, Yinglin	C07D 491/20	ROLETTO, Jacopo
CHEN, Yu	A61K 31/47	PAISSONI, Paolo
BU, Xianzhang	A61P 21/00	(31) 201800003134
WEN, Gesi	(11) EP3413892	(32) 28.02.2018
ZHU, Cuige	(21) EP17750801.7	(33) Italy
YUE, Xin	(47) 20.04.2022	(51) C07D 251/16
(31) 201410032845	(87) US2017017295	C07D 251/18
(32) 23.01.2014	17.08.2017	C07D 251/48
(33) China	(22) 10.02.2017	C07D 403/04
(51) C07C 227/28	(54) TETRAHYDROISOQUINOLINE	A61P 35/00
C07C 227/40	DERIVATIVES	A61P 35/02
C12P 13/00	(73) Cytokinetics, Incorporated	A61K 31/53
(11) EP3558931	(72) OHE, Munemichi	A61K 31/5377
(21) EP17818552.6	SATO, Ippei	A61P 25/28
(47) 20.04.2022	KAMIKUBO, Takashi	A61P 9/10
(87) EP2017083374	GARARD, Marc	(11) EP3456712
28.06.2018	WARRINGTON, Jeffrey, Michael	(21) EP17795572.1
(22) 18.12.2017	MORGAN, Bradley, Paul	(47) 20.04.2022
(54) PROCESS FOR THE PREPARATION	LU, Pu-Ping	(87) CN2017083914
OF AMINOBENZOIC ACID OR AN	MALIK, Fady	16.11.2017
AMINOBENZOIC ACID DERIVATIVE	SAITO, Tomoyuki	(22) 11.05.2017
(73) Covestro Intellectual Property GmbH &	TANAKA, Hiroaki	(54) NOVEL 2,4,6-TRISUBSTITUTED S-
Co. KG	COLLIEBEE, Scott, Emile	TRIAZINE COMPOUND, PREPARATION
(72) HAMEDINGER, Thomas	SHIINA, Yasuhiro	METHOD THEREFOR, AND USE
GÖRTZ, Ivonne	ASHCRAFT, Luke	THEREOF
MOUSSA, Amgad Salah	KIYOHARA, Hiroshi	(73) Luoda Biosciences, Inc.
JÄGER, Gernot	MIURA, Masanori	Nanjing Shiqi Pharmaceutical Co. Ltd.
LOLLI, Giulio	MIHARA, Kayoko	(72) CHEN, Ruihuan
(31) 17203706	YAMAKI, Susumu	WU, Jianping
16205348	MATSUSHIMA, Yuji	ZHANG, Qingqing
(32) 27.11.2017	(31) 201662285039 P	YAO, Qizheng
20.12.2016	(32) 12.02.2016	MO, Lian

YAO, Shining	A61K 31/437	PHARMACEUTICALLY ACCEPTABLE
ZHANG, Lei	A61P 13/12	FORMS THEREOF
(31) 201610325809	A61P 19/06	(73) Celgene Corporation
(32) 12.05.2016	(11) EP3632904	(72) COHEN, Benjamin M.
(33) China	(21) EP18806684.9	TRVERSE, John Fitzgerald
(51) C07D 251/24	(47) 20.04.2022	FEIGELSON, Gregg B.
C07D 251/48	(87) CN2018088400	LEONG, William Wei-Hwa
C07C 251/86	29.11.2018	ZHANG, Chengmin
C07C 249/02	(22) 25.05.2018	(31) 201261681477 P
C07C 249/16	(54) URAT1 INHIBITORS FOR PROMOTING	(32) 09.08.2012
C07D 401/14	URIC ACID EXCRETION	(33) United States of America
C07C 251/24	(73) Jiangsu Atom Bioscience and	(51) C07D 401/04
C07C 251/48	Pharmaceutical Co., Ltd.	A01N 43/40
C07D 213/86	(72) ZHOU, He	(11) EP3325464
(11) EP3406601	ZHU, Jianghua	(21) EP16739183.8
(21) EP17834825.6	WU, Fan	(47) 20.04.2022
(47) 20.04.2022	SHI, Dongfang	(87) EP2016067039
(87) KR2017008184	GU, Jie	02.02.2017
01.02.2018	YANG, Yan	(22) 18.07.2016
(22) 28.07.2017	CHENG, Xi	(54) PYRIDINE COMPOUNDS USEFUL FOR
(54) MULTI-DIRECTIONAL LIGAND FOR	LI, Pengfei	COMBATING PHYTOPATHOGENIC
ORGANOMETALLIC COMPLEX	(31) 201710386922	FUNGI
(73) Seoul National University R & DB	(32) 26.05.2017	(73) BASF SE
Foundation	(33) China	(72) GROTE, Thomas
LG Chem, Ltd.	(51) C07D 307/92	LOHMANN, Jan Klaas
(72) LEE, Dongwhan	A61K 31/343	WOLF, Antje
KWON, Won Jong	A61K 31/365	RIEDIGER, Nadine
KIM, Jung Hwan	A61P 19/02	GRAMMENOS, Wassilios
BAE, Yong Jin	A61P 29/00	MUELLER, Bernd
(31) 20160096904	(11) EP3653614	ESCRIBANO CUESTA, Ana
(32) 29.07.2016	(21) EP18832512.0	FEHR, Marcus
(33) Korea (Republic)	(47) 20.04.2022	WINTER, Christian
(51) C07D 265/16	(87) CN2018095359	WIEBE, Christine
(11) EP3630736	17.01.2019	KOCH, Andreas
(21) EP17740427.4	(22) 12.07.2018	CRAIG, Ian Robert
(47) 20.04.2022	(54) TETRAHYDRONAPHTHO[1,2-	TERTERYAN-SEISER, Violeta
(87) FR2017051293	B]FURAN-2(3H)-ONE DERIVATIVE AND	CAMBEIS, Erica
29.11.2018	PREPARATION AND USE THEREOF IN	KRETSCHMER, Manuel
(22) 24.05.2017	PHARMACEUTICALS	(31) 15178246
(54) HALOGENATED BENZOXAZINE	(73) Shanghai Qingdong Biotechnology Co.,	(32) 24.07.2015
FOR USE IN THE SYNTHESIS OF	Ltd	(33) European Patent Office (EPO)
POLYBENZOXAZINE	(72) ZHANG, Weidong	(51) C07D 401/04
(73) Compagnie Générale des	SUN, Qingyan	C07D 498/04
Etablissements Michelin	(31) 201710576021	C07F 5/02
(72) FEDURCO, Milan	(32) 14.07.2017	(11) EP3740475
RIBEZZO, Marco	(33) China	(21) EP19740733.1
(51) C07D 307/46	(51) C07D 319/12	(47) 20.04.2022
C07D 307/48	C08G 63/08	(87) US2019013844
C07D 307/60	(11) EP3406605	25.07.2019
(11) EP3475267	(21) EP17172281.2	(22) 16.01.2019
(21) EP17739409.5	(47) 20.04.2022	(54) PROCESS OF MAKING
(47) 20.04.2022	(22) 22.05.2017	SOMATOSTATIN MODULATORS
(87) US2017038476	(54) METHODS FOR PRODUCING LACTIDE	(73) Crinetics Pharmaceuticals, Inc.
28.12.2017	WITH RECRYSTALLIZATION AND	(72) MIRMEHRABI, Mahmoud
(22) 21.06.2017	RECYCLE OF MESO-LACTIDE	ZHAO, Jian
(54) PRODUCTION OF SULFONYL AZIDE	(73) NatureWorks LLC	KOTA, Madhukar
ANHYDRIDE	(72) BENSON, Richard Douglas	DASH, Uttam
(73) Dow Global Technologies LLC	SCHROEDER, Joseph D.	REDDY, Jayachandra P.
(72) WALTHER, Brian W.	(51) C07D 401/04	ZHU, Yunfei
MONCADA, Adriana I.	(11) EP3466942	(31) 201862618538 P
KLOSIN, Jerzy	(21) EP18206764.5	(32) 17.01.2018
MADKOUR, Ahmad	(47) 20.04.2022	(33) United States of America
(31) 201662353919 P	(22) 08.08.2013	(51) C07D 401/14
(32) 23.06.2016	(54) PROCESSES FOR THE PREPARATION	C07D 405/14
(33) United States of America	OF (S)-3-4-((4-(MORPHOLINOMETHYL)	C07D 413/14
(51) C07D 307/80	BENZYL)OXY)-1-OXISOINDOLIN-2-	C07D 401/04
C07D 471/04	YL) PIPERIDINE-2,6-DIONE AND	C07D 409/14
A61K 31/343		C07D 491/10

A61K 31/4412	(32) 20.12.2016	(51) C07D 471/04
A61K 31/4427	20.09.2016	A01N 43/90
A61K 31/513	04.08.2016	C07D 487/04
A61P 19/00	(33) European Patent Office (EPO)	(11) EP3247712
A61P 25/16	European Patent Office (EPO)	(21) EP16700583.4
A61P 35/00	European Patent Office (EPO)	(47) 20.04.2022
(11) EP3490982	(51) C07D 403/12	(87) EP2016050593
(21) EP17748875.6	C07D 401/14	28.07.2016
(47) 20.04.2022	C07D 405/14	(22) 14.01.2016
(87) GB2017052178	C07D 413/14	(54) PESTICIDALLY ACTIVE POLYCYCLIC
01.02.2018	C07D 405/12	DERIVATIVES WITH SULFUR
(22) 26.07.2017	C07D 417/14	CONTAINING SUBSTITUENTS
(54) PHARMACEUTICAL COMPOUNDS	C07D 471/04	(73) Syngenta Participations AG
(73) Almac Discovery Limited	C07D 487/04	(72) JUNG, Pierre Joseph Marcel
(72) PROCTOR, Lauren	C07D 498/04	MUEHLEBACH, Michel
BURKAMP, Frank	C07D 513/04	JEANGUENAT, André
MCFARLAND, Mary Melissa	C07D 519/00	EDMUNDS, Andrew
HEWITT, Peter	(11) EP3419971	(31) 15151643
HARRISON, Timothy	(21) EP17707008.3	(32) 19.01.2015
ROUNTREE, James Samuel Shane	(47) 20.04.2022	(33) European Patent Office (EPO)
O'DOWD, Colin	(87) EP2017054268	(51) C07D 473/04
BELL, Christina	31.08.2017	(11) EP3794001
HELM, Matthew Duncan	(22) 24.02.2017	(21) EP19728881.4
(31) 201612938	(54) GLYCOSIDASE INHIBITORS	(47) 20.04.2022
(32) 26.07.2016	(73) Asceneuron SA	(87) EP2019062229
(33) United Kingdom	(72) QUATTROPANI, Anna	21.11.2019
(51) C07D 403/04	GIRI, Awadut, Gajendra	(22) 13.05.2019
C07D 405/14	KULKARNI, Santosh, S.	(54) INTERMEDIATES AND PROCESSES
A61K 31/4155	(31) 201621006636	FOR THE PREPARATION OF
A61P 11/06	(32) 25.02.2016	LINAGLIPTIN AND ITS SALTS
A61P 19/02	(33) India	(73) Cambrex Profarmaco Milano S.r.l.
A61P 29/00	(51) C07D 413/12	(72) VIGO, Daniele
(11) EP3728233	C07D 413/06	CIANCIMINO, Cristina
(21) EP18816105.3	C07D 413/14	TRAGNI, Michele
(47) 20.04.2022	C07D 401/06	PICCOLO, Oreste
(87) EP2018085390	C07D 401/04	(31) 201800005383
27.06.2019	C07D 401/12	(32) 15.05.2018
(22) 18.12.2018	C07D 265/36	(33) Italy
(54) SUBSTITUTED PYRROLIDINE AMIDES	C07D 215/58	(51) C07D 489/08
II	C07D 417/12	A61K 31/485
(73) Grünenthal GmbH	C07D 279/16	(11) EP3608322
(72) ALEN, Jo	A61K 31/538	(21) EP19197036.7
KRÜGER, Sebastian	A61K 31/435	(47) 20.04.2022
SCHADE, Markus	A61P 35/00	(22) 30.09.2009
JAKOB, Florian	A61P 31/04	(54) SYRINGE CONTAINING NMTX
FRIEBE, Daniela	A61P 31/10	BROMIDE
HENNEN, Stephanie	(11) EP3307738	(73) Wyeth LLC
(31) 17208180	(21) EP16808372.3	(72) Ofslager, Christian
(32) 18.12.2017	(47) 20.04.2022	Lokhnauth, John
(33) European Patent Office (EPO)	(87) US2016036889	Melucci, Charles
(51) C07D 403/04	15.12.2016	Fabian, Steven R.
H01L 51/50	(22) 10.06.2016	Zhu, Tianmin
(11) EP3494112	(54) ARYL DIHYDRO-2H-BENZO[B]	Zhang, Huyi
(21) EP17758054.5	[1,4]OXAZINE SULFONAMIDE AND	Szeliga, Jan
(47) 20.04.2022	RELATED COMPOUNDS FOR USE	Megati, Sreenivasulu
(87) EP2017069434	AS AGONISTS OF RORY AND THE	Bazhina, Nataliya
08.02.2018	TREATMENT OF DISEASE	Donato, George Joseph
(22) 01.08.2017	(73) The Regents of the University of	Radebaugh, Galen
(54) ORGANIC MOLECULES FOR USE	Michigan	Shah, Syed M.
IN ORGANIC OPTOELECTRONIC	(72) AICHER, Thomas, Daniel	Patel, Niketa
DEVICES	VANHUIS, Chad, A.	(31) 237428 P
(73) cynora GmbH	TAYLOR, Clarke, B.	226581 P
(72) LIAPTSIS, Georgios	(31) 201562210078 P	101201 P
DANZ, Michael	201562174094 P	(32) 27.08.2009
SEIFERMANN, Stefan	(32) 26.08.2015	17.07.2009
(31) 16205432	11.06.2015	30.09.2008
16189677	(33) United States of America	(33) United States of America
16182886	United States of America	United States of America

<p>United States of America</p> <hr/> <p>(51) C07D 495/04 A61P 5/02 A61P 15/08</p> <p>(11) EP3415517 (21) EP18185835.8 (47) 20.04.2022 (22) 27.09.2013</p> <p>(54) CRYSTALLINE FORM OF 1-(4-1-(2,6-DIFLUOROBENZYL)-5-DIMETHYLAMINOMETHYL-3-(6-METHOXYPYRIDAZIN-3-YL)-2,4-DIOXO-1,2,3,4-TETRAHYDROTHIENO(2,3-D)-PYRIMIDIN-6YL)PHENYL-3-METHOXYUREA</p> <p>(73) Takeda Pharmaceutical Company Limited</p> <p>(72) MIWA, Kazuhiro KOMURA, Fumiya SASAKI, Tsuyoshi</p> <p>(31) 2012217679 (32) 28.09.2012 (33) Japan</p> <hr/> <p>(51) C07F 1/08 C09K 11/06 H01L 51/00 H01L 51/50</p> <p>(11) EP3621969 (21) EP18725441.2 (47) 20.04.2022 (87) EP2018061905 15.11.2018 (22) 08.05.2018</p> <p>(54) CUPRATE COMPOUNDS, AND METHOD FOR THE PRODUCTION THEREOF AND POSSIBLE USES</p> <p>(73) Universität Bremen</p> <p>(72) VOGT, Matthias BECKMANN, Jens OLARU, Marian</p> <p>(31) 102017207804 (32) 09.05.2017 (33) Germany</p> <hr/> <p>(51) C07F 9/10 C07C 69/24 C07C 69/58 C07C 69/587 A61K 31/661 A61K 31/23 A61K 31/232 A61P 29/00 A61P 35/00 A61P 3/00</p> <p>(11) EP3134421 (21) EP15720662.4 (47) 20.04.2022 (87) EP2015058960 29.10.2015 (22) 24.04.2015</p> <p>(54) NEW LIPOPHENOL COMPOUNDS AND USES THEREOF</p> <p>(73) Centre Hospitalier Universitaire de Montpellier Centre National de la Recherche Scientifique Université de Montpellier</p>	<p>Institut National de la Santé et de la Recherche Médicale (INSERM) Université Clermont Auvergne</p> <p>(72) CIA, David DURAND, Thierry VIGOR, Claire VERCAUTEREN, Joseph GUILLOU, Laurent HAMEL, Christian BRABET, Philippe CRAUSTE, Céline</p> <p>(31) 14305607 (32) 24.04.2014 (33) European Patent Office (EPO)</p> <hr/> <p>(51) C07F 15/00 C09K 11/06</p> <p>(11) EP3620461 (21) EP19199124.9 (47) 20.04.2022 (22) 03.07.2017</p> <p>(54) ORGANOMETALLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME, AND DIAGNOSTIC COMPOSITION INCLUDING THE ORGANOMETALLIC COMPOUND</p> <p>(73) Samsung Electronics Co., Ltd.</p> <p>(72) KIM, Soyeon CHOI, Byoungki HWANG, Kyuyoung KIM, Sangdong KWAK, Yoonhyun JEON, Aram KOO, Hyun CHOI, Hyeonho LEE, Jungin KWON, Ohyun</p> <p>(31) 20160085069 (32) 05.07.2016 (33) Korea (Republic)</p> <hr/> <p>(51) C07K 14/52 A61K 31/496 A61K 31/5025 A61K 31/7088 A61K 35/00 A61K 38/17 A61K 45/06 A61P 35/00 A61P 37/02 A61P 43/00</p> <p>(11) EP3551649 (21) EP17709417.4 (47) 20.04.2022 (87) EP2017055216 21.06.2018 (22) 06.03.2017</p> <p>(54) HMGB1 MUTANTS</p> <p>(73) Ruprecht-Karls-Universität Heidelberg</p> <p>(72) GDYNIA, Georg</p> <p>(31) PCT/EP2016/080671 (32) 12.12.2016 (33) World Intellectual Property Office (WIPO)</p> <hr/> <p>(51) C07K 14/725 C07K 14/705 A61K 35/14</p> <p>(11) EP3055326 (21) EP14784368.4 (47) 20.04.2022</p>	<p>(87) GB2014053058 16.04.2015 (22) 10.10.2014</p> <p>(54) CHIMERIC ANTIGEN RECEPTOR</p> <p>(73) Autolus Limited</p> <p>(72) PULÉ, Martin LEE, Lydia DRAPER, Ben YONG, Kwee</p> <p>(31) 201317929 (32) 10.10.2013 (33) United Kingdom</p> <hr/> <p>(51) C07K 14/765 A61K 38/39 A61K 47/64 C07K 14/78 C12N 15/62</p> <p>(11) EP3572424 (21) EP19170042.6 (47) 20.04.2022 (22) 19.03.2015</p> <p>(54) SERUM ALBUMIN-BINDING FIBRONECTIN TYPE III DOMAINS</p> <p>(73) Bristol-Myers Squibb Company</p> <p>(72) PARKER, Rex LIPOVSEK, Dasa CAMPHAUSEN, Ray FABRIZIO, David GOSSELIN, Michael, L. DAVIS, Jonathan MITCHELL, Tracy, S.</p> <p>(31) 201461968181 P (32) 20.03.2014 (33) United States of America</p> <hr/> <p>(51) C08B 37/02 C08L 67/04</p> <p>(11) EP3802625 (21) EP19766067.3 (47) 20.04.2022 (87) IB2019054735 19.12.2019 (22) 06.06.2019</p> <p>(54) PHOTOPOLYMERIZED BIODEGRADABLE COPOLYMER FORMULATIONS FOR BIOMEDICAL APPLICATIONS</p> <p>(73) Universidade de Coimbra Universidade do Porto</p> <p>(72) JORDÃO COELHO, Jorge Fernando DAMÁSIO ALVITES, Rui DOMINGOS SANTOS, José VIEIRA BRANQUINHO, Mariana Esteves FERRAZ AMORIM CRUZ, Irina DA SILVA PINHO, Ana Catarina ALMEIDA SANTOS PEDROSA, Sílvia Marlene CASEIRO SANTOS, Ana Rita AMARAL LOUREIRO DA FONSECA, Ana Clotilde PEREIRA DE CASTRO OSÓRIO MAURÍCIO, Ana Colette COIMBRA SERRA, Arménio</p> <p>(31) 2018110781 (32) 11.06.2018 (33) Portugal</p> <hr/> <p>(51) C08F 4/6592 C08F 4/659 C08F 210/16</p>
---	--	---

C07F 7/28	(47) 20.04.2022	(73) Carbon, Inc.
C07F 7/10	(87) EP2018074086	(72) ROBBINS, Gregory R.
(11) EP3524612	21.03.2019	POLLACK, Steven Kenneth
(21) EP18858677.0	(22) 07.09.2018	(31) 201762561829 P
(47) 20.04.2022	(54) PROCESS FOR THE PREPARATION	(32) 22.09.2017
(87) KR2018011105	OF CATALYST COMPONENTS FOR	(33) United States of America
28.03.2019	THE POLYMERIZATION OF OLEFINS	(51) C08F 230/04
(22) 20.09.2018	(73) Basell Poliolefine Italia S.r.l.	C08F 12/14
(54) LIGAND COMPOUND, TRANSITION	(72) FUSCO, Ofelia	(11) EP3102619
METAL COMPOUND, AND CATALYST	ARICH DE FINETTI, Nicolò	(21) EP15704281.3
COMPOSITION COMPRISING THE	GADDI, Benedetta	(47) 20.04.2022
TRANSITION METAL COMPOUND	BRITA, Diego	(87) EP2015052530
(73) LG Chem, Ltd.	(31) 17191417	13.08.2015
(72) CHO, Yoon Hee	(32) 15.09.2017	(22) 06.02.2015
JANG, Jae Kwon	(33) European Patent Office (EPO)	(54) PROCESS FOR PREPARING
(31) 20170123710	(51) C08F 110/06	POLYMER MATERIALS COMPRISING
(32) 25.09.2017	C08F 4/657	ONE OR MORE METALLIC ELEMENTS
(33) Korea (Republic)	(11) EP3749698	(73) Commissariat à l'Énergie Atomique et
(51) C08F 6/12	(21) EP19701129.9	aux Énergies Alternatives
C08F 6/04	(47) 20.04.2022	(72) BALLAND LONGEAU, Alexia
C08F 6/16	(87) EP2019051886	POUPONNEAU, Pierre
B01D 3/32	08.08.2019	CADRA, Stéphane
(11) EP3763749	(22) 25.01.2019	(31) 1450910
(21) EP19899659.7	(54) COMPONENTS AND CATALYSTS FOR	(32) 06.02.2014
(47) 20.04.2022	THE POLYMERIZATION OF OLEFINS	(33) France
(87) KR2019016487	(73) Basell Poliolefine Italia S.r.l.	(51) C08F 230/08
25.06.2020	(72) GUIDOTTI, Simona	C08F 232/08
(22) 27.11.2019	VITALE, Gianni	C08K 5/5425
(54) METHOD FOR PURIFYING SOLVENT	LIGUORI, Dario	C08L 9/00
(73) LG CHEM, LTD.	MORINI, Giampiero	C08L 43/04
(72) KIM, Seonghun	(31) 18155138	B60C 1/00
JANG, Sungkeun	(32) 05.02.2018	C08L 57/02
KIM, Donghoon	(33) European Patent Office (EPO)	(11) EP3077433
HEO, Changhoe	(51) C08F 210/02	(21) EP14867356.9
JOO, Eun Jung	C08G 81/02	(47) 20.04.2022
(31) 20180166726	C08F 8/30	(87) US2014050475
(32) 20.12.2018	C08F 8/48	11.06.2015
(33) Korea (Republic)	(11) EP3400250	(22) 11.08.2014
(51) C08F 30/04	(21) EP17700010.6	(54) FUNCTIONALIZED RESINS FOR HIGH
C08K 5/098	(47) 20.04.2022	PERFORMANCE TIRES
C08K 3/013	(87) EP2017050009	(73) ExxonMobil Chemical Patents Inc.
C08J 9/00	14.09.2017	(72) CHEN, Yuan-ju
C08J 9/12	(22) 02.01.2017	DIAS, Anthony J.
C08F 220/06	(54) PROCESS FOR PREPARING	BLOK, Edward J.
C08J 9/14	GRAFT COPOLYMER COMPRISING	STEWART, Ian C.
C08K 3/22	POLYETHYLENE	(31) 201361912115 P
C08K 3/26	(73) SABIC Global Technologies B.V.	14155670
C08F 257/02	(72) CASTANEDA ZUNIGA, Diego, Mauricio	(32) 05.12.2013
(11) EP3322737	DUCHATEAU, Jan, Nicolaas, Eddy	19.02.2014
(21) EP15878239.1	BUSCH, Markus	(33) United States of America
(47) 20.04.2022	FRIES, Sebastian, Bruno	European Patent Office (EPO)
(87) US2015016000	NEUTEBOOM, Peter	(51) C08F 236/10
21.07.2016	(31) 16150205	C08F 212/08
(22) 16.02.2015	(32) 05.01.2016	C08C 19/25
(54) POLYMER FOAMS	(33) European Patent Office (EPO)	C08C 19/44
(73) Fina Technology, Inc.	(51) C08F 222/10	C08C 19/22
(72) DANIELS, Leland	B33Y 70/00	C08L 15/00
CORTES, Leonardo	B29C 64/106	C08K 3/04
ASHBAUGH, John	B29C 64/124	C08K 3/36
TIPPET, Jon	(11) EP3684826	C08K 3/013
LI, Fengkui	(21) EP18782279.6	C08K 9/06
MYHALL, Marc	(47) 20.04.2022	C08F 6/00
BLACKMON, Kenneth	(87) US2018051289	B60C 1/00
(51) C08F 110/06	28.03.2019	(11) EP3473654
C08F 4/654	(22) 17.09.2018	(21) EP17813544.8
C08F 4/646	(54) PRODUCTION OF LIGHT-	(47) 20.04.2022
(11) EP3681914	TRANSMISSIVE OBJECTS BY	(87) KR2017006093
(21) EP18762535.5	ADDITIVE MANUFACTURING	21.12.2017

- (22) 12.06.2017
(54) METHOD FOR PREPARING MODIFIED CONJUGATED DIENE-BASED POLYMER, AND MODIFIED CONJUGATED DIENE-BASED POLYMER PREPARED BY USING SAME
(73) LG Chem, Ltd.
(72) KIM, Sun Keun
LEE, Ho Young
KIM, No Ma
LEE, Sang Mi
(31) 20160076018
(32) 17.06.2016
(33) Korea (Republic)

(51) C08F 236/12
C08L 9/02
C08L 15/00
(11) EP3728355
(21) EP18814966.0
(47) 20.04.2022
(87) EP2018084755
27.06.2019
(22) 13.12.2018
(54) NITRILE DIENE CARBOXYLIC ACID ESTER COPOLYMERS
(73) ARLANXEO Deutschland GmbH
(72) LIEBER, Susanna
BRANDAU, Sven
STÄBER, Robert
(31) 17290164
(32) 21.12.2017
(33) European Patent Office (EPO)

(51) C08F 265/06
C09J 151/06
C09J 133/08
C08F 220/18
(11) EP3519473
(21) EP17749018.2
(47) 20.04.2022
(87) US2017043591
05.04.2018
(22) 25.07.2017
(54) ACTIVATABLE ADHESIVE COMPOSITIONS AND LINERLESS LABELS AND TAPES COMPRISING SAME
(73) Rohm and Haas Company
(72) EINSLA, Melinda L.
ZOLYNSKI, Sarah
HIMMELBERGER, Daniel W.
GRIFFITH, William B.
(31) 201662402416 P
(32) 30.09.2016
(33) United States of America

(51) C08F 290/06
C08F 290/10
C09D 11/30
C09D 11/38
C09D 11/101
C09D 11/36
C09D 151/08
(11) EP3781606
(21) EP19788915.7
(47) 20.04.2022
(87) US2019027780
24.10.2019
(22) 17.04.2019
(54) RADIATION CURABLE INKJET INK COMPOSITIONS, PRINTED ARTICLES, AND THERMAL INKJET METHODS OF USING THE SAME
(73) Kao Corporation
(72) CUMMINGS, Stephen
BUCHANAN, Stephen
NOWACKI, Stan
CONTRACTOR, Muslim
(31) 201862659367 P
(32) 18.04.2018
(33) United States of America

(51) C08G 64/34
C08G 64/40
C08G 65/26
C08G 65/30
C07C 29/12
(11) EP3810674
(21) EP19730820.8
(47) 20.04.2022
(87) EP2019066229
26.12.2019
(22) 19.06.2019
(54) METHOD FOR THE PREPARATION OF POLYOL
(73) Covestro Intellectual Property GmbH & Co. KG
(72) KNAUP, Harald
LORENZ, Klaus
LAEMMERHOLD, Kai
HOFMANN, Jörg
NORWIG, Jochen
NEFZGER, Hartmut
(31) 18179395
(32) 22.06.2018
(33) European Patent Office (EPO)

(51) C08G 65/00
A61L 27/00
C08G 83/00
C08J 7/00
C12M 1/22
C09D 201/00
(11) EP3478743
(21) EP17754075.4
(47) 20.04.2022
(87) EP2017066313
04.01.2018
(22) 30.06.2017
(54) AMPHIPHILIC BLOCK COPOLYMER AND COATING ARRANGEMENT
(73) Freie Universität Berlin
(72) WEINHART, Marie
YU, Leixiao
HAAG, Rainer
WEI, Qiang
(31) 16177279
(32) 30.06.2016
(33) European Patent Office (EPO)

(51) C08G 65/331
C08G 65/333
C08G 59/50
C08G 59/58
C09D 11/102
(11) EP3800215
(21) EP20198718.7
(47) 20.04.2022
(22) 28.09.2020
(54) DISPERSING AGENT
(73) Siegwerk Druckfarben AG & Co. KGaA
(72) Gong, Tao
Shao, Huanzhen
Jin, ZhiLai
Noirot, Pierre-Antoine
(31) 201910946112
(32) 02.10.2019
(33) China

(51) C08G 77/04
C08G 77/32
(11) EP3894463
(21) EP18819078.9
(47) 20.04.2022
(87) EP2018084241
18.06.2020
(22) 10.12.2018
(54) PROCESS FOR PREPARING SPHERICAL SILICONE RESIN PARTICLES
(73) Wacker Chemie AG
(72) KNÖR, Sebastian
KRÖNER, Sebastian

(51) C08G 81/02
C08F 210/02
C08F 8/30
C08F 8/48
C08F 2/38
C08F 8/34
(11) EP3400255
(21) EP17700011.4
(47) 20.04.2022
(87) EP2017050010
13.07.2017
(22) 02.01.2017
(54) PROCESS FOR PREPARING GRAFT COPOLYMER COMPRISING POLYETHYLENE
(73) SABIC Global Technologies B.V.
(72) FRIES, Sebastian, Bruno
BUSCH, Markus
NEUTEBOOM, Peter
DUCHATEAU, Jan, Nicolaas, Eddy
CASTANEDA ZUNIGA, Diego, Mauricio
(31) 16150206
(32) 05.01.2016
(33) European Patent Office (EPO)

(51) C08J 5/04
F41H 5/02
F41H 5/04
B32B 5/26
(11) EP3606982
(21) EP18710497.1
(47) 20.04.2022
(87) EP2018056809
11.10.2018
(22) 19.03.2018
(54) HIGH PERFORMANCE FIBERS COMPOSITE SHEET
(73) DSM IP Assets B.V.
(72) VAN DER WERFF, Harm
BREMER, Leonardus Gerardus Bernardus
DICKINSON, Brad Alan
PEREZ GRATEROL, Raul Marcelino
ELEMANS, Petrus Henricus Maria
(31) 201762482256 P
17182931
(32) 06.04.2017

25.07.2017	(47) 20.04.2022	ENOMOTO, Norihide
(33) United States of America	(87) US2019033663	(31) 2018074929
European Patent Office (EPO)	28.11.2019	2018074240
(51) C08J 9/26	(22) 23.05.2019	(32) 09.04.2018
B29C 39/00	(54) A COATING COMPOSITION	06.04.2018
C08F 2/22	(73) PPG Industries Ohio Inc.	(33) Japan
(11) EP3744772	(72) FIX, Katlyn M.	Japan
(21) EP19744332.8	VERES, Keri M.	(51) C08L 23/06
(47) 20.04.2022	(31) 201815987963	C08L 23/08
(87) JP2019001730	(32) 24.05.2018	C08F 2/00
01.08.2019	(33) United States of America	(11) EP3710528
(22) 21.01.2019	(51) C08K 5/375	(21) EP18800173.9
(54) METHOD FOR MANUFACTURING	C08L 23/04	(47) 20.04.2022
POROUS COMPACT	C08L 71/02	(87) EP2018080966
(73) FUJIFILM Corporation	(11) EP3587484	23.05.2019
(72) ITO, Koju	(21) EP19192119.6	(22) 12.11.2018
OKU, Keisuke	(47) 20.04.2022	(54) POLYETHYLENE RESIN AND CAPS OR
UCHIDA, Yoshiaki	(22) 15.05.2012	CLOSURES MADE THEREFROM
YABU, Hiroshi	(54) THIOBIS PHENOLIC ANTIOXIDANT/ POLYETHYLENE GLYCOL BLENDS	(73) TotalEnergies One Tech Belgium
(31) 2018008561	(73) Union Carbide Corporation	(72) VANTOMME, Aurélien
(32) 23.01.2018	(72) ADAMCZYK, Antoni	SIGWALD, Armelle
(33) Japan	SONG, Susan	STANDAERT, Alain
(51) C08J 9/34	COGEN, Jeffrey, M.	RIBOUR, David
B29C 45/00	EMLEY, Danel	(31) 17202388
C08L 23/06	DUNCHUS, Neil, W.	(32) 17.11.2017
C08J 3/28	(31) 201161488375 P	(33) European Patent Office (EPO)
(11) EP3402836	(32) 20.05.2011	(51) C08L 23/12
(21) EP16785434.8	(33) United States of America	(11) EP3473674
(47) 20.04.2022	(51) C08L 7/00	(21) EP17197338.1
(87) EP2016075167	C08L 9/06	(47) 20.04.2022
20.07.2017	C08K 3/04	(22) 19.10.2017
(22) 20.10.2016	C08L 57/02	(54) POLYPROPYLENE COMPOSITION
(54) FOAMED INJECTION MOULDED	C08L 65/00	(73) Borealis AG
ARTICLE	C08K 5/053	ABU DHABI POLYMERS CO. LTD
(73) SABIC Global Technologies B.V.	C08L 17/00	(BOROUGE) LLC.
(72) YANEV, Angel	(11) EP3907255	(72) QUDAIH, Rana N. S.
VAN ES, Martin Antonius	(21) EP21168017.8	VAN HOUCKE, Daniel Marie
GERRITS, Niclasina Siberta Johanna	(47) 20.04.2022	(51) C08L 23/12
Alberdina	(22) 13.04.2021	(11) EP3619265
JONGE DE, Harmen Maria Hendrik	(54) RUBBER COMPOSITION FOR TIRE	(21) EP18726638.2
(31) 16150898	TREAD, TIRE TREAD AND TIRE	(47) 20.04.2022
(32) 12.01.2016	(73) Sumitomo Rubber Industries, Ltd.	(87) US2018030698
(33) European Patent Office (EPO)	(72) NAGAI, Haruka	08.11.2018
(51) C08K 3/04	(31) 2020081951	(22) 02.05.2018
C08J 5/00	(32) 07.05.2020	(54) CARBON FIBER REINFORCED
(11) EP3174827	(33) Japan	POLYOLEFIN COMPOSITONS AND
(21) EP15826460.6	(51) C08L 9/02	METHODS
(47) 20.04.2022	A41D 19/00	(73) Equistar Chemicals, LP
(87) US2015042623	A41D 19/04	(72) YANG, Changlai
04.02.2016	B29C 41/14	LU, Jue
(22) 29.07.2015	C08K 5/053	DAMMANN, Michael J.
(54) GRAPHENE-REINFORCED POLYMER	C08L 13/00	(31) 201762500929 P
MATRIX COMPOSITES	C08L 63/00	(32) 03.05.2017
(73) Rutgers, the State University of New	C08K 5/53	(33) United States of America
Jersey	(11) EP3575357	(51) C08L 23/12
(72) NOSKER, Thomas	(21) EP19733935.1	C08L 23/14
HENDRIX, Justin	(47) 20.04.2022	H01L 31/048
CHIU, Gordon	(87) JP2019013455	C08K 3/22
LYNCH, Jennifer	10.10.2019	C08K 3/34
KEAR, Bernard	(22) 27.03.2019	C08L 23/08
(31) 201462030799 P	(54) COMPOSITION FOR DIP MOLDING,	C08L 23/16
(32) 30.07.2014	METHOD FOR PRODUCING GLOVES,	C08L 51/06
(33) United States of America	AND GLOVES	H01L 31/049
(51) C08K 5/00	(73) Midori Anzen Co., Ltd.	(11) EP3368605
C09D 167/00	(72) SHIBASAKI, Junji	(21) EP16745718.3
C08G 63/91	OGAWA, Taichi	(47) 20.04.2022
(11) EP3802683	SHIBATA, Kaname	(87) EP2016068152
(21) EP19732156.5		04.05.2017

(22) 29.07.2016	(72) SANGUINETI, Aldo	(87) JP2019033854
(54) POLYPROPYLENE COMPOSITION FOR A LAYER ELEMENT	SRINIVASAN, Satchit	05.03.2020
(73) Borealis AG	MIRENDA, Marco	(22) 29.08.2019
(72) PLANK, Michaela	(31) 17179708	(54) COMPOSITION, THERMOPLASTIC RESIN COMPOSITION CONTAINING SAME, AND MOLDED ARTICLE OF SAID THERMOPLASTIC RESIN COMPOSITION
BROEDERS, Bert	(32) 05.07.2017	(73) ADEKA CORPORATION
MUCKENHUBER, Harald	(33) European Patent Office (EPO)	(72) YOKOTA, Yuri
SCHENK, Verena	(51) C08L 61/00	FUKUDA, Takuya
BERNREITNER, Klaus	B60C 1/00	(31) 2018228135
KRUMBLACHER, Werner	C08L 7/00	2018162147
SANDHOLZER, Martina	C08L 9/00	(32) 05.12.2018
(31) 15191896	C08G 14/06	30.08.2018
(32) 28.10.2015	C08G 16/02	(33) Japan
(33) European Patent Office (EPO)	(11) EP3487931	Japan
(51) C08L 23/12	(21) EP17751802.4	(51) C09D 5/00
C08L 23/16	(47) 20.04.2022	C09K 3/14
(11) EP3390531	(87) FR2017051979	C08K 3/04
(21) EP16876188.0	25.01.2018	B32B 5/16
(47) 20.04.2022	(22) 20.07.2017	(11) EP3523376
(87) US2016043057	(54) HIGH-STRENGTH RUBBER COMPOSITION	(21) EP17859069.1
22.06.2017	(73) Compagnie Générale des Etablissements Michelin	(47) 20.04.2022
(22) 20.07.2016	(72) GAVARD-LONCHAY, Odile	(87) US2017055033
(54) POLYMER BLEND, METHOD FOR MAKING THE SAME AND ROOFING MEMBRANE CONTAINING THE SAME	DOISNEAU, David	12.04.2018
(73) ExxonMobil Chemical Patents Inc.	THUILLIEZ, Anne-Lise	(22) 04.10.2017
(72) LI, Liang	(31) 1656980	(54) COATING COMPOSITIONS INCLUDING DIAMOND AND EITHER CATIONIC CURABLE RESIN SYSTEMS OR THIOL-ENE CURABLE SYSTEMS
ZACARIAS, Felix, M.	(32) 21.07.2016	(73) AFI Licensing LLC
KALFUS, Jan	(33) France	(72) ROSS, Jeffrey, S.
DHARMARAJAN, Narayanaswami	(51) C08L 77/06	TIAN, Dong
(31) 201562266994 P	C08L 77/02	(31) 201662404445 P
16159066	C08L 53/02	(32) 05.10.2016
(32) 14.12.2015	C08L 9/00	(33) United States of America
08.03.2016	C08L 33/12	(51) C09D 5/02
(33) United States of America	(11) EP3484959	C09D 133/08
European Patent Office (EPO)	(21) EP17901332.1	C09D 7/65
(51) C08L 23/16	(47) 20.04.2022	C09D 133/14
C08F 4/659	(87) CN2017103607	C09D 7/40
C08K 3/04	04.04.2019	(11) EP3452551
C08K 5/01	(22) 27.09.2017	(21) EP17793037.7
C08K 3/26	(54) TOUGH POLYAMIDE MOULDING MATERIAL	(47) 20.04.2022
(11) EP3464462	(73) Evonik Specialty Chemicals (Shanghai) Co., Ltd.	(87) US2017030074
(21) EP17730299.9	(72) HUANG, Yi Jhen	09.11.2017
(47) 20.04.2022	TENG, Fei	(22) 28.04.2017
(87) US2017035020	WANG, Zhisheng	(54) AQUEOUS PAINT COMPOSITIONS WITH SOFT FEEL AND LIGHT DIFFUSION EFFECTS
07.12.2017	YANG, Jianmin	(73) Benjamin Moore & Co.
(22) 30.05.2017	ZHANG, Hong	(72) YANG, Yong
(54) ETHYLENE/ALPHA-OLEFIN/DIENE INTERPOLYMERS COMPOSITIONS	(51) C08L 83/04	COOPER, Glenn
(73) Dow Global Technologies LLC	(11) EP3837317	SHEERIN, Robert
(72) LIPISHAN, Colin	(21) EP18756236.8	SHAVEL, Clarena
HATTORI, Isao	(47) 20.04.2022	GARCIA, Johanna
HAN, Tao	(87) EP2018072353	(31) 201615147938
(31) PCT/CN2016/083876	20.02.2020	(32) 06.05.2016
(32) 30.05.2016	(22) 17.08.2018	(33) United States of America
(33) World Intellectual Property Office (WIPO)	(54) CROSSLINKABLE ORGANOSILOXANE COMPOSITIONS	(51) C09D 5/14
(51) C08L 27/16	(73) Wacker Chemie AG	(11) EP3775059
C08L 27/12	(72) OSTENDORF, Detlev	(21) EP19701852.6
(11) EP3649193	(51) C08L 101/00	(47) 20.04.2022
(21) EP18731872.0	C08K 5/09	(87) EP2019051866
(47) 20.04.2022	C08K 5/098	03.10.2019
(87) EP2018066903	C08K 5/523	(22) 25.01.2019
10.01.2019	C08L 23/10	
(22) 25.06.2018	C08K 5/527	
(54) COMPOSITION CONTAINING FLUORINATED THERMOPLASTIC ELASTOMERS AND VULCANIZATES	(11) EP3708615	
(73) Solvay Specialty Polymers Italy S.p.A.	(21) EP19855422.2	
	(47) 20.04.2022	

(54) ANTIMICROBIAL STORAGE OF WATER OR AQUEOUS SOLUTIONS ESPECIALLY IN MOTOR VEHICLES	B41J 2/16 B41J 2/01 (11) EP3674087	(51) C09K 11/68 C09K 11/67 H05B 33/14
(73) Kautex Textron GmbH & Co. KG	(21) EP17922113.0	(11) EP3768800
(72) HEIDEMEYER, Timm	(47) 20.04.2022	(21) EP19710700.6
EBERHARDT, Agnes	(87) JP2017030385	(47) 20.04.2022
METSAHEL, Sammy	28.02.2019	(87) EP2019056642
(31) 102018107149	(22) 24.08.2017	26.09.2019
(32) 26.03.2018	(54) INKJET LIQUID COMPOSITION	(22) 18.03.2019
(33) Germany	(73) Kao Corporation	(54) MN-ACTIVATED OXIDOHALIDES AS CONVERSION LUMINESCENT MATERIALS FOR LED-BASED SOLID STATE LIGHT SOURCES
(51) C09D 11/10	(72) SUZUKI, Yuki	(73) LITEC-
C08G 18/42	KUNII, Satoshi	Vermögensverwaltungsgesellschaft mbH
(11) EP3097160	TANAKA, Satoshi	(72) JANSEN, Thomas
(21) EP15740265.2	FUKUDA, Teruyuki	JUESTEL, Thomas
(47) 20.04.2022		PETRY, Ralf
(87) US2015012133		KOEHLER, Ingo
30.07.2015		SIEVERT, Katharina
(22) 21.01.2015	(87) GB2014052883	(31) 18162844
(54) URETHANE-COMPATIBLE POLYESTER ADHESION PROMOTERS	26.03.2015	(32) 20.03.2018
(73) Sun Chemical Corporation	(22) 23.09.2014	(33) European Patent Office (EPO)
(72) SCHNEIDER, Mark	(54) MULTI-PART ADHESIVE AND ITS METHOD OF MANUFACTURE	
HUNT, Paul	(73) Mix 14 Ltd.	(51) C10G 1/04
KRISHNAN, Ramasamy	(72) TOWNLEY, Gary	C10L 1/00
SMALES, Paul	(31) 201316892	(11) EP2588566
ARCURIO, Ralph	(32) 23.09.2013	(21) EP11799964.9
CHUDOLIJ, Alex	(33) United Kingdom	(47) 20.04.2022
(31) 201462016135 P		(87) AU2011000802
201461930051 P	(51) C09K 3/14	05.01.2012
(32) 24.06.2014	C04B 35/111	(22) 29.06.2011
22.01.2014	C01F 7/44	(54) BALLISTIC HEATING PROCESS
(33) United States of America	B01J 2/26	(73) Licella Fibre Fuels Pty Ltd
United States of America	C04B 35/626	Licella Pty Limited
(51) C09D 11/101	(11) EP3455321	Ignite Resources Pty Ltd
B29C 64/40	(21) EP17796782.5	(72) BENNETT, Mathew
C09D 11/30	(47) 20.04.2022	KLATT, Peter, Waldemar
H05K 3/06	(87) US2017031998	HUMPHREYS, Leonard, James
G03F 7/027	16.11.2017	(31) 2010902938
(11) EP3757174	(22) 10.05.2017	(32) 01.07.2010
(21) EP19183167.6	(54) METHODS OF FORMING ABRASIVE PARTICLES	(33) Australia
(47) 20.04.2022	(73) Saint-Gobain Ceramics&Plastics, Inc.	(51) C10G 29/20
(22) 28.06.2019	(72) MOCH, Eric	C07D 487/18
(54) RADIATION CURABLE INKJET INK FOR ALKALINE ETCHING OR PLATING APPLICATIONS	BOUSSANT-ROUX, Yves	(11) EP3601486
(73) AGFA-GEVAERT NV	FREMY, Flavien	(21) EP18716872.9
(72) LOCCUFIER, Johan	CZEREPINSKI, Jennifer H.	(47) 20.04.2022
	BAUER, Ralph	(87) US2018024280
(51) C09D 11/101	(31) 201662334296 P	04.10.2018
C09D 11/322	(32) 10.05.2016	(22) 26.03.2018
C09D 11/38	(33) United States of America	(54) DISPERSION OF HEXAMINE IN NON-AQUEOUS GLYCERIN AND METHOD OF SCAVENGING HYDROGEN SULFIDE USING SAID DISPERSION
(11) EP3524649	(51) C09K 8/508	(73) Ecolab USA, Inc.
(21) EP19155442.7	C09K 8/44	(72) SOLOMON, Kim R.
(47) 20.04.2022	C08L 35/00	(31) 201762478429 P
(22) 05.02.2019	(11) EP3673029	(32) 29.03.2017
(54) RADIATION-CURABLE INK, DEPOSITED MATTER, AND METHOD FOR PRODUCING RADIATION-CURABLE INK	(21) EP18769924.4	(33) United States of America
(73) Mimaki Engineering Co., Ltd.	(47) 20.04.2022	(51) C10J 3/62
(72) HASHIZUME, Hironori	(87) US2018047260	H02J 3/04
OHARA, Kazuki	28.02.2019	(11) EP3071675
SAITO, Osamu	(22) 21.08.2018	(21) EP14805525.4
(31) 2018019984	(54) COMPOSITIONS WITH POLYAZIRIDINE CROSSLINKERS FOR TREATING SUBTERRANEAN FORMATIONS	(47) 20.04.2022
(32) 07.02.2018	(73) Saudi Arabian Oil Company	(87) EP2014075330
(33) Japan	(72) REDDY, B. Raghava	28.05.2015
	HILFIGER, Matthew Gary	(22) 21.11.2014
(51) C09D 11/38	(31) 201715682836	(54) COMBINED ENERGY NETWORK
C09D 11/324	(32) 22.08.2017	(73) RV Lizenz AG
C09D 11/322	(33) United States of America	

(72) RÜDLINGER, Mikael	D21B 1/02	(73) Åbyhammar Med Enskild Firma Scandry,
(31) 13193803	C10L 5/36	Tomas
(32) 21.11.2013	C10L 9/08	(72) ÅBYHAMMAR, Tomas
(33) European Patent Office (EPO)	(11) EP3707225	(31) 1451097
(51) C10L 1/04	(21) EP18876556.4	(32) 18.09.2014
(11) EP3652278	(47) 20.04.2022	(33) Sweden
(21) EP18752317.0	(87) SE2018050963	(51) C10M 143/00
(47) 20.04.2022	16.05.2019	C10M 169/04
(87) US2018040568	(22) 21.09.2018	C10M 177/00
17.01.2019	(54) METHOD AND SYSTEM FOR	C10M 107/00
(22) 02.07.2018	PROCESSING LIGNOCELLULOSE	C10M 107/02
(54) MULTI-STAGE UPGRADING	MATERIAL	C10M 119/00
PYROLYSIS TAR PRODUCTS	(73) VALMET AB	C10M 121/00
(73) ExxonMobil Research and Engineering	(72) LAMBERT, Francois	(11) EP3091065
Company	AVERHEIM, Andreas	(21) EP16165940.4
(72) RUBIN-PITEL, Sheryl, B.	ERIXON, Mattias	(47) 20.04.2022
XU, Teng	BJÖRKLUND, Peter	(22) 19.04.2016
KAR, Kenneth, Chi Hang	(31) 1751388	(54) LUBRICANT COMPOSITION, AND
FERRUGHELLI, David, T.	(32) 09.11.2017	PREPARATION METHOD AND USE
MENNITO, Anthony, S.	(33) Sweden	THEREOF
(31) 201762532441 P	(51) C10L 9/08	(73) Beijing Research Institute of Chemical
(32) 14.07.2017	C04B 18/06	Industry, China Petroleum & Chemical
(33) United States of America	(11) EP3514219	Corporation
(51) C10L 1/08	(21) EP19152931.2	China Petroleum&Chemical Corporation
C10L 10/12	(47) 20.04.2022	(72) Zhang, Hongbin
C10L 1/18	(22) 22.01.2019	Qi, Guicun
C10L 1/23	(54) COAL ASH TREATMENT SYSTEM AND	Gao, Jianming
(11) EP3704216	METHOD	Song, Zhihai
(21) EP18799937.0	(73) Mercury Capture Intellectual Property,	Jiang, Haibin
(47) 20.04.2022	LLC	He, Gu
(87) US2018056241	(72) Poling, Christopher L.	Ru, Yue
09.05.2019	(31) 201815877732	Cai, Chuanlun
(22) 17.10.2018	(32) 23.01.2018	Wang, Xiang
(54) CETANE IMPROVER IN FUEL OIL	(33) United States of America	Lai, Jinmei
(73) ExxonMobil Research and Engineering	(51) C10L 9/08	Qiao, Jinliang
Company	C10L 5/44	Zhang, Xiaohong
(72) MENNITO, Anthony, S.	(11) EP3105306	Li, Binghai
KAR, Kenneth, C.h.	(21) EP15703615.3	(31) 201510189203
XU, Teng	(47) 20.04.2022	(32) 20.04.2015
RUBIN-PITEL, Sheryl, B.	(87) EP2015052866	(33) China
FERRUGHELLI, David, T.	20.08.2015	(51) C10M 169/04
(31) 201762580478 P	(22) 11.02.2015	C10M 107/10
(32) 02.11.2017	(54) PROCESS FOR CONVERTING A	C10M 145/14
(33) United States of America	BIOMASS INTO AT LEAST ONE	C10N 10/12
(51) C10L 1/18	BIOCHAR	C10N 20/00
C10L 1/19	(73) Biocarbon Industries Sarl	C10N 20/02
C10L 1/2383	(72) VIESLET, Jean-Paul	C10N 20/04
C10L 1/222	(31) 1451052	C10N 30/06
C10L 1/232	(32) 11.02.2014	C10N 40/25
C10L 10/04	(33) France	(11) EP3666862
C10L 10/06	(51) C10L 9/08	(21) EP18845166.0
(11) EP3110928	C10L 5/44	(47) 20.04.2022
(21) EP15706411.4	C10L 5/04	(87) JP2018029205
(47) 20.04.2022	C10L 5/40	14.02.2019
(87) EP2015053346	C10B 53/02	(22) 03.08.2018
27.08.2015	C10B 57/02	(54) LUBRICATING OIL COMPOSITION,
(22) 17.02.2015	C10B 57/08	INTERNAL COMBUSTION ENGINE,
(54) COMPOSITION OF ADDITIVES AND	C10B 57/10	AND LUBRICATION METHOD FOR
PERFORMANCE FUEL COMPRISING	C10K 1/32	INTERNAL COMBUSTION ENGINE
SUCH A COMPOSITION	(11) EP3194536	(73) Idemitsu Kosan Co., Ltd.
(73) TotalEnergies Marketing Services	(21) EP15841547.1	(72) OKI, Hiroshi
(72) PAPIN, Géraldine	(47) 20.04.2022	(31) 2017155733
GUEIT, Julien	(87) SE2015050967	(32) 10.08.2017
(31) 1451437	24.03.2016	(33) Japan
(32) 24.02.2014	(22) 15.09.2015	(51) C11B 1/10
(33) France	(54) METHOD FOR THERMAL TREATMENT	C12P 7/64
(51) C10L 5/44	OF RAW MATERIALS COMPRISING	C12P 7/00
D21B 1/36	LIGNOCELLULOSE	(11) EP3665296

(21) EP18844409.5	C11D 3/20	(33) United States of America
(47) 20.04.2022	C11D 1/66	(51) C12M 1/42
(87) US2018046081	C11D 1/74	G01N 35/00
14.02.2019	(11) EP3775135	C12M 1/00
(22) 09.08.2018	(21) EP19713987.6	B01J 19/10
(54) DOUBLE CENTRIFUGATION PROCESS	(47) 20.04.2022	C12N 15/10
FOR NUTRITIVE OIL PURIFICATION	(87) US2019022223	G01N 1/28
(73) DSM IP Assets B.V.	10.10.2019	B01F 11/00
Evonik Operations GmbH	(22) 14.03.2019	(11) EP3653697
(72) LEBERT, Jochen	(54) AQUEOUS LIGHT DUTY LIQUID	(21) EP17917876.9
TINSLEY, David Allen	DETERGENT FORMULATION	(47) 20.04.2022
PFEIFER, Holger	(73) Dow Global Technologies, LLC	(87) CN2017092819
BEISER, Marc	Rohm and Haas Company	17.01.2019
LEININGER, Neil Francis	(72) PULUKKODY, Randara	(22) 13.07.2017
(31) 201762543659 P	SHULMAN, Jan E.	(54) SOUND WAVE HOMOGENISING
(32) 10.08.2017	KEENAN, Andrea C.	MODULE AND BIOLOGICAL SAMPLE
(33) United States of America	AGRAWAL, Akanksha	PREPARATION SYSTEM
(51) C11B 3/12	MILLER, Daniel S.	(73) Zinexts Life Science Corp.
C11B 1/04	(31) 201862652389 P	(72) Wang, Chun-Chao
C11B 3/04	(32) 04.04.2018	(51) C12N 5/073
C11C 3/12	(33) United States of America	A61K 35/50
C10L 1/188	(51) C12M 1/00	A61P 37/00
C11B 13/00	C12M 1/12	A61P 25/00
C10G 3/00	C12M 1/34	A61P 9/00
C10L 1/02	C12M 1/36	A61K 35/51
C10L 1/16	C12M 1/42	C12N 5/0789
C11B 3/00	(11) EP3613841	C12N 5/0775
C11B 11/00	(21) EP19202519.5	(11) EP3336176
C10L 10/12	(47) 20.04.2022	(21) EP16835478.5
C09F 1/02	(22) 25.03.2015	(47) 20.04.2022
C07C 51/44	(54) PASSIVE REPLACEMENT OF MEDIA	(87) KR2016008887
C07C 4/04	(73) Terumo BCT, Inc.	16.02.2017
B01D 3/28	(72) NANKERVIS, Brian J.	(22) 12.08.2016
B01D 3/14	(31) 201461970274 P	(54) IMPROVED UMBILICAL CORD-
B01D 3/10	(32) 25.03.2014	DERIVED ADHESIVE STEM CELLS,
(11) EP3626807	(33) United States of America	PREPARATION METHOD THEREFOR,
(21) EP19207895.4	(51) C12M 1/34	AND USE THEREOF
(47) 20.04.2022	C12M 3/00	(73) CHA Biotech Co., Ltd.
(22) 20.12.2013	G01N 33/48	(72) KIM, Jihye
(54) BIOREFINING OF CRUDE TALL OIL	B01J 19/00	KIM, Hye Sun
(73) SunPine AB	G01N 35/10	YU, Ji Min
(72) NAYDENOV, Valeri	(11) EP3323877	SHIN, Jeong Min
LUNDBÄCK, Johan	(21) EP17182976.5	KANG, Ahreum
STIGSSON, Lars	(47) 20.04.2022	(31) 20150113858
(31) PCT/SE2012/051490	(22) 10.06.2004	(32) 12.08.2015
(32) 21.12.2012	(54) METHOD OF FORMING A CELL ARRAY	(33) Korea (Republic)
(33) World Intellectual Property Office (WIPO)	(73) Biodot, Inc.	(51) C12N 9/12
(51) C11B 9/00	Accupath Diagnostic Laboratories, Inc.	(11) EP3433357
C11D 3/12	(72) MOORE, Mathew	(21) EP17713609.0
C11D 3/22	O'FARRELL, Brendan	(47) 20.04.2022
C11D 17/00	BAUNOCH, David	(87) EP2017056865
(11) EP3328975	TISONE, Thomas	28.09.2017
(21) EP16831351.8	REYES, Miriam	(22) 22.03.2017
(47) 20.04.2022	(31) 477807 P	(54) MARINE DNA POLYMERASES
(87) US2016044473	(32) 12.06.2003	(73) Universitetet i Tromsø - Norges Arktiske
02.02.2017	(33) United States of America	Universitet
(22) 28.07.2016	(51) C12M 1/34	(72) ASSEFA, Netsanet Gizaw
(54) AQUEOUS DETERGENT	G01R 33/20	PIOTROWSKI, Yvonne
COMPOSITIONS	G01N 21/00	LARSEN, Atle Noralf
(73) Henkel IP & Holding GmbH	(11) EP2592136	LANES, Olav
(72) COOPE-EPSTEIN, Janet	(21) EP13154060.1	(31) 201604876
NAPOLITANO, Lisa A.	(47) 20.04.2022	(32) 22.03.2016
(31) 201562198536 P	(22) 13.02.2007	(33) United Kingdom
(32) 29.07.2015	(54) MRD-Based Reactor	(51) C12N 9/24
(33) United States of America	(73) Aspect AI Ltd.	(11) EP3417057
(51) C11D 3/18	(72) Rapoport, Uri	(21) EP17706438.3
A61K 8/34	(31) 772870 P	(47) 20.04.2022
A61K 8/92	(32) 14.02.2006	(87) EP2017053672

24.08.2017	(33) United States of America	FERRY, Michael
(22) 17.02.2017	United States of America	BAUMGART, Leo, Alexander
(54) ARABINANASE AND USES THEREOF	(51) C12P 19/04	GRAHAM, Garrett
(73) Biopract GmbH	C08B 37/00	(31) 201562116888 P
(72) SCHWALENBERG, Tobias	(11) EP3445865	(32) 16.02.2015
PHEIFFER, Joachim	(21) EP17716867.1	(33) United States of America
PÄTZ, Reinhard	(47) 20.04.2022	(51) C12Q 1/68
HANREICH, Angelika	(87) EP2017058534	C40B 20/00
WORCH, Sebastian	26.10.2017	C40B 20/04
KUNZE, Gotthard	(22) 10.04.2017	C40B 40/06
(31) 16184187	(54) METHOD FOR OBTAINING AT	C40B 50/00
16156338	LEAST ONE OR MORE BETA-	A61K 39/395
(32) 15.08.2016	GLUCAN COMPOUNDS OR A SOLIDS	(11) EP3227464
18.02.2016	SUSPENSION CONTAINING BETA	(21) EP15866246.0
(33) European Patent Office (EPO)	GLUCAN FROM YEAST CELLS	(47) 20.04.2022
European Patent Office (EPO)	(73) GEA Mechanical Equipment GmbH	(87) US2015064044
(51) C12N 15/09	(72) HRUSCHKA, Steffen	09.06.2016
A61K 39/395	WEINEKÖTTER, Joachim	(22) 04.12.2015
A61K 49/16	(31) 102016107140	(54) MULTIGENE ANALYSIS OF TUMOR
A61P 35/00	(32) 18.04.2016	SAMPLES
C07K 16/18	(33) Germany	(73) Foundation Medicine, Inc.
C07K 16/30	(51) C12P 21/02	(72) OTTO, Geoffrey Alan
C07K 17/00	C07K 14/50	LIPSON, Doron
C12N 1/15	A61K 38/18	NAHAS, Michelle
C12N 1/19	A61P 1/12	(31) 201462088457 P
C12N 1/21	A61P 3/00	(32) 05.12.2014
C12N 5/10	A61P 3/06	(33) United States of America
C12P 21/02	A61P 3/10	(51) C12Q 1/6844
A61K 47/68	A61P 1/16	C12Q 1/6888
C07K 16/28	(11) EP2938740	(11) EP3762511
(11) EP3543337	(21) EP13868063.2	(21) EP19714324.1
(21) EP17870672.7	(47) 20.04.2022	(47) 20.04.2022
(47) 20.04.2022	(87) US2013077782	(87) EP2019055506
(87) JP2017041486	03.07.2014	12.09.2019
24.05.2018	(22) 26.12.2013	(22) 06.03.2019
(22) 17.11.2017	(54) CHIMERIC FGF19 PEPTIDES FOR USE	(54) OLIGONUCLEOTIDES AND METHODS
(54) NOVEL ANTI-HUMAN MUC1	IN TREATING BILE ACID DISORDERS	FOR INTERNAL CONTROL OF
ANTIBODY FAB FRAGMENT	(73) NGM Biopharmaceuticals, Inc.	EUKARYOTIC DNA AMPLIFICATION
(73) Astellas Pharma Inc.	(72) LUO, Jian	REACTIONS
(72) MORINAKA, Akifumi	LING, Lei	(73) Centro di Sperimentazione Laimburg
HOSOGAI, Naomi	(31) 201361887129 P	(72) JANIK, Katrin
DOIHARA, Hitoshi	201361779604 P	OBERKOFER, Vicky
SHIRAI, Hiroki	201261746499 P	(31) 201800003299
HIRAYAMA, Kazunori	(32) 04.10.2013	(32) 06.03.2018
(31) 2016224811	13.03.2013	(33) Italy
(32) 18.11.2016	27.12.2012	(51) C12Q 1/6851
(33) Japan	(33) United States of America	C12Q 1/686
(51) C12N 15/113	United States of America	(11) EP3805406
A61K 31/713	United States of America	(21) EP19202126.9
C07H 21/02	(51) C12Q 1/02	(47) 20.04.2022
(11) EP3656860	G01N 33/18	(22) 09.10.2019
(21) EP19192281.4	C12M 1/34	(54) DIGITAL AND QUANTITATIVE PCR
(47) 20.04.2022	C12M 3/06	MEASURING METHOD FOR NUCLEIC
(22) 20.06.2012	(11) EP3259366	ACID SAMPLE
(54) ANGIOPOIETIN-LIKE 3 (ANGPTL3)	(21) EP16752856.1	(73) Quark Biosciences Taiwan, Inc.
IRNA COMPOSITIONS AND METHODS	(47) 20.04.2022	(72) HUANG, Chang-Wei
OF USE THEREOF	(87) US2016017889	WEI, Cheng-Wey
(73) Alnylam Pharmaceuticals, Inc.	25.08.2016	(51) C12Q 1/6869
(72) SHULGA-MORSKAYA, Svetlana	(22) 12.02.2016	G16B 25/00
FITZGERALD, Kevin	(54) MICROBIAL MICROFLUIDIC	G16B 30/00
QUERBES, William	BIOSENSOR	G16B 30/10
BETTENCOURT, Brian	(73) The Regents of the University of	(11) EP3566158
FRANK-KAMENETSKY, Maria	California	(21) EP18702831.1
MILSTEIN, Stuart	(72) HUERTA, Ramon	(47) 20.04.2022
(31) 201261638288 P	HASTY, Jeff	(87) US2018012580
201161499620 P	TSIMRING, Lev	12.07.2018
(32) 25.04.2012	COOKSON, Scott	(22) 05.01.2018
21.06.2011	JOHNSON, Ryan	(54) PHASING CORRECTION

(73) Illumina, Inc.	C22C 38/54	C22C 29/08
(72) LANGLOIS, Robert	C22C 38/02	(11) EP3751015
BELITZ, Paul	C22C 38/04	(21) EP20165731.9
(31) 201762443294 P	C22C 38/06	(47) 20.04.2022
(32) 06.01.2017	C21D 6/00	(22) 25.03.2020
(33) United States of America	C21D 9/46	(54) PREPARATION METHOD OF A CU-NANO WC COMPOSITE MATERIAL
(51) C12Q 1/6881	C21D 1/19	(73) Shaanxi Sirui Advanced Materials Co., Ltd.
(11) EP3491145	C21D 1/25	(72) Zhao, Jun
(21) EP17748696.6	(11) EP3674426	Wang, Wenbin
(47) 20.04.2022	(21) EP18848632.8	Yang, Bin
(87) EP2017068781	(47) 20.04.2022	Liu, Kai
01.02.2018	(87) JP2018030209	LI, Gang
(22) 25.07.2017	28.02.2019	Wang, Xiaojun
(54) MARKER AND METHOD FOR ASSESSING THE COMPOSITION OR PURITY OF A CELL CULTURE	(22) 13.08.2018	LI, Peng
(73) TETEC Tissue Engineering Technologies AG	(54) METHOD FOR PRODUCTION OF NI-CONTAINING STEEL PLATE	SHI, Xiaoyun
(72) GAISSMAIER, Christoph	(73) Kabushiki Kaisha Kobe Seiko Sho (Kobe Steel, Ltd.)	Zhang, Shisong
BENZ, Karin	(72) TABATA, Akito	(31) 201910507514
(31) 102016213684	(31) 2018131749	(32) 12.06.2019
(32) 26.07.2016	2017162740	(33) China
(33) Germany	(32) 11.07.2018	(51) C22C 13/02
(51) C14C 15/00	25.08.2017	B23K 35/02
C14C 11/00	(33) Japan	B23K 35/26
C09D 175/04	Japan	(11) EP3449023
D06P 5/30	(51) C21D 8/12	(21) EP17793110.2
B41J 2/01	C22C 38/02	(47) 20.04.2022
B41J 11/00	C22C 38/06	(87) US2017030547
B41J 3/407	C22C 38/04	09.11.2017
B41M 5/00	C22C 38/14	(22) 02.05.2017
(11) EP3450574	C21D 9/46	(54) HIGH RELIABILITY LEAD-FREE SOLDER ALLOY
(21) EP17188678.1	(11) EP3733880	(73) Alpha Assembly Solutions Inc.
(47) 20.04.2022	(21) EP18896282.3	(72) SARKAR, Siuli
(22) 31.08.2017	(47) 20.04.2022	RIBAS, Morgana, De Avila
(54) INKJET PRINTING ON NATURAL LEATHER	(87) KR2018016138	CHOUDHURY, Pritha
(73) AGFA NV	04.07.2019	TELU, Suresh
(72) VAN GARSSE, Joris	(22) 18.12.2018	K.N., Anilkumar
STRIJCKERS, Hans	(54) NON-ORIENTED ELECTRICAL STEEL SHEET AND MANUFACTURING METHOD THEREFOR	(31) 201611015846
VAN DORPE, Jurgen	(73) POSCO	(32) 06.05.2016
(51) C21D 1/673	(72) SONG, Dae-Hyun	(33) India
B21D 22/02	PARK, June Soo	(51) C22C 38/00
B21D 22/20	(31) 20170179609	C21D 8/02
B62D 21/15	(32) 26.12.2017	C22C 38/58
B62D 29/00	(33) Korea (Republic)	C21D 8/10
(11) EP3234202	(51) C22C 1/05	C22C 38/02
(21) EP15807627.3	C22C 29/08	C22C 38/04
(47) 20.04.2022	B22F 5/00	C22C 38/06
(87) EP2015078605	(11) EP3763840	C22C 38/08
23.06.2016	(21) EP19185452.0	C22C 38/12
(22) 04.12.2015	(47) 20.04.2022	C22C 38/14
(54) PRESS-HARDENED SHEET-METAL COMPONENT WITH AT LEAST ONE PREDETERMINED BREAKING POINT, AND COMPONENT ASSEMBLY AND MOTOR VEHICLE BODY WITH SUCH A SHEET-METAL COMPONENT	(22) 10.07.2019	C22C 38/16
(73) Bayerische Motoren Werke Aktiengesellschaft	(54) GRADIENT CEMENTED CARBIDE BODY AND METHOD OF MANUFACTURING THEREOF	C22C 38/22
(72) KUPETZ, Bernd	(73) Sandvik Mining and Construction Tools AB	C22C 38/26
BECKER, Jürgen	(72) NORGREN, Susanne	C22C 38/28
(31) 102014226542	BORGH, Ida	C22C 38/32
(32) 19.12.2014	ARVANITIDIS, Ioannis	C22C 38/38
(33) Germany	ÅKESSON, Leif	C22C 38/42
(51) C21D 8/02	HAI, Xueying	C22C 38/44
C22C 38/00	LILJA, Mirjam	C22C 38/46
C22C 38/08	(51) C22C 1/10	C22C 38/48
	C22C 32/00	C22C 38/50
	C22C 1/05	(11) EP3409804
	C22C 9/00	(21) EP17744115.1
		(47) 20.04.2022
		(87) JP2017002060
		03.08.2017
		(22) 23.01.2017

<p>(54) STEEL PLATE FOR HIGH-STRENGTH AND HIGH-TOUGHNESS STEEL PIPES AND METHOD FOR PRODUCING STEEL PLATE</p> <p>(73) JFE Steel Corporation</p> <p>(72) ISHIKAWA Nobuyuki NAGAO Ryo KIMURA Hideyuki HASE Kazukuni</p> <p>(31) 2016015000 (32) 29.01.2016 (33) Japan</p> <hr/> <p>(51) C22C 38/00 C21D 9/46 C22C 38/14 C22C 38/16 C22C 38/58 C21D 8/02 C22C 38/02 C22C 38/04 C22C 38/06 C22C 38/08 C22C 38/12</p> <p>(11) EP3666916 (21) EP18843301.5 (47) 20.04.2022 (87) JP2018029920 14.02.2019</p> <p>(22) 09.08.2018</p> <p>(54) HOT-ROLLED STEEL SHEET AND METHOD FOR MANUFACTURING SAME</p> <p>(73) NIPPON STEEL CORPORATION</p> <p>(72) HIRASHIMA Tetsuya TOYODA Takeshi</p> <p>(31) 2017154294 (32) 09.08.2017 (33) Japan</p> <hr/> <p>(51) C22C 38/04 C22C 38/02 C22C 38/06 C22C 38/12 C22C 38/38 C22C 38/58 C22C 38/00 C21D 8/00 C21D 8/02 C21D 9/46</p> <p>(11) EP3733905 (21) EP18894284.1 (47) 20.04.2022 (87) KR2018014523 04.07.2019</p> <p>(22) 23.11.2018</p> <p>(54) HIGH-STRENGTH STRUCTURAL STEEL MATERIAL HAVING EXCELLENT FATIGUE CRACK PROPAGATION INHIBITORY CHARACTERISTICS AND MANUFACTURING METHOD THEREFOR</p> <p>(73) POSCO</p> <p>(72) CHO, Jae-Young KANG, Sang-Deok YI, Il-Cheol</p> <p>(31) 20170179246 (32) 26.12.2017 (33) Korea (Republic)</p> <hr/>	<p>(51) C22C 38/38 C22C 38/02 C22C 38/06 C22C 38/00 C22C 38/28 C22C 38/26 C22C 38/32 C21D 8/02 C21D 6/00 C23C 2/06 C21D 9/46 C22C 38/22 C22C 38/24 C21D 9/52 C23C 2/02 C23C 2/40 C21D 1/76 C21D 3/04</p> <p>(11) EP3556894 (21) EP17883450.3 (47) 20.04.2022 (87) KR2017014332 28.06.2018</p> <p>(22) 07.12.2017</p> <p>(54) ULTRA-HIGH STRENGTH STEEL SHEET HAVING EXCELLENT BENDABILITY AND MANUFACTURING METHOD THEREFOR</p> <p>(73) Posco</p> <p>(72) KIM, Seong-Woo KOO, Min-Seo</p> <p>(31) 20160173552 (32) 19.12.2016 (33) Korea (Republic)</p> <hr/> <p>(51) C23C 4/02 C23C 4/18 F01D 5/28 C23C 4/11 C23C 4/134</p> <p>(11) EP3453779 (21) EP18193256.7 (47) 20.04.2022 (22) 07.09.2018</p> <p>(54) MULTI LAYER CMAS RESISTANT THERMAL BARRIER COATING</p> <p>(73) Raytheon Technologies Corporation</p> <p>(72) HAZEL, Brian T. ZALESKI, Elisa M. LIU, Xuan WERKHEISER, William F.</p> <p>(31) 201715699015 (32) 08.09.2017 (33) United States of America</p> <hr/> <p>(51) C23C 16/24 C23C 16/44 C23C 16/455 C23C 16/54 C22C 38/02 H01J 37/32 H01M 4/88 B01J 3/00 B01J 4/00 B01J 15/00 B01J 19/28 H01M 4/36 H01M 4/38 H01M 4/583 H01M 4/62</p>	<p>H01M 4/90 H01M 10/0525</p> <p>(11) EP3778471 (21) EP20195843.6 (47) 20.04.2022 (22) 14.07.2017</p> <p>(54) MANUFACTURING METHOD FOR MAKING SILICON NANOWIRES ON CARBON BASED POWDERS FOR USE IN BATTERIES</p> <p>(73) OneD Material, Inc.</p> <p>(72) PLUVINAGE, Vincent ZHU, Yimin</p> <p>(31) 201662363087 P (32) 15.07.2016 (33) United States of America</p> <hr/> <p>(51) C23C 16/34 C23C 28/00 C23C 28/04 B23B 27/14 C23C 16/36</p> <p>(11) EP3436619 (21) EP17713979.7 (47) 20.04.2022 (87) EP2017057728 05.10.2017</p> <p>(22) 31.03.2017</p> <p>(54) COATED CUTTING TOOL WITH H-ALN AND Ti1-XALXCYNZ LAYERS</p> <p>(73) Walter AG</p> <p>(72) MANNNS, Thorsten STIENS, Dirk</p> <p>(31) 16163243 (32) 31.03.2016 (33) European Patent Office (EPO)</p> <hr/> <p>(51) C23C 16/40 C23C 16/34 C23C 16/32 C23C 16/30 C23C 16/50 C23C 16/56 H01L 21/02 C01B 33/12 C07F 7/18 C09D 1/00 C09D 7/61 C23C 16/04</p> <p>(11) EP3507393 (21) EP17847260.1 (47) 20.04.2022 (87) US2017048599 08.03.2018</p> <p>(22) 25.08.2017</p> <p>(54) PRECURSORS AND FLOWABLE CVD METHODS FOR MAKING LOW-K FILMS TO FILL SURFACE FEATURES</p> <p>(73) Versum Materials US, LLC</p> <p>(72) XIAO, Manchao RIDGEWAY, Robert, Gordon VRTIS, Raymond, Nicholas LEI, Xinjian LI, Jianheng</p> <p>(31) 201715681102 201662381222 P (32) 18.08.2017 30.08.2016 (33) United States of America United States of America</p> <hr/>
--	---	--

(51) C23C 16/455	C10G 75/04	(73) The Swatch Group Research and Development Ltd
C23C 16/32	C11D 7/32	(72) SPRINGER, Simon
C23C 16/36	G03F 7/42	LAFORGE, Elias
C23C 16/50	C07C 215/40	(31) 18174638
C23C 16/44	C07C 213/10	(32) 28.05.2018
C07F 7/08	(11) EP3784817	(33) European Patent Office (EPO)
C07F 7/21	(21) EP18726240.7	<hr/>
(11) EP3682041	(47) 20.04.2022	(51) D01F 6/84
(21) EP18855737.5	(87) JP2018016949	D01F 6/62
(47) 20.04.2022	31.10.2019	(11) EP3042987
(87) US2018050414	(22) 26.04.2018	(21) EP14839698.9
21.03.2019	(54) STABILIZATION OF COMPOSITIONS	(47) 20.04.2022
(22) 11.09.2018	COMPRISING QUATERNARY	(87) JP2014003773
(54) METHODS FOR DEPOSITING	TRIALKYLALKANOLAMINE	05.03.2015
SILICON-CONTAINING FILMS	HYDROXIDE	(22) 16.07.2014
(73) Versum Materials US, LLC	(73) Kurita Water Industries Ltd.	(54) POLYESTER FIBER
(72) VRTIS, Raymond, N.	(72) RUDOLPH, Tim	(73) Kaneka Corporation
LI, Ming	URSCHEY, Michael	Tokyo Institute of Technology
RIDGEWAY, Robert, G.	<hr/>	(72) TAKARADA, Wataru
XIAO, Manchao	(51) C25B 1/04	SUGAYA, Takahiko
LEI, Xinjian	C25B 3/00	MINAMI, Tetsuya
(31) 201762558621 P	C25B 3/07	SUZUKI, Noriyuki
(32) 14.09.2017	C25B 3/09	KIKUTANI, Takeshi
(33) United States of America	C25B 3/23	(31) 2013181537
<hr/>	C25B 3/29	(32) 02.09.2013
(51) C23C 16/455	C25B 9/17	(33) Japan
C23C 16/40	C25B 11/02	<hr/>
H01M 8/1213	C12M 1/34	(51) D01H 15/013
H01M 8/1253	(11) EP3597793	B65H 67/04
(11) EP3099836	(21) EP18767765.3	B65H 67/08
(21) EP14702745.2	(47) 20.04.2022	(11) EP3567142
(47) 20.04.2022	(87) JP2018002136	(21) EP19170803.1
(87) EE2014000001	20.09.2018	(47) 20.04.2022
23.07.2015	(22) 24.01.2018	(22) 24.04.2019
(22) 14.01.2014	(54) METHOD OF ELECTROCHEMICALLY	(54) YARN INSERTING ARRANGEMENT
(54) A METHOD OF PRODUCING SOFC	PRODUCING HYDROGEL, METHOD	FOR A RING SPINNING MACHINE
CATHODE DIFFUSION BARRIER	OF PRODUCING HYDROGEL	(73) Lakshmi Machine Works Ltd.
LAYER AND A SOFC	WITH PATTERN FORMED OF	(72) JEGANATHAN, Pasupathy
(73) Elcogen AS	CELLS, HYDROGEL PRODUCTION	ARULANANDAM THILIP, Kumar
(72) SEPPÄLÄ, Sanni	APPARATUS, AND TRANSDUCER	SRINIVASAN, Rajasekaran
SUBBI, Juhan	(73) JAPAN AVIATION ELECTRONICS	(31) 201841017625
RITALA, Mikko	INDUSTRY, LIMITED	(32) 10.05.2018
LESKELÄ., Markku	TOHOKU UNIVERSITY	(33) India
ÖUNPUU, Enn	(72) KUNIKATA, Ryota	<hr/>
NIINISTÖ, Jaakko	INO, Kosuke	(51) D04B 1/24
<hr/>	SUDA, Atsushi	(11) EP3481982
(51) C23C 22/83	TERAUCHI, Mayuko	(21) EP17739806.2
C23C 22/07	MATSUE, Tomokazu	(47) 20.04.2022
C25D 13/20	TAIRA, Noriko	(87) US2017040078
C23C 28/00	SHIKU, Hitoshi	11.01.2018
(11) EP3318659	(31) 2017049777	(22) 29.06.2017
(21) EP16817791.3	(32) 15.03.2017	(54) ARTICLE WITH MULTIPLE LAYERS
(47) 20.04.2022	(33) Japan	(73) NIKE Innovate C.V.
(87) JP2016068537	<hr/>	(72) BELL, Thomas, G.
05.01.2017	(51) C25D 7/00	MOLYNEUX, Anna-Luise
(22) 22.06.2016	C25D 5/02	CHARLTON, Christopher, J.
(54) SURFACE TREATMENT AGENT,	C25D 5/48	JONES, Nicola, A.
SURFACE TREATMENT METHOD, AND	C25D 5/56	DEALEY, Stuart, W.
SURFACE TREATED METAL MATERIAL	G04B 19/10	ZHAO, Yang
(73) Nihon Parkerizing Co., Ltd.	C25D 1/00	GUEST, Stefan, E.
(72) AZUMA Takeru	(11) EP3802920	(31) 201762503704 P
MORIYAMA Atsushi	(21) EP19724880.0	201662359108 P
ARA Masayasu	(47) 20.04.2022	(32) 09.05.2017
(31) 2015132484	(87) EP2019063357	06.07.2016
(32) 01.07.2015	05.12.2019	(33) United States of America
(33) Japan	(22) 23.05.2019	United States of America
<hr/>	(54) METHOD FOR PRODUCING A METAL	<hr/>
(51) C23F 11/14	DECORATION ON A DIAL AND DIAL	(51) D06F 17/02
C23F 14/02	OBTAINED ACCORDING TO SAID	D06F 15/02
C02F 5/12	METHOD	D06F 31/00
C10G 75/02		(11) EP3645778

(21) EP18823141.9	(73) Spectrum Brands, Inc.	(21) EP19736511.7
(47) 20.04.2022	(72) KOSZYLKO, Darek Joseph	(47) 20.04.2022
(87) SE2018050600	(31) 201662410126 P	(87) IB2019055324
03.01.2019	(32) 19.10.2016	09.01.2020
(22) 11.06.2018	(33) United States of America	(22) 25.06.2019
(54) WASHING MACHINE WITH A FLEXIBLE WASHING COMPARTMENT HAVING ONE PROGRESSIVE INTENSITY WASHING ZONE	(51) D21H 21/10 D21H 17/69 D21H 17/67	(54) COVERING ELEMENT FOR A FLOOR COVERING AND METHOD OF MANUFACTURING SAME
(73) Roderinno AB	(11) EP3011107	(73) Flooring Industries Limited, SARL
(72) MAGNUSSON, Fredrik	(21) EP14814129.4	(72) CESANA, Giuseppe
(31) 1750848	(47) 20.04.2022	GUGLIELMI, Andrea
(32) 29.06.2017	(87) US2014041573	(31) 201800006907
(33) Sweden	24.12.2014	(32) 04.07.2018
(51) D06F 33/37	(22) 09.06.2014	(33) Italy
G01F 23/292	(54) A METHOD OF IMPROVING DEWATERING EFFICIENCY, INCREASING SHEET WET WEB STRENGTH, INCREASING SHEET WET STRENGTH AND ENHANCING FILLER RETENTION IN PAPERMAKING	(51) E01C 7/18 E01C 23/06 C10C 3/00 C08L 95/00
D06F 39/02	(73) Nalco Company	(11) EP3530806
(11) EP3551971	(72) ASHTON, Stephen	(21) EP19159363.1
(21) EP17817972.7	CHENG, Weiguo	(47) 20.04.2022
(47) 20.04.2022	TODOROVIC, Aleksander	(22) 26.02.2019
(87) US2017063731	LI, Jun	(54) METHOD FOR THE PRODUCTION OF REJUVENATED ASPHALT GRANULATE, THE ASPHALT GRANULATE AVAILABLE BY THE PROCESS AND THE USE THEREOF
21.06.2018	SMITH, Alan	OF REJUVENATED ASPHALT GRANULATE, THE ASPHALT GRANULATE AVAILABLE BY THE PROCESS AND THE USE THEREOF
(22) 29.11.2017	ZHAO, Yulin	(73) Basalt-Actien-Gesellschaft
(54) OPTICAL LEVEL SENSOR FOR WASH AID REMOVABLE CONTAINER	RAO, Qing Long	(72) STEPHAN Frank
(73) Illinois Tool Works, Inc.	(31) 201313919167	(31) 18158651
(72) SCLIP, Marco	(32) 17.06.2013	(32) 26.02.2018
BORDIGNON, Davide	(33) United States of America	(33) European Patent Office (EPO)
(31) 201662432776 P	(51) D21H 27/00	(51) E01C 13/06
(32) 12.12.2016	D21H 17/42	E01C 11/22
(33) United States of America	D21H 21/18	(11) EP3770324
(51) D06F 39/14	D21H 23/76	(21) EP20172321.0
D06F 39/12	D21H 17/37	(47) 20.04.2022
(11) EP2657393	D21H 17/00	(22) 30.04.2020
(21) EP11850598.1	(11) EP3504378	(54) SURFACE COATING ARRANGEMENT AND PROCESS FOR REPAIRING SAME
(47) 20.04.2022	(21) EP17844527.6	(73) Cunsolo, Filippo
(87) KR2011010021	(47) 20.04.2022	(72) Cunsolo, Filippo
28.06.2012	(87) US2017048718	(31) 1904588
(22) 23.12.2011	01.03.2018	(32) 30.04.2019
(54) APPARATUS FOR PROCESSING CLOTHES	(22) 25.08.2017	(33) France
(73) LG Electronics Inc.	(54) METHOD OF PRODUCING ABSORBENT STRUCTURES WITH HIGH WET STRENGTH, ABSORBENCY, AND SOFTNESS	(51) E01C 23/22 A63C 19/06 F16B 2/06 F16M 13/02
(72) JEE, Eunyoung	(73) Structured I, LLC	(11) EP3495559
AHN, Seungphyo	(72) MACDONALD, Phil	(21) EP19150261.6
CHO, Hongjun	SEALEY, James E.	(47) 20.04.2022
BAE, Sanghun	BRADBURY, James E.	(22) 20.01.2017
YOU, Minjung	MILLER, Byrd Tyler	(54) LINE STRIPING MACHINE WITH A CLAMP FOR MOUNTING ON A MOUNTING ARM AND METHOD OF OPERATING THE LINE STRIPER
KIM, Kihyuk	BRENNAN, Kevin	(73) Graco Minnesota Inc.
SONG, Seunghyun	ANDRUKH, Taras Z.	(72) KUCZENSKI, Steven R.
(31) 20110139295	(31) 201662380137 P	(31) 201662280766 P
20110053385	(32) 26.08.2016	(32) 20.01.2016
20100133674	(33) United States of America	(33) United States of America
(32) 21.12.2011	(51) E01C 5/00	(51) E02D 27/01 E02D 27/02
02.06.2011	E01C 9/00	(11) EP3059350
23.12.2010	E01C 11/22	(21) EP16155692.3
(33) Korea (Republic)	E01C 11/24	(47) 20.04.2022
Korea (Republic)	E03F 5/04	
Korea (Republic)	E04F 15/02	
(51) D06F 75/34	E04F 15/08	
D06F 75/12	B28B 3/02	
(11) EP3529410	B28B 7/00	
(21) EP17778116.8	B28B 11/08	
(47) 20.04.2022	(11) EP3818211	
(87) US2017052740		
26.04.2018		
(22) 21.09.2017		
(54) PORTABLE STEAM GENERATOR BASE FOR IRON		

(22) 15.02.2016	(54) A METHOD AND A SYSTEM FOR CONTROLLING AN ENGINE STALL OF A WORKING MACHINE	(54) SCREEN DISPLAY SYSTEM AND SCREEN DISPLAY METHOD OF CONSTRUCTION EQUIPMENT
(54) FORMWORK EDGE ELEMENT AND METHOD FOR FORMING A FOUNDATION FOR A BUILDING	(73) JCB India Limited	(73) Hyundai Doosan Infracore Co., Ltd.
(73) Hectar Intellectual Property B.V.	(72) Sharma, Roopak	(72) SHIN, Sung-Hyoun
(72) Schlüter, Engelbert Hendrik Bernhard	Arora, Sanjeev	YUN, Hong-Cheol
(31) 2014305	Gopale, Mahadeo Prabhakar	(31) 20170022026
(32) 17.02.2015	(31) 201631014795	(32) 20.02.2017
(33) Netherlands	(32) 28.04.2016	(33) Korea (Republic)
(51) E02F 3/34	(33) India	(51) E03C 1/23
E02F 9/08	(51) E02F 9/22	(11) EP3702543
E02F 9/16	(11) EP2937474	(21) EP19216064.6
B60N 2/14	(21) EP15164484.6	(47) 20.04.2022
(11) EP3211141	(47) 20.04.2022	(22) 13.12.2019
(21) EP17157910.5	(22) 21.04.2015	(54) PLUG FOR DRAINS WITH FACILITATED ADJUSTMENT
(47) 20.04.2022	(54) HYDRAULIC SYSTEM FOR CONSTRUCTION MACHINERY	(73) C.G.S. S.R.L.
(22) 24.02.2017	(73) Hyundai Doosan Infracore Co., Ltd.	(72) CERUTTI, Fulvio
(54) DUMPER WITH ARTICULATED STEERING AND WITH A ROTATABLE DRIVER SEAT	(72) Sohn, Won Sun	RUCO, Gianni
(73) Wacker Neuson Linz GmbH	Kim, In Dong	(31) 201900001325
(72) ERLINGER, Josef	Sohn, Dong Youn	(32) 30.01.2019
(31) 202016100964 U	(31) 20140047451	(33) Italy
(32) 24.02.2016	(32) 21.04.2014	(51) E03F 5/04
(33) Germany	(33) Korea (Republic)	E03C 1/20
(51) E02F 9/20	(51) E02F 9/22	E04F 21/00
E02F 9/08	E02F 3/96	(11) EP3725964
(11) EP3412836	E02F 9/26	(21) EP20178744.7
(21) EP18171164.9	(11) EP3184700	(47) 20.04.2022
(47) 20.04.2022	(21) EP16203523.2	(22) 07.12.2011
(22) 08.05.2018	(47) 20.04.2022	(54) DRAIN WITH UNIDIRECTIONAL DRAINAGE
(54) HYBRID CONVERSION KIT	(22) 12.12.2016	(73) Easy Sanitary Solutions B.V.
(73) Asalift S.R.L.	(54) HYDRAULIC CONTROL SYSTEM FOR CONSTRUCTION MACHINE	(72) Keizers, Jurgen Hendrik Peter Joseph
(72) FERRAMOLA, Lucio	(73) Hitachi Construction Machinery Co., Ltd.	(31) 2005949
(31) 201700061176	(72) YAMASHITA, Ryouhei	(32) 04.01.2011
(32) 05.06.2017	IMURA, Shinya	(33) Netherlands
(33) Italy	(31) 2015255225	(51) E04B 1/35
(51) E02F 9/20	(32) 25.12.2015	E04B 1/16
E02F 9/12	(33) Japan	E04B 2/68
(11) EP3059351	(51) E02F 9/22	B33Y 10/00
(21) EP14853993.5	F15B 11/02	(11) EP3670776
(47) 20.04.2022	F15B 11/028	(21) EP18212903.1
(87) JP2014074729	E02F 3/43	(47) 20.04.2022
23.04.2015	E02F 3/32	(22) 17.12.2018
(22) 18.09.2014	E02F 9/20	(54) METHOD FOR PRODUCING A WALL MADE OF CONCRETE AND CONCRETE WALL OF A STRUCTURE
(54) HYBRID-TYPE CONSTRUCTION MACHINE	(11) EP3660228	(73) Ed. Züblin AG
(73) Hitachi Construction Machinery Co., Ltd.	(21) EP18837352.6	(72) Weber, Peter
(72) IZUMI, Shiho	(47) 20.04.2022	(51) E04B 1/41
AMANO, Hiroaki	(87) JP2018027975	(11) EP3401454
NISHIKAWA, Shinji	31.01.2019	(21) EP17000788.4
ISHIKAWA, Kouji	(22) 25.07.2018	(47) 20.04.2022
SATAKE, Hidetoshi	(54) SHOVEL	(22) 08.05.2017
IMURA, Shinya	(73) Sumitomo (S.H.I.) Construction Machinery Co., Ltd.	(54) FIXING RAIL AND CONCRETE COMPONENT WITH A FIXING RAIL
KANETA, Tomoaki	(72) YAMAMOTO, Takashi	(73) Leviat GmbH
(31) 2013217847	(31) 2017145751	(72) AXT, Kerstin
(32) 18.10.2013	(32) 27.07.2017	SAIBEL, Vadim
(33) Japan	(33) Japan	PLAMPER-HELLWIG, Dieter
(51) E02F 9/20	(51) E02F 9/26	JUSCHKAT, Bastian
E02F 9/22	H04N 7/18	ALBARTUS, Dirk
E02F 9/26	G06T 7/70	MAGIERA, Andrea
F15B 19/00	E02F 9/24	GEUS, Jörg
F02D 29/04	(11) EP3572591	HÄUSLER, Frank
(11) EP3239414	(21) EP18754425.9	KALTHOFF, Thomas
(21) EP17168521.7	(47) 20.04.2022	(51) E04B 1/76
(47) 20.04.2022	(87) KR2018002077	
(22) 27.04.2017	23.08.2018	
	(22) 20.02.2018	

E04B 2/74	(21) EP15767550.5	E04B 1/04
E04B 2/82	(47) 20.04.2022	E04B 1/21
E04F 13/08	(87) EP2015072149	(11) EP3768913
(11) EP2594699	31.03.2016	(21) EP19718810.5
(21) EP12192464.1	(22) 25.09.2015	(47) 20.04.2022
(47) 20.04.2022	(54) REFLECTOR DEVICE SUITABLE	(87) GB2019050766
(22) 13.11.2012	FOR BEING ATTACHED IN THE	26.09.2019
(54) Modular walling solution	HORIZONTAL POSITION AT AN	(22) 19.03.2019
(73) Hermes Solutions Ltd	OPENING IN A BUILDING	(54) BUILDING REINFORCEMENT AND
(72) Conybeare, Nigel Paul	(73) Espaciel	INSULATION
(31) 201119663	(72) HERVE, Alexi	(73) Edsger, William George
(32) 15.11.2011	(31) 1552969	(72) JONES, John
(33) United Kingdom	1459104	EDSCER, William George
(51) E04B 1/76	(32) 07.04.2015	(31) 201813965
E04F 13/08	26.09.2014	201804422
C09J 5/08	(33) France	(32) 28.08.2018
(11) EP2295660	France	20.03.2018
(21) EP10164092.8	(51) E04F 11/112	(33) United Kingdom
(47) 20.04.2022	E04C 2/42	United Kingdom
(22) 27.05.2010	E04F 11/104	(51) E04G 21/04
(54) METHOD FOR MOUNTING	(11) EP3106584	(11) EP3622133
INSULATION PANELS	(21) EP16174241.6	(21) EP18725450.3
(73) Brillux GmbH & Co. KG	(47) 20.04.2022	(47) 20.04.2022
(72) Krechting, Andreas	(22) 13.06.2016	(87) EP2018062109
(31) 102009022799	(54) AN IMPROVED STEP FOR	15.11.2018
(32) 27.05.2009	TREADABLE GRATING	(2) 09.05.2018
(33) Germany	(73) Italiana Keller Grigliati Soc. Coop. a R.L.	(54) ANGLED BOOM COMPRISING
(51) E04B 1/76	(72) LEONARDI, Sandro	VARIABLE CROSS-SECTION FOR
F16B 5/06	(31) UB20151524	MOBILE CONCRETE PUMPS
(11) EP3555384	(32) 19.06.2015	(73) Putzmeister Engineering GmbH
(21) EP17822001.8	(33) Italy	(72) HÄFNER, Jens
(47) 20.04.2022	(51) E04F 11/18	MÜLLER, Ansgar
(87) FR2017053570	B32B 17/10	KASTEN, Knut
21.06.2018	F21V 33/00	MÖGLE, Peter
(22) 14.12.2017	F21Y 115/10	(31) 102017208031
(54) ATTACHMENT BRACKET FOR AN	(11) EP3640409	(32) 12.05.2017
INSULATING PANEL	(21) EP18200548.8	(33) Germany
(73) SAINT-GOBAIN ISOVER	(47) 20.04.2022	(51) E04H 4/08
(72) HISS, Marc	(22) 15.10.2018	(11) EP3498937
MAGAT, Germain	(54) BALUSTRADE WITH EDGE	(21) EP18207510.1
BEN SAAD, Manel	PROTECTION MEANS	(47) 20.04.2022
(31) 1662548	(73) Bangratz, René	(22) 21.11.2018
(32) 15.12.2016	(72) Bangratz, René	(54) CLOSURE ARRANGEMENT FOR
(33) France	(51) E04F 11/18	COVERING OPEN CONTAINERS
(51) E04C 2/38	E06B 11/04	(73) REHAU Industries SE & Co. KG
F16B 5/00	E04H 17/14	(72) Michels, Peter
F16B 5/07	E04H 17/16	Bühlmeyer, Christian
(11) EP3728757	E06B 3/54	Goldstein, Jörg
(21) EP18707264.0	F16B 2/12	Niehoff, Ansgar
(47) 20.04.2022	F16B 7/04	(31) 202017107235 U
(87) EP2018053177	F16B 2/14	(32) 29.11.2017
15.08.2019	(11) EP3751074	(33) Germany
(22) 08.02.2018	(21) EP20179260.3	(51) E04H 4/14
(54) PROCEDURE FOR THE PRODUCTION	(47) 20.04.2022	(11) EP3842603
OF A PROFILE COMPOSITE WITH	(22) 10.06.2020	(21) EP20216787.0
SPECIAL CONNECTION ELEMENTS	(54) DEVICE FOR CONNECTING A	(47) 20.04.2022
(73) Otto Fuchs - Kommanditgesellschaft -	CONNECTION PROFILE OR A FILLING	(22) 23.12.2020
(72) SCHULTE, Christoph	ELEMENT MADE OF A BRITTLE	(54) DEVICE FOR MARKING BORDERS OF
ADLEFF, Christian	MATERIAL TO A SLIDING BLOCK OF A	SWIMMING POOLS
SCHLIFFKE, Hendrik	GROOVED PROFILE	(73) OTEC GmbH & Co. KG
THOMZICK, Gerd	(73) VALU GmbH	(72) ECKART, Werner
(51) E04F 10/10	(72) BÖHL, Harald	(31) 19219526
F21S 11/00	KRÄMER, Jan	(32) 23.12.2019
F21V 7/05	(31) 102019116112	(33) European Patent Office (EPO)
F21V 17/02	(32) 13.06.2019	(51) E04H 6/12
E06B 7/28	(33) Germany	E04H 6/42
E06B 9/24	(51) E04F 13/08	B62D 15/02
(11) EP3198088	E04G 23/02	E04H 6/30

E04H 6/36	(33) Bulgaria	(51) E05B 67/06
(11) EP3663486	(51) E05B 19/22	E05B 67/24
(21) EP19202271.3	G07C 9/00	E05B 71/00
(47) 20.04.2022	(11) EP3732340	(11) EP3707325
(22) 09.10.2019	(21) EP18839537.0	(21) EP19846907.4
(54) PARKING ROBOT FOR A MOTOR	(47) 20.04.2022	(47) 20.04.2022
VEHICLE AND METHOD FOR	(87) IB2018059744	(87) US2019046180
OPERATING THE SAME	04.07.2019	13.02.2020
(73) Volkswagen Aktiengesellschaft	(22) 07.12.2018	(22) 12.08.2019
(72) Tzivanopoulos, Theodoros	(54) DEVICE FOR DETECTING AND	(54) COMPACT BIKE LOCK
(31) 102018221170	INDICATING A DOOR LOCK STATUS	(73) Schlage Lock Company LLC
(32) 06.12.2018	(73) Euro Start D.O.O.	(72) TELANG, Ravi
(33) Germany	(72) BLATNIK, Gregor	MADHUSUDHAN, Kavya
(51) E04H 12/34	OSEK, Mitja	(31) 201816100702
E04H 12/12	(31) 201700342	(32) 10.08.2018
F03D 13/20	(32) 27.12.2017	(33) United States of America
F03D 13/10	(33) Slovenia	(51) E05B 77/06
E04G 13/00	(51) E05B 47/00	(11) EP3418478
(11) EP3805488	E05B 79/20	(21) EP18177484.5
(21) EP19202705.0	E05B 81/06	(47) 20.04.2022
(47) 20.04.2022	H02K 21/14	(22) 13.06.2018
(22) 11.10.2019	H02K 37/12	(54) MOTOR VEHICLE LOCK
(54) MODULAR MOULD FOR CASTING	H02K 21/24	(73) Brose Schließsysteme GbmH & Co.
MOULDS FOR CASTING WALL	H02K 33/16	Kommanditgesellschaft
SEGMENTS OF A TOWER WALL OF A	(11) EP3158151	(72) Graute, Ludger
WIND TURBINE	(21) EP15723542.5	(31) 102017113880
(73) P.E. Concepts GmbH	(47) 20.04.2022	(32) 22.06.2017
(72) Husse, Martin Philipp	(87) EP2015061620	(33) Germany
Göbel, Nico	23.12.2015	(51) E05B 77/08
Böttger, Michael	(22) 27.05.2015	E05B 83/24
(51) E05B 3/06	(54) MOTOR VEHICLE LOCK	E05B 15/00
E05B 15/00	(73) Brose Schliesssysteme GmbH & Co. KG	(11) EP3265632
E05B 13/10	(72) REINERT, Jörg	(21) EP15707370.1
E05B 63/04	KOTHE, Markus	(47) 20.04.2022
E05B 15/04	PSZOLA, Peter	(87) EP2015054325
(11) EP3680423	STEINSHORN, Axel	09.09.2016
(21) EP20151437.9	(31) 102014108712	(22) 02.03.2015
(47) 20.04.2022	(32) 21.06.2014	(54) AUXILIARY HOOD LOCK STRUCTURE
(22) 13.01.2020	(33) Germany	(73) Toyota Motor Europe
(54) TURNING DEVICE FOR WINDOW AND	(51) E05B 63/06	(72) BANSOD, Pradeep
DOOR HANDLES	E05C 1/08	(51) E05B 81/54
(73) HYDRO EXTRUDED SOLUTIONS AS	(11) EP3749818	E05B 81/86
(72) STEINFELD, Ingo	(21) EP18720024.1	E05B 85/02
(31) 102019100691	(47) 20.04.2022	(11) EP3748111
(32) 11.01.2019	(87) IT2018000016	(21) EP20173817.6
(33) Germany	15.08.2019	(47) 20.04.2022
(51) E05B 5/00	(22) 07.02.2018	(22) 11.05.2020
E06B 3/46	(54) ADJUSTABLE SPRING LATCH FOR	(54) MOTOR VEHICLE LOCK
E05B 65/08	LOCKS	(73) Brose Schliesssysteme GmbH & Co. KG
(11) EP3875714	(73) Cisa S.p.a.	(72) Bekendam, René
(21) EP20161446.8	(72) FABBRI, Matteo	Graute, Ludger
(47) 20.04.2022	(51) E05B 65/10	(31) 102019115445
(22) 06.03.2020	E05C 9/02	(32) 06.06.2019
(54) SLIDING WINDOW DEVICE	E05C 9/06	(33) Germany
(73) Michels, Christian	E05C 9/18	(51) E05B 83/00
(72) Michels, Christian	E05C 9/20	E05B 85/12
(51) E05B 19/20	(11) EP3744932	E05C 3/04
(11) EP3781765	(21) EP20175436.3	(11) EP3461975
(21) EP18847248.4	(47) 20.04.2022	(21) EP18186526.2
(47) 20.04.2022	(22) 19.05.2020	(47) 20.04.2022
(87) IB2018060748	(54) ESPAGNOLETTE LOCK WITH	(22) 31.07.2018
24.10.2019	EMERGENCY UNLOCKING	(54) HANDLE, CABIN FOR A COMMERCIAL
(22) 31.12.2018	(73) EMKA Beschlagteile GmbH & Co. KG	VEHICLE AND COMMERCIAL VEHICLE
(54) KEY TOOL	(72) Schmitz, Markus	(73) CLAAS Tractor S.A.S.
(73) Ivaylov, Georgi Angelov	(31) 102019114187	(72) Römer, Jens
(72) Ivaylov, Georgi Angelov	(32) 27.05.2019	Jardet, Gilles
(31) 401218	(33) Germany	Matar, Michel
(32) 19.04.2018		(31) 10201712217.

(32) 29.09.2017	(54) DOOR HINGE	(33) European Patent Office (EPO)
(33) Germany	(73) SFS Group International AG	(51) E06B 3/88
(51) E05B 83/24	(72) CUSIN, Stefano	A47B 96/20
(11) EP3394372	STEFFAN, Mario	(11) EP3663499
(21) EP16813220.7	PITUSSI, Massimiliano	(21) EP19212141.6
(47) 20.04.2022	IUS, Matia	(47) 20.04.2022
(87) DE2016100554	FERRARI, Matteo	(22) 28.11.2019
29.06.2017	(51) E05F 1/12	(54) CONSTRUCTION ELEMENT, IN
(22) 28.11.2016	E05F 5/02	PARTICULAR DOOR LEAF
(54) SAFETY DEVICE FOR A MOTOR	F24C 15/02	(73) REHAU Industries SE & Co. KG
VEHICLE HAVING A ROTARY LATCH	E05F 5/10	(72) Affeldt, Jens-Uwe
AND AN EJECTION SPRING	(11) EP3095940	Krämer, Uwe
(73) Kiekert AG	(21) EP16170056.2	(31) 202018106965 U
(72) SCHOLZ, Michael	(47) 20.04.2022	(32) 06.12.2018
INAN, Ömer	(22) 18.05.2016	(33) Germany
SCHÖNENBERG, Thomas	(54) A HINGE MECHANISM	(51) E06B 5/00
SCHIFFER, Holger	(73) Atasan Metal Sanayi ve Ticaret Anonim	A47B 96/20
(31) 102015122583	Sirketi	A47B 95/02
(32) 22.12.2015	(72) CIFTCI, Mehmet Faik	E06B 3/964
(33) Germany	(31) 201505962	E06B 3/70
(51) E05B 83/30	(32) 18.05.2015	(11) EP3783185
E05C 3/16	(33) Turkey	(21) EP20183544.4
E05C 9/08	(51) E05F 1/12	(47) 20.04.2022
(11) EP3759300	E05F 15/611	(22) 01.07.2020
(21) EP19708099.7	E05F 15/622	(54) FRAME DOOR PROFILE AND FRAME
(47) 20.04.2022	E05F 15/616	DOOR MANUFACTURED FROM THE
(87) EP2019055025	F24C 15/02	SAME
06.09.2019	(11) EP3063354	(73) Fallner, Immanuel
(22) 28.02.2019	(21) EP15823591.1	(72) Fallner, Immanuel
(54) LOCKING SYSTEM FOR AN OPENING	(47) 20.04.2022	(31) 202020100230 U
PANEL, IN PARTICULAR AN OPENING	(87) EP2015002494	202019104562 U
PANEL FOR CLOSING A HOUSING IN	21.07.2016	(32) 17.01.2020
THE PASSENGER COMPARTMENT OF	(22) 08.12.2015	20.08.2019
A MOTOR VEHICLE	(54) HINGE FOR AN OVEN	(33) Germany
(73) SMRC Automotive Holdings Netherlands	(73) Apparatebau Gronbach GmbH	Germany
B.V.	(72) MARGONARI, Massimiliano	(51) E06B 9/262
(72) BRACAVAL, Thomas	MEURER, Gerold	E06B 9/322
UTZERI, Franco	(31) 102015000407	(11) EP3795794
(31) 1851825	(32) 13.01.2015	(21) EP20196677.7
(32) 02.03.2018	(33) Germany	(47) 20.04.2022
(33) France	(51) E06B 3/46	(22) 17.09.2020
(51) E05C 17/00	E05D 15/06	(54) CONTROL DEVICE FOR A WINDOW
E05C 17/20	(11) EP3879060	BLIND
(11) EP3414415	(21) EP20161712.3	(73) Chen Tian Co., Ltd.
(21) EP17706137.1	(47) 20.04.2022	(72) CHENG, Ching-Hsiang
(47) 20.04.2022	(22) 09.03.2020	(31) 108134067
(87) DE2017100027	(54) PUSH WINDOW DEVICE	(32) 20.09.2019
17.08.2017	(73) Michels, Christian	(33) Taiwan, Province of China
(22) 19.01.2017	(72) Michels, Christian	(51) E06B 9/322
(54) METHOD AND DEVICE FOR	(51) E06B 3/663	E06B 9/42
IMPINGING ON A MOTOR VEHICLE	(11) EP3265636	(11) EP3795795
DOOR IN THE SENSE OF A	(21) EP16706875.8	(21) EP20196880.7
DECELERATION, IN PARTICULAR FOR	(47) 20.04.2022	(47) 20.04.2022
AVOIDING COLLISIONS	(87) EP2016054226	(22) 18.09.2020
(73) Kiekert AG	09.09.2016	(54) CONTROLLER ASSEMBLY FOR
(72) BERGHAHN, Markus	(22) 29.02.2016	WINDOW BLIND
NOTTEBAUM, Thorsten	(54) GLASS FIBRE REINFORCED SPACER	(73) Chen Tian Co., Ltd.
(31) 102016102510	FOR INSULATING GLAZING, METHOD	(72) CHENG, Ching-Hsiang
(32) 12.02.2016	FOR MANUFACTURING THE SAME	(31) 108134068
(33) Germany	AND USE OF SUCH A SPACER IN	(32) 20.09.2019
(51) E05D 3/02	MULTIPLE GLAZING	(33) Taiwan, Province of China
E05D 7/081	(73) SAINT-GOBAIN GLASS FRANCE	(51) E06B 9/84
E05D 5/10	(72) RIGAUD, Martin	(11) EP3580422
E05D 5/12	SCHREIBER, Walter	(21) EP18703895.5
(11) EP3628805	SCHWERDT, Egbert	(47) 20.04.2022
(21) EP18197638.2	(31) 15157110	(87) EP2018050283
(47) 20.04.2022	(32) 02.03.2015	16.08.2018
(22) 28.09.2018		

(22) 05.01.2018	LYONS, Nicholas, J.	(32) 24.04.2018
(54) DEVICE, SYSTEM AND METHOD FOR DETECTING THE FALLING OF A DOOR LEAF	(31) 201113040921 (32) 04.03.2011 (33) United States of America	(33) United Kingdom (51) E21B 33/12
(73) Efaflex Tor- und Sicherheitssysteme GmbH & Co. KG	(51) E21B 17/07 E21B 7/02	E21B 33/128 E21B 23/01 E21B 23/06
(72) VOGEL, Daniela EICHSTETTER, Karl	(11) EP3877624 (21) EP20750664.3	F16J 15/3252 F16J 15/3284
(31) 102017102614	(47) 20.04.2022	F16J 15/3292
(32) 09.02.2017	(87) EP2020071850	E21B 33/06
(33) Germany	25.02.2021	(11) EP3645828
(51) E21B 1/00	(22) 04.08.2020	(21) EP18752187.7
F15B 11/16	(54) KELLY BAR ASSEMBLY FOR A DRILL AND METHOD FOR WORKING SOIL	(47) 20.04.2022
E02F 9/22	(73) BAUER Maschinen GmbH	(87) GB2018051826
E21C 25/02	(72) BAUER, Sebastian	03.01.2019
F15B 11/17	(31) 19192058	(22) 28.06.2018
F15B 11/20	(32) 16.08.2019	(54) SEAL APPARATUS AND METHODS OF USE
(11) EP3647530	(33) European Patent Office (EPO)	(73) Peak Well Services Pty Ltd. Peak Well Systems Limited
(21) EP18823419.9	(51) E21B 19/08	(72) BROWN, Gareth Edward George
(47) 20.04.2022	(11) EP3663508	(31) 201710376
(87) CN2018092753	(21) EP18209985.3	(32) 28.06.2017
03.01.2019	(47) 20.04.2022	(33) United Kingdom
(22) 26.06.2018	(22) 04.12.2018	(51) E21B 34/06
(54) ADVANCE AND RETREAT AUTOMATIC CONTROL METHOD BASED ON HYDRAULIC SENSING CONVERSION AND ADVANCE AND RETREAT AUTOMATIC CONTROL SYSTEM BASED ON HYDRAULIC SENSING CONVERSION	(54) APPARATUS FOR FEEDING TUBE ELEMENTS, ROCK DRILLING RIG AND METHOD OF SUPPORTING DRILL HOLE OPENINGS	(11) EP2925954 (21) EP14706234.3 (47) 20.04.2022
(73) Liu, Suhua	(73) Sandvik Mining and Construction Oy	(87) US2014015606
(72) Liu, Suhua	(72) PIIPPONEN, Juha	04.09.2014
(31) 201711080652	VÄLIVAARA, Johannes	(22) 10.02.2014
201710602610	(51) E21B 23/01	(54) METHOD AND APPARATUS FOR MAGNETIC PULSE SIGNATURE WELLBORE TOOL ACTUATION
201710496732	E21B 23/06	(73) Halliburton Energy Services, Inc.
(32) 06.11.2017	E21B 33/12	(72) WALTON, Zachary W. FRIPP, Michael
21.07.2017	E21B 33/128	(31) 201313781093
26.06.2017	F16J 15/3252	(32) 28.02.2013
(33) China	F16J 15/3292	(33) United States of America
China	E21B 33/06	(51) E21B 44/02
China	(11) EP3645826	E21B 19/00
(51) E21B 10/36	(21) EP18752188.5	(11) EP3293351
(11) EP3760828	(47) 20.04.2022	(21) EP17189593.1
(21) EP19184793.8	(87) GB2018051827	(47) 20.04.2022
(47) 20.04.2022	03.01.2019	(22) 06.09.2017
(22) 05.07.2019	(22) 28.06.2018	(54) DRILLING MACHINE
(54) DRILL BIT	(54) SEAL APPARATUS AND METHODS OF USE	(73) Soilmec S.p.A.
(73) Sandvik Mining and Construction Tools AB	(73) Peak Well Systems Limited Peak Well Services Pty Ltd.	(72) ZANICHELLI, Alessio
(72) HAMMARGREN, John	(72) BROWN, Gareth Edward George	(31) 201600090502
(51) E21B 10/46	(31) 201710367	(32) 07.09.2016
C22C 26/00	(32) 28.06.2017	(33) Italy
E21B 10/567	(33) United Kingdom	(51) E21B 47/00
E21B 10/573	(51) E21B 33/076	E21B 43/247
B24D 3/04	E21B 34/04	G01V 1/40
B24D 18/00	E21B 37/06	G01V 1/50
B24D 99/00	E21B 41/02	G01V 1/28
(11) EP3293347	(11) EP3784878	G01V 1/30
(21) EP17190309.9	(21) EP19725279.4	E21B 43/26
(47) 20.04.2022	(47) 20.04.2022	G01V 99/00
(22) 29.02.2012	(87) EP2019060478	(11) EP3268578
(54) POLYCRYSTALLINE TABLES, POLYCRYSTALLINE ELEMENTS, AND RELATED METHODS	31.10.2019	(21) EP15884884.6
(73) Baker Hughes Holdings LLC	(22) 24.04.2019	(47) 20.04.2022
(72) SCOTT, Danny, E. NELMS, Derek, L. DIGIOVANNI, Anthony, A.	(54) INJECTING FLUID INTO A HYDROCARBON PRODUCTION LINE OR PROCESSING SYSTEM	(87) US2015020236
	(73) Subsea 7 Norway AS	15.09.2016
	(72) JUHLIN, Rasmus Asp	(22) 12.03.2015
	(31) 201806667	

(54) DETERMINING A FRACTURE TYPE USING STRESS ANALYSIS	(47) 20.04.2022	B22F 3/105
(73) Geoquest Systems B.V.	(22) 13.08.2020	B22F 5/04
(72) AMER, Aimen	(54) SLIDING VANE MACHINE	B22F 7/06
(31) 201514644693	(73) Ziremidis, Dimitris	F01D 5/28
(32) 11.03.2015	(72) Ziremidis, Dimitris	(11) EP3173582
(33) United States of America	(31) 202020104265 U	(21) EP16200203.4
(51) E21B 47/0224	(32) 24.07.2020	(47) 20.04.2022
E21B 47/135	(33) Germany	(22) 23.11.2016
G01V 1/22	(51) F01C 21/10	(54) TURBINE AIRFOIL WITH PASSIVE MORPHING STRUCTURE
G01V 1/40	F04C 23/00	(73) General Electric Company
(11) EP2925962	(11) EP3604736	(72) KRAY, Nicholas Joseph
(21) EP13858894.2	(21) EP19187098.9	SPENCE, Wayne Allen
(47) 20.04.2022	(47) 20.04.2022	KALITA, Samar Jyoti
(87) US2013067252	(22) 18.07.2019	MARSLAND, Paul Gerard
05.06.2014	(54) COMPRESSOR AND COMPRESSOR SYSTEM	JOSHI, Narendra Digamber
(22) 29.10.2013	(73) MITSUBISHI HEAVY INDUSTRIES	(31) 201514950343
(54) DISTRIBUTED DOWNHOLE ACOUSTING SENSING	THERMAL SYSTEMS, LTD.	(32) 24.11.2015
(73) Baker Hughes Holdings LLC	(72) GOTO, Takashi	(33) United States of America
(72) DUNCAN, Roger Glen	MIYAMOTO, Yoshiaki	(51) F01D 5/18
NUCKELS, Michael C.	NOGUCHI, Akihiro	(11) EP3074606
CHILDERS, Brooks A.	GOTO, Shusaku	(21) EP14879571.9
(31) 201213690324	SATO, Hajime	(47) 20.04.2022
(32) 30.11.2012	(31) 2018143347	(87) US2014064018
(33) United States of America	(32) 31.07.2018	30.07.2015
(51) E21B 47/06	(33) Japan	(22) 05.11.2014
E21B 43/08	(51) F01D 5/14	(54) GAS TURBINE ENGINE AIRFOIL WITH LEADING EDGE TRENCH AND IMPINGEMENT COOLING
E21B 47/01	B23P 15/04	(73) Raytheon Technologies Corporation
(11) EP2893135	(11) EP3783196	(72) SNYDER, Brooks E.
(21) EP12885719.0	(21) EP20187983.0	SLAVENS, Thomas N.
(47) 20.04.2022	(47) 20.04.2022	(31) 201361908481 P
(87) US2012057266	(22) 27.07.2020	(32) 25.11.2013
03.04.2014	(54) HYBRIDIZED AIRFOIL FOR A GAS TURBINE ENGINE	(33) United States of America
(22) 26.09.2012	(73) Raytheon Technologies Corporation	(51) F01D 5/22
(54) METHOD OF PLACING DISTRIBUTED PRESSURE GAUGES ACROSS SCREENS	(72) GORDON, Steven T.	F01D 5/28
(73) Halliburton Energy Services, Inc.	NOVIKOV, Dmitri	(11) EP3749838
(72) RICHARDS, William Mark	DOLAN, Robert C.	(21) EP19702278.3
FROSELL, Thomas Jules	BALES, Daniel A.	(47) 20.04.2022
(51) E21B 49/08	MALMBORG, Eric W.	(87) EP2019052521
E21B 49/10	(31) 201916530917	15.08.2019
G01N 27/447	(32) 02.08.2019	(22) 01.02.2019
G01N 30/88	(33) United States of America	(54) VANE FOR AN AIRCRAFT TURBINE ENGINE
(11) EP2872742	(51) F01D 5/14	(73) SAFRAN AIRCRAFT ENGINES
(21) EP13819418.8	F02C 7/00	(72) LIMOUSIN, Franck, Denis, Daniel
(47) 20.04.2022	F04D 29/38	DELCOIGNE, Eric, Jacques
(87) US2013045589	F04D 29/32	PERSON, Laëtitia, Nicole
23.01.2014	(11) EP3108101	LOISEL, Bruno, Marc-Etienne
(22) 13.06.2013	(21) EP14883036.7	DEFLANDRE, Stéphanie, Aline, Marie
(54) CAPILLARY ELECTROPHORESIS FOR RESERVOIR FLUID ANALYSIS AT WELLSITE AND LABORATORY	(47) 20.04.2022	(31) 1851070
(73) Schlumberger Holdings Limited	(87) US2014052434	(32) 08.02.2018
(72) ANDERSEN, Simon Ivar	27.08.2015	(33) France
MAHAVADI, Sharath Chandra	(22) 25.08.2014	(51) F01D 5/28
HORVATH SZABO, Geza	(54) GAS TURBINE ENGINE AIRFOIL	F01D 11/12
(31) 201261672075 P	(73) Raytheon Technologies Corporation	F23R 3/00
(32) 16.07.2012	(72) WHITLOW, Darryl	(11) EP3323996
(33) United States of America	FORD, Barry M.	(21) EP17202298.0
(51) F01C 19/00	GALLAGHER, Edward J.	(47) 20.04.2022
F01C 21/08	LI, Linda S.	(22) 17.11.2017
F01C 21/10	MONZON, Byron R.	(54) TURBINE ENGINE COMPONENT WITH GEOMETRICALLY SEGMENTED COATING SECTION AND COOLING PASSAGE
F04C 2/344	LIU, Ling	(73) Raytheon Technologies Corporation
F04C 15/00	(31) 201461941752 P	(72) PROPHETER-HINCKLEY, Tracy A.
(11) EP3943710	(32) 19.02.2014	(31) 201615354153
(21) EP20190896.9	(33) United States of America	
	(51) F01D 5/14	
	F04D 29/02	
	F04D 29/32	
	F04D 29/54	

(32) 17.11.2016	(72) FLÜCK, Arthur	MURAKAMI, Katsuya
(33) United States of America	(51) F01N 3/035	SEGUCHI, Junichi
(51) F01D 9/06	B01D 53/94	WATANABE, Kazutoyo
F02C 7/00	F01N 3/20	HAYAKAWA, Motoo
F02C 7/12	F01N 3/023	TAKAHATA, Tatsuya
F16L 27/06	F01N 3/10	YOKOYAMA, Nobuhiko
F02C 7/28	F01N 9/00	(31) 2019071058
F01D 11/00	F01N 3/36	(32) 03.04.2019
(11) EP3320184	(11) EP3341598	(33) Japan
(21) EP16724535.6	(21) EP16839707.3	(51) F02B 33/06
(47) 20.04.2022	(47) 20.04.2022	F01L 7/12
(87) US2016030749	(87) SE2016050796	F02B 75/02
12.01.2017	02.03.2017	(11) EP3821115
(22) 04.05.2016	(22) 25.08.2016	(21) EP19742310.6
(54) FLEXURAL INTERFACE FOR	(54) EXHAUST TREATMENT SYSTEM AND	(47) 20.04.2022
BELLOVED BALL-JOINT ASSEMBLIES	METHOD FOR TREATMENT OF AN	(87) EP2019068443
FOR CONTROLLED ROTATIONAL	EXHAUST GAS STREAM	16.01.2020
CONSTRAINT	(73) Scania CV AB	(22) 09.07.2019
(73) Unison Industries LLC	(72) BIRGERSSON, Henrik	(54) TWO-STROKE INTERNAL
(72) TAJIRI, Gordon	NILSSON, Magnus	COMBUSTION ENGINE AND RELATIVE
MILLWARD, Douglas R.	(31) 1551109	ACTUATION METHOD
STEWART, JR., Lonnie Ray	(32) 27.08.2015	(73) Hypertec Solution S.r.l.
KENWORTHY, Michael Thomas	(33) Sweden	(72) MARCONI, Pierluigi
(31) 201562190528 P	(51) F01N 3/08	SMANIO, Stefano
201562190484 P	B01J 35/00	(31) 201800007094
(32) 09.07.2015	B01J 29/00	(32) 11.07.2018
09.07.2015	B01J 23/38	(33) Italy
(33) United States of America	B01J 23/46	(51) F02B 37/02
United States of America	B01J 23/40	F04D 25/02
(51) F01D 11/18	B01J 23/52	F02B 67/10
F01D 25/24	B01J 21/12	F02F 1/24
(11) EP3030755	B01J 21/06	F04D 29/60
(21) EP14833899.9	F01N 3/10	F04D 29/42
(47) 20.04.2022	B01J 37/02	(11) EP3730758
(87) US2014050041	B01D 53/94	(21) EP18902267.6
12.02.2015	(11) EP3516181	(47) 20.04.2022
(22) 07.08.2014	(21) EP17777345.4	(87) JP2018002807
(54) CLEARANCE CONTROL ASSEMBLY	(47) 20.04.2022	01.08.2019
WITH SPECIFIC ASSEMBLY OF A	(87) GB2017052836	(22) 29.01.2018
CLEARANCE CONTROL RING	29.03.2018	(54) INTERNAL COMBUSTION ENGINE
(73) Raytheon Technologies Corporation	(22) 22.09.2017	WITH SUPERCHARGER
(72) RIOUX, Philip Robert	(54) OXIDATION CATALYST FOR	(73) Mitsubishi Heavy Industries Engine &
TATMAN, Neil L.	HYDROCARBONS PRODUCED BY AN	Turbocharger, Ltd.
(31) 201361863109 P	INTERNAL COMBUSTION ENGINE	(72) OZAKI, Makoto
(32) 07.08.2013	(73) Johnson Matthey Public Limited	YOKOYAMA, Takao
(33) United States of America	Company	(51) F02B 37/18
(51) F01D 17/08	(72) ANDERSEN, Paul	F01D 11/00
F01D 21/14	FEDEYKO, Joseph	F01D 25/16
(11) EP3447253	CHEN, Hai-Ying	F04D 29/056
(21) EP18190755.1	DOURA, Kevin	F16C 17/00
(47) 20.04.2022	(31) 201617349	F16C 17/02
(22) 24.08.2018	201662398009 P	F16C 35/02
(54) FAN STRESS TRACKING FOR	(32) 13.10.2016	(11) EP3736420
TURBOFAN GAS TURBINE ENGINES	22.09.2016	(21) EP20178886.6
(73) Raytheon Technologies Corporation	(33) United Kingdom	(47) 20.04.2022
(72) MARCOS, Juan A.	United States of America	(22) 06.07.2017
(31) 201762549696 P	(51) F01P 3/02	(54) TURBINE HOUSING ASSEMBLY WITH
(32) 24.08.2017	F01P 7/16	WASTEGATE
(33) United States of America	F02D 41/14	(73) Garrett Transportation I Inc.
(51) F01K 25/08	F02D 41/30	(72) KEMONA, Tomasz
(11) EP3366894	(11) EP3719272	GONZALEZ, Manuel
(21) EP17157833.9	(21) EP20162152.1	MATEESCU, Ion
(47) 20.04.2022	(47) 20.04.2022	MARSAL, Damien
(22) 24.02.2017	(22) 10.03.2020	HORLAVILLE, Didier
(54) DEVICE FOR CONVERTING THERMAL	(54) COOLING SYSTEM FOR ENGINE, AND	(31) 201615218048
ENERGY	ENGINE	(32) 24.07.2016
(73) AgroNorm Vertriebs GmbH	(73) Mazda Motor Corporation	(33) United States of America
	(72) WATANABE, Shinji	(51) F02B 63/04

F02F 1/00	United States of America	(11) EP3792469
F02F 7/00	United States of America	(21) EP20195581.2
(11) EP3693569	United States of America	(47) 20.04.2022
(21) EP17934924.6	United States of America	(22) 10.09.2020
(47) 20.04.2022	(51) F02C 3/107	(54) AIR INTAKE, NACELLE, PROPULSION
(87) JP2017044444	F02C 3/14	ASSEMBLY AND AIRCRAFT WITH
20.06.2019	F02C 6/20	GROOVED LIP
(22) 11.12.2017	F02C 7/32	(73) AIRBUS OPERATIONS (S.A.S.)
(54) ENGINE DEVICE	F02C 7/36	(72) ALBET, Gregory
(73) HONDA MOTOR CO., LTD.	(11) EP3597884	PONS, François
(72) KAI, Masashi	(21) EP19193794.5	BOURHIS, Arnaud
KONO, Shohei	(47) 20.04.2022	(31) 1910046
(51) F02B 7/100	(22) 19.07.2017	(32) 12.09.2019
F01P 3/06	(54) A MULTI-SPOOL GAS TURBINE	(33) France
(11) EP2652287	ENGINE ARCHITECTURE	(51) F02C 7/047
(21) EP11848745.3	(73) Pratt & Whitney Canada Corp.	F02C 7/045
(47) 20.04.2022	(72) LEFEBVRE, Guy	(11) EP3181865
(87) FI2011051116	(31) 201715407439	(21) EP16204807.8
21.06.2012	201715407445	(47) 20.04.2022
(22) 16.12.2011	201715407414	(22) 16.12.2016
(54) INTERNAL COMBUSTION ENGINE OF	201715407423	(54) GAS TURBINE ENGINE
THE ANNULAR PISTON TYPE AND	201615384959	(73) Raytheon Technologies Corporation
A CENTER SHAFT FOR SUCH AN	201662363947 P	(72) SCHWARZ, Frederick M.
ENGINE	201662363949 P	MURPHY, Michael Joseph
(73) Salminen, Reijo	201662363952 P	(31) 201514974169
(72) Salminen, Reijo	201662363956 P	(32) 18.12.2015
(31) 423800 P	201662363955 P	(33) United States of America
(32) 16.12.2010	(32) 17.01.2017	(51) F02C 7/06
(33) United States of America	17.01.2017	F16H 57/04
(51) F02C 3/107	17.01.2017	F16H 57/08
F02C 3/14	17.01.2017	F16H 1/28
F02C 6/20	20.12.2016	F01D 25/20
F02C 7/32	19.07.2016	F02K 3/06
F02C 7/06	19.07.2016	(11) EP3102807
(11) EP3597885	19.07.2016	(21) EP15768321.0
(21) EP19193921.4	19.07.2016	(47) 20.04.2022
(47) 20.04.2022	19.07.2016	(87) US2015010020
(22) 19.07.2017	(33) United States of America	01.10.2015
(54) GEAR TRAIN ARCHITECTURE FOR A	United States of America	(22) 02.01.2015
MULTI-SPOOL GAS TURBINE ENGINE	United States of America	(54) AUXILIARY OIL SYSTEM FOR GEARED
(73) Pratt & Whitney Canada Corp.	United States of America	GAS TURBINE ENGINE
(72) LEFEBVRE, Guy	United States of America	(73) Raytheon Technologies Corporation
(31) 201715407439	United States of America	(72) SHERIDAN, William G.
201715407445	United States of America	(31) 201461929150 P
201715407414	United States of America	(32) 20.01.2014
201715407423	United States of America	(33) United States of America
201615384959	United States of America	(51) F02C 7/232
201662363947 P	(51) F02C 6/08	F16K 3/04
201662363949 P	B64D 13/06	F16K 3/10
201662363952 P	B64D 33/10	(11) EP3351768
201662363956 P	F02C 7/14	(21) EP18152644.3
201662363955 P	F02C 7/18	(47) 20.04.2022
(32) 17.01.2017	(11) EP3521589	(22) 19.01.2018
17.01.2017	(21) EP19153789.3	(54) ROTARY ADJUSTABLE ORIFICE PLATE
17.01.2017	(47) 20.04.2022	VALVE
17.01.2017	(22) 25.01.2019	(73) Hamilton Sundstrand Corporation
20.12.2016	(54) SYSTEM FOR COOLING ENGINE AIR	(72) CORETTO, August M.
19.07.2016	WITH TWO COOLING STAGES AND	RICKIS, Aaron
19.07.2016	CORRESPONDING METHOD	BALLARD, Peter M.
19.07.2016	(73) Liebherr-Aerospace Toulouse SAS	(31) 201715411836
19.07.2016	(72) HARTENSTEIN, Laurent	(32) 20.01.2017
19.07.2016	DESCAMPS, François	(33) United States of America
(33) United States of America	POUYLLAU, Thomas	(51) F02C 7/32
United States of America	(31) 1850891	(11) EP3511549
United States of America	(32) 02.02.2018	(21) EP18213532.7
United States of America	(33) France	(47) 20.04.2022
United States of America	(51) F02C 7/045	(22) 18.12.2018
United States of America	F02C 7/047	

(54) A GAS TURBINE ENGINE COMPRISING AN ACCESSORY GEARBOX ASSEMBLY	ITO, Michio SUMITA, Masataka NISHIDA, Masami	UETA Atsushi SHIRAMIZU Toshiki
(73) Rolls-Royce plc	HADAMA, Kouji	(31) 2014043012
(72) Thornton, Stewart	TAKEMOTO, Kazuhiro	(32) 05.03.2014
Edwards, David	SUEOKA, Masanari	(33) Japan
(31) 201800673	(31) 2019094274	(51) F02F 1/10
(32) 16.01.2018	(32) 20.05.2019	F02F 1/16
(33) United Kingdom	(33) Japan	(11) EP3467287
(51) F02C 7/32	(51) F02D 41/14	(21) EP18197805.7
(11) EP3696392	F02D 45/00	(47) 20.04.2022
(21) EP20157024.9	F02D 41/22	(22) 28.09.2018
(47) 20.04.2022	F02B 77/08	(54) CYLINDER LINER ASSEMBLY FOR ENGINE
(22) 12.02.2020	F02D 41/28	(73) Caterpillar Motoren GmbH & Co. KG
(54) ANGLE ACCESSORY GEARBOX FOR GAS TURBINE ENGINE	(11) EP3306064	(72) GREBIEN, Jan
(73) Raytheon Technologies Corporation	(21) EP16803387.6	AUGUSTINIACK, Sven
(72) DUONG, Hung	(47) 20.04.2022	MLYNARCZYK, Paul
MULDOON, Marc J.	(87) JP2016066206	BURKHARD, Sascha
POLLY, Joseph H.	08.12.2016	ABRAHAM, Volker
LEQUE, Nicholas D.	(22) 01.06.2016	(31) 201716367
SUCIU, Gabriel L.	(54) CONTROL DEVICE	(32) 06.10.2017
(31) 201916274360	(73) Denso Corporation	(33) United Kingdom
(32) 13.02.2019	Yamaha Hatsudoki Kabushiki Kaisha	(51) F02K 9/80
(33) United States of America	(72) NAGATA, Naoki	F16J 15/16
(51) F02C 7/36	NONOGAKI, Yoshihiko	(11) EP3478955
F16D 1/06	WAKIMURA, Makoto	(21) EP17724996.8
(11) EP3354883	HOTTA, Minoru	(47) 20.04.2022
(21) EP17425011.8	IWAMOTO, Kazuteru	(87) US2017031523
(47) 20.04.2022	(31) 2015111921	04.01.2018
(22) 30.01.2017	(32) 02.06.2015	(22) 08.05.2017
(54) LOCKNUT SUN GEAR FOR GAS TURBINE ENGINE	(33) Japan	(54) DYNAMIC SEAL
(73) GE AVIO S.r.l.	(51) F02D 41/14	(73) Aerojet Rocketdyne, Inc.
(72) Altamura, Paolo	G01M 15/11	(72) COLEMAN, Arthur
Garabello, Marco	F02D 41/00	(31) 201662356194 P
Bragallini, Gian Mario	(11) EP3699417	(32) 29.06.2016
(51) F02C 7/36	(21) EP20155680.0	(33) United States of America
F16D 43/202	(47) 20.04.2022	(51) F02K 9/97
F02K 3/06	(22) 05.02.2020	B64G 1/58
(11) EP3705704	(54) IMBALANCE DETECTION DEVICE, IMBALANCE DETECTION SYSTEM, DATA ANALYSIS DEVICE, AND CONTROLLER FOR INTERNAL COMBUSTION ENGINE	F01D 25/14
(21) EP20157725.1	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	F02C 7/24
(47) 20.04.2022	(72) HASHIMOTO, Yosuke	B32B 7/08
(22) 17.02.2020	MUTO, Harufumi	B32B 15/04
(54) SHAFT APPARATUS FOR A GAS TURBINE ENGINE	MORI, Kohei	(11) EP3695107
(73) Rolls-Royce plc	KATAYAMA, Akihiro	(21) EP18812228.7
(72) Booth, Michael	(31) 2019029400	(47) 20.04.2022
Culwick, Steven	(32) 21.02.2019	(87) FR2018052496
(31) 201902980	(33) Japan	18.04.2019
(32) 06.03.2019	(51) F02D 41/38	(22) 09.10.2018
(33) United Kingdom	F02D 41/02	(54) THERMAL PROTECTION, METHOD FOR MANUFACTURING SAME AND NOZZLE COMPRISING SUCH THERMAL PROTECTION
(51) F02D 41/14	F02D 41/06	(73) ArianeGroup SAS
F02D 41/22	F02D 41/08	(72) CLAUDEL, Sylvain
F02D 41/30	F02D 41/14	GUIRAUD, Julien
F02D 41/38	F02D 45/00	TORRES, Emmanuel
F02D 41/40	(11) EP3115586	DESBORDES, Mathieu
F02M 65/00	(21) EP15758839.3	HAUTECOUCOURETTE, François
F02D 41/24	(47) 20.04.2022	(31) 1759571
(11) EP3741977	(87) JP2015052525	(32) 12.10.2017
(21) EP20161091.2	11.09.2015	(33) France
(47) 20.04.2022	(22) 29.01.2015	(51) F02M 26/19
(22) 05.03.2020	(54) FUEL INJECTION CONTROL DEVICE FOR INTERNAL COMBUSTION ENGINE	F02B 33/00
(54) ENGINE CONTROL DEVICE, ENGINE CONTROL METHOD, AND ENGINE SYSTEM	(73) Yanmar Power Technology Co., Ltd.	F02M 26/03
(73) Mazda Motor Corporation	(72) HORI Daiki	F02M 26/67
(72) NISHIMURA, Kazuhiro		F02M 26/39
		F02M 26/44
		F02M 26/70

F02M 26/04	(31) 201361891118 P	03.12.2015
F02M 26/21	201361838675 P	(22) 28.05.2015
F02B 37/16	201261728525 P	(54) HYDROELECTRIC TURBINES, ANCHORING STRUCTURES, AND RELATED METHODS OF ASSEMBLY
(11) EP3808966	(32) 15.10.2013	(73) Oceana Energy Company
(21) EP19840003.8	24.06.2013	(72) HANSEN, Ned
(47) 20.04.2022	20.11.2012	POWER, Daniel E.
(87) JP2019025515	(33) United States of America	(31) 201462005681 P
30.01.2020	United States of America	201462005614 P
(22) 27.06.2019	<hr/>	(32) 30.05.2014
(54) AIR INTAKE DEVICE FOR ENGINE	(51) F02P 5/152	30.05.2014
(73) MAZDA MOTOR CORPORATION	F02P 5/153	(33) United States of America
(72) TAKAMI, Kenji	F02D 35/02	United States of America
HIGASHIO, Masayoshi	F02D 41/24	<hr/>
YAMAMOTO, Ryo	(11) EP2871355	(51) F03B 13/12
YOSHIDA, Ken	(21) EP12881085.0	F02B 63/04
YANAGIDA, Haruna	(47) 20.04.2022	F03B 13/14
ASHIKAGA, Kensuke	(87) JP2012067504	F03B 13/16
KATO, Jiro	16.01.2014	F03B 13/18
YAMAUCHI, Taketoshi	(22) 09.07.2012	H02K 5/00
WASADA, Mitsunori	(54) INTERNAL COMBUSTION ENGINE	H02K 5/04
(31) 2018138348	IGNITION PERIOD CONTROL DEVICE	F03B 17/06
(32) 24.07.2018	(73) Toyota Jidosha Kabushiki Kaisha	H02K 21/22
(33) Japan	(72) NAKASAKA, Yukihiko	H02K 7/18
<hr/>	<hr/>	H02K 16/00
(51) F02M 35/02	(51) F02P 17/12	(11) EP3303826
F02M 35/10	F02D 35/02	(21) EP16804343.8
(11) EP3741987	G01L 23/22	(47) 20.04.2022
(21) EP18901096.0	F02P 5/152	(87) US2016035298
(47) 20.04.2022	(11) EP2526394	08.12.2016
(87) JP2018001278	(21) EP11734938.1	(22) 01.06.2016
25.07.2019	(47) 20.04.2022	(54) POWER GENERATOR ASSEMBLY
(22) 17.01.2018	(87) SE2011050050	(73) HeliosAltas Corp.
(54) AIR CLEANER	28.07.2011	(72) CARROLL, Michael Thomas
(73) HONDA MOTOR CO., LTD.	(22) 18.01.2011	CHAUVIN, Phillip
(72) SHIMIZU, Takahiko	(54) DEVICE AND METHOD FOR	(31) 201615169241
IWAMOTO, Tetsunori	ANALYSING A PERFORMANCE OF AN	201562168943 P
AIHARA, Junji	ENGINE	(32) 31.05.2016
SHIMMURA, Hiroyuki	(73) SEM Aktiebolag	01.06.2015
<hr/>	(72) BENGTSOON, Jörgen	(33) United States of America
(51) F02M 59/36	(31) 1050065	United States of America
F02M 59/46	(32) 20.01.2010	<hr/>
F02M 63/00	(33) Sweden	(51) F03B 15/00
(11) EP3663571	(51) F03B 1/04	(11) EP3059854
(21) EP19211283.7	(11) EP3853468	(21) EP16156134.5
(47) 20.04.2022	(21) EP19739247.5	(47) 20.04.2022
(22) 25.11.2019	(47) 20.04.2022	(22) 17.02.2016
(54) FUEL PUMP AND INLET VALVE	(87) EP2019068313	(54) VARIABLE-SPEED OPERATION
ASSEMBLY THEREOF	26.03.2020	CONTROL APPARATUS AND
(73) Delphi Technologies IP Limited	(22) 09.07.2019	HYDROELECTRIC POWER
(72) KAZOUR, Youssef	(54) PELTON TURBINE NOZZLE AND	GENERATION SYSTEM
SHORT, Jason, C.	PRODUCTION METHOD	(73) Kabushiki Kaisha Toshiba
PERRY, Robert B.	(73) Voith Patent GmbH	(72) Shiozaki, Yuichi
(31) 201816208717	(72) MACK, Reiner	Nakazono, Masahiko
(32) 04.12.2018	GAIRING, Markus	Mori, Junji
(33) United States of America	(31) 102018122801	Osada, Oki
<hr/>	(32) 18.09.2018	Asano, Takeyoshi
(51) F02M 61/18	(33) Germany	(31) 2015033302
F02M 59/46	(51) F03B 11/06	(32) 23.02.2015
F02M 55/00	F03B 3/00	(33) Japan
(11) EP2923068	F03B 3/12	<hr/>
(21) EP13856418.2	F16C 32/04	(51) F03B 17/06
(47) 20.04.2022	F16C 17/14	F03D 3/00
(87) IB2013002592	F16C 33/06	F03D 3/06
30.05.2014	F16C 33/18	F03D 3/04
(22) 20.11.2013	H02K 21/00	(11) EP3737855
(54) LIQUID INJECTOR ATOMIZER WITH	(11) EP3149323	(21) EP18819081.3
COLLIDING JETS	(21) EP15798740.5	(47) 20.04.2022
(73) Nostrum Energy Pte. Ltd.	(47) 20.04.2022	(87) EP2018084263
(72) BARROS NETO, Osanan, L.	(87) US2015032948	18.07.2019
MULYE, Nirmal		
SANE, Shrikrishna		

(22) 11.12.2018	(51) F03D 13/20	F04B 53/02
(54) WATER AND/OR WIND POWER PLANT	E02D 27/42	F04B 53/16
(73) Schmetzer, Alexandra	(11) EP3312416	(11) EP3686427
(72) SCHMETZER, Helmut	(21) EP16382482.4	(21) EP20153024.3
(31) 102018100546	(47) 20.04.2022	(47) 20.04.2022
(32) 11.01.2018	(22) 24.10.2016	(22) 22.01.2020
(33) Germany	(54) WIND TURBINE TOWER ON FOUNDATION	(54) PUMP FOR A LIQUID PRODUCT COMPRISING A SEALING DEVICE AND SPRAYING SYSTEM COMPRISING SUCH A PUMP
(51) F03C 1/06	(73) Nordex Energy Spain, S.A.	(73) Exel Industries
E02F 9/22	(72) Garduño Estebanez, Aitor	(72) KHALDI, Boussif
F04B 1/12	Aristegui Lantero, Jose Luis	PLANTARD, Nicolas
F04B 49/00	García Sayés, Jose Miguel	(31) 1900588
F04B 49/06	Núñez Polo, Miguel	(32) 23.01.2019
F04B 17/03	Arlabán Gabeiras, Teresa	(33) France
F04B 17/05	(51) F03D 80/30	(51) F04B 27/04
F04B 17/06	(11) EP3737860	F04B 27/053
(11) EP3770419	(21) EP19700216.5	F01B 13/06
(21) EP20186900.5	(47) 20.04.2022	F02B 57/08
(47) 20.04.2022	(87) EP2019050276	F02B 63/06
(22) 21.07.2020	18.07.2019	F04B 27/06
(54) HYDRAULIC COMPRESSED MEDIUM SUPPLY ASSEMBLY, METHOD AND MOBILE WORKING MACHINE	(22) 08.01.2019	F04B 35/00
(73) Robert Bosch GmbH	(54) WIND TURBINE ROTOR BLADE	F04B 35/06
(72) Golde, Marcel	(73) Wobben Properties GmbH	(11) EP3214262
An, Minha	(72) VINKE, Daniel	(21) EP17158650.6
Brand, Michael	ENGELHARDT, Sebastian	(47) 20.04.2022
Tetik, Salih	(31) 102018100302	(22) 01.03.2017
Wang, Ximing	(32) 09.01.2018	(54) MOTOR-COMPRESSOR UNIT
Geiger, Daniel	(33) Germany	(73) Schulze, Rudolf
Muehlbauer, Florian	(51) F03D 80/30	(72) SCHULZE, Rudolf
(31) 102019219206	H01T 4/02	KILS-KORTE, Detlev
102019120333	F03D 80/40	(31) 102016103615
(32) 10.12.2019	(11) EP2880308	(32) 01.03.2016
26.07.2019	(21) EP13745423.7	(33) Germany
(33) Germany	(47) 20.04.2022	(51) F04B 35/04
Germany	(87) EP2013066487	F04B 39/02
(51) F03D 1/02	13.02.2014	F04B 39/12
F03D 7/04	(22) 06.08.2013	(11) EP3859152
(11) EP3470666	(54) CRP RESISTANCE BLADE HEATING	(21) EP21157132.8
(21) EP18200382.2	(73) Wobben Properties GmbH	(47) 20.04.2022
(47) 20.04.2022	(72) CLEMENS, Christian	(22) 15.05.2019
(22) 15.10.2018	(31) 102013210205	(54) LINEAR COMPRESSOR
(54) CONTROL SYSTEM FOR WIND POWER GENERATION APPARATUS, WIND POWER GENERATION APPARATUS, AND CONTROL METHOD	102012015540	(73) LG Electronics Inc.
(73) MITSUBISHI HEAVY INDUSTRIES, LTD.	(32) 31.05.2013	(72) PARK, Joonsung
(72) IDE, Kazunari	06.08.2012	NOH, Kiwon
(31) 2017200651	(33) Germany	KIM, Donghan
(32) 16.10.2017	Germany	AHN, Kwangwoon
(33) Japan	(51) F04B 13/00	(31) 20180056138
(51) F03D 7/04	F04B 23/02	(32) 16.05.2018
F03D 7/02	F04B 51/00	(33) Korea (Republic)
F03D 17/00	A01C 23/00	(51) F04B 39/00
(11) EP3542056	(11) EP3582602	F04B 35/04
(21) EP17807754.1	(21) EP18753590.1	F04B 49/06
(47) 20.04.2022	(47) 20.04.2022	F04B 49/20
(87) EP2017079300	(87) US2018017270	F04B 53/00
24.05.2018	23.08.2018	(11) EP3472467
(22) 15.11.2017	(22) 07.02.2018	(21) EP17728204.3
(54) METHOD FOR CONTROLLING A WIND TURBINE, AND ASSOCIATED WIND TURBINE	(54) METHOD OF CALIBRATING A PUMP OUTPUT	(47) 20.04.2022
(73) Wobben Properties GmbH	(73) Precision Planting LLC	(87) EP2017063769
(72) DE BOER, Wolfgang	(72) SCHLIPF, Ben	21.12.2017
(31) 102016121961	O'ROURKE, Brendan	(22) 07.06.2017
(32) 15.11.2016	VACCARI, Adam	(54) METHOD AND DEVICE FOR COMPENSATING PULSATION OF A COMPRESSOR
(33) Germany	MCMENAMY, Justin	(73) KNORR-BREMSE Systeme für Schienenfahrzeuge GmbH
	(31) 201762460020 P	(72) MERKEL, Thomas
	(32) 16.02.2017	
	(33) United States of America	
	(51) F04B 15/00	
	F04B 15/02	

HARTL, Michael SCHNEIDER, Stefan (31) 102016111101 (32) 17.06.2016 (33) Germany	(73) KNORR-BREMSE Systeme für Nutzfahrzeuge GmbH (72) HEBRARD, Gilles WEINHOLD, Thomas MELLAR, Jörg MARESCOT, Jean-Baptiste	MANZARI, Vito RIPA, Donato Antonio (31) UB20151335 (32) 05.06.2015 (33) Italy
(51) F04B 39/06 F04B 39/12 (11) EP3655652 (21) EP18731756.5 (47) 20.04.2022 (87) EP2018064987 24.01.2019 (22) 07.06.2018 (54) RECIPROCATING PISTON MACHINE WITH COOLING DEVICE (73) Voith Patent GmbH (72) BURKAUSKAS, Marius (31) 102017116870 102017116562 (32) 26.07.2017 21.07.2017 (33) Germany Germany	(31) 102016011433 (32) 21.09.2016 (33) Germany (51) F04C 25/02 F04C 27/00 F16C 33/78 (11) EP3762612 (21) EP19703766.6 (47) 20.04.2022 (87) EP2019053734 12.09.2019 (22) 14.02.2019 (54) DRY-TYPE VACUUM PUMP (73) Pfeiffer Vacuum (72) CROCHET, Stéphane (31) 1851969 (32) 07.03.2018 (33) France	(51) F04D 29/70 F04D 29/64 F24F 13/08 F24F 1/56 F24F 1/54 (11) EP3705731 (21) EP19161584.8 (47) 20.04.2022 (22) 08.03.2019 (54) OUTDOOR UNIT FOR A HEAT PUMP HAVING A GRILLE MADE OF SEPARATE PARTS (73) Daikin Europe N.V. DAIKIN INDUSTRIES, LTD. (72) Mehta, Rishi Garcia Lopez, Jose Daniel Hattiangadi, Akshay Surmont, Tom Vansteenkiste, Wim Yoshikawa, Kota
(51) F04C 2/10 (11) EP2123914 (21) EP07859717.6 (47) 20.04.2022 (87) JP2007073489 18.09.2008 (22) 05.12.2007 (54) OIL PUMP ROTOR (73) AISIN CORPORATION (72) NUNAMI, Koji ONO, Hisashi (31) 2007060288 (32) 09.03.2007 (33) Japan	(31) F04D 25/08 F04D 29/34 F04D 29/64 (11) EP3390836 (21) EP16876563.4 (47) 20.04.2022 (87) US2016066615 22.06.2017 (22) 14.12.2016 (54) CEILING FAN (73) Hunter Fan Company (72) CHACON, Agustin SANTOLUCITO, Phillip (31) 201662350799 P 201662281866 P 201662281860 P 201562267033 P (32) 16.06.2016 22.01.2016 22.01.2016 14.12.2015 (33) United States of America United States of America United States of America United States of America	(51) F16B 1/00 F16D 1/08 (11) EP3117108 (21) EP15709903.7 (47) 20.04.2022 (87) EP2015055098 17.09.2015 (22) 11.03.2015 (54) FRICTION CONNECTING MEANS (73) Corebon AB (72) BJÖRNHOV, Tobias NILSSON, Adam OLSSON, Rasmus (31) 1450275 (32) 11.03.2014 (33) Sweden
(51) F04C 2/107 B65G 53/32 B65G 53/48 F04C 13/00 (11) EP3791070 (21) EP19724384.3 (47) 20.04.2022 (87) EP2019061842 14.11.2019 (22) 08.05.2019 (54) METHOD FOR OPERATING A DELIVERY APPARATUS AND DELIVERY APPARATUS (73) J. Wagner GmbH (72) NGUYEN, Lam Huu GÖHRING, Alfred SCHNITTGER, Thorsten SPINDLER, Florian (31) 102018111120 (32) 09.05.2018 (33) Germany	(31) 201662350799 P 201662281866 P 201662281860 P 201562267033 P (32) 16.06.2016 22.01.2016 22.01.2016 14.12.2015 (33) United States of America United States of America United States of America United States of America	(51) F16B 5/00 F16B 12/20 F16B 12/26 F16B 13/12 F16B 21/08 (11) EP3692267 (21) EP18765096.5 (47) 20.04.2022 (87) EP2018073602 11.04.2019 (22) 03.09.2018 (54) CONNECTOR FOR BUTT CONNECTING TWO COMPONENTS (73) Häfele SE & Co KG (72) NITSCHMANN, Gunter LEISTERT, Peer SAWATZKI, Gerd VON WILCKE, Michael (31) 202017106045 U (32) 05.10.2017 (33) Germany
(51) F04C 18/16 F04C 29/00 (11) EP3516221 (21) EP17772018.2 (47) 20.04.2022 (87) EP2017073543 29.03.2018 (22) 19.09.2017 (54) SCREW COMPRESSOR SYSTEM FOR A UTILITY VEHICLE	(51) F04D 29/041 F04D 29/047 F16C 1/26 F16C 33/10 F04D 1/06 F04D 13/14 F01D 25/16 F16C 17/26 (11) EP3303776 (21) EP16725175.0 (47) 20.04.2022 (87) EP2016062074 08.12.2016 (22) 27.05.2016 (54) COMBINED BEARING AND TURBOMACHINE INCLUDING SAID BEARING (73) NUOVO PIGNONE TECNOLOGIE SRL (72) MILONE, Fabrizio	(51) F16C 3/02 F03B 13/26 F03B 17/06 F03B 11/00 F03B 11/06 (11) EP3767116

(21) EP20185610.1	MOVEMENT, MECHANICAL DOBBY	(11) EP3818274
(47) 20.04.2022	COMPRISING SUCH A BEARING AND	(21) EP19736588.5
(22) 14.07.2020	SHEDDING MACHINE COMPRISING	(47) 20.04.2022
(54) ROTOR SHAFT UNIT	SUCH A DOBBY OR SUCH A BEARING	(87) EP2019025200
(73) Aktiebolaget SKF	(73) Staubli Faverges	(09.01.2020
(72) Baumann, Michael	(72) POLLET, François	(22) 26.06.2019
Hofmann, Matthias	MARION, Sébastien	(54) COUPLING BETWEEN A SHAFT AND
(31) 102019210482	(31) 1912808	A SLOTTED HOLLOW SHAFT PART
(32) 16.07.2019	(32) 15.11.2019	WITH A SPLIT CLAMPING RING AND A
(33) Germany	(33) France	TANGENTIAL ACTING TENSION BOLT
(51) F16C 11/06	(51) F16C 19/54	(73) Sew-Eurodrive GmbH & Co. KG
(11) EP3755909	F16C 33/30	(72) SCHILLINGER, Jens
(21) EP19708793.5	F16C 33/32	HALLER, Sascha
(47) 20.04.2022	F16C 33/56	(31) 102018005225
(87) EP2019054221	H02K 7/08	(32) 03.07.2018
29.08.2019	F16C 33/58	(33) Germany
(22) 20.02.2019	H02K 5/173	(51) F16D 55/22
(54) BALL JOINT, IN PARTICULAR FOR A	H02K 5/24	F16D 65/00
SUSPENSION OF A VEHICLE	(11) EP3805583	F16D 65/09
(73) THK Rhythm Automotive GmbH	(21) EP20200199.6	(11) EP3810948
(72) WALTER, Harald	(47) 20.04.2022	(21) EP19727104.2
SCHAUMANN, Lothar	(22) 06.10.2020	(47) 20.04.2022
(31) 102018103780	(54) ENGINE AND/OR GENERATOR FOR	(87) IB2019053978
(32) 20.02.2018	A RAILWAY VEHICLE, ASSOCIATED	26.12.2019
(33) Germany	BOGIE AND RAILWAY VEHICLE	(22) 14.05.2019
(51) F16C 11/06	(73) ALSTOM Transport Technologies	(54) DISC BRAKE CALIPER BODY
B60H 1/34	(72) ROBBE, Gilles	(73) BREMBO S.p.A.
(11) EP3650719	RACLOT, Jean-Philippe	(72) PIRINO, Andrea
(21) EP19202676.3	(31) 1911149	CASTELLANA, Mirko
(47) 20.04.2022	(32) 08.10.2019	ARRAGONI, Sara
(22) 11.10.2019	(33) France	CRIPPA, Cristian
(54) BEARING ARRANGEMENT, BALL-	(51) F16C 27/02	(31) 201800006577
AND-SOCKET JOINT BEARING AND	F16C 33/10	(32) 22.06.2018
ARRANGEMENT WITH A BEARING	(11) EP3364059	(33) Italy
ARRANGEMENT AND AT LEAST ONE	(21) EP16855434.3	(51) F16D 65/092
BALL BEARING	(47) 20.04.2022	F16D 65/00
(73) Dr. Schneider Kunststoffwerke GmbH	(87) JP2016080271	(11) EP3633226
(72) Löffler, Michael	20.04.2017	(21) EP18808697.9
Buss, Alexander	(22) 12.10.2016	(47) 20.04.2022
Kamm, Daniel	(54) FOIL BEARING	(87) ES2018070384
(31) 102018125619	(73) NTN Corporation	06.12.2018
(32) 16.10.2018	(72) YOSHINO, Masato	(22) 28.05.2018
(33) Germany	(31) 2015204826	(54) BRAKE PAD AND PRODUCTION
(51) F16C 11/06	2015204823	METHOD THEREOF
B60Q 1/26	(32) 16.10.2015	(73) ZF AFTERMARKET IBERICA, S.L.
(11) EP2853757	16.10.2015	(72) ORRANTIA SABORIT, Julen
(21) EP14466020.6	(33) Japan	MÚZQUIZ ESCORZA, Jos Antonio
(47) 20.04.2022	Japan	VIKULOV, Konstantin
(22) 29.09.2014	(51) F16D 1/04	(31) 201730762
(54) Motor vehicle lamp	F16D 1/08	(32) 02.06.2017
(73) Skoda Auto A.S.	(11) EP3679260	(33) Spain
(72) Stránský, Jiri	(21) EP18762006.7	(51) F16D 65/097
Pavel, Huk	(47) 20.04.2022	(11) EP3019764
(31) 20130757	(87) EP2018025219	(21) EP14823351.3
(32) 30.09.2013	14.03.2019	(47) 20.04.2022
(33) Czech Republic	(22) 21.08.2018	(87) US2014046333
(51) F16C 19/06	(54) ASSEMBLY FOR CONNECTING AN	15.01.2015
D03C 5/00	ADAPTER SHAFT TO A SHAFT IN A	(22) 11.07.2014
D03C 5/02	FORCE-FITTING MANNER USING A	(54) BRAKE PAD RETENTION DEVICE AND
F16C 19/26	CLAMPING RING	METHOD
F16C 33/58	(73) SEW-EURODRIVE GmbH & Co. KG	(73) Bendix Commercial Vehicle Systems LLC
D03C 1/14	(72) WÖPPERMAN, Markus	(72) RADHAKRISHNAN, Harish
(11) EP3822500	HALLER, Sascha	WOLF, Dennis, A.
(21) EP20206085.1	SCHILLINGER, Jens	PLANTAN, Ronald, S.
(47) 20.04.2022	(31) 102017008435	(31) 201313940960
(22) 06.11.2020	(32) 08.09.2017	(32) 12.07.2013
(54) BEARING FOR A SHEDDING MACHINE	(33) Germany	(33) United States of America
OR SYSTEM FOR TRANSMITTING	(51) F16D 1/08	(51) F16D 65/14

F16D 65/28	ZHOU, Jun	21.10.2014
B66B 5/18	CHEN, Qiang	(33) United States of America
F16D 63/00	CHENG, Haitao	United States of America
F16D 121/22	CHEN, Canhui	United States of America
F16D 123/00	CHEN, Qinghua	United States of America
(11) EP2920482	LONG, Yaokun	(51) F16H 25/20
(21) EP12888423.6	NONG, Duomin	F02K 9/80
(47) 20.04.2022	DUAN, Guoqi	F16F 9/00
(87) US2012065177	(31) 201711021632	F16H 25/22
22.05.2014	(32) 27.10.2017	H02K 7/06
(22) 15.11.2012	(33) China	(11) EP3203116
(54) BRAKE	(51) F16H 1/28	(21) EP17154322.6
(73) Otis Elevator Company	B60L 15/00	(47) 20.04.2022
(72) WEST, Adrian, D.	F16H 1/46	(22) 02.02.2017
TERRY, Harold	F16H 48/08	(54) THRUST VECTOR CONTROL
MARVIN, Daryl, J.	F16H 48/38	ELECTRIC ACTUATOR AND METHOD
PIECH, Zbigniew	F16H 48/40	OF MANUFACTURING THE SAME
(51) F16D 65/22	B60K 1/00	(73) Hamilton Sundstrand Corporation
(11) EP3760892	F16H 57/021	(72) HIMMELMANN, Richard A.
(21) EP20181977.8	F16H 57/027	(31) 201615012940
(47) 20.04.2022	F16H 57/028	(32) 02.02.2016
(22) 24.06.2020	(11) EP3620684	(33) United States of America
(54) MULTIPLE DISC BRAKE FOR VEHICLE	(21) EP18848484.4	(51) F16H 25/22
DRIVE UNIT	(47) 20.04.2022	(11) EP3828438
(73) I&W Engineering AG	(87) JP2018031422	(21) EP20162353.5
(72) Iklé, Adrian	28.02.2019	(47) 20.04.2022
(31) 8822019	(22) 24.08.2018	(22) 11.03.2020
(32) 04.07.2019	(54) VEHICLE DRIVE DEVICE	(54) BALL SCREW ASSEMBLY
(33) Switzerland	(73) AISIN CORPORATION	(73) Lee, Szu-Ying
(51) F16D 69/02	(72) SUYAMA Daiki	(72) Lee, Szu-Ying
D04H 1/498	SANJI Hiroaki	(31) 201911205360
D04H 1/4242	OTA Koji	(32) 29.11.2019
F16D 65/12	SASAKI Kazuyuki	(33) China
F16D 69/00	KAWAGUCHI Yuki	(51) F16H 25/24
(11) EP2473752	ICHIOKA Mitsuhiro	(11) EP3828439
(21) EP09849038.6	FUJISHIMA Isao	(21) EP20162369.1
(47) 20.04.2022	(31) 2018039785	(47) 20.04.2022
(87) KR2009007465	2017162183	(22) 11.03.2020
10.03.2011	(32) 06.03.2018	(54) BALL SCREW ASSEMBLY
(22) 14.12.2009	25.08.2017	(73) Lee, Szu-Ying
(54) POROUS, CARBON-CONTAINING	(33) Japan	(72) Lee, Szu-Ying
PREFORM AND PROCESS FOR	Japan	(31) 201911205346
PRODUCING THE SAME	(51) F16H 7/12	(32) 29.11.2019
(73) Dacc Carbon	B60K 25/02	(33) China
(72) LEE, Seyoon	F02B 67/06	(51) F16H 25/24
SHIN, Hyunkyuu	(11) EP3209901	F16H 25/22
CHO, Chaewook	(21) EP15852561.8	(11) EP3809013
CHO, Daehyun	(47) 20.04.2022	(21) EP20165651.9
PARK, Jonghyun	(87) CA2015051067	(47) 20.04.2022
(31) 20090082415	28.04.2016	(22) 25.03.2020
(32) 02.09.2009	(22) 21.10.2015	(54) BALL SCREW AND METHOD OF
(33) Korea (Republic)	(54) ENDLESS DRIVE ARRANGEMENT	ASSEMBLY
(51) F16F 13/00	AND IMPROVED TWO-ARMED	(73) SFS Group International AG
F16F 9/04	TENSIONING SYSTEM FOR SAME	(72) Sinz, Daniel
F16F 1/373	(73) Litens Automotive Partnership	Schädlich, André
F16F 15/02	(72) BOYES, Andrew M.	(51) F16H 57/04
F16F 15/023	NEUDORF, Thelma	B60K 6/445
F16F 15/08	ANTCHAK, John	(11) EP3728902
(11) EP3534035	RYELAND, Geoffrey W.	(21) EP18815706.9
(21) EP18869958.1	DESOUZA-COELHO, Jason R.	(47) 20.04.2022
(47) 20.04.2022	FAREWELL, Ron	(87) EP2018084440
(87) CN2018098205	(31) 201562145993 P	27.06.2019
02.05.2019	201562141514 P	(22) 12.12.2018
(22) 02.08.2018	201562113302 P	(54) MOTORIZED APPARATUS
(54) EMERGENCY AIR SPRING ASSEMBLY	201462066719 P	(73) Vhit S.P.A. Societa Unipersonale
(73) Zhuzhou Times New Material Technology	(32) 10.04.2015	(72) FAUDA, Alessandro
Co., Ltd.	01.04.2015	(31) 201700148415
(72) YE, Te	06.02.2015	

(32) 21.12.2017	01.08.2019	(54) PNEUMATIC POWER TOOL WITH AN
(33) Italy	(22) 23.01.2019	ADJUSTABLE AIR FLOW LIMITING
(51) F16H 61/00	(54) AXIAL SHAFT SEALING RING AND	VALVE
F16H 61/688	SEAL ARRANGEMENT	(73) Atlas Copco Industrial Technique AB
F16H 57/00	(73) Trelleborg Sealing Solutions Germany	(72) GEORGSSON, Wilhelm, Mattias
F16H 59/40	GmbH	YOUSEF, Hassan
F16H 59/50	(72) WEHMANN, Christoph	(31) 1550572
(11) EP3798474	FRANZ, Martin	(32) 05.05.2015
(21) EP20199357.3	SCHÜLE, Christoph	(33) Sweden
(47) 20.04.2022	(31) 102018201291	(51) F16L 9/18
(22) 30.09.2020	(32) 29.01.2018	F16L 55/033
(54) METHOD TO CONTROL A ROAD	(33) Germany	B33Y 80/00
VEHICLE PROVIDED WITH A	(51) F16J 15/3244	B29C 64/00
DUAL-CLUTCH, SERVO-ASSISTED	F16J 15/3232	B64D 13/00
TRANSMISSION AND STANDING STILL	F16J 15/3256	F16L 55/027
WITH THE INTERNAL COMBUSTION	F16J 15/3204	(11) EP3473910
ENGINE TURNED ON	(11) EP3633245	(21) EP18201988.5
(73) FERRARI S.p.A.	(21) EP18809887.5	(47) 20.04.2022
(72) NANNINI, Andrea	(47) 20.04.2022	(22) 23.10.2018
SENSERINI, Giacomo	(87) JP2018021193	(54) DUCT ASSEMBLY HAVING INTERNAL
BARONE, Alessandro	06.12.2018	NOISE REDUCTION FEATURES,
MARCONI, Stefano	(22) 01.06.2018	THERMAL INSULATION AND LEAK
(31) 201900017504	(54) SEALING DEVICE	DETECTION
(32) 30.09.2019	(73) NOK Corporation	(73) Hamilton Sundstrand Corporation
(33) Italy	(72) ITO, Sosuke	(72) PALMER, Nigel G. M.
(51) F16H 63/30	YONAI, Hisato	(31) 201715790786
F16H 63/34	SAKANO, Yuya	(32) 23.10.2017
(11) EP3635280	INOUE, Masahiko	(33) United States of America
(21) EP18729734.6	(31) 2017109912	(51) F16L 11/08
(47) 20.04.2022	(32) 02.06.2017	B32B 1/08
(87) FR2018051189	(33) Japan	B32B 5/12
13.12.2018	(51) F16J 15/44	B32B 27/40
(22) 17.05.2018	F01D 11/02	B32B 27/36
(54) SYSTEM FOR CONTROLLING A	(11) EP3196517	B32B 27/30
MANUAL-TYPE GEARBOX FOR A	(21) EP17152602.3	B32B 27/12
MOTOR VEHICLE	(47) 20.04.2022	B32B 25/16
(73) PSA Automobiles SA	(22) 23.01.2017	B32B 25/14
(72) MATIAS, Carlos	(54) SECONDARY SEAL DEVICE(S) WITH	B32B 25/12
DURIEZ, Thomas	ALIGNMENT TAB(S)	(11) EP3645266
(31) 1755098	(73) Raytheon Technologies Corporation	(21) EP18747008.3
(32) 08.06.2017	(72) PETERS, Christopher J.	(47) 20.04.2022
(33) France	HYLAND, Dave J.	(87) IB2018054743
(51) F16H 63/34	(31) 201615004556	03.01.2019
F16H 21/10	(32) 22.01.2016	(22) 27.06.2018
F16H 37/12	(33) United States of America	(54) ULTRA-LIGHTWEIGHT REINFORCED
F16H 61/32	(51) F16J 15/44	FLEXIBLE HOSE
F16H 25/20	F01D 11/02	(73) FITT SPA
(11) EP3698071	F16J 15/447	(72) CEGALIN, Alessandro
(21) EP18782355.4	F01D 11/00	VIGOLO, Valentino
(47) 20.04.2022	(11) EP3677817	BATTAGLIA, Luca
(87) EP2018075897	(21) EP19219634.3	(31) 201700071472
25.04.2019	(47) 20.04.2022	(32) 27.06.2017
(22) 25.09.2018	(22) 24.12.2019	(33) Italy
(54) ACTUATION ARRANGEMENT FOR	(54) HYDROSTATIC SEAL WITH EXTENDED	(51) F16L 13/14
A PARKING LOCK FOR A MOTOR	HOUSING	B29C 45/00
VEHICLE	(73) Raytheon Technologies Corporation	F16L 47/22
(73) VOLKSWAGEN	(72) GROVER, Eric A.	B29L 31/24
AKTIENGESELLSCHAFT	HILBERT, Brian F.	B29C 65/64
(72) PETRZIK, Gunther	(31) 201916239242	B29C 65/66
(31) 102017218638	(32) 03.01.2019	B29C 65/68
(32) 18.10.2017	(33) United States of America	B29C 65/00
(33) Germany	(51) F16K 3/08	B29K 23/00
(51) F16J 15/16	(11) EP3291948	(11) EP2671011
F16J 15/34	(21) EP16722064.9	(21) EP12701753.1
(11) EP3746683	(47) 20.04.2022	(47) 20.04.2022
(21) EP19701515.9	(87) EP2016058846	(87) EP2012051539
(47) 20.04.2022	10.11.2016	09.08.2012
(87) EP2019051594	(22) 21.04.2016	(22) 31.01.2012

(54) CLAMPING RING	E05B 73/00	DUBININ, Stanislav
(73) Uponor Innovation AB	F16M 11/28	(51) F17C 11/00
(72) LAAKSO, Jyri	F16M 11/42	(11) EP3234443
SAVOLAINEN, Mika	F16M 13/00	(21) EP15820493.3
(31) 11152871	A47B 23/04	(47) 20.04.2022
(32) 01.02.2011	F16G 11/02	(87) EP2015080529
(33) European Patent Office (EPO)	F16G 11/14	23.06.2016
(51) F16L 21/08	(11) EP3593027	(22) 18.12.2015
(11) EP3567292	(21) EP18713108.1	(54) METAL HYDRIDE HYDROGEN
(21) EP18171559.0	(47) 20.04.2022	STORAGE TANK COMPRISING A
(47) 20.04.2022	(87) US2018021578	PLURALITY OF STACKED LEVELS
(22) 09.05.2018	13.09.2018	(73) Commissariat à l'Énergie Atomique et
(54) RESTRAINT COUPLING	(22) 08.03.2018	aux Énergies Alternatives
(73) Ludwig Frischhut GmbH & Co. KG	(54) FLEXIBLE RETENTION SYSTEMS FOR	(72) CHAISE, Albin
(72) GEIJBELS, Nicky	PORTABLE ELECTRONIC DEVICES	GILLIA, Olivier
HUBBAUER, Bernhard	(73) Ergotron, Inc.	(31) 1462908
HERKER, Martin	(72) THEIS, John William	(32) 19.12.2014
JENKINS, Andrew	ASAMARAI, Saeb Salih	(33) France
(51) F16L 23/08	BEISSEL, Joshua Jerome	(51) F21K 9/232
F23J 13/04	WONG, Thiem Chan Duong	F21V 23/04
(11) EP3409993	MULLEN, Michael John	F21K 9/238
(21) EP17382305.5	(31) 201762469138 P	F21V 23/00
(47) 20.04.2022	(32) 09.03.2017	F21Y 115/10
(22) 29.05.2017	(33) United States of America	(11) EP3705772
(54) TUBE FOR TRANSPORTING FLUIDS	(51) F16M 11/10	(21) EP20161361.9
AND COUPLING SYSTEM	F16M 11/18	(47) 20.04.2022
(73) JEREMIAS ESPAÑA S.A.	F16M 11/28	(22) 06.03.2020
(72) Abascal Santos, José Manuel	F16M 11/42	(54) INTELLIGENT LAMP INCLUDING
(51) F16L 37/084	(11) EP3643957	LIGHT SOURCE MODULE AND
F16L 37/12	(21) EP19204559.9	COMMUNICATIONS MODULE
(11) EP3775657	(47) 20.04.2022	(73) Xiamen Eco Lighting Co., Ltd.
(21) EP19721116.2	(22) 22.10.2019	(72) LIN, Maohua
(47) 20.04.2022	(54) LIFTABLE SCREEN STAND	XU, Ronglin
(87) IB2019052611	(73) Chartmate Inc.	ZOU, Renhua
03.10.2019	(72) LEE, Mong-Yu	WU, Zhixian
(22) 29.03.2019	LEE, Chi-Jun	PENG, Bofeng
(54) QUICK COUPLING FOR THREADED	(31) 107137908	(31) 201920290327 U
OR SHAPED TERMINALS	(32) 26.10.2018	(32) 07.03.2019
(73) Polo S.R.L.	(33) Taiwan, Province of China	(33) China
(72) POZZI, Marco	(51) F17C 1/00	(51) F21S 8/02
LOCATELLI, Silvia	F17C 13/04	F21V 19/00
(31) 201800004125	F17C 13/12	F21V 21/04
(32) 30.03.2018	(11) EP3374684	F21V 21/30
(33) Italy	(21) EP16787408.0	(11) EP3809037
(51) F16L 37/098	(47) 20.04.2022	(21) EP20181500.8
F16L 37/092	(87) EP2016075521	(47) 20.04.2022
F16L 25/00	18.05.2017	(22) 22.06.2020
F16L 37/091	(22) 24.10.2016	(54) LAMP TRIM AND LAMP MODULE
F16L 37/56	(54) MOTOR VEHICLE WITH A PRESSURE	(73) Leedarson Lighting Fixtures Co., Ltd
F16L 25/01	TANK AND A SAFETY VALVE DEVICE	(72) ZHANG, Ziran
D06F 39/08	(73) Bayerische Motoren Werke	XU, Deshun
(11) EP3715692	Aktiengesellschaft	WANG, Weiteng
(21) EP20163480.5	(72) KUNBERGER, Jan-Mark	(31) 201921746870 U
(47) 20.04.2022	(31) 102015222251	201921747631 U
(22) 17.03.2020	(32) 11.11.2015	(32) 17.10.2019
(54) A NON-DEMOUNTABLE CONNECTION	(33) Germany	17.10.2019
SYSTEM FOR CONNECTING A	(51) F17C 1/16	(33) China
FLEXIBLE HOSE TO A HYDRAULIC	(11) EP3436736	China
DEVICE	(21) EP16704127.6	(51) F21S 41/143
(73) BITRON S.p.A.	(47) 20.04.2022	F21S 41/16
(72) ALLAMANDO, Luca	(87) CZ2016050005	F21S 41/176
DELFINO, Riccardo	27.07.2017	F21S 41/255
RIVERO, Davide	(22) 18.01.2016	F21S 41/32
(31) 201900004055	(54) INLET/OUTLET SYSTEM FOR	F21S 41/365
(32) 20.03.2019	COMPOSITE PRESSURE	(11) EP3267093
(33) Italy	RECEPTACLES	(21) EP17179521.4
(51) F16M 11/04	(73) HPC Research s.r.o.	(47) 20.04.2022
	(72) DUBININ, Pavel	(22) 04.07.2017

(54) LIGHTING APPARATUS FOR VEHICLE	F21Y 115/10	(87) CN2016083397
(73) LG Electronics Inc.	(11) EP3772610	01.12.2016
(72) Park, Jun	(21) EP20189537.2	(22) 26.05.2016
(31) 20160084323	(47) 20.04.2022	(54) MULTIPLE-PIPE INSTANT HEATING
(32) 04.07.2016	(22) 05.08.2020	TYPE STEAM GENERATOR AND
(33) Korea (Republic)	(54) LIGHTING DEVICE	APPLICATION THEREOF
(51) F21S 41/147	(73) Nichia Corporation	(73) Suzhou OS Electric Co Ltd
F21S 41/16	(72) WAKAFUJI, Akiyoshi	(72) ZHAO, Guoqing
F21S 41/40	(31) 2020088636	(31) 201510273120
F21S 41/675	2019144826	(32) 26.05.2015
G02B 26/08	(32) 21.05.2020	(33) China
G02B 5/02	06.08.2019	(51) F23D 14/02
F21S 41/14	(33) Japan	F23D 14/68
(11) EP3510320	Japan	F23D 14/14
(21) EP17739179.4	(51) F21V 17/10	F23D 14/62
(47) 20.04.2022	F21S 8/08	(11) EP3604917
(87) AT2017060158	F21V 15/01	(21) EP18777414.6
15.03.2018	E05C 17/04	(47) 20.04.2022
(22) 26.06.2017	F16M 11/10	(87) JP2018011488
(54) VEHICLE HEADLIGHT	(11) EP3818301	04.10.2018
(73) ZKW Group GmbH	(21) EP19733787.6	(22) 22.03.2018
(72) REISINGER, Bettina	(47) 20.04.2022	(54) SURFACE COMBUSTION BURNER,
DANNER, Markus	(87) EP2019067179	COMPOSITE BURNER, AND IGNITION
PÜRSTINGER, Josef	09.01.2020	DEVICE FOR SINTERING MACHINE
(31) 507912016	(22) 27.06.2019	(73) JFE Steel Corporation
(32) 08.09.2016	(54) STAND AND LIGHTING DEVICE	(72) IWATA Koji
(33) Austria	(73) Signify Holding B.V.	HARA Kazuaki
(51) F21S 43/14	(72) VERHOEVEN, Mark, Johannes, Antonius	HORIKAWA Yukimasa
F21S 43/237	(31) 18181184	FUJIWARA Hiromichi
F21S 43/239	(32) 02.07.2018	(31) 2017061577
F21S 43/243	(33) European Patent Office (EPO)	(32) 27.03.2017
F21S 43/245	(51) F21V 21/30	(33) Japan
F21S 43/247	F21V 29/65	(51) F23D 14/14
F21S 43/249	(11) EP3816508	F23D 14/02
F21S 43/251	(21) EP19220113.5	(11) EP3652485
F21S 43/50	(47) 20.04.2022	(21) EP18737586.0
(11) EP3176494	(22) 30.12.2019	(47) 20.04.2022
(21) EP16200635.7	(54) INTERNAL-CIRCULATING HEAT	(87) EP2018068031
(47) 20.04.2022	DISSIPATION SYSTEM FOR STAGE	17.01.2019
(22) 25.11.2016	LIGHT	(22) 04.07.2018
(54) LIGHT MODULE COMPRISING TWO	(73) Guangzhou Haoyang Electronic Co., Ltd.	(54) PREMIX GAS BURNER
LIGHT GUIDES	(72) JIANG, Weikai	(73) Bekaert Combustion Technology B.V.
(73) Automotive Lighting Reutlingen GmbH	JIANG, Weiquan	(72) BOER, Roelof
(72) Kleiner, Thomas	(31) 201911055313	HOLTROP, Daniel
(31) 202015008368 U	(32) 31.10.2019	OOSTRA, Derk
(32) 02.12.2015	(33) China	VAN ZUTPHENT, René
(33) Germany	(51) F21V 33/00	FOLKERS, Geert
(51) F21V 5/04	G02F 1/1333	HOLSAPPEL, Johan Christiaan
F21V 5/08	(11) EP3635294	(31) 17181106
F21V 7/00	(21) EP18727827.0	(32) 13.07.2017
G02B 19/00	(47) 20.04.2022	(33) European Patent Office (EPO)
(11) EP3735555	(87) EP2018064600	(51) F23J 15/00
(21) EP18815774.7	13.12.2018	F01K 17/06
(47) 20.04.2022	(22) 04.06.2018	F22B 31/08
(87) FI2018050795	(54) PANEL MODULE AND METHOD FOR	(11) EP3426981
11.07.2019	OBTAINING THE SAME	(21) EP17772907.6
(22) 01.11.2018	(73) Signify Holding B.V.	(47) 20.04.2022
(54) AN OPTICAL DEVICE FOR MODIFYING	(72) CREEMERS, Henricus, Mathijs, Maria	(87) CA2017050388
LIGHT DISTRIBUTION	WEGH, Ren , Theodorus	05.10.2017
(73) Ledil Oy	GIELEN, Vincent, Stefan, David	(22) 30.03.2017
(72) SIUVATTI, Arsi	(31) 17174497	(54) COMBUSTION SYSTEM
(31) 20185007	(32) 06.06.2017	INCORPORATING TEMPERATURE
(32) 04.01.2018	(33) European Patent Office (EPO)	SWING ADSORPTIVE GAS
(33) Finland	(51) F22B 1/28	SEPARATION
(51) F21V 7/00	B08B 3/02	(73) Inventys Thermal Technologies Inc.
F21V 7/09	(11) EP3306188	(72) KHIAMI, Soheil
F21W 131/103	(21) EP16799326.0	BOULET, Andre
F21W 131/107	(47) 20.04.2022	(31) 201662316410 P

(32) 31.03.2016	DEL ZOPPO, Antonio	(54) A METHOD FOR CONTROLLING
(33) United States of America	(31) 201800001822	SUCTION PRESSURE OF A VAPOUR
(51) F24F 1/0073	(32) 25.01.2018	COMPRESSION SYSTEM
F24F 8/10	(33) Italy	(73) Danfoss A/S
F24F 11/70	(51) F24F 12/00	(72) LARSEN, Lars Finn Sloth
F24F 13/20	F24F 5/00	PRINS, Jan
F24F 13/28	F25B 13/00	(51) F25B 1/10
(11) EP3690334	F24F 1/0007	F25B 49/02
(21) EP20153821.2	F25B 30/02	(11) EP3628940
(47) 20.04.2022	F24F 140/12	(21) EP18196410.7
(22) 27.01.2020	F24F 140/20	(47) 20.04.2022
(54) AIR CONDITIONER	(11) EP3420284	(22) 25.09.2018
(73) LG Electronics Inc.	(21) EP17755882.2	(54) A METHOD FOR CONTROLLING A
(72) BAE, Junseok	(47) 20.04.2022	VAPOUR COMPRESSION SYSTEM
YOON, Hyeonguk	(87) FI2017050116	BASED ON ESTIMATED FLOW
KANG, Jinil	31.08.2017	(73) Danfoss A/S
KIM, Hakjae	(22) 22.02.2017	(72) LARSEN, Lars Finn Sloth
LEE, Eunsun	(54) ECOLOGICAL ARRANGEMENT FOR	PRINS, Jan
DO, Seunghyun	ENERGY EFFICIENCY IMPROVEMENT	(51) F25B 21/02
(31) 20190031422	(73) Suomen Ilmastointi Ja Savunpoisto Oy	F25D 19/02
20190013061	(72) TOPPINEN, Esa	F25D 11/00
(32) 19.03.2019	(31) 20165135	(11) EP3635306
31.01.2019	(32) 22.02.2016	(21) EP18732559.2
(33) Korea (Republic)	(33) Finland	(47) 20.04.2022
Korea (Republic)	(51) F24F 13/02	(87) US2018035014
(51) F24F 1/24	F16L 23/14	06.12.2018
F24F 1/06	F16L 23/16	(22) 30.05.2018
(11) EP3361168	E04F 17/04	(54) ACTIVELY COOLED DEVICE FOR
(21) EP17155593.1	B60H 1/00	SMALL SCALE DELIVERY
(47) 20.04.2022	F24F 5/00	(73) Carrier Corporation
(22) 10.02.2017	(11) EP3488158	(72) AARON, Kyle
(54) HEAT SOURCE UNIT AND AIR	(21) EP17834872.8	POOLMAN, Ciara
CONDITIONER HAVING THE HEAT	(47) 20.04.2022	(31) 201762584349 P
SOURCE UNIT	(87) SG2017050377	201762513178 P
(73) Daikin Industries, Ltd.	01.02.2018	(32) 10.11.2017
Daikin Europe N.V.	(22) 25.07.2017	31.05.2017
(72) Pirmez, Pieter	(54) A DUCT PANEL	(33) United States of America
Kawano, Satoshi	(73) Instad Pre Fabrication Pte Ltd	United States of America
Kojima, Akiharu	(72) CHAN, Kwan Heng	(51) F25B 39/00
(51) F24F 3/153	(31) 10201606130V	F25D 11/00
B01D 53/26	(32) 25.07.2016	F28D 15/02
F24F 3/14	(33) Singapore	F25B 39/04
(11) EP3640554	(51) F24F 13/20	F25D 3/00
(21) EP18818936.9	F25B 49/02	F28D 15/04
(47) 20.04.2022	F24F 1/24	(11) EP3255359
(87) JP2018019973	F24F 1/48	(21) EP15880939.2
20.12.2018	(11) EP3361173	(47) 20.04.2022
(22) 24.05.2018	(21) EP17155595.6	(87) CN2015091096
(54) HUMIDITY CONTROL UNIT	(47) 20.04.2022	11.08.2016
(73) Daikin Industries, Ltd.	(22) 10.02.2017	(22) 29.09.2015
(72) KIZAWA, Toshihiro	(54) HEAT SOURCE UNIT AND AIR	(54) SINTERED HEAT PIPE AND
(31) 2017116658	CONDITIONER HAVING THE HEAT	SEMI-CONDUCTOR COOLING
(32) 14.06.2017	SOURCE UNIT	REFRIGERATOR PROVIDED WITH
(33) Japan	(73) Daikin Industries, Ltd.	SAME
(51) F24F 7/08	Daikin Europe N.V.	(73) Qingdao Haier Joint Stock Co., Ltd
F24F 11/00	(72) Kawano, Satoshi	(72) LI, Chunyang
F24F 13/10	Kojima, Akiharu	QI, Feifei
F24F 11/49	Pirmez, Pieter	LIU, Jianru
G01N 17/00	(51) F25B 1/10	ZHANG, Kui
(11) EP3517847	F25B 5/02	TAO, Haibo
(21) EP19153220.9	F25B 41/00	Ji, Lisheng
(47) 20.04.2022	F25B 49/02	LI, Peng
(22) 23.01.2019	(11) EP3798533	(31) 201510056261
(54) TEST ROOM FOR TESTING SYSTEMS	(21) EP19199832.7	(32) 03.02.2015
(73) Mitsubishi Electric Hydraulics & IT	(47) 20.04.2022	(33) China
Cooling Systems S.p.A.	(22) 26.09.2019	(51) F25B 47/02
(72) SORMANI, Giancarlo		F24F 11/00
CASSOL, Agostino		F25B 1/00

F25B 13/00	Lee, Bok Dong	(11) EP3521737
F25B 41/20	(31) 20050019051	(21) EP19159988.5
F25B 49/02	20050017123	(47) 20.04.2022
(11) EP3032193	20050017125	(22) 27.04.2016
(21) EP14834052.4	20050015692	(54) REFRIGERATOR AND METHOD FOR
(47) 20.04.2022	20050015693	OPENING A REFRIGERATOR DOOR
(87) JP2014051163	20050014749	(73) LG Electronics Inc.
12.02.2015	20050012991	(72) KIM, Minsub
(22) 22.01.2014	20050009362	KWON, Hongsik
(54) AIR CONDITIONING DEVICE	20050008905	LEE, Jungjae
(73) Fujitsu General Limited	(32) 08.03.2005	KIM, Dongjeong
(72) HAYASHI, Kuniko	02.03.2005	SHIN, Jaehoon
KIMURA, Takashi	02.03.2005	(31) 20160001272
(31) 2013165037	25.02.2005	20150058952
(32) 08.08.2013	25.02.2005	(32) 05.01.2016
(33) Japan	23.02.2005	27.04.2015
(51) F25B 47/02	17.02.2005	(33) Korea (Republic)
F25B 1/00	02.02.2005	Korea (Republic)
F25B 5/02	01.02.2005	(51) F25D 23/06
F25B 13/00	(33) Korea (Republic)	(11) EP3805674
F25B 41/00	Korea (Republic)	(21) EP20205627.1
F25B 49/02	Korea (Republic)	(47) 20.04.2022
(11) EP3480533	Korea (Republic)	(22) 25.11.2015
(21) EP17820053.1	Korea (Republic)	(54) METHOD FOR MANUFACTURING
(47) 20.04.2022	Korea (Republic)	A LINER OF A REFRIGERATOR
(87) JP2017023225	Korea (Republic)	APPLIANCE
04.01.2018	Korea (Republic)	(73) ELECTROLUX APPLIANCES
(22) 23.06.2017	Korea (Republic)	AKTIEBOLAG
(54) REFRIGERATION DEVICE	(51) F25D 23/02	(72) BASSAN, Alfredo
(73) Daikin Industries, Ltd.	(11) EP3502599	DE LUCA, Gilda
(72) KITAO Takuya	(21) EP16913442.6	SANITA', Massimo
UENO Akitoshi	(47) 20.04.2022	FABBRO, Luca
(31) 2016130541	(87) CN2016112817	CECCHINI, Corrado
(32) 30.06.2016	22.02.2018	(51) F25D 25/00
(33) Japan	(22) 29.12.2016	F25D 25/02
(51) F25B 49/02	(54) MECHANISM FOR OPENING DOOR	(11) EP2581693
F25B 1/10	FROM THE LEFT OR THE RIGHT, AND	(21) EP12006985.1
F25B 9/08	REFRIGERATOR	(47) 20.04.2022
F25B 41/20	(73) Qingdao Haier Joint Stock Co., Ltd	(22) 09.10.2012
F25B 5/02	(72) ZHANG, Hao	(54) Mount for a food container, in particular a
(11) EP3601907	XIA, Enpin	gastronom container
(21) EP18715561.9	HE, Guoshun	(73) Maier, Max
(47) 20.04.2022	ZHU, Xiaobing	(72) Maier, Max
(87) EP2018057515	(31) 201610681575	(31) 102011115880
04.10.2018	(32) 16.08.2016	(32) 12.10.2011
(22) 23.03.2018	(33) China	(33) Germany
(54) A VAPOUR COMPRESSION SYSTEM	(51) F25D 23/02	(51) F25D 25/02
WITH A SUCTION LINE LIQUID	E05D 3/18	(11) EP3767207
SEPARATOR	E05D 5/04	(21) EP19199587.7
(73) Danfoss A/S	E05D 7/081	(47) 20.04.2022
(72) MADSEN, Kenneth Bank	(11) EP3650789	(22) 25.09.2019
PRINS, Jan	(21) EP18828095.2	(54) REFRIGERATOR COMPRISING A
LARSEN, Lars Finn Sloth	(47) 20.04.2022	DRAWABLE DOOR AND CONTROL
(31) PA201700214	(87) CN2018093641	METHOD THEREFOR
(32) 28.03.2017	10.01.2019	(73) LG ELECTRONICS INC.
(33) Denmark	(22) 29.06.2018	(72) CHOI, Kwang Hyun
(51) F25D 17/08	(54) REFRIGERATOR	KIM, Chang Won
F25D 11/02	(73) Qingdao Haier Joint Stock Co., Ltd	(31) 20190085199
F25D 23/12	(72) ZHU, Xiaobing	(32) 15.07.2019
(11) EP2623905	XIA, Enpin	(33) Korea (Republic)
(21) EP13162211.0	ZHANG, Hao	(51) F25J 3/04
(47) 20.04.2022	(31) 201710528821	(11) EP3019803
(22) 01.02.2006	(32) 01.07.2017	(21) EP14738741.9
(54) Refrigerator	(33) China	(47) 20.04.2022
(73) LG Electronics Inc.	(51) F25D 23/02	(87) EP2014001892
(72) Yang, Chang Woan	F25D 27/00	15.01.2015
Lee, Seung Mok	F25D 29/00	(22) 10.07.2014
Han, Kap Rok	F25D 23/06	

(54) METHOD AND DEVICE FOR OXYGEN PRODUCTION BY LOW-TEMPERATURE SEPARATION OF AIR AT VARIABLE ENERGY CONSUMPTION	KOZHEVNIKOV, Konstantin Gennadievich KIRICHENKO, Mikhail Nikolaevich KIRICHKOV, Anatoliy Alexandrovich SERGEEV, Sergey Mikhaylovich GONTAR, Alexey Vladimirovich GALITSYN, Georgy Alexandrovich KHLYST, Sergey Vasilievich SHESTAKOV, Andrey Nikolaevich PSHENICHNIKOV, Pavel Alexandrovich KHLYST, Ilya Sergeevich KUSHNAREV, Alexey Vladislavovich	(54) GREAT-POWER FLAT EVAPORATOR RESISTING AGAINST POSITIVE PRESSURE, PROCESSING METHOD THEREFOR, AND FLAT-PLATE LOOP HEAT PIPE BASED ON EVAPORATOR
(73) Linde GmbH		(73) Li, Guoguang
(72) KIRCHNER, Lars		Wang, Shuai
GOLOUBEV, Dimitri		Zhang, Hongxing
(31) 13003509		Man, Guanglong
(32) 11.07.2013		Beijing Institute of Spacecraft System Engineering
(33) European Patent Office (EPO)		Liu, Dongxiao
(51) F26B 3/06		(72) WANG, Shuai
F26B 9/06	(31) 2011144110	LIU, Dongxiao
F26B 21/02	(32) 27.10.2011	MAN, Guanglong
F26B 25/10	(33) Russian Federation	LI, Guoguang
(11) EP3631328	(51) F28D 1/04	ZHANG, Hongxing
(21) EP18723035.4	B60H 1/00	(31) 201710887521
(47) 20.04.2022	F28F 1/32	(32) 27.09.2017
(87) EP2018062791	F25D 3/10	(33) China
29.11.2018	F28D 1/047	
(22) 16.05.2018	F28D 21/00	(51) F28F 1/42
(54) APPARATUS AND METHOD FOR DRYING AND/OR CURING OF MATERIALS	(11) EP3221654	F28F 1/08
(73) Kebony AS	(21) EP15804170.7	(11) EP3097377
(72) KRISTIANSEN, Karl, Christian	(47) 20.04.2022	(21) EP15704060.1
BRYNILDSEN, Per	(87) FR2015053105	(47) 20.04.2022
(31) 17172243	26.05.2016	(87) FR2015050126
(32) 22.05.2017	(22) 17.11.2015	23.07.2015
(33) European Patent Office (EPO)	(54) VEHICLE FOR INDIRECT-INJECTION CRYOGENIC TRANSPORTATION COMPRISING A COMPACT EXCHANGER	(22) 19.01.2015
(51) F26B 11/16		(54) IMPROVED TUBE FOR A HEAT EXCHANGER
F26B 5/08	(73) L'Air Liquide Société Anonyme pour l'Etude et l'Exploitation des Procédés	(73) Neotiss SAS
F26B 17/22	Georges Claude	(72) DUPRAT, Joël
F26B 17/24	(72) CLEMENT, Cécile	SAUSSIÉ, Pascal
F26B 3/06	DALLAIS, Antony	(31) 1450439
(11) EP3325905	YOUBI-IDRISSI, Mohammed	(32) 20.01.2014
(21) EP17788379.0	ZERBINATTI, Celso	(33) France
(47) 20.04.2022		(51) F28F 3/10
(87) US2017055343	(31) 1461237	A61L 2/07
19.04.2018	(32) 20.11.2014	B08B 3/02
(22) 05.10.2017	(33) France	F28C 3/00
(54) CENTRIFUGAL PELLET DRYER	(51) F28D 9/00	F28C 3/06
(73) Maag Gala, Inc.	F28F 9/00	H01L 23/473
(72) MORRIS, Kerry Patrick	F28F 9/02	(11) EP3658837
SHORTT, Louis Cody	F28F 3/04	(21) EP18750114.3
THRASHER, JR., Richard Borland	F28F 3/06	(47) 20.04.2022
(31) 201615293990	(11) EP3818319	(87) EP2018069816
(32) 14.10.2016	(21) EP19737519.9	31.01.2019
(33) United States of America	(47) 20.04.2022	(22) 20.07.2018
(51) F27B 9/20	(87) EP2019068157	(54) USE OF A HEAT EXCHANGE BODY AND A FLUID SOURCE AS HEAT EXCHANGER DEVICE.
F27D 11/06	09.01.2020	(73) FDX Fluid Dynamix GmbH
F27D 99/00	(22) 05.07.2019	(72) KRUEGER, Oliver
C21D 1/42	(54) PLATE FOR A HEAT EXCHANGER AND HEAT EXCHANGER COMPRISING THE PLATE	BOBUSCH, Bernhard
C21D 11/00		WINTERING, Jens Hermann
C21D 9/04	(73) Nexson Group	(31) 102017212961
(11) EP2700724	(72) BONNAFOUS, Charles	(32) 27.07.2017
(21) EP12830673.5	(31) 1856214	(33) Germany
(47) 20.04.2022	(32) 05.07.2018	
(87) RU2012000727	(33) France	(51) F28F 3/14
14.03.2013	(51) F28D 15/04	F25B 15/00
(22) 05.09.2012	(11) EP3690373	F25B 17/00
(54) METHOD AND APPARATUS FOR HEAT TREATING RAILS	(21) EP17926345.4	F25B 35/00
(73) Scientific Manufacturing Enterprise	(47) 20.04.2022	F25B 37/00
Tomsk Electronic Company, Ltd.	(87) CN2017000656	(11) EP3722730
(72) IVANOV, Alexey Gennadievich	04.04.2019	(21) EP20167406.6
KUZMICHENKO, Vladimir Mikhaylovich	(22) 31.10.2017	(47) 20.04.2022
		(22) 31.03.2020

(54) ABSORPTION MACHINE COMPRISING PADDED PLATES	(21) EP16765327.8 (47) 20.04.2022	(72) Wiley, Sy Padgett, Charles
(73) CNIM Systèmes Industriels	(87) NZ2016050042 22.09.2016	(31) 201161433170 P (32) 14.01.2011
(72) MONORE, Estelle MAILHOT, Dominique NUNES, Frédéric YAZBEK, Wael	(22) 18.03.2016 (54) NOISE GENERATION DEVICE (73) RDX Technologies Limited (72) HUGILL, Mark Daniel HUGILL, Shane Ross	(33) United States of America <hr/> (51) F42B 10/64 F42B 10/26 (11) EP3388777 (21) EP18176091.9 (47) 20.04.2022 (22) 27.10.2013
(31) 1903846 (32) 10.04.2019 (33) France	(31) 70596815 (32) 18.03.2015 (33) New Zealand	(54) LOW COST GUIDING DEVICE FOR PROJECTILE (73) Elbit Systems - Rokar Ltd (72) WURZEL, Gil MALUL, Assaf (31) 22407512 (32) 31.12.2012 (33) Israel
(51) F28F 9/02 (11) EP3859263 (21) EP19866072.2 (47) 20.04.2022 (87) CN2019109050 02.04.2020 (22) 29.09.2019 (54) HEAT EXCHANGER	(51) F41B 5/10 F41B 5/00 F41B 5/14 F41B 5/12 G01L 5/04 G01L 1/04	<hr/> (51) F42D 5/05 F41H 5/04 (11) EP3517883 (21) EP18200528.0 (47) 20.04.2022 (22) 15.06.2016 (54) METHOD FOR BLAST MITIGATION (73) The Regents of The University of Michigan (72) Cimonian, Levon Rice, Marie Thouless, Michael Rahimzadeh, Tanaz Arruda, Ellen M. (31) 201615036293 201562180931 P (32) 12.05.2016 17.06.2015 (33) United States of America United States of America
(21) EP19866072.2 (47) 20.04.2022 (87) CN2019109050 02.04.2020 (22) 29.09.2019 (54) HEAT EXCHANGER	(11) EP3559587 (21) EP17885276.0 (47) 20.04.2022 (87) US2017067637 28.06.2018 (22) 20.12.2017 (54) MONITORING SYSTEM FOR AN ARCHERY BOW (73) Stress Engineering Services, Inc. (72) MORROW, Daniel L. HAYNES, Clinton A. BULLARD, Joseph Krumme READ, Shannon R.	<hr/> (51) F41H 1/08 A42B 3/04 A43B 3/06 A43B 3/16 A43B 3/22 A43B 3/30 (11) EP3108199 (21) EP15706279.5 (47) 20.04.2022 (87) GB2015050487 27.08.2015 (22) 19.02.2015 (54) BALLISTIC HELMET (73) Racal Acoustics Ltd (72) HUSSEIN, Habib WHITE, Jackson DAVIDSON, Norman (31) 201402919 (32) 19.02.2014 (33) United Kingdom
(73) Zhejiang Sanhua Intelligent Controls Co., Ltd. (72) NIU, Yujiao SHAO, Chunyu JIANG, Jianlong HUANG, Ningjie Qi, Zhaogang GAO, Qiang	(31) 201762476216 P 201662436869 P (32) 24.03.2017 20.12.2016 (33) United States of America United States of America	<hr/> (51) G01B 11/06 G01N 1/42 (11) EP3853581 (21) EP19772675.5 (47) 20.04.2022 (87) EP2019074578 26.03.2020 (22) 13.09.2019 (54) SAMPLE THICKNESS MEASURING ARRANGEMENT AND METHOD FOR MEASURING A THICKNESS OF A SAMPLE AT CRYOGENIC TEMPERATURE BY INTERFEROMETRY USING A CRYOSTAT (73) European Molecular Biology Laboratory (72) PAPP, Gergely CIPRIANI, Florent (31) 18195081 (32) 18.09.2018 (33) European Patent Office (EPO)
(31) 201811155651 201811155652 (32) 30.09.2018 30.09.2018 (33) China China	(31) 201762476216 P 201662436869 P (32) 24.03.2017 20.12.2016 (33) United States of America United States of America	<hr/> (51) G01B 11/06 G01N 1/42 (11) EP3853581 (21) EP19772675.5 (47) 20.04.2022 (87) EP2019074578 26.03.2020 (22) 13.09.2019 (54) SAMPLE THICKNESS MEASURING ARRANGEMENT AND METHOD FOR MEASURING A THICKNESS OF A SAMPLE AT CRYOGENIC TEMPERATURE BY INTERFEROMETRY USING A CRYOSTAT (73) European Molecular Biology Laboratory (72) PAPP, Gergely CIPRIANI, Florent (31) 18195081 (32) 18.09.2018 (33) European Patent Office (EPO)
(51) F41A 3/26 F41A 5/20 F41A 11/02 F41A 3/66 (11) EP3514473 (21) EP19153091.4 (47) 20.04.2022 (22) 22.01.2019 (54) UPPER RECEIVER FOR MODULAR SHOTGUN	(51) F41B 5/307 F42B 5/313 F42B 3/24 (11) EP3587994 (21) EP19192502.3 (47) 20.04.2022 (22) 13.01.2012 (54) HIGH STRENGTH POLYMER-BASED CARTRIDGE CASING FOR BLANK AND SUBSONIC AMMUNITION (73) PCP TACTICAL, LLC	<hr/> (51) G01B 11/06 G02B 21/24 G06T 7/55 G01B 11/02 (11) EP3548836 (21) EP17787400.5 (47) 20.04.2022 (87) EP2017076892
(73) American Tactical, Inc. (72) CRIBB, Roger Ellison CATON, Raymond J. DICHARIO, Anthony	(21) EP3108199 (21) EP15706279.5 (47) 20.04.2022 (87) GB2015050487 27.08.2015 (22) 19.02.2015 (54) BALLISTIC HELMET (73) Racal Acoustics Ltd (72) HUSSEIN, Habib WHITE, Jackson DAVIDSON, Norman (31) 201402919 (32) 19.02.2014 (33) United Kingdom	<hr/> (51) G01B 11/06 G02B 21/24 G06T 7/55 G01B 11/02 (11) EP3548836 (21) EP17787400.5 (47) 20.04.2022 (87) EP2017076892
(31) 201862620439 P (32) 22.01.2018 (33) United States of America	(21) EP3108199 (21) EP15706279.5 (47) 20.04.2022 (87) GB2015050487 27.08.2015 (22) 19.02.2015 (54) BALLISTIC HELMET (73) Racal Acoustics Ltd (72) HUSSEIN, Habib WHITE, Jackson DAVIDSON, Norman (31) 201402919 (32) 19.02.2014 (33) United Kingdom	<hr/> (51) G01B 11/06 G02B 21/24 G06T 7/55 G01B 11/02 (11) EP3548836 (21) EP17787400.5 (47) 20.04.2022 (87) EP2017076892
(51) F41A 17/06 (11) EP3382317 (21) EP17207571.5 (47) 20.04.2022 (22) 15.12.2017 (54) RELEASE CONTROL DEVICE AND METHOD	(31) 201402919 (32) 19.02.2014 (33) United Kingdom	<hr/> (51) G01B 11/06 G02B 21/24 G06T 7/55 G01B 11/02 (11) EP3548836 (21) EP17787400.5 (47) 20.04.2022 (87) EP2017076892
(73) MBDA Deutschland GmbH (72) MÜLLER, Jörg CELEBI, Onur BRENDEL, Marcus	(31) 201402919 (32) 19.02.2014 (33) United Kingdom	<hr/> (51) G01B 11/06 G02B 21/24 G06T 7/55 G01B 11/02 (11) EP3548836 (21) EP17787400.5 (47) 20.04.2022 (87) EP2017076892
(31) 102017003044 (32) 29.03.2017 (33) Germany	(31) 201402919 (32) 19.02.2014 (33) United Kingdom	<hr/> (51) G01B 11/06 G02B 21/24 G06T 7/55 G01B 11/02 (11) EP3548836 (21) EP17787400.5 (47) 20.04.2022 (87) EP2017076892
(51) F41A 33/04 G10K 15/04 A01M 29/16 A63H 5/04 (11) EP3254051	(31) 201402919 (32) 19.02.2014 (33) United Kingdom	<hr/> (51) G01B 11/06 G02B 21/24 G06T 7/55 G01B 11/02 (11) EP3548836 (21) EP17787400.5 (47) 20.04.2022 (87) EP2017076892

07.06.2018	(21) EP15153841.0	G06K 9/00
(22) 20.10.2017	(47) 20.04.2022	(11) EP3696507
(54) DETERMINING THE ARRANGEMENT	(22) 04.02.2015	(21) EP19156681.9
OF A SAMPLE OBJECT BY MEANS OF	(54) Coordinate measuring machine	(47) 20.04.2022
ANGLE-SELECTIVE ILLUMINATION	(73) Hexagon Technology Center GmbH	(22) 12.02.2019
(73) Carl Zeiss Microscopy GmbH	(72) Stigwall, Johan	(54) REPRESENTING AN ENVIRONMENT
(72) STICKER, Markus	Jordil, Pascal	BY CYLINDRICAL AND PLANAR
STOPPE, Lars	(51) G01C 9/24	STRUCTURES
OHRT, Thomas	G01C 9/02	(73) Veoneer Sweden AB
(31) 102016123154	G01C 9/32	(72) ADERUM, Tobias
(32) 30.11.2016	(11) EP3417238	BRUNNEGARD, Oliver
(33) Germany	(21) EP17753659.6	ERIKSSON, Olof
(51) G01B 11/24	(47) 20.04.2022	(51) G01C 21/32
G06T 19/00	(87) US2017017008	G06F 16/25
G01N 29/06	24.08.2017	G06F 16/29
G01N 29/265	(22) 08.02.2017	(11) EP3586086
G01N 23/02	(54) VIAL WITH IMPROVED VISIBILITY FOR	(21) EP18707179.0
(11) EP3721168	LEVEL	(47) 20.04.2022
(21) EP18830131.1	(73) Milwaukee Electric Tool Corporation	(87) US2018016968
(47) 20.04.2022	(72) NEITZELL, Roger D.	30.08.2018
(87) CZ2018050058	LASOTA, Richard J.	(22) 06.02.2018
13.06.2019	BLOCK, Daniel	(54) MAP DATA COMPATIBILITY
(22) 04.12.2018	CHRISTIANSON, John	PROCESSING ARCHITECTURE
(54) METHOD OF NON-DESTRUCTIVE	(31) 201662316272 P	(73) HERE Global B.V.
IMAGING OF THE INTERNAL	201662295896 P	(72) KOZLOWSKI, Alex
STRUCTURE OF AN OBJECT AND	(32) 31.03.2016	PETTINI, Stefano
DEVICE FOR CARRYING OUT THE	16.02.2016	LARROY, Pedro
METHOD	(33) United States of America	LUBLINSKY, Boris
(73) Radalytica a.s.	United States of America	(31) 201715440290
(72) UHER, Josef	(51) G01C 15/00	(32) 23.02.2017
ZAHÁLKA, Jan	G01C 15/02	(33) United States of America
(31) 20170777	G01D 13/26	(51) G01D 5/20
(32) 05.12.2017	G03B 21/14	F02D 41/00
(33) Czech Republic	G03B 21/20	F02B 75/04
(51) G01B 11/27	(11) EP3674659	F02D 15/02
G01B 5/00	(21) EP18847994.3	F02D 41/22
(11) EP3879223	(47) 20.04.2022	(11) EP3611475
(21) EP20162994.6	(87) CN2018089591	(21) EP18771272.4
(47) 20.04.2022	28.02.2019	(47) 20.04.2022
(22) 13.03.2020	(22) 01.06.2018	(87) JP2018003478
(54) METHOD FOR DETERMINING THE	(54) LASER POINT PROJECTING DEVICE	27.09.2018
LONGITUDINAL AXIS OF SYMMETRY	(73) Changzhou Huada Kejie Opto-Electro	(22) 01.02.2018
OF A VEHICLE	Instrument Co., Ltd.	(54) ROTATION ANGLE DETECTION
(73) WMS Wagner GmbH	(72) ZHANG, Ou	DEVICE AND PHASE SHIFT
(72) WAGNER, Franz	(31) 201721056628 U	DETECTION METHOD THEREOF
(51) G01B 21/04	(32) 22.08.2017	(73) Hitachi Astemo, Ltd.
G01B 7/012	(33) China	(72) OOBA, Shingo
G01B 11/00	(51) G01C 21/28	MAMADA, Hiroyuki
(11) EP3692334	G06T 7/73	ARAI, Kazuhiko
(21) EP18795846.7	G01S 5/02	(31) 2017059359
(47) 20.04.2022	G01S 5/16	(32) 24.03.2017
(87) US2018054023	G05D 1/02	(33) Japan
11.04.2019	G01S 19/48	(51) G01D 11/24
(22) 02.10.2018	G01S 19/49	B21C 37/15
(54) COORDINATE MEASURING MACHINE	(11) EP3480560	B21C 37/20
PROBE IDENTIFICATION APPARATUS	(21) EP18198306.5	F16L 9/02
AND METHOD	(47) 20.04.2022	F16L 41/00
(73) Hexagon Metrology, Inc	(22) 02.10.2018	(11) EP3811033
(72) SINGH, Gurpreet	(54) VEHICLE LOCALIZATION DEVICE	(21) EP19729550.4
MARIANI, Michael	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	(47) 20.04.2022
KOCIC, Milan	(72) TATEISHI, Kojiro	(87) EP2019065406
(31) 201762566644 P	(31) 2017213789	26.12.2019
(32) 02.10.2017	(32) 06.11.2017	(22) 12.06.2019
(33) United States of America	(33) Japan	(54) TUBE PORTION
(51) G01B 21/04	(51) G01C 21/32	(73) AB Sandvik Materials Technology
G06T 7/00	G05D 1/02	(72) MELIN, Mikael
G01B 11/00	G01C 21/30	(31) 18178766
(11) EP3054265	G06T 17/10	(32) 20.06.2018

(33) European Patent Office (EPO)	(73) Kamstrup A/S	G01F 23/22
(51) G01D 11/24	(72) BORRING, Peter Nordlund	F01N 3/20
G01D 11/30	(51) G01F 1/684	F01N 11/00
(11) EP3779371	G01F 5/00	(11) EP3548851
(21) EP19211306.6	G01F 15/18	(21) EP17818442.0
(47) 20.04.2022	(11) EP3390978	(47) 20.04.2022
(22) 25.11.2019	(21) EP16809354.0	(87) EP2017081030
(54) SENSOR ASSEMBLY AND METHOD OF MAKING A SENSOR ASSEMBLY	(47) 20.04.2022	07.06.2018
(73) ROSEMOUNT AEROSPACE INC.	(87) EP2016080082	(22) 30.11.2017
(72) MOTHE, Venkata Anil Kumar	22.06.2017	(54) METHOD FOR ESTIMATING A THAWED VOLUME PRESENT IN LIQUID FORM IN A TANK
BOJJANAPALLI, Muralidhar Rao	(22) 07.12.2016	(73) Plastic Omnium Advanced Innovation and Research
CHOCKALINGAMAHARAJA, Venkatasubramanian	(54) AIR MASS FLOW METER	(72) DECAMP, Sébastien
(31) 201911033138	(73) Vitesco Technologies GmbH	ROLLAND, Jean-Philippe
(32) 16.08.2019	(72) MILLIES, Thomas	BALDE, Mamadou Saliou
(33) India	SETESCAK, Stephen	(31) 1661685
(51) G01D 21/00	SCHINDLER, Jörg	(32) 30.11.2016
(11) EP3837499	FRAUENHOLZ, Rainer	(33) France
(21) EP19798237.4	(31) 102015225358	(51) G01F 23/16
(47) 20.04.2022	(32) 16.12.2015	G01F 23/292
(87) EP2019079891	(33) Germany	G01L 9/00
06.05.2021	(51) G01F 1/684	G01L 15/00
(22) 31.10.2019	G01K 17/10	G01L 11/02
(54) MEASURING DEVICE FOR PROCESS AUTOMATION IN THE INDUSTRIAL ENVIRONMENT	(11) EP3497410	(11) EP3775795
(73) VEGA Grieshaber KG	(21) EP17745690.2	(21) EP19715176.4
(72) KAUFMANN, Manuel	(47) 20.04.2022	(47) 20.04.2022
HOFERER, Christian	(87) EP2017068367	(87) FR2019050547
(51) G01F 1/00	15.02.2018	17.10.2019
G01F 1/66	(22) 20.07.2017	(22) 13.03.2019
(11) EP2940434	(54) SENSOR FOR A THERMAL FLOWMETER, THERMAL FLOWMETER, AND METHOD FOR PRODUCING A SENSOR OF A THERMAL FLOWMETER	(54) DEVICE AND METHOD FOR DETERMINING THE PHASE INTERFACE LEVEL IN A TANK
(21) EP15165901.8	(73) Endress+Hauser Flowtec AG	(73) SAIPEM S.A.
(47) 20.04.2022	(72) GRÜN, Alexander	(72) HALLOT, Raymond
(22) 30.04.2015	SCHULTHEIS, Hanno	(31) 1853151
(54) FLOW MEASUREMENTS IN GUTTERS AND PIPES	GABERTHÜEL, Stephan	(32) 11.04.2018
(73) Stebatec AG	(31) 102016114963	(33) France
(72) Hesse, Kilian	(32) 11.08.2016	(51) G01F 25/00
(31) 6502014	(33) Germany	G01F 1/84
(32) 01.05.2014	(51) G01F 11/18	G01F 15/02
(33) Switzerland	G01G 13/00	(11) EP2906915
(51) G01F 1/32	(11) EP3908810	(21) EP13766052.8
(11) EP3488192	(21) EP20712016.3	(47) 20.04.2022
(21) EP16909623.7	(47) 20.04.2022	(87) EP2013069672
(47) 20.04.2022	(87) IB2020051193	17.04.2014
(87) RU2016000469	20.08.2020	(22) 23.09.2013
25.01.2018	(22) 13.02.2020	(54) MEASURING SYSTEM FOR DETERMINING A VOLUME FLOW AND/OR A VOLUME FLOW RATE OF A MEDIUM FLOWING IN A PIPE LINE
(22) 21.07.2016	(54) PRECISION METERING UNIT FOR FINE/GRAINED POWDERS	(73) Endress+Hauser Flowtec AG
(54) VORTEX FLOWMETER WITH REDUCED PROCESS INTRUSION	(73) LCM S.r.l	(72) KIRST, Michael
(73) Micro Motion Inc.	(72) MAI, Pietro	RIEDER, Alfred
(72) KONYUKHOV, Alexander Vladimirovich	(31) 201900002167	(31) 102012109729
REPYEVSKY, Vladimir Viktorovich	(32) 14.02.2019	102012109708
BOGDANOV, Vladimir Dmitrievich	(33) Italy	(32) 12.10.2012
FOSTER, Jeffrey D.	(51) G01F 13/00	11.10.2012
KRIVONOGOV, Alexey Alexandrovich	G01F 15/00	(33) Germany
(51) G01F 1/66	G01F 1/76	Germany
G01F 15/14	(11) EP3511683	(51) G01F 25/00
G01F 15/18	(21) EP18150971.2	G01N 9/00
(11) EP3492877	(47) 20.04.2022	G01N 11/16
(21) EP17205135.1	(22) 10.01.2018	G01F 23/296
(47) 20.04.2022	(54) METHOD FOR CONTROLLING A METERING INSTALLATION	G01F 1/84
(22) 04.12.2017	(73) ABB France	(11) EP3649446
(54) TRANSDUCER ASSEMBLY FOR ULTRASONIC FLOW METER	(72) RENAUD, Philippe	(21) EP18732751.5
	(51) G01F 22/00	

(47) 20.04.2022	(54) SOLID-STATE IMAGING ELEMENT,	H02K 11/25
(87) EP2018066254	IMAGING DEVICE, AND CONTROL	(11) EP3715806
10.01.2019	METHOD FOR SOLID-STATE IMAGING	(21) EP18928221.3
(22) 19.06.2018	ELEMENT	(47) 20.04.2022
(54) MONITORING THE STATE OF A COIL	(73) Sony Semiconductor Solutions	(87) JP2018028956
IN A SENSOR	Corporation	06.02.2020
(73) Endress+Hauser SE+Co. KG	(72) ZHU, Hongbo	(22) 02.08.2018
(72) KUHNEN, Raphael	TOCHIGI, Yasuhisa	(54) TEMPERATURE SENSING DEVICE
SANDOR, Izabella	TAKATSUKA, Takafumi	AND ASSEMBLY
WACKER, Ralf	(31) 2018017018	(73) Shibaura Electronics Co., Ltd.
(31) 102017115147	(32) 02.02.2018	(72) TAKEMURA, Michiru
(32) 06.07.2017	(33) Japan	KIRIHARA, Masanori
(33) Germany	(51) G01J 3/28	YOSHIHARA, Takamasa
(51) G01G 19/03	G01J 3/443	(51) G01K 15/00
H01M 50/609	(11) EP3144649	G01K 3/00
(11) EP3796421	(21) EP16185099.5	(11) EP3598092
(21) EP19863850.4	(47) 20.04.2022	(21) EP17900470.0
(47) 20.04.2022	(22) 22.08.2016	(47) 20.04.2022
(87) CN2019105653	(54) EXPLOSIVE SPARK ESTIMATION	(87) JP2017009898
26.03.2020	SYSTEM AND EXPLOSIVE SPARK	20.09.2018
(22) 12.09.2019	ESTIMATION METHOD	(22) 13.03.2017
(54) LIQUID INJECTION APPARATUS	(73) Kyushu Institute of Technology	(54) TEMPERATURE DETECTION CIRCUIT
(73) Contemporary Amperex Technology Co.,	Subaru Corporation	(73) Kabushiki Kaisha Toshiba
Limited	(72) NISHI, Takayuki	(72) SAEKI, Yosuke
(72) ZHANG, Zhiqiang	OHTSUKA, Shinya	TAKAHASHI, Jun
WANG, Zhihui	(31) 2015170339	NOZAWA, Ryo
ZENG, Xiaohui	(32) 31.08.2015	KURODA, Kazuto
(31) 201821521223 U	(33) Japan	SEKINO, Masahiro
(32) 18.09.2018	(51) G01J 3/453	(51) G01L 3/10
(33) China	G01J 3/28	(11) EP3617684
(51) G01G 19/393	G01J 3/02	(21) EP19194013.9
(11) EP3620759	(11) EP3760992	(47) 20.04.2022
(21) EP19177235.9	(21) EP20167242.5	(22) 28.08.2019
(47) 20.04.2022	(47) 20.04.2022	(54) SENSOR DEVICE
(22) 29.05.2019	(22) 31.03.2020	(73) JTEKT Corporation
(54) WEIGHING DEVICE	(54) METHOD AND FOURIER TRANSFORM	(72) TOYAMA, Yuichi
(73) ISHIDA CO., Ltd.	SPECTROMETER WITH DUAL	(31) 2018160664
(72) Konishi, Hiroe	BEAM INTERFEROMETER FOR	(32) 29.08.2018
(31) 2018165285	SINGLE-SHOT-IMAGING FOURIER	(33) Japan
(32) 04.09.2018	SPECTROSCOPY	(51) G01L 5/1627
(33) Japan	(73) Universität Stuttgart	B25J 9/00
(51) G01H 1/00	(72) HERKOMMER, Alois M.	B25J 13/08
G01M 13/028	KÖRNER, Klaus	G01L 1/22
G06N 3/04	(51) G01J 3/46	A61B 90/00
G06N 3/08	G01J 3/50	(11) EP3580540
G01H 1/12	G01N 21/27	(21) EP17826199.6
(11) EP3775801	G01N 21/84	(47) 20.04.2022
(21) EP18730283.1	G01N 33/52	(87) EP2017083320
(47) 20.04.2022	G01N 21/78	16.08.2018
(87) EP2018064236	G01N 21/80	(22) 18.12.2017
05.12.2019	(11) EP3114462	(54) SENSOR ARRANGEMENT FOR
(22) 30.05.2018	(21) EP15759155.3	FORCE OR TORQUE MEASUREMENT,
(54) METHOD AND APPARATUS FOR	(47) 20.04.2022	AND A METHOD FOR THE
DETECTING VIBRATIONAL AND/	(87) US2015019076	PRODUCTION THEREOF
OR ACOUSTIC TRANSFERS IN A	11.09.2015	(73) WITTENSTEIN SE
MECHANICAL SYSTEM	(22) 05.03.2015	(72) ALBRECHT, Walter
(73) Siemens Industry Software NV	(54) ANALYTE CONCENTRATION BY	MATICH, Sebastian
(72) DOS SANTOS, Fabio Marques	QUANTIFYING AND INTERPRETING	(31) 102017102343
MAS, Peter	COLOR	(32) 07.02.2017
(51) G01J 1/02	(73) Healthy.io Ltd.	(33) Germany
G01J 1/42	(72) BURG, Bernard	(51) G01L 5/22
H04N 5/3745	DE BROUWER, Walter	G06F 11/30
(11) EP3748316	ZIZI, Martin	H03K 17/975
(21) EP18903793.0	(31) 201461948536 P	G06F 3/0354
(47) 20.04.2022	(32) 05.03.2014	G01L 1/14
(87) JP2018046044	(33) United States of America	(11) EP3376195
08.08.2019	(51) G01K 1/143	(21) EP16899688.2
(22) 14.12.2018	G01K 1/16	(47) 20.04.2022

(87) CN2016099159 22.03.2018	(51) G01M 15/10 G01N 15/06	(22) 27.04.2015
(22) 17.09.2016	(11) EP2102623	(54) CLEANING METHOD FOR HEMATEIN PRECIPITATES IN AUTOSTAINERS
(54) PRESSURE DETECTION APPARATUS AND INTELLIGENT TERMINAL	(21) EP07865842.4 (47) 20.04.2022	(73) Ventana Medical Systems, Inc.
(73) Shenzhen Goodix Technology Co., Ltd.	(87) US2007088049 03.07.2008	(72) DURRANT, Edward
(72) FENG, Lin	(22) 19.12.2007	(31) 201461986386 P
JIANG, Hong	(54) SOLID PARTICLE COUNTING SYSTEM WITH VALVE TO ALLOW REDUCTION OF PRESSURE PULSE AT PARTICLE COUNTER WHEN VACUUM PUMP IS STARTED	(32) 30.04.2014
LUO, Zhongbo	(73) Horiba, Ltd.	(33) United States of America
(51) G01L 11/02 A61M 1/16 A61M 1/36 G01L 9/00 G01L 19/00 G01B 11/16	(72) RAHMAN, Montajir MD. PORTER, Scott T. ASANO, Ichiro KUSAKA, Takeshi WEI, Qiang	(51) G01N 1/36 G01N 1/31 B01L 3/00 (11) EP3540407 (21) EP19173100.9 (47) 20.04.2022 (22) 13.03.2014 (54) TISSUE CASSETTE WITH RETRACTABLE MEMBER
(11) EP3654006	(31) 614464	(73) Leica Biosystems Nussloch GmbH
(21) EP18831400.9	(32) 21.12.2006	(72) RYAN, Chris
(47) 20.04.2022	(33) United States of America	BAUWENS, Wilfred KOTLARSKI, Peter DIAS, Fernando SOHN, Ian BOEHL, Florian ROBERTSON, Graeme KNORR, Stella
(87) JP2018025493 17.01.2019	(51) G01N 1/22 (11) EP2667175 (21) EP13168604.0 (47) 20.04.2022 (22) 21.05.2013	(31) 201361799441 P (32) 15.03.2013 (33) United States of America
(22) 05.07.2018	(54) Exhaust Sampling System And Method For Water Vapor Management	(51) G01N 3/08 G01N 29/04 G01M 7/08 G01N 3/30 G01N 3/04
(54) PRESSURE SENSOR DEVICE AND EXTRACORPOREAL CIRCULATION APPARATUS	(73) AVL Test Systems, Inc.	(11) EP3521799 (21) EP19154674.6 (47) 20.04.2022 (22) 31.01.2019
(73) Terumo Kabushiki Kaisha	(72) Marek, Gerald Miller, Jr., Douglas Edward Silvis, William Martin Williamson, James	(54) TEST RESULT EVALUATING METHOD AND MATERIAL TESTER
(72) HISAMATSU, Kozo ITAMOCHI, Yosuke	(31) 201213478170 (32) 23.05.2012 (33) United States of America	(73) Shimadzu Corporation (72) MATSUURA, Tohru (31) 2018016576 (32) 01.02.2018 (33) Japan
(31) 2017134749	(51) G01N 1/30 B01L 3/00 B01L 9/00 B01L 7/00	(51) G01N 3/56 B21D 22/00 B21D 22/20 B21J 5/00
(32) 10.07.2017	(11) EP3651902 (21) EP18737287.5 (47) 20.04.2022 (87) EP2018068830 17.01.2019	(11) EP3489655 (21) EP17831033.0 (47) 20.04.2022 (87) JP2017026061 25.01.2018
(33) Japan	(22) 11.07.2018	(22) 19.07.2017
(51) G01L 21/30 (11) EP3227654 (21) EP16701716.9 (47) 20.04.2022	(54) METHODS OF IN SITU ANTIGEN RETRIEVAL OF A BIOLOGICAL SAMPLE&IMAGING THEREOF	(54) ABRASION TEST APPARATUS
(87) US2016013219 21.07.2016	(73) Lunaphore Technologies SA	(73) Hitachi Metals, Ltd.
(22) 13.01.2016	(72) CIFTLIK, Ata Tuna AMMANN, Marco COMINO, Marta DUPOUY, Diego, Gabriel CAPPI, Giulia	(72) HONDA, Fumiaki OBATA, Katsuhiro FURUYA, Tadashi MAKIYAMA, Takahiro KOSEKI, Shuho KOBAYASHI, Yoshihiko
(54) POLYMER COMPOSITE VACUUM COMPONENTS	(31) 17180896 (32) 12.07.2017 (33) European Patent Office (EPO)	(31) 2016143229 (32) 21.07.2016 (33) Japan
(73) MKS Instruments, Inc.	(51) G01N 1/30 G01N 1/31 B01L 3/00 G01N 35/10	(51) G01N 15/02 G01N 35/08
(72) PIWONKA-CORLE, Timothy, R. PERCY, Clinton, L. BRUCKER, Gerardo, A. KELLY, Brandon, J. HEINBUCH, Scott, C. SWINNEY, Timothy, C.	(11) EP3137215 (21) EP15720937.0 (47) 20.04.2022 (87) EP2015059075 05.11.2015	
(31) 201562191140 P 201562103968 P		
(32) 10.07.2015 15.01.2015		
(33) United States of America United States of America		
(51) G01M 3/38 G01N 21/3504 G01N 21/359 G01N 33/00		
(11) EP3229005		
(21) EP15864574.7		
(47) 20.04.2022		
(87) JP2015083681 09.06.2016		
(22) 01.12.2015		
(54) OPTICAL DETECTION DEVICE		
(73) Konica Minolta, Inc.		
(72) MORIMOTO, Takashi		
(31) 2014243319		
(32) 01.12.2014		
(33) Japan		

C12Q 1/02	(31) 201018418	G01N 21/59
C12Q 1/68	(32) 01.11.2010	(11) EP3227667
G01N 33/487	(33) United Kingdom	(21) EP15864837.8
(11) EP2764347	(51) G01N 21/552	(47) 20.04.2022
(21) EP12837906.2	G01N 29/24	(87) KR2015009819
(47) 20.04.2022	G01N 23/225	09.06.2016
(87) US2012059088	(11) EP3308145	(22) 18.09.2015
11.04.2013	(21) EP16808348.3	(54) TEST APPARATUS AND CONTROL
(22) 05.10.2012	(47) 20.04.2022	METHOD THEREOF
(54) DEVICES FOR DETECTING A	(87) US2016036834	(73) Samsung Electronics Co., Ltd.
PARTICLE IN A SAMPLE AND	15.12.2016	(72) YEO, Yeong Bae
METHODS FOR USE THEREOF	(22) 10.06.2016	(31) 20140173205
(73) The Regents of the University of	(54) METHOD FOR DETECTION OF	(32) 04.12.2014
California	CHEMICAL AND BIOLOGICAL AGENTS	(33) Korea (Republic)
(72) SOHN, Lydia Lee	BY SURFACE PLASMON RESONANCE	(51) G01N 23/087
CHAPMAN, Matthew Rowe	(73) LacriSciences, LLC	G01N 23/04
BALAKRISHNAN, Karthik	(72) GAVARIS, Paul T.	G01N 23/18
ANWAR, George	SARKAR, Diptabhas	(11) EP2820400
(31) 201161544232 P	CAPPO, Anthony, P.	(21) EP13754165.2
(32) 06.10.2011	GHOVANLOU, Ali H.	(47) 20.04.2022
(33) United States of America	GEDDES, Chris D.	(87) US2013027585
(51) G01N 15/06	(31) 201562175034 P	06.09.2013
(11) EP3391024	(32) 12.06.2015	(22) 25.02.2013
(21) EP16809356.5	(33) United States of America	(54) METHOD OF DETECTING MATERIAL
(47) 20.04.2022	(51) G01N 21/64	IN A PART
(87) EP2016080094	G01J 1/02	(73) Raytheon Technologies Corporation
22.06.2017	H01L 27/146	(72) SMITH, Kevin D.
(22) 07.12.2016	G01N 21/05	UMBACH, Jeffrey A.
(54) ELECTROSTATIC SOOT SENSOR	(11) EP3505914	(31) 201213408346
(73) Vitesco Technologies GmbH	(21) EP18213239.9	(32) 29.02.2012
(72) ZHANG, Hong	(47) 20.04.2022	(33) United States of America
(31) 102015225745	(22) 17.12.2018	(51) G01N 25/18
(32) 17.12.2015	(54) IMAGE SENSOR STRUCTURE,	(11) EP3299803
(33) Germany	METHOD OF FORMING SUCH AN	(21) EP17187386.2
(51) G01N 15/14	IMAGE SENSOR STRUCTURE AND	(47) 20.04.2022
C12Q 1/04	USE OF SUCH AN IMAGE SENSOR	(22) 23.08.2017
G01N 15/00	STRUCTURE IN A BIOLOGICAL ASSAY	(54) METHOD FOR CALIBRATING THE
(11) EP3717889	(73) Illumina, Inc.	TEMPERATURE CONTROL IN
(21) EP18839702.0	(72) CAI, Xiyu	THERMAL ANALYSIS OF SAMPLES
(47) 20.04.2022	DEHLINGER, Dietrich	(73) Netzsch-Gerätebau GmbH
(87) IB2018059284	AGAH, Ali	(72) LINDEMANN, André
31.05.2019	FUNG, Tracy	BRUNNER, Martin
(22) 26.11.2018	(31) 2020615	(31) 102016117754
(54) DEVICE FOR SORTING BIOLOGICAL	201762610354 P	(32) 21.09.2016
ENTITIES	(32) 19.03.2018	(33) Germany
(73) Ecole Polytechnique Federale de	26.12.2017	(51) G01N 25/72
Lausanne (EPFL)	(33) Netherlands	G06T 7/00
(72) BONNET, Frank	United States of America	(11) EP3179241
MONDADA, Francesco	(51) G01N 21/76	(21) EP16200490.7
CROT, Norbert	(11) EP3479103	(47) 20.04.2022
(31) PCT/IB2017/057415	(21) EP17820918.5	(22) 24.11.2016
(32) 27.11.2017	(47) 20.04.2022	(54) DETECTING INCLUSIONS AND
(33) World Intellectual Property Office (WIPO)	(87) US2017038072	DISBONDS IN GREEN MATERIAL
(51) G01N 21/3504	04.01.2018	REPAIRS WITH THERMOGRAPHY
G01N 33/00	(22) 19.06.2017	(73) The Boeing Company
G01N 21/27	(54) METHODS FOR THE RAPID	(72) HOLMES, Tyler M.
(11) EP2635893	PREPARATION OF LABELED	GEORGESON, Gary E.
(21) EP11791615.5	GLYCOSYLAMINES FROM COMPLEX	Thompson, Jeffrey G.
(47) 20.04.2022	MATRICES USING MOLECULAR	(31) 201514961494
(87) GB2011052110	WEIGHT CUT OFF FILTRATION AND	(32) 07.12.2015
10.05.2012	ON-FILTER DEGLYCOSYLATION	(33) United States of America
(22) 28.10.2011	(73) Waters Technologies Corporation	(51) G01N 27/02
(54) TEMPERATURE CALIBRATION	(72) LAUBER, Mathew, A.	(11) EP3194944
METHOD AND OPTICAL ABSORPTION	(31) 201662357552 P	(21) EP15770594.8
GAS SENSOR THEREBY CALIBRATED	(32) 01.07.2016	(47) 20.04.2022
(73) Gas Sensing Solutions Ltd	(33) United States of America	(87) GB2015052671
(72) GIBSON, Desmond Robert	(51) G01N 21/78	24.03.2016
MACGREGOR, Calum John	G01N 21/27	(22) 15.09.2015

(54) TOMOGRAPHY APPARATUS	(54) METHOD FOR PRODUCING A FLEXIBLE ULTRASONIC TRANSDUCER ASSEMBLY	(72) HO, Louie
(73) University Of Leeds	(73) National Research Council of Canada	MILESKI, William, Julian
(72) WANG, Qiang	(72) KRUGER, Silvio, E.	REARICK, Todd
KARKI, Bishal	(31) 410473 P	NOBILE, John
WANG, Mi	(32) 05.11.2010	JORDAN, Jeremy
(31) 201416280	(33) United States of America	(31) 376185 P
(32) 15.09.2014		(32) 23.08.2010
(33) United Kingdom		(33) United States of America
(51) G01N 27/02	(51) G01N 30/08	(51) G01N 33/28
G01N 33/66	G01N 30/60	G01N 1/22
(11) EP3454054	G01N 1/40	(11) EP3433608
(21) EP18191985.3	B01D 11/04	(21) EP17717018.0
(47) 20.04.2022	B01L 3/02	(47) 20.04.2022
(22) 29.02.2008	G01N 1/34	(87) US2017022681
(54) SYSTEM AND METHOD FOR OPERATING AN ELECTROCHEMICAL ANALYTE SENSOR	(11) EP2939018	28.09.2017
(73) F. Hoffmann-La Roche AG	(21) EP13868181.2	(22) 16.03.2017
(72) Harvey B. Buck, Jr.	(47) 20.04.2022	(54) GAS EXTRACTION CALIBRATION SYSTEM AND METHODS
(31) 680963	(87) AU2013001526	(73) Excellence Logging France
(32) 01.03.2007	03.07.2014	(72) BRUMBOIU, Aurel
(33) United States of America	(22) 24.12.2013	PICKELL, Mark D.
(51) G01N 27/08	(54) SYRINGE ASSEMBLY	OVEDHE, Wilfred
G01N 27/22	(73) Eprep Pty Ltd.	LAW, Douglas J.
G01N 33/28	(72) CERRA, Reno	(31) 201615076505
G01N 33/22	DAWES, Ernest Frederick	(32) 21.03.2016
(11) EP2689242	MINETT, Andrew	(33) United States of America
(21) EP12722511.8	DAWES, Peter Alexander	(51) G01N 33/49
(47) 20.04.2022	(31) 2013904489	G01N 33/50
(87) IB2012051408	2013900284	(11) EP3821241
27.09.2012	2012905688	(21) EP19737113.1
(22) 23.03.2012	(32) 20.11.2013	(47) 20.04.2022
(54) FLUIDS DETECTION SENSOR AND RAIL, IN PARTICULAR FOR AUTOMOTIVE FUELS	30.01.2013	(87) EP2019068626
(73) ELTEK S.p.A.	31.12.2012	16.01.2020
(72) RONDANO, Matteo	(33) Australia	(22) 10.07.2019
WAGNER MAIN, Luiz	Australia	(54) METHOD AND DEVICE FOR DETERMINING RED BLOOD CELLS DEFORMABILITY
ZORZETTO, Mauro	Australia	(73) Institut National de la Santé et de la Recherche Médicale (INSERM)
(31) TO20110258	(51) G01N 30/88	Centre National de la Recherche Scientifique
(32) 24.03.2011	G01N 30/06	Assistance Publique - Hôpitaux de Marseille
(33) Italy	G01N 30/26	Aix-Marseille Université
(51) G01N 27/16	G01N 30/86	(72) ATWELL, Scott
G01N 33/00	(11) EP3054295	BADENS, Catherine
(11) EP3431976	(21) EP14849036.0	CHARRIER, Anne
(21) EP18184917.5	(47) 20.04.2022	VIALLAT, Annie
(47) 20.04.2022	(87) JP2014075718	HELPER, Emmanuèle
(22) 23.07.2018	02.04.2015	(31) 18305914
(54) GAS DETECTOR COMPRISING SILOXANE REMOVAL FILTER	(22) 26.09.2014	(32) 10.07.2018
(73) Riken Keiki Co., Ltd.	(54) METHOD FOR DETECTING AND DETERMINING QUANTITY OF GALACTO-OLIGOSACCHARIDES	(33) European Patent Office (EPO)
(72) Tanaka, Yuki	(73) Kabushiki Kaisha Yakult Honsha	(51) G01N 33/53
Ono, Kei	(72) MIZUKOSHI, Harumi	A61M 1/34
Shibasaki, Yoshikazu	KIMURA, Kazumasa	A61M 1/36
Asada, Ryuji	(31) 2013205503	(11) EP3685165
(31) 2017141768	(32) 30.09.2013	(21) EP18773736.6
(32) 21.07.2017	(33) Japan	(47) 20.04.2022
(33) Japan	(51) G01N 31/20	(87) EP2018075014
(51) G01N 29/28	B01L 7/00	21.03.2019
G01N 29/22	G05D 23/19	(22) 17.09.2018
G01N 29/24	G01N 27/414	(54) METHOD AND DEVICE FOR PURIFICATION OF BLOOD FROM CIRCULATING CELL FREE DNA
(11) EP2635901	B01L 3/00	(73) Santerus AG
(21) EP11874860.7	(11) EP2609476	(72) SURKOV, Kirill
(47) 20.04.2022	(21) EP11820540.0	(31) 201762559822 P
(87) CA2011001234	(47) 20.04.2022	(32) 18.09.2017
10.05.2013	(87) US2011048840	
(22) 07.11.2011	01.03.2012	
	(22) 23.08.2011	
	(54) TEMPERATURE CONTROL OF CHEMICAL DETECTION SYSTEM	
	(73) Life Technologies Corporation	

(33) United States of America	(22) 17.06.2016	FLORHOLMEN, Jon
(51) G01N 33/543	(54) METHODS AND COMPOSITIONS	CUI, Guanglin
(11) EP3714269	FOR DIAGNOSIS AND PROGNOSIS	GOLL, Rasmus
(21) EP18836233.9	OF APPENDICITIS AND	RISMO, Renathe
(47) 20.04.2022	DIFFERENTIATION OF CAUSES OF	(31) 201223223
(87) EP2018085880	ABDOMINAL PAIN	(32) 21.12.2012
04.07.2019	(73) Astute Medical, Inc.	(33) United Kingdom
(22) 19.12.2018	Children's Medical Center Corporation	(51) G01N 33/68
(54) A MICROCAPSULE FOR DETECTING	(72) KAMPF, James Patrick	G01N 33/92
AND/OR QUANTITATING AN ANALYTE	KWAN, Thomas	(11) EP3256860
IN A SAMPLE	BACHUR, Richard	(21) EP16749993.8
(73) Blink AG	STEEN, Hanno	(47) 20.04.2022
(72) LONCAREVIC, Ivan	McPHERSON, Paul	(87) US2016017822
STEINMETZER, Katrin	(31) 201562181055 P	18.08.2016
ELLINGER, Thomas	(32) 17.06.2015	(22) 12.02.2016
HUBOLD, Stephan	(33) United States of America	(54) METHODS AND COMPOSITIONS FOR
SCHULZ, Torsten	(51) G01N 33/574	IDENTIFYING NON-ALCOHOLIC FATTY
ERMANTRAUT, Eugen	(11) EP3100046	LIVER DISEASE
LEMUTH, Oliver	(21) EP15740999.6	(73) The Regents of the University of
KANITZ, Lea	(47) 20.04.2022	California
(31) 17211031	(87) US2015012957	(72) LOOMBA, Rohit
(32) 29.12.2017	30.07.2015	DENNIS, Edward, A.
(33) European Patent Office (EPO)	(22) 26.01.2015	QUEHENBERGER, Oswald
(51) G01N 33/566	(54) DETECTION OF PROSTATE SPECIFIC	(31) 201562116108 P
G01N 33/543	MEMBRANE ANTIGEN (PSMA)	(32) 13.02.2015
G01N 27/327	EXPRESSION ON CIRCULATING	(33) United States of America
G01N 33/68	TUMOR CELLS (CTC)	(51) G01N 33/92
(11) EP3191844	(73) Epic Sciences, Inc.	C07B 59/00
(21) EP15839945.1	(72) DITAMORE, Ryan	A61K 31/164
(47) 20.04.2022	(31) 201461933771 P	(11) EP3155440
(87) IB2015056619	201461932117 P	(21) EP15733650.4
17.03.2016	(32) 30.01.2014	(47) 20.04.2022
(22) 01.09.2015	27.01.2014	(87) EP2015063492
(54) ELECTROCHEMICAL BIOSENSOR	(33) United States of America	23.12.2015
AND A METHOD OF SENSING	United States of America	(22) 16.06.2015
ALBUMIN AND ITS COMPLEXES	(51) G01N 33/574	(54) CERAMIDES AND THEIR USE IN
(73) Indian Institute Of Science	G01N 33/68	DIAGNOSING CVD
(72) BHAT, Navakanta	(11) EP3746789	(73) Zora Biosciences OY
KUMAR, Vinay	(21) EP19701524.1	(72) LAAKSONEN, Reijo
(31) 4377CH2014	(47) 20.04.2022	(31) 201514677595
(32) 08.09.2014	(87) EP2019051889	201462012543 P
(33) India	01.08.2019	(32) 02.04.2015
(51) G01N 33/569	(22) 25.01.2019	16.06.2014
(11) EP3504553	(54) SCREENING METHOD FOR THE	(33) United States of America
(21) EP17838930.0	IDENTIFICATION OF CANCER	United States of America
(47) 20.04.2022	THERAPEUTICS	(51) G01N 35/00
(87) IL2017050886	(73) Deutsches Krebsforschungszentrum,	B01L 3/00
15.02.2018	Stiftung des öffentlichen Rechts	G02B 21/34
(22) 10.08.2017	(72) PHILLIPS, Emma	G01N 1/31
(54) SYSTEM AND METHOD FOR	ROSENSTIEL-GOIDS, Violaine	G01N 35/04
ANALYSIS OF BIOLOGICAL DATA	BETHKE, Frederic	(11) EP3715856
(73) Memed Diagnostics Ltd.	BALSS, Jörg	(21) EP19187543.4
(72) COHEN-DOTAN, Assaf	(31) 18153933	(47) 20.04.2022
NAVON, Roy	(32) 29.01.2018	(22) 22.07.2019
EDEN, Eran	(33) European Patent Office (EPO)	(54) APPARATUS FOR SENSING A
KRONENFELD, Gali	(51) G01N 33/68	SPECIMEN SLIDE AND RELATED
BOICO, Olga	G01N 33/50	METHOD
OVED, Kfir	(11) EP2936162	(73) Sakura Finetek U.S.A., Inc.
(31) 201662372820 P	(21) EP13818771.1	(72) VON BUEREN, Erico
(32) 10.08.2016	(47) 20.04.2022	VON BUEREN, Niccolo
(33) United States of America	(87) GB2013053418	BUI, Xuan S.
(51) G01N 33/573	26.06.2014	(31) 201916370879
G01N 33/53	(22) 23.12.2013	(32) 29.03.2019
(11) EP3311164	(54) BIOMARKERS IN INFLAMMATORY	(33) United States of America
(21) EP16812578.9	BOWEL DISEASE	(51) G01N 35/00
(47) 20.04.2022	(73) Universitetet i Tromsø - Norges Arktiske	G01N 21/64
(87) US2016038225	Universitet	(11) EP2542900
22.12.2016	(72) OLSEN, Trine	(21) EP11713872.7

(47) 20.04.2022	(51) G01N 35/02	AKIYAMA, Shoji
(87) IB2011050808	B01L 7/00	ITO, Tatsumi
09.09.2011	B01L 7/02	(31) 2010043968
(22) 25.02.2011	G01N 35/04	(32) 01.03.2010
(54) APPARATUS AND METHOD FOR	G01N 35/00	(33) Japan
DETECTING AND MEASURING	(11) EP2600156	(51) G01R 1/04
BIOMOLECULAR INTERACTIONS	(21) EP11811974.2	G01R 1/22
(73) Ecole Polytechnique Fédérale de	(47) 20.04.2022	G01R 15/12
Lausanne (EPFL)	(87) JP2011003324	G01R 15/14
(72) LASSER, Theo	02.02.2012	G01R 15/16
DURAND, Nicolas	(22) 13.06.2011	(11) EP3567380
MÄRKI, Iwan	(54) NUCLEIC ACID ANALYSIS DEVICE	(21) EP19173634.7
(31) PCT/IB2010/050867	(73) Hitachi High-Tech Corporation	(47) 20.04.2022
(32) 01.03.2010	(72) ISHIZAWA, Masato	(22) 09.05.2019
(33) World Intellectual Property Office (WIPO)	SHOJI, Yoshiyuki	(54) NON-CONTACT DC VOLTAGE
(51) G01N 35/00	(31) 2010168770	MEASUREMENT DEVICE WITH
G01N 35/04	(32) 28.07.2010	OSCILLATING SENSOR
(11) EP3312613	(33) Japan	(73) Fluke Corporation
(21) EP16811394.2	(51) G01N 35/04	(72) STEUER, Ronald
(47) 20.04.2022	(11) EP3690447	RODRIGUEZ, Ricardo
(87) JP2016065375	(21) EP18850747.9	(31) 201815977662
22.12.2016	(47) 20.04.2022	(32) 11.05.2018
(22) 25.05.2016	(87) JP2018031120	(33) United States of America
(54) AUTOMATIC ANALYZING DEVICE	07.03.2019	(51) G01R 15/20
(73) Hitachi High-Tech Corporation	(22) 23.08.2018	H01L 43/02
(72) FUJITA, Hiroki	(54) CONNECTION MODULE AND	(11) EP3324195
HAGIWARA, Takaaki	METHODS FOR AVOIDING	(21) EP17191433.6
SUZUKI, Toshiharu	INTERFERENCE	(47) 20.04.2022
(31) 2015123416	(73) Hitachi High-Tech Corporation	(22) 15.09.2017
(32) 19.06.2015	(72) MORI, Takamichi	(54) ELECTRONIC COMPONENT
(33) Japan	FUKUSHI, Yudai	(73) AISIN SEIKI KABUSHIKI KAISHA
(51) G01N 35/00	(31) 2017168438	(72) FUJITA, Noriaki
G01N 35/04	(32) 01.09.2017	MITSUBAYASHI, Noriaki
G05D 1/02	(33) Japan	(31) 2016216374
(11) EP2856150	(51) G01N 35/04	(32) 04.11.2016
(21) EP13794585.3	G01N 35/02	(33) Japan
(47) 20.04.2022	G01N 35/00	(51) G01R 19/165
(87) US2013042022	(11) EP3355063	G01R 23/165
28.11.2013	(21) EP16848430.1	G01R 31/42
(22) 21.05.2013	(47) 20.04.2022	G01R 31/317
(54) Automatic analyser comprising self-	(87) JP2016074238	G05F 1/10
propelled intelligent carriers	30.03.2017	(11) EP3329287
(73) Siemens Healthcare Diagnostics Inc.	(22) 19.08.2016	(21) EP15899844.3
(72) MELLARS, Colin	(54) SPECIMEN INSPECTION	(47) 20.04.2022
POLLACK, Benjamin Samuel	AUTOMATION SYSTEM	(87) US2015042593
YAGCI, Baris	(73) Hitachi High-Tech Corporation	02.02.2017
(31) 201261651296 P	(72) YAMAGUCHI, Shigeki	(22) 29.07.2015
(32) 24.05.2012	YAMAGATA, Toshiki	(54) HIGH FREQUENCY VOLTAGE SUPPLY
(33) United States of America	YANO, Shigeru	MONITOR
(51) G01N 35/00	IHARA, Hiroki	(73) Ampere Computing LLC
G01N 35/10	(31) 2015188480	(72) HARVARD, Qawi
G01N 1/00	(32) 25.09.2015	PARTOVI, Hamid
G01N 35/04	(33) Japan	RAVEZZI, Luca
(11) EP3374773	(51) G01N 35/08	(51) G01R 19/25
(21) EP16809974.5	C12M 1/00	G01R 21/133
(47) 20.04.2022	G01N 15/14	G01R 23/16
(87) FR2016052911	G01N 37/00	G01R 15/18
18.05.2017	(11) EP2542901	G01R 15/14
(22) 09.11.2016	(21) EP11750320.1	G01R 21/00
(54) DEVICE FOR AGITATING AND	(47) 20.04.2022	G01R 21/06
COLLECTING LIQUID SAMPLES	(87) JP2011000902	(11) EP3486665
(73) Horiba ABX SAS	09.09.2011	(21) EP18206205.9
(72) BEAUDUCEL, Florent	(22) 18.02.2011	(47) 20.04.2022
BENEZETH, Philippe	(54) MICROCHIP AND PARTICULATE	(22) 14.11.2018
ANDLAUER, Sylvain	ANALYZING DEVICE	(54) REMOTE MEASUREMENT OF
(31) 1560889	(73) Sony Group Corporation	ELECTRICAL ACTIVE POWER
(32) 13.11.2015	(72) KAKUTA, Masaya	(73) Myenergi Ltd
(33) France	YAMASAKI, Takeshi	(72) SUTTON, Lee Robert

RICHARD, Robin	(87) US2016020108	(32) 29.09.2014
(31) 201718943	01.09.2016	(33) France
(32) 16.11.2017	(22) 29.02.2016	(51) G01R 31/52
(33) United Kingdom	(54) LOCALIZATION, MAPPING AND	G01R 31/68
(51) G01R 31/08	HAPTIC FEEDBACK FOR INSPECTION	G01R 31/54
H02H 7/26	OF A CONFINED SPACE IN	H02H 1/00
H02J 3/00	MACHINERY	(11) EP3367112
H02J 13/00	(73) ABB Schweiz AG	(21) EP17157987.3
H02J 3/38	(72) HTAIK, Than	(47) 20.04.2022
(11) EP3605776	CHOI, Sangeun	(22) 24.02.2017
(21) EP18306032.6	FUHLBRIGGE, Thomas A.	(54) MONITORING DEVICE AND
(47) 20.04.2022	ZHANG, George Q.	METHOD OF MONITORING A MAINS
(22) 31.07.2018	PENZA, Gregory	CONNECTION OF AN ELECTRONIC
(54) METHOD FOR LOCATING PHASE	KODADEK, Robert	DEVICE
FAULTS IN A MICROGRID	EAKINS, William John	(73) Vestel Elektronik Sanayi ve Ticaret A.S.
(73) Schneider Electric Industries SAS	LAKHANI, Hetal V.	(72) ÖZKÜCÜK, Serhat
(72) ALIBERT, Philippe	ROSSANO, Gregory F.	ÖZEN, Erol
IGNATOVA, Vanya	(31) 201562121536 P	(51) G01R 31/62
(51) G01R 31/28	(32) 27.02.2015	(11) EP3391063
G01R 35/00	(33) United States of America	(21) EP16810376.0
(11) EP3686616	(51) G01R 31/36	(47) 20.04.2022
(21) EP18925049.1	G06K 9/00	(87) EP2016080971
(47) 20.04.2022	(11) EP3362809	22.06.2017
(87) CN2018125285	(21) EP16713149.9	(22) 14.12.2016
04.06.2020	(47) 20.04.2022	(54) MOBILE TRANSFORMER TEST
(22) 29.12.2018	(87) US2016018462	DEVICE AND METHOD FOR TESTING
(54) NEW ON-CHIP S PARAMETER	20.04.2017	A POWER TRANSFORMER
CALIBRATION METHOD	(22) 18.02.2016	(73) Omicron electronics GmbH
(73) The 13th Research Institute Of	(54) BATTERY TEST SYSTEM FOR	(72) ENGELEN, Christoph
China Electronics Technology Group	PREDICTING BATTERY TEST	KLAPPER, Ulrich
Corporation	RESULTS	FLAX, Dirk
(72) WU, Aihua	(73) CPS Technology Holdings LLC	KUKUK, Matthias
TIAN, Xiuwei	(72) ALIYEV, Timur L.	(31) 510822015
CAO, Jian	MARTINEZ, Diego H.D.	(32) 18.12.2015
LIU, Chen	JIN, Zhihong H.	(33) Austria
FU, Xingchang	(31) 201514884585	(51) G01R 31/68
LI, Chong	(32) 15.10.2015	G01R 31/00
WANG, Yibang	(33) United States of America	(11) EP3529625
LIANG, Faguo	(51) G01R 31/3835	(21) EP17863111.5
LIU, Yanan	G01R 31/389	(47) 20.04.2022
(31) 201811469568	(11) EP3862767	(87) US2017057141
(32) 27.11.2018	(21) EP21155209.6	26.04.2018
(33) China	(47) 20.04.2022	(22) 18.10.2017
(51) G01R 31/34	(22) 04.02.2021	(54) METHOD AND APPARATUS FOR
(11) EP3807662	(54) VOLTAGE DETECTION DEVICE	PREDICTING LIFE CYCLE OF A
(21) EP19706516.2	(73) Yazaki Corporation	SPLICE
(47) 20.04.2022	(72) OONISHI, Saki	(73) Smartkable, LLC
(87) EP2019053916	WANG, Jian	(72) MUEHLEMANN, Michael
19.12.2019	FUJII, Hironao	HIRSH, Douglas S.
(22) 18.02.2019	(31) 2020020384	(31) 201615297460
(54) METHOD AND APPARATUS FOR	(32) 10.02.2020	(32) 19.10.2016
MONITORING THE WEAR OF A LONG-	(33) Japan	(33) United States of America
STATOR LINEAR MOTOR SYSTEM	(51) G01R 31/50	(51) G01R 33/07
(73) Kronos AG	G01R 19/25	(11) EP2966462
(72) ELSPERGER, Stefan	G01R 19/04	(21) EP14176835.8
KIENDL, Thomas	G01R 19/155	(47) 20.04.2022
DAVIDSON, Hartmut	G01R 19/30	(22) 11.07.2014
(31) 102018209723	(11) EP3001206	(54) Vertical hall device
(32) 15.06.2018	(21) EP15187229.8	(73) Senis AG
(33) Germany	(47) 20.04.2022	(72) Popovic, Radivoje
(51) G01R 31/34	(22) 28.09.2015	Dimitrijevic, Sasa
B62D 55/02	(54) METHOD FOR ESTIMATING A	(51) G01R 33/24
B62D 55/065	VOLTAGE AND DEVICE ENABLING	G01R 33/56
H02K 15/00	SUCH AN ESTIMATION	G01R 33/3875
B62D 57/024	(73) Schneider Electric Industries SAS	G01R 33/46
(11) EP3262429	(72) MECREANT, Julien	(11) EP3410141
(21) EP16756550.6	DROUERE, Bernard	(21) EP18175145.4
(47) 20.04.2022	(31) 1459196	

(47) 20.04.2022	(31) 201562268100 P	H04W 64/00
(22) 30.05.2018	(32) 16.12.2015	(11) EP3058386
(54) NMR MEASUREMENT APPARATUS AND MAGNETIC FIELD MAP CALCULATION METHOD	(33) United States of America	(21) EP14793936.7
(73) JEOL Ltd.	(51) G01R 33/383	(47) 20.04.2022
(72) NISHIHAGI, Naoki	G01N 24/08	(87) US2014060542
(31) 2017109776	G01V 3/14	23.04.2015
(32) 02.06.2017	G01R 33/44	(22) 14.10.2014
(33) Japan	G01R 33/3875	(54) METHOD AND APPARATUS FOR DETECTING LOCATION CHANGES AND MONITORING ASSISTANCE DATA VIA SCANNING
(51) G01R 33/26	(11) EP3329304	(73) Qualcomm Incorporated
(11) EP3771917	(21) EP16741808.6	(72) DAS, Saumitra Mohan
(21) EP20183221.9	(47) 20.04.2022	MOHAMMAD-MIRZAEI, Faraz
(47) 20.04.2022	(87) US2016042429	SRIDHARA, Vinay
(22) 30.06.2020	02.02.2017	(31) 201314054602
(54) MAGNETOMETER WITH OPTICAL PUMPING	(22) 15.07.2016	(32) 15.10.2013
(73) Commissariat à l'énergie atomique et aux énergies alternatives	(54) A MODIFIED HALBACH NMR ARRAY SENSOR FOR ANALYZING CORE OR FLUID SAMPLES FROM A SUBSURFACE FORMATION	(33) United States of America
(72) GARCES MALONDA, Rafael	(73) Chevron U.S.A. Inc.	(51) G01S 7/00
GIDON, Serge	(72) SELTZER, Scott Jeffrey	G01S 13/93
PALACIOS LALOY, Agustin	SUN, Boqin	G01S 13/86
(31) 1908624	WANG, Haijing	G01S 7/40
(32) 29.07.2019	(31) 201514811906	G01S 5/00
(33) France	(32) 29.07.2015	G08G 1/16
(51) G01R 33/32	(33) United States of America	H04L 29/06
G01N 24/10	(51) G01R 33/483	H04W 12/06
G01R 33/12	G01R 33/561	H04L 29/08
G01Q 60/52	G01R 33/54	(11) EP3165940
G01Q 70/14	G01R 33/30	(21) EP15193066.6
G01R 33/035	G01R 33/50	(47) 20.04.2022
G01R 33/10	G01R 33/48	(22) 04.11.2015
G01R 29/08	(11) EP3224643	(54) EMBEDDED COMMUNICATION AUTHENTICATION
G01Q 20/04	(21) EP15788008.9	(73) NXP B.V.
(11) EP3596483	(47) 20.04.2022	(72) Siemens, Jörg Andreas
(21) EP18709616.9	(87) EP2015075194	(51) G01S 7/02
(47) 20.04.2022	19.05.2016	G01S 13/04
(87) EP2018056327	(22) 30.10.2015	G08B 13/26
20.09.2018	(54) MAGNETIC RESONANCE FINGERPRINTING IN SLICES PERPENDICULAR TO A PREDETERMINED DIRECTION	G08B 13/24
(22) 14.03.2018	(73) Koninklijke Philips N.V.	(11) EP3598166
(54) SCANNING SENSOR COMPRISING A SPIN DEFECT	(72) KEUPP, Jochen	(21) EP19185151.8
(73) ETH Zurich	KOKEN, Peter	(47) 20.04.2022
(72) DEGEN, Christian	AMTHOR, Thomas Erik	(22) 09.07.2019
CHANG, Kevin	BOERNERT, Peter	(54) RADAR FOR INTRUSION DETECTION COMPRISING A SHIELDING ELEMENT
BOSS, Jens	DONEVA, Mariya Ivanova	(73) Inxpect S.p.A.
RHENSIUS, Jan	(31) 14193155	(72) Degani, Alessio
(31) 17161281	(32) 14.11.2014	(31) 201800007195
(32) 16.03.2017	(33) European Patent Office (EPO)	(32) 13.07.2018
(33) European Patent Office (EPO)	(51) G01S 5/02	(33) Italy
(51) G01R 33/36	H04W 4/02	(51) G01S 7/03
H04W 56/00	G01S 11/06	G01S 13/931
(11) EP3391068	(11) EP3293538	H01Q 1/32
(21) EP16822744.5	(21) EP17185723.8	H01Q 21/06
(47) 20.04.2022	(47) 20.04.2022	(11) EP3199976
(87) IB2016057520	(22) 10.08.2017	(21) EP16153265.0
22.06.2017	(54) APPARATUS, SYSTEM AND METHOD FOR POSITIONING A COMMUNICATION DEVICE	(47) 20.04.2022
(22) 12.12.2016	(73) Toshiba TEC Kabushiki Kaisha	(22) 29.01.2016
(54) SYSTEMS AND METHODS FOR SYNCHRONISING WIRELESS COMMUNICATION FOR MAGNETIC RESONANCE IMAGING (MRI) SYSTEMS	(72) FUJIWARA, Akihiko	(54) PLANAR RADAR ANTENNA FOR AUTOMOTIVE MULTI-MODE AND MULTI-TARGET DETECTION
(73) Koninklijke Philips N.V.	HIRAMA, Mika	(73) DENSO CORPORATION
(72) ORTIZ, Timothy	(31) 2016161504	(72) ALENLJUNG, Klas
DUENSING, George Randall	(32) 19.08.2016	PERNSTÄL, Thomas
REDDER, Paul	(33) Japan	ABE, Yoshihiro
REYKOWSKI, Arne	(51) G01S 5/02	(51) G01S 7/40
	H04W 4/02	(11) EP3575821
		(21) EP19176756.5

- (47) 20.04.2022
(22) 27.05.2019
(54) METHOD AND DEVICE FOR GENERATING COMPLEX ELECTROMAGNETIC ENVIRONMENTS FOR ELECTROMAGNETIC SENSOR TEST BENCHES
(73) Thales
(72) MAGNE, Jean
CANET, Julien
BERNARDI, Pierre
(31) 1800535
(32) 31.05.2018
(33) France
(51) G01S 7/481
G01S 7/4863
G01S 7/4914
G01S 7/497
G01S 17/894
(11) EP3627178
(21) EP18195544.4
(47) 20.04.2022
(22) 19.09.2018
(54) SENSOR DEVICE, SENSOR MODULE, IMAGING SYSTEM AND METHOD TO OPERATE A SENSOR DEVICE
(73) ams AG
(72) Kappel, Robert
(51) G01S 7/481
G01S 17/931
(11) EP3579022
(21) EP19178416.4
(47) 20.04.2022
(22) 05.06.2019
(54) LASER RADAR FOR WORK VEHICLE
(73) Kubota Corporation
(72) KUROKI, Toshiaki
(31) 2018110538
(32) 08.06.2018
(33) Japan
(51) G01S 13/32
G01S 13/34
G01S 13/91
G01S 7/00
G01S 13/931
(11) EP3165944
(21) EP15193070.8
(47) 20.04.2022
(22) 04.11.2015
(54) EMBEDDED COMMUNICATION AUTHENTICATION
(73) NXP B.V.
(72) Siemes, Jörg Andreas
(51) G01S 13/34
G01S 13/524
G01S 13/58
G01S 7/292
G01S 7/40
(11) EP3479140
(21) EP17731764.1
(47) 20.04.2022
(87) US2017037106
04.01.2018
(22) 13.06.2017
(54) HIGH RANGE RESOLUTION RADAR PROFILING USING FREQUENCY JUMP BURST-PULSE-DOPPLER WAVEFORM AND PROCESSING
- (73) Raytheon Company
(72) MIERAS, Harry
PHAM, Thong
LOPRESTI, Anthony, E.
JEAN-LAURENT, Pierre
LAPAT, Ronald
(31) 201615200418
(32) 01.07.2016
(33) United States of America
(51) G01S 13/60
G01S 13/93
(11) EP3035077
(21) EP15198193.3
(47) 20.04.2022
(22) 07.12.2015
(54) RADAR APPARATUS AND RADAR STATE ESTIMATION METHOD
(73) Panasonic Intellectual Property Management Co., Ltd.
(72) HAMADA, Asako
SHIKATANI, Maiko
KISHIGAMI, Takaaki
NISHIMURA, Hirofumi
(31) 2014256374
(32) 18.12.2014
(33) Japan
(51) G01S 13/931
G01S 7/35
G01S 13/34
G01S 13/538
G01S 13/93
(11) EP3139194
(21) EP15183546.9
(47) 20.04.2022
(22) 02.09.2015
(54) A CLOSE RANGE FILTERING FMCW RADAR
(73) Veoneer Sweden AB
(72) Schwert, Christian
(51) G01S 13/931
G01S 7/40
G01S 7/03
(11) EP3505952
(21) EP18150105.7
(47) 20.04.2022
(22) 02.01.2018
(54) RADAR APPARATUS AND METHOD
(73) NXP USA, Inc.
(72) REUTER, Ralf
(51) G01S 13/931
G01S 13/72
(11) EP3422045
(21) EP17178908.4
(47) 20.04.2022
(22) 30.06.2017
(54) A SYSTEM FOR ENHANCED OBJECT TRACKING
(73) Veoneer Sweden AB
(72) Marsch, Sebastian
(51) G01S 17/00
(11) EP3714289
(21) EP18916625.9
(47) 20.04.2022
(87) CN2018085164
31.10.2019
(22) 28.04.2018
- (54) LIGHT DETECTION AND RANGING SENSORS WITH OPTICS AND SOLID-STATE DETECTORS, AND ASSOCIATED SYSTEMS AND METHODS
(73) SZ DJI Technology Co., Ltd.
(72) HUANG, Huai
ZHENG, Guoguang
LIU, Xiang
HONG, Xiaoping
WANG, Mingyu
(51) G01S 17/06
G01S 17/42
G01S 17/93
G01S 7/48
(11) EP3491417
(21) EP17729479.0
(47) 20.04.2022
(87) EP2017064405
01.02.2018
(22) 13.06.2017
(54) METHOD AND SYSTEM FOR DETECTING LANDMARKS IN A TRAFFIC ENVIRONMENT OF A MOBILE UNIT
(73) Volkswagen Aktiengesellschaft
(72) STESS, Marek
(31) 102016214027
(32) 29.07.2016
(33) Germany
(51) G01S 17/42
G01S 7/481
G02F 1/29
(11) EP3418774
(21) EP17201663.6
(47) 20.04.2022
(22) 14.11.2017
(54) BEAM STEERING APPARATUS, METHOD OF DRIVING THE BEAM STEERING APPARATUS, AND LIDAR SYSTEM INCLUDING THE BEAM STEERING APPARATUS
(73) Samsung Electronics Co., Ltd.
(72) JEONG, Byunggil
(31) 20170079215
(32) 22.06.2017
(33) Korea (Republic)
(51) G01S 19/43
G01S 19/41
G01S 19/53
A01G 25/09
A01G 25/16
B05B 3/00
(11) EP2456564
(21) EP10802861.4
(47) 20.04.2022
(87) US2010042770
27.01.2011
(22) 21.07.2010
(54) GNSS CONTROL SYSTEM AND METHOD FOR IRRIGATION AND RELATED APPLICATIONS
(73) Pollock, Colin J.
Burnell, Kirk
AgJunction LLC
(72) BURNELL, Kirk
POLLOCK, Colin J.
(31) 507590

(32) 22.07.2009	(22) 16.07.2018	(54) Locator for locating a current carrying conductor
(33) United States of America	(54) RESERVOIR MATERIALITY BOUNDS FROM SEISMIC INVERSION	(73) RADIODETECTION LIMITED
(51) G01T 1/20	(73) ExxonMobil Upstream Research Company	(72) Thompson, Jeffrey Richard
G01T 1/208	(72) SCHMEDES, Jan	Pearson, Richard David
(11) EP3149516	SAIN, Ratnanabha	Wong, Derek James
(21) EP15720743.2	WHELOCK, Brent	(31) 201119166
(47) 20.04.2022	(31) 201762545748 P	201113289952
(87) EP2015060371	(32) 15.08.2017	(32) 04.11.2011
03.12.2015	(33) United States of America	04.11.2011
(22) 11.05.2015	(51) G01V 1/38	(33) United Kingdom
(54) PORTABLE RADIATION DETECTION DEVICE FOR OPERATION IN INTENSE MAGNETIC FIELDS	B63B 21/66	United States of America
(73) Politecnico di Milano	G01V 1/20	(51) G01V 3/28
CERN - European Organization For Nuclear Research	(11) EP3341761	G01V 3/38
(72) SILARI, Marco	(21) EP16754490.7	G01V 11/00
FAZZI, Alberto	(47) 20.04.2022	E21B 47/026
VAROLI, Vincenzo Antonio	(87) EP2016069694	(11) EP2936213
(31) 14170108	02.03.2017	(21) EP12818848.9
(32) 27.05.2014	(22) 19.08.2016	(47) 20.04.2022
(33) European Patent Office (EPO)	(54) COLLAPSIBLE FAIRING	(87) US2012070584
(51) G01V 1/00	(73) PGS Geophysical AS	26.06.2014
(11) EP1789820	(72) ELVESTAD, Karl Petter	(22) 19.12.2012
(21) EP05785128.9	NIELSEN, Einar	(54) METHOD AND APPARATUS FOR OPTIMIZING DEEP RESISTIVITY MEASUREMENTS WITH MULTI-COMPONENT ANTENNAS
(47) 20.04.2022	(31) 201562210052 P	(73) Halliburton Energy Services, Inc.
(87) IB2005002866	(32) 26.08.2015	(72) WU, Hsu-Hsiang
23.03.2006	(33) United States of America	DONDERICI, Burkay
(22) 09.09.2005	(51) G01V 1/38	GUNER,Baris
(54) MICROSEISMIC EVENT DETECTION AND LOCATION BY CONTINUOUS MAP MIGRATION	B63B 27/16	(51) G01V 5/00
(73) Petroleum Research and Development N.V.	B63C 11/42	(11) EP3112909
Services Pétroliers Schlumberger	B63G 8/00	(21) EP15869283.0
Schlumberger Holdings Limited	(11) EP3213122	(47) 20.04.2022
Schlumberger Canada Limited	(21) EP15787578.2	(87) CN2015097274
Schlumberger Technology B.V.	(47) 20.04.2022	23.06.2016
(72) DREW, Julian	(87) EP2015075042	(22) 14.12.2015
(31) 943754	06.05.2016	(54) METHOD FOR POSITIONING TARGET IN THREE-DIMENSIONAL CT IMAGE AND SECURITY CHECK CT SYSTEM
(32) 17.09.2004	(22) 28.10.2015	(73) Nuctech Company Limited
(33) United States of America	(54) DEPLOYMENT AND RETRIEVAL OF SEISMIC AUTONOMOUS UNDERWATER VEHICLES	(72) CHEN, Zhiqiang
(51) G01V 1/28	(73) Seabed Geosolutions B.V.	ZHANG, Li
G01V 1/36	(72) ROKKAN, Arne Henning	HUANG, Qingping
(11) EP3063562	VALSVIK, Geir	SUN, Yunda
(21) EP14702071.3	ISFELDT, Bjarne	WANG, Shuo
(47) 20.04.2022	DANRE, Jean-Baptiste	TANG, Zhi
(87) GB2014050100	(31) 201462072263 P	(31) 201410795060
07.05.2015	(32) 29.10.2014	(32) 18.12.2014
(22) 14.01.2014	(33) United States of America	(33) China
(54) METHODS OF SUBSURFACE EXPLORATION, COMPUTER PROGRAM PRODUCT AND COMPUTER-READABLE STORAGE MEDIUM	(51) G01V 1/38	(51) G01V 8/12
(73) Imperial Innovations Ltd	B63G 8/00	G01S 17/04
(72) GUASCH BATALLA, Lluís	(11) EP3654069	G01S 7/481
WARNER, Mike	(21) EP19214553.0	G01V 8/14
(31) 201319095	(47) 20.04.2022	G01V 8/18
(32) 29.10.2013	(22) 30.03.2017	(11) EP3540474
(33) United Kingdom	(54) SYSTEM AND METHOD TO ACQUIRE SEISMIC DATA FROM A SEABED	(21) EP19156767.6
(51) G01V 1/30	(73) Magseis FF LLC	(47) 20.04.2022
G01V 99/00	(72) MARC, Etienne	(22) 12.02.2019
(11) EP3669211	FYFFE, Roger L.	(54) PHOTOELECTRIC SENSOR
(21) EP18749695.5	(31) 201615088058	(73) OMRON Corporation
(47) 20.04.2022	(32) 31.03.2016	(72) MIZUSAKI, Hiroyuki
(87) US2018042286	(33) United States of America	NAKAMURA, Jumpei
21.02.2019	(51) G01V 3/08	TSUJI, Tomohiro
	(11) EP2589988	MIYATA, Tsuyoshi
	(21) EP12191260.4	(31) 2018048007
	(47) 20.04.2022	(32) 15.03.2018
	(22) 05.11.2012	(33) Japan

- | | | |
|--|---|---|
| (51) G01V 99/00 | F21V 9/30 | (54) HIGH-LUMINANCE SURFACE |
| (11) EP3090289 | (11) EP3244238 | (73) Apple Inc. |
| (21) EP14828425.0 | (21) EP15866417.7 | (72) ROGERS, Matthew S. |
| (47) 20.04.2022 | (47) 20.04.2022 | WILSON, James R. |
| (87) US2014072689 | (87) CN2015096219 | (31) 201514750710 |
| 09.07.2015 | 16.06.2016 | (32) 25.06.2015 |
| (22) 30.12.2014 | (22) 02.12.2015 | (33) United States of America |
| (54) MACHINES FOR RESERVOIR
SIMULATION AUTOMATED WELL
COMPLETIONS AND RESERVOIR
GRID DATA QUALITY ASSURANCE | (54) DIFFUSE REFLECTION MATERIAL,
DIFFUSE REFLECTION LAYER,
WAVELENGTH CONVERSION DEVICE
AND LIGHT SOURCE SYSTEM | (51) G02B 5/30 |
| (73) Saudi Arabian Oil Company | (73) Appotronics Corporation Limited | C09K 19/38 |
| (72) DAL, Keyang | (72) Li, Qian | C09K 19/54 |
| AL-NAHDI, Umar, A. | XU, Hu | G02B 1/111 |
| AL-NASSER, Khalid, A. | TIAN, Zifeng | G02F 1/13363 |
| AL-ZAHRANI, Tareq | (31) 201410766308 | G02B 1/04 |
| AL-NUAIM, Mohammed, S. | (32) 11.12.2014 | (11) EP3674757 |
| AL-MULLA, Muath | (33) China | (21) EP18848162.6 |
| AL-ALWAN, Khalid | (51) G02B 1/04 | (47) 20.04.2022 |
| (31) 201361921943 P | A61F 2/16 | (87) JP2018027552 |
| 201361921966 P | C08L 33/04 | 28.02.2019 |
| (32) 30.12.2013 | (11) EP3555677 | (22) 23.07.2018 |
| 30.12.2013 | (21) EP17829403.9 | (54) POLYMERIZABLE LIQUID CRYSTAL
MATERIAL, POLYMERIZABLE
LIQUID CRYSTAL COMPOSITION,
POLYMER, OPTICAL FILM, OPTICAL
ANISOTROPIC BODY, POLARIZER,
ANTIREFLECTIVE FILM, DISPLAY
DEVICE AND METHOD FOR
MANUFACTURING POLYMERIZABLE
LIQUID CRYSTAL COMPOSITION |
| (33) United States of America | (47) 20.04.2022 | (73) Zeon Corporation |
| United States of America | (87) US2017066370 | (72) SAKAMOTO Kei |
| (51) G01V 99/00 | 21.06.2018 | NAKAJIMA Shunpei |
| (11) EP3535607 | (22) 14.12.2017 | (31) 2017160177 |
| (21) EP16794564.1 | (54) HIGH REFRACTIVE INDEX
HYDROPHILIC MATERIALS | (32) 23.08.2017 |
| (47) 20.04.2022 | (73) Benz Research And Development
Corporation | (33) Japan |
| (87) EP2016076828 | (72) BENZ, Patrick | (51) G02B 6/02 |
| 11.05.2018 | REBOUL, Adam | G01M 11/00 |
| (22) 07.11.2016 | (31) 201715586890 | (11) EP3494423 |
| (54) SEISMIC DATA PROCESSING
ARTIFICIAL INTELLIGENCE | 201662435441 P | (21) EP17826587.2 |
| (73) Geoquest Systems B.V. | (32) 04.05.2017 | (47) 20.04.2022 |
| (72) TRONERUD, Jarl Eirik | 16.12.2016 | (87) JP2017027876 |
| SALMAN, Nader | (33) United States of America | 08.02.2018 |
| AARRE, Victor | United States of America | (22) 01.08.2017 |
| (51) G01V 99/00 | (51) G02B 1/04 | (54) OPTICAL FIBER EVALUATION
METHOD AND OPTICAL FIBER
EVALUATION DEVICE |
| E21B 49/00 | G02C 7/04 | (73) Sumitomo Electric Industries, Ltd. |
| (11) EP3039236 | (11) EP3420385 | (72) HAYASHI, Tetsuya |
| (21) EP14839228.5 | (21) EP17757206.2 | (31) 2016154613 |
| (47) 20.04.2022 | (47) 20.04.2022 | (32) 05.08.2016 |
| (87) US2014051437 | (87) US2017019128 | (33) Japan |
| 05.03.2015 | 31.08.2017 | (51) G02B 6/12 |
| (22) 18.08.2014 | (22) 23.02.2017 | G02B 6/14 |
| (54) DETERMINING PHASE BEHAVIOR OF
A RESERVOIR FLUID | (54) SOL-GEL COATINGS FOR CONTACT
LENSES | G02B 6/293 |
| (73) Schlumberger Holdings Limited | (73) Lotus Leaf Coatings Inc. | (11) EP3767352 |
| (72) MUTINA, Albina Rishatovna | (72) SANCHEZ, Christopher | (21) EP20175143.5 |
| ALTMAN, Raphael | GOSAU, Jan-Michael | (47) 20.04.2022 |
| STUKAN, Mikhail | CHAVEZ, Lawrence | (22) 17.02.2017 |
| POMERANTZ, Drew E. | (31) 201662314566 P | (54) OPTICAL MULTIPLEXING CIRCUIT |
| (31) 201414326370 | 201662298573 P | (73) Nippon Telegraph and Telephone
Corporation |
| 201361870782 P | (32) 29.03.2016 | (72) HASHIMOTO, Toshikazu |
| (32) 08.07.2014 | 23.02.2016 | WATANABE, Kei |
| 27.08.2013 | (33) United States of America | SAKAMOTO, Junji |
| (33) United States of America | United States of America | (31) 2016029366 |
| United States of America | (51) G02B 5/02 | 2016029361 |
| (51) G02B 1/00 | A61B 5/00 | (32) 18.02.2016 |
| C04B 35/01 | C03C 17/00 | 18.02.2016 |
| C09K 5/14 | (11) EP3314311 | (33) Japan |
| C04B 41/86 | (21) EP16748174.6 | |
| C03C 8/20 | (47) 20.04.2022 | |
| C03C 8/16 | (87) US2016039208 | |
| C03C 14/00 | 29.12.2016 | |
| C04B 41/50 | (22) 24.06.2016 | |
| G02B 5/02 | | |

Japan	ABBIATI, Fabio	(32) 31.07.2015
(51) G02B 6/26	(51) G02B 7/12	(33) Japan
G02B 6/42	G02B 13/20	(51) G02B 21/00
G02B 6/125	G03B 21/20	G02B 5/08
G02B 6/28	G02B 21/00	G02B 5/28
(11) EP1987382	G01B 11/25	(11) EP2204685
(21) EP07757435.8	(11) EP3876017	(21) EP08844871.7
(47) 20.04.2022	(21) EP21166839.7	(47) 20.04.2022
(87) US2007062750	(47) 20.04.2022	(87) JP2008003094
30.08.2007	(22) 03.03.2017	07.05.2009
(22) 23.02.2007	(54) PATTERNED LIGHT IRRADIATION	(22) 29.10.2008
(54) BROADBAND 2X2 OPTICAL SPLITTER	APPARATUS AND METHOD	(54) LASER-EXCITING FLUORESCENCE
(73) NeoPhotonics Corporation	(73) Koh Young Technology Inc.	MICROSCOPE
(72) MCGREER, Kenneth	(72) HONG, Jong Kyu	(73) Nikon Corporation
XU, Hao	(31) 20160026310	(72) OKUGAWA, Hisashi
TICKNOR, Anthony J.	(32) 04.03.2016	AIKAWA, Naoshi
(31) 776406 P	(33) Korea (Republic)	SATO, Masatoshi
(32) 24.02.2006	(51) G02B 13/00	(31) 2007284758
(33) United States of America	G02B 27/10	2007283133
(51) G02B 6/34	H04N 5/225	(32) 01.11.2007
G02B 6/42	H04N 5/232	31.10.2007
G02F 1/01	G02B 26/08	(33) Japan
G02F 1/21	G02B 7/08	Japan
(11) EP3542197	G02B 27/64	(51) G02B 21/00
(21) EP17822548.8	(11) EP3338130	G02B 27/58
(47) 20.04.2022	(21) EP16757206.4	G01N 21/64
(87) DE2017200116	(47) 20.04.2022	(11) EP3177957
24.05.2018	(87) EP2016069645	(21) EP15745503.1
(22) 06.11.2017	23.02.2017	(47) 20.04.2022
(54) PHOTONIC COMPONENT	(22) 18.08.2016	(87) EP2015068113
(73) Sicoya GmbH	(54) MULTI-APERTURE IMAGING DEVICE,	11.02.2016
(72) BRONZI, Danilo	METHOD FOR PRODUCING SAME,	(22) 05.08.2015
VITALI, Marco	AND IMAGING SYSTEM	(54) HIGH-RESOLUTION SCANNING
(31) 102016222873	(73) Fraunhofer-Gesellschaft zur Förderung	MICROSCOPY WITH DISCRIMINATION
(32) 21.11.2016	der angewandten Forschung e.V.	BETWEEN AT LEAST TWO
(33) Germany	(72) WIPPERMANN, Frank	WAVELENGTH RANGES
(51) G02B 6/35	BRÄUER, Andreas	(73) Carl Zeiss Microscopy GmbH
(11) EP3602157	BRÜCKNER, Andreas	(72) KLEPPE, Ingo
(21) EP18721163.6	OBERDÖRSTER, Alexander	NETZ, Ralf
(47) 20.04.2022	(31) 102015215837	NOVIKAU, Yauheni
(87) IL2018050324	(32) 19.08.2015	(31) 102014111167
27.09.2018	(33) Germany	(32) 06.08.2014
(22) 21.03.2018	(51) G02B 13/00	(33) Germany
(54) OPTICAL FIBER INTERCONNECT	H01L 27/146	(51) G02B 21/24
APPARATUS	B29D 11/00	(11) EP3112919
(73) Xenoptics IP Holdings Pty Ltd.	G02B 1/11	(21) EP16168756.1
(72) AVRAHAMI, Zohar	(11) EP3329314	(47) 20.04.2022
AROL, Joseph	(21) EP16751017.1	(22) 09.05.2016
JAIKEAW, Patcharin	(47) 20.04.2022	(54) MICROSCOPE HAVING AN OPTICAL
NONDJUY, Sopit	(87) JP2016003350	MODULE WITH AT LEAST ONE
SOKOLOVSKY, Solomon	09.02.2017	OPTICAL ELEMENT
(31) 201762474110 P	(22) 15.07.2016	(73) Carl Zeiss Microscopy GmbH
(32) 21.03.2017	(54) STACKED LENS STRUCTURE,	(72) LEIDENBACH, Steffen
(33) United States of America	METHOD OF MANUFACTURING THE	WINDOLPH, Christoph
(51) G02B 6/42	SAME, AND ELECTRONIC APPARATUS	STEINBORN, Stefan
G02B 6/44	(73) Sony Group Corporation	(31) 102015110795
(11) EP3405826	(72) OHSHIMA, Keiji	(32) 03.07.2015
(21) EP16701336.6	SHIRAIWA, Toshiaki	(33) Germany
(47) 20.04.2022	FUJII, Nobutoshi	(51) G02B 21/36
(87) EP2016051331	SATO, Shuzo	H04N 5/225
27.07.2017	HAYASHI, Toshihiko	G02B 21/08
(22) 22.01.2016	IWASAKI, Masanori	(11) EP3064981
(54) TERMINATION MODULE AND	ITOU, Hiroyuki	(21) EP14856848.8
TERMINATION ASSEMBLY WITH SAID	TAZAWA, Hiroshi	(47) 20.04.2022
TERMINATION MODULE	ISHIDA, Minoru	(87) JP2014051804
(73) Prysmian S.p.A.	MATSUGAI, Hiroyasu	07.05.2015
(72) CANDELA, Roberto	SAITO, Suguru	(22) 28.01.2014
	(31) 2015152921	

(54) IMAGE ACQUISITION DEVICE AND IMAGE ACQUISITION METHOD FOR IMAGE ACQUISITION DEVICE	(33) United Kingdom European Patent Office (EPO)	12.07.2018 (22) 28.07.2017
(73) Hamamatsu Photonics K.K.	(51) G02B 27/09	(54) ARRAY SUBSTRATE AND DISPLAY DEVICE
(72) IWASE Fumio	G02B 7/02	(73) BOE Technology Group Co., Ltd.
(31) 2013228560	G02B 3/04	(72) LI, Pan
(32) 01.11.2013	(11) EP3827304	LONG, Chunping
(33) Japan	(21) EP19720128.8	(31) 201720004109 U
(51) G02B 26/02	(47) 20.04.2022	(32) 03.01.2017
G02B 6/00	(87) EP2019060867	(33) China
G02F 1/025	30.01.2020	(51) G02F 1/167
G02B 6/293	(22) 29.04.2019	(11) EP3657242
H04B 10/50	(54) DEVICE FOR COLLIMATING A LIGHT BEAM FIELD	(21) EP18922081.7
H04B 10/67	(73) Fisba AG	(47) 20.04.2022
H04B 10/80	(72) MOSER, Hansruedi	(87) CN2018109434
(11) EP3271773	LANGENBACH, Eckhard	02.04.2020
(21) EP15899073.9	SELM, Romedi	(22) 09.10.2018
(47) 20.04.2022	(31) 18184916	(54) METHOD OF MANUFACTURING A DISPLAY PLASMA MODULE HAVING DOUBLE-LAYER MICRO-STRUCTURE
(87) US2015041323	(32) 23.07.2018	(73) Wuxi Vision Peak Technology Co., Ltd.
26.01.2017	(33) European Patent Office (EPO)	(72) CHEN, Shan
(22) 21.07.2015	(51) G02C 7/02	ZHANG, Lei
(54) RING-RESONATOR MODULATION OF AN OPTICAL SIGNAL	(11) EP3891552	BAO, Jin
(73) Hewlett Packard Enterprise Development LP	(21) EP19835247.8	(31) 201811118791
(72) BEAUSOLEIL, Raymond G.	(47) 20.04.2022	(32) 25.09.2018
LI, Cheng	(87) EP2019082991	(33) China
FIorentino, Marco	11.06.2020	(51) G02F 1/167
CHEN, Janet	(22) 28.11.2019	G02F 1/1343
(51) G02B 27/01	(54) SPECTACLE LENS, FAMILY OF SPECTACLE LENSES, METHOD FOR DESIGNING A SPECTACLE LENS FAMILY AND METHOD FOR PRODUCING A SPECTACLE LENS	G02F 1/1679
A61B 34/00	(73) Carl Zeiss Vision International GmbH	(11) EP3543783
G06F 3/01	(72) WELSCHER, Markus	(21) EP18865380.2
(11) EP3574361	(31) 18209854	(47) 20.04.2022
(21) EP18703091.1	(32) 03.12.2018	(87) CN2018078221
(47) 20.04.2022	(33) European Patent Office (EPO)	(22) 07.03.2018
(87) IB2018050432	(51) G02F 1/015	(54) ELECTROPHORETIC DISPLAY MODULE WITH ELECTROPHORETIC FLUID BARRIER ARRAY AND METHOD FOR MANUFACTURING THE SAME
02.08.2018	H01S 5/183	(73) Wuxi Vision Peak Technology Co., Ltd.
(22) 24.01.2018	(11) EP3477363	(72) BAO, Jin
(54) SYSTEMS AND METHOD FOR AUGMENTED REALITY OPHTHALMIC SURGICAL MICROSCOPE PROJECTION	(21) EP18195394.4	ZHANG, Lei
(73) Alcon Inc.	(47) 20.04.2022	CHEN, Shan
(72) HOPPER, Andrew Steven	(22) 19.09.2018	(31) 201810171783
DOS SANTOS, Cesario	(54) OPTICAL MODULATING DEVICE AND APPARATUS INCLUDING THE SAME	201810171462
KOONTZ, John	(73) Samsung Electronics Co., Ltd.	201810054139
OVCHINNIKOV, Mikhail	California Institute of Technology	(32) 01.03.2018
(31) 201762452077 P	(72) LU, Yu-Jung	01.03.2018
(32) 30.01.2017	BAIK, Chanwook	19.01.2018
(33) United States of America	LEE, Duhyun	(33) China
(51) G02B 27/01	SHIRMANESH, Ghazaleh Kafaie	China
G02B 6/00	ATWATER, Harry	China
G02B 27/00	SOKHOYAN, Ruzan	(51) G02F 1/35
(11) EP3014335	PALA, Ragip	H01S 3/00
(21) EP14735645.5	(31) 20180039338	(11) EP3657243
(47) 20.04.2022	201762579220 P	(21) EP20150667.2
(87) GB2014051930	(32) 04.04.2018	(47) 20.04.2022
31.12.2014	31.10.2017	(22) 28.02.2018
(22) 25.06.2014	(33) Korea (Republic)	(54) OPTICAL DUAL-COMB SOURCE APPARATUS INCLUDING TWO OPTICAL MICRORESONATORS
(54) DISPLAY COMPRISING AN OPTICAL WAVEGUIDE FOR DISPLAYING AN IMAGE	United States of America	(73) International Center for Quantum Optics & Quantum Technologies Limited liability company
(73) BAE Systems PLC	(51) G02F 1/1362	Samsung Electronics Co., Ltd.
(72) MASON, Stephen, Paul	G02F 1/1339	(72) POLONSKY, Stanislav Vladimirovich
(31) 201311336	H01L 27/12	LOBANOV, Valery Evgenievich
13275145	G02F 1/1368	
(32) 26.06.2013	(11) EP3567422	
26.06.2013	(21) EP17890424.9	
	(47) 20.04.2022	
	(87) CN2017094906	

RIABKO, Maxim Vladimirovich	Nagahara, Seiji	(22) 27.12.2017
SHCHEKIN, Alexey Andreevich	Tomono, Masaru	(54) TONER CASE AND IMAGE FORMING APPARATUS
VOLOSHIN, Andrey Sergeevich	Minekawa, Yukie	(73) KYOCERA Document Solutions Inc.
PAVLOV, Nikolay Genad'evich	Fukunaga, Nobutaka	(72) MIMURA, Daisuke
LANTSOV, Alexey Dmitrievich	(31) 2016225324	(31) 2017005910
MEDVEDEV, Anton Sergeevich	(32) 18.11.2016	(32) 17.01.2017
GRODETSKY, Mikhael Leonidovich	(33) Japan	(33) Japan
BILENKO, Igor Antonovich	(51) G03F 7/30	(51) G03G 15/08
LIHACHEV, Grigoriy Vasil'evich	B41F 27/14	(11) EP3588194
KOPTYAEV, Sergey Nikolaevich	(11) EP3401734	(21) EP19179333.0
(31) 20170091054	(21) EP18171690.3	(47) 20.04.2022
2017118907	(47) 20.04.2022	(22) 11.06.2019
(32) 18.07.2017	(22) 10.05.2018	(54) ELECTROPHOTOGRAPHIC MEMBER, PROCESS CARTRIDGE, AND ELECTROPHOTOGRAPHIC IMAGE FORMING APPARATUS
31.05.2017	(54) FEEDING ASSEMBLY FOR LOADING A FLEXOGRAPHIC PLATE IN A TREATMENT STATION	(73) CANON KABUSHIKI KAISHA
(33) Korea (Republic)	(73) SASU VIANORD ENGINEERING	(72) SHII, Toru
Russian Federation	(72) DE CARIA, Riccardo	MORIAL, Wataru
(51) G03B 21/20	(31) 201700051285	ISHIDA, Kazutoshi
F21V 9/30	(32) 11.05.2017	(31) 2018123388
G03B 33/06	(33) Italy	(32) 28.06.2018
(11) EP3617798	(51) G03G 7/00	(33) Japan
(21) EP19193327.4	G03G 8/00	(51) G03G 15/08
(47) 20.04.2022	G03G 9/12	(11) EP3605240
(22) 23.08.2019	G03G 9/13	(21) EP19189004.5
(54) LIGHT SOURCE APPARATUS AND PROJECTOR	(11) EP3248066	(47) 20.04.2022
(73) Seiko Epson Corporation	(21) EP15701154.5	(22) 30.07.2019
(72) Sakata, Hidefumi	(47) 20.04.2022	(54) ELECTROPHOTOGRAPHIC MEMBER, ELECTROPHOTOGRAPHIC PROCESS CARTRIDGE AND ELECTROPHOTOGRAPHIC IMAGE FORMING APPARATUS
Suzuki, Junichi	(87) EP2015050909	(73) CANON KABUSHIKI KAISHA
(31) 2018230916	28.07.2016	(72) URUSHIHARA, Shohei
2018158364	(22) 19.01.2015	SUGIYAMA, Ryo
(32) 10.12.2018	(54) LIQUID ELECTROPHOTOGRAPHIC VARNISH COMPOSITION	NAKAMURA, Minoru
27.08.2018	(73) HP Indigo B.V.	NAGAOKA, Kazuaki
(33) Japan	(72) NESHER, Guy	YAMAGUCHI, Sosuke
Japan	KOWAL-BLAU, Yael	(31) 2018144377
(51) G03B 21/20	AZZAM, Tony	(32) 31.07.2018
G03B 33/06	BIADGLIN, Getahun	(33) Japan
(11) EP3570106	DAYAN, Benjamin	(51) G03G 15/20
(21) EP19173786.5	MOR, Ilanit	(11) EP3629095
(47) 20.04.2022	TEISHEV, Albert	(21) EP19190251.9
(22) 10.05.2019	SHELEF, Eyal	(47) 20.04.2022
(54) LIGHT SOURCE APPARATUS AND IMAGE PROJECTION APPARATUS	FARRAN, Samer	(22) 06.08.2019
(73) CANON KABUSHIKI KAISHA	COHEN, Haim	(54) FIXING DEVICE AND IMAGE FORMING APPARATUS
(72) MIURA, Shun	(51) G03G 9/08	(73) Oki Electric Industry Co., Ltd.
(31) 2018094136	G03G 9/087	(72) FURUKAWA, Takaaki
(32) 15.05.2018	G03G 9/097	(31) 2018181189
(33) Japan	(11) EP3561597	(32) 27.09.2018
(51) G03F 1/62	(21) EP19171048.2	(33) Japan
(11) EP3418804	(47) 20.04.2022	(51) G03H 1/04
(21) EP18177222.9	(22) 25.04.2019	(11) EP3602201
(47) 20.04.2022	(54) TONER	(21) EP18719064.0
(22) 12.06.2018	(73) CANON KABUSHIKI KAISHA	(47) 20.04.2022
(54) PELLICLE FILM FOR PHOTOLITHOGRAPHY AND PELLICLE	(72) KATSURA, Taiji	(87) EP2018058349
(73) Shin-Etsu Chemical Co., Ltd.	TOMINAGA, Tsuneyoshi	04.10.2018
(72) YANASE, Yu	UMEDA, Noriyoshi	(22) 30.03.2018
(31) 2017122744	FUMITA, Hidekazu	(54) DEVICES AND METHODS FOR OPTICAL IMAGING BY MEANS OF OFF-AXIS DIGITAL HOLOGRAPHY
(32) 23.06.2017	MOCHIZUKI, Shinsuke	(73) Ecole Supérieure de Physique et de Chimie Industrielles de la Ville de Paris (ESPCI PARIS TECH)
(33) Japan	(31) 2019032501	
(51) G03F 7/20	2018086035	
(11) EP3324239	(32) 26.02.2019	
(21) EP17202291.5	27.04.2018	
(47) 20.04.2022	(33) Japan	
(22) 17.11.2017	Japan	
(54) EXPOSURE APPARATUS, EXPOSURE METHOD AND STORAGE MEDIUM	(51) G03G 15/08	
(73) Tokyo Electron Limited	(11) EP3349067	
(72) Shiraishi, Gousuke	(21) EP17210756.7	
	(47) 20.04.2022	

Centre National de la Recherche Scientifique	COMPRISING SUCH A DISPLAY DEVICE	13.09.2018
(72) ATLAN, Michael	(73) ETA SA Manufacture Horlogère Suisse	(22) 30.01.2018
HUIGNARD, Jean-Pierre	(72) BACHMANN, Stéphane	(54) SIMULATION DEVICE, SIMULATION METHOD, AND SIMULATION PROGRAM
(31) 1752775	(51) G04B 19/28	(73) Omron Corporation
(32) 31.03.2017	G04B 37/08	(72) URABE, Kentaro
(33) France	(11) EP3796104	EGL, Mamoru
(51) G04B 17/04	(21) EP19198517.5	(31) 2017045406
G04B 31/00	(47) 20.04.2022	(32) 09.03.2017
G04B 17/28	(22) 20.09.2019	(33) Japan
(11) EP3572885	(54) CASING SUBASSEMBLY FOR A TIMEPIECE, WATCH OR JEWEL	(51) G05B 15/00
(21) EP18174332.9	(73) The Swatch Group Research and Development Ltd	G08B 21/02
(47) 20.04.2022	(72) TSCHUMI, Philipp	G07C 9/00
(22) 25.05.2018	(51) G04B 37/08	G16H 40/20
(54) TIMEPIECE MECHANICAL OSCILLATOR THAT IS ISOCHRONOUS IN ANY POSITION	G04B 19/18	G06Q 10/00
(73) ETA SA Manufacture Horlogère Suisse	(11) EP3650955	G06Q 20/12
(72) KLINGER, Laurent	(21) EP19201341.5	G06Q 20/14
WINKLER, Pascal	(47) 20.04.2022	G06Q 20/32
HELPER, Jean-Luc	(22) 03.10.2019	G16H 20/10
(51) G04B 17/22	(54) TIMEPIECE COMPRISING A DEVICE FOR ACTUATING A VALVE	G16H 40/63
G04B 18/00	(73) Omega SA	G07C 9/28
B22C 9/00	(72) KISSLING, Gregory	G07C 1/10
C22C 21/00	LOETSCHER, Philippe	G07F 15/00
C22C 38/08	(31) 18205382	(11) EP3377947
C22C 14/00	(32) 09.11.2018	(21) EP16866841.6
B22D 15/00	(33) European Patent Office (EPO)	(47) 20.04.2022
B22D 25/02	(51) G04C 5/00	(87) US2016059763
B22D 27/04	G04C 3/10	26.05.2017
C22C 16/00	(11) EP3767397	(22) 31.10.2016
(11) EP3796102	(21) EP19187333.0	(54) TRACKING AND ACCESS SYSTEM
(21) EP20201790.1	(47) 20.04.2022	(73) Bohnas LLC
(47) 20.04.2022	(22) 19.07.2019	(72) BAUER, Greg
(22) 22.12.2017	(54) CLOCK MOVEMENT COMPRISING A ROTARY ELEMENT PROVIDED WITH A MAGNETIC STRUCTURE HAVING A PERIODIC CONFIGURATION	THOMAS, Doran
(54) METHOD FOR MANUFACTURING A BALANCE FOR A TIMEPIECE	(73) The Swatch Group Research and Development Ltd	JOHNSON, Casey
(73) The Swatch Group Research and Development Ltd	(72) PIGUET, René	(31) 201514947832
(72) TOMBEZ, Lionel	STRANCZL, Marc	(32) 20.11.2015
WINKLER, Yves	DI DOMENICO, Gianni	(33) United States of America
HELPER, Jean-Luc	LEGERET, Benoît	(51) G05B 15/02
CORSON, Donald	(51) G04R 20/02	(11) EP3732538
MARTIN, Jean-Claude	G04R 20/04	(21) EP19794805.2
WILLEMIN, Michel	(11) EP3418819	(47) 20.04.2022
WINKLER, Pascal	(21) EP18178379.6	(87) US2019055149
HAEMMERLI, Alexandre	(47) 20.04.2022	16.04.2020
DI DOMENICO, Gianni	(22) 19.06.2018	(22) 08.10.2019
HINAUX, Baptiste	(54) ELECTRONIC DEVICE, DATE-AND-TIME ACQUISITION CONTROL METHOD, AND RECORDING MEDIUM	(54) SUMMARILY CONVEYING SMART APPLIANCE STATUSES
PARATTE, Lionel	(73) Casio Computer Co., Ltd.	(73) Google LLC
(51) G04B 19/247	(72) MATSUE, Takeshi	(72) NI, Yuzhao
(11) EP3629101	SEKITSUKA, Tatsuya	CLIFTON, Thomas
(21) EP18196792.8	(31) 2017121094	LIMAYE, Ashwin
(47) 20.04.2022	(32) 21.06.2017	SCHAIRER, David, Roy
(22) 26.09.2018	(33) Japan	TRAN, Cindy
(54) TIMEPIECE DISPLAY MECHANISM	(51) G05B 13/04	(31) 201862742585 P
(73) Patek Philippe SA Genève	H02P 29/00	(32) 08.10.2018
(72) HIDE, James	G05B 17/02	(33) United States of America
DEHON, Nicolas	(11) EP3594759	(51) G05B 17/02
(51) G04B 19/253	(21) EP18763399.5	G05B 19/418
G04B 19/26	(47) 20.04.2022	(11) EP3185092
(11) EP3671366	(87) JP2018002907	(21) EP16205764.0
(21) EP18215120.9		(47) 20.04.2022
(47) 20.04.2022		(22) 21.12.2016
(22) 21.12.2018		(54) SYSTEMS AND METHODS TO ENHANCE MACHINE DESIGNS AND PRODUCTION RATE SCHEDULES FOR MINIMIZED ENERGY COST
(54) DEVICE FOR DISPLAYING A SERIES OF PERIODIC EVENTS THAT FORM AN ANNUAL CYCLE AND TIMEPIECE		(73) Rockwell Automation Technologies, Inc.
		(72) DA SILVA, Aderiano M.

SCHMIDT, Peter B.	(31) 102016117813	(72) Steininger, Heinrich
SCHMIDT, Robert H.	(32) 21.09.2016	(31) 3002018
(31) 201514978998	(33) Germany	(32) 28.09.2018
(32) 22.12.2015	(51) G05B 19/042	(33) Austria
(33) United States of America	(11) EP3542232	(51) G05B 19/048
(51) G05B 19/042	(21) EP17801045.0	G05B 19/418
(11) EP2764455	(47) 20.04.2022	(11) EP3493003
(21) EP12838771.9	(87) EP2017079932	(21) EP18204238.2
(47) 20.04.2022	24.05.2018	(47) 20.04.2022
(87) US2012059097	(22) 21.11.2017	(22) 05.11.2018
11.04.2013	(54) CONTROL SYSTEM FOR AN	(54) MANUFACTURING ASSISTANCE
(22) 05.10.2012	INDUSTRIAL AUTOMATION FACILITY	APPARATUS
(54) SYSTEM AND METHOD FOR	AND METHOD FOR PROGRAMMING	(73) Subaru Corporation
MONITORING AND/OR CONTROLLING	AND OPERATING SUCH A CONTROL	(72) NAGAI, Yuichi
DYNAMIC ENVIRONMENTS	SYSTEM	SUZUKI, Kei
(73) Opteon Corporation	(73) Weidmüller Interface GmbH & Co. KG	SHIBAO, Yasunori
(72) SCHAEFFER, Timothy N.	(72) BRINKMANN, Sebastian	MURATA, Iwao
HOPKINS, T. Eric	KRONER, Michael	KIKUCHI, Marosuke
FRAZER, Mark J.	HARRING, Felix	(31) 2017229970
(31) 201161543680 P	HERBRECHTSMEIER, Stefan	(32) 30.11.2017
(32) 05.10.2011	PETERS, Christian	(33) Japan
(33) United States of America	BROCKMEYER, Michael	(51) G05B 19/416
(51) G05B 19/042	BIRNBAUM, Immo	G05B 19/418
(11) EP3769169	(31) 102016122324	G05B 19/414
(21) EP19706521.2	(32) 21.11.2016	B65H 23/198
(47) 20.04.2022	(33) Germany	B65H 23/185
(87) EP2019053931	(51) G05B 19/042	H02P 21/00
26.09.2019	(11) EP3582033	H02P 5/00
(22) 18.02.2019	(21) EP18177416.7	(11) EP3102988
(54) METHOD AND SYSTEM FOR STORING	(47) 20.04.2022	(21) EP15713831.4
OF DEVICE-RELATED DATA RELATING	(22) 12.06.2018	(47) 20.04.2022
TO FIELD DEVICES IN A CLOUD	(54) METHOD FOR SECURELY OPERATING	(87) DE2015100047
(73) Endress+Hauser Process Solutions AG	A FIELD DEVICE	06.08.2015
(72) PÖSCHMANN, Axel	(73) ABB Schweiz AG	(22) 03.02.2015
MAYER, Michael	(72) Fengler, Frank	(54) DRIVE SYSTEM FOR CONVEYOR,
MANEVAL, Michael	(51) G05B 19/042	EXTRUDER, THRUST AND TRACTION
(31) 102018106514	(11) EP3679431	DEVICES, SYNCHRONIZING
(32) 20.03.2018	(21) EP18753396.3	APPLICATIONS AND CENTER WINDS
(33) Germany	(47) 20.04.2022	(73) González-Villar, Juan, Carlos
(51) G05B 19/042	(87) EP2018071670	(72) González-Villar, Juan, Carlos
(11) EP3347779	07.03.2019	(31) 102014010336
(21) EP16757182.7	(22) 09.08.2018	102014001249
(47) 20.04.2022	(54) METHOD FOR OPERATING AN	(32) 10.07.2014
(87) EP2016069200	APPLICATION PROGRAM FOR	03.02.2014
16.03.2017	EXECUTING IN AN ELECTRIC	(33) Germany
(22) 12.08.2016	CONTROL UNIT FOR A DRIVE	Germany
(54) METHOD FOR THE ENERGY	SYSTEM, ELECTRIC CONTROL UNIT,	(51) G05B 19/418
MANAGEMENT OF A PROCESS-	DRIVE SYSTEM AND SYSTEM	G06F 16/00
AUTOMATION FIELD DEVICE	(73) Lenze Automation GmbH	(11) EP3594766
(73) Endress+Hauser SE+Co. KG	(72) KLING, Maikel	(21) EP19184232.7
(72) SEILER, Christian	MITTELSTÄDT, Jan	(47) 20.04.2022
KLÖFER, Peter	ZANG, Eduard	(22) 03.07.2019
(31) 102015115275	STÖWER, Mathias	(54) DATA COLLECTION SYSTEM AND
(32) 10.09.2015	(31) 102017215449	DATA COLLECTION METHOD
(33) Germany	(32) 04.09.2017	(73) Yokogawa Electric Corporation
(51) G05B 19/042	(33) Germany	(72) SATO, Shuichi
(11) EP3516463	(51) G05B 19/042	URABE, Hiroo
(21) EP17764800.3	G05B 19/05	ARAI, Takashi
(47) 20.04.2022	G06F 8/34	YOSHIDA, Yusaku
(87) EP2017072374	(11) EP3629112	(31) 2018129852
29.03.2018	(21) EP19450009.6	(32) 09.07.2018
(22) 06.09.2017	(47) 20.04.2022	(33) Japan
(54) SYSTEM FOR DIAGNOSING A	(22) 26.09.2019	(51) G05B 23/02
PROCESS FLUID-CONDUCTING	(54) METHOD FOR DISPLAYING	(11) EP3451101
ACTUATOR AND CORRESPONDING	DISCREPANCIES BETWEEN A USER	(21) EP17189448.8
METHOD	PROGRAM FOR A PROGRAMMABLE	(47) 20.04.2022
(73) Samson Aktiengesellschaft	CONTROLLER AND ITS COPY	(22) 05.09.2017
(72) KIESBAUER, Jörg	(73) logi.cals GmbH	

(54) METHOD FOR DETERMINING A CAUSE OF A MALFUNCTION IN A VEHICLE COMPONENT	JABLONSKI, Jason, Dirk (31) 201113175267 (32) 01.07.2011	(33) Korea (Republic) (51) G06F 1/16 (11) EP3347790
(73) Lisa Dräxlmaier GmbH	(33) United States of America	(21) EP16829031.0
(72) Heise, Jan Torben	(51) G05D 23/19	(47) 20.04.2022
(51) G05D 1/00	G01R 19/25	(87) US2016068855
G05D 1/08	B64F 5/10	28.09.2017
B64C 13/50	(11) EP3173893	(22) 28.12.2016
B64D 45/00	(21) EP16200450.1	(54) BASE WITH ROTATING MOUNT THAT INCREASES FRICTION OF ROTATION WHEN PORTABLE COMPUTING DEVICE IS PLACED ONTO MOUNT
B64C 27/54	(47) 20.04.2022	(73) Google LLC
(11) EP3715991	(22) 24.11.2016	(72) ROBERTS, Rachael Elizabeth
(21) EP19178304.2	(54) A SYSTEM AND METHOD FOR CONTROLLING THE TEMPERATURE OF AN AIRCRAFT STRUCTURE FOR MANUFACTURING OPERATIONS.	TANNER, James
(47) 20.04.2022	(73) The Boeing Company	MATSUMOTO, George
(22) 04.06.2019	(72) RANDICH, Timothy, W.	(31) 201615075992
(54) METHOD FOR MONITORING THE PILOT CONTROL TRIM OF A ROTORCRAFT AND DETECTING A TRIM FAILURE	BUMGARDNER, Mark, D.	(32) 21.03.2016
(73) Textron Innovations Inc.	SCHWEIGER, Jonathan, A.	(33) United States of America
(72) Worsham II, Robert	(31) 201514954079	(51) G06F 1/16
(31) 201916363066	(32) 30.11.2015	G06F 3/041
(32) 25.03.2019	(33) United States of America	H05K 3/36
(33) United States of America	(51) G05F 3/20	H05K 1/11
(51) G05D 1/02	G05F 3/24	H05K 3/32
(11) EP3761139	G05F 3/26	G06F 3/044
(21) EP20182585.8	H03K 3/011	(11) EP3647918
(47) 20.04.2022	H03K 5/159	(21) EP18822650.0
(22) 26.06.2020	H03K 17/14	(47) 20.04.2022
(54) AUTOMATIC DRIVING VEHICLE	H03K 19/003	(87) JP2018019937
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	(11) EP3146622	03.01.2019
(72) IDE, Hirohito	(21) EP14892709.8	(22) 24.05.2018
YAMANOUCHI, Yuchi	(47) 20.04.2022	(54) INPUT DEVICE
UMEDA, Kazuhiro	(87) CN2014078223	(73) Alps Alpine Co., Ltd.
(31) 2019121408	26.11.2015	(72) MOTONISHI, Michiharu
(32) 28.06.2019	(22) 23.05.2014	KOBAYASHI, Kiyoshi
(33) Japan	(54) FEED-FORWARD BIAS CIRCUIT	(31) 2017127174
(51) G05D 16/00	(73) Qualcomm Incorporated	(32) 29.06.2017
G05D 16/20	(72) ZHANG, Le	(33) Japan
(11) EP3485338	LEE, Chulkyu	(51) G06F 1/20
(21) EP17740252.6	SU, Wenjun	H04M 1/02
(47) 20.04.2022	YIN, Guangming	(11) EP3030947
(87) US2017041009	(51) G05G 1/44	(21) EP14758204.3
18.01.2018	G05G 1/38	(47) 20.04.2022
(22) 07.07.2017	G05G 23/00	(87) US2014050419
(54) DIFFERENTIAL PRESSURE REGULATING SHUT-OFF VALVE	(11) EP3882739	12.02.2015
(73) GE Aviation Systems LLC	(21) EP20382202.8	(22) 08.08.2014
(72) HIELKEMA, Jerry, Dean	(47) 20.04.2022	(54) THERMAL MITIGATION ADAPTATION FOR A MOBILE ELECTRONIC DEVICE
(31) 201615209273	(22) 18.03.2020	(73) Qualcomm Incorporated
(32) 13.07.2016	(54) ROTATION DETECTION DEVICE AND VEHICLE PEDAL ARRANGEMENT COMPRISING SAID ROTATION DETECTION DEVICE	(72) VADAKKANMARUVEEDU, Unnikrishnan
(33) United States of America	(73) Batz, S. Coop.	MITTER, Vinay
(51) G05D 16/18	(72) ANZOLA ARTABE, Egoitz	JAIN, Ankur
F16K 1/36	TOTORIKA TXURRUKA, Iker	(31) 201313963248
F16K 1/46	ALONSO ALONSO, Arturo	(32) 09.08.2013
F16K 25/00	(51) G06F 1/16	(33) United States of America
F16K 1/48	(11) EP3623899	(51) G06F 1/24
(11) EP3373099	(21) EP19195011.2	(11) EP3382501
(21) EP18170140.0	(47) 20.04.2022	(21) EP16877284.6
(47) 20.04.2022	(22) 03.09.2019	(47) 20.04.2022
(22) 29.06.2012	(54) COVER WINDOW FOR A DISPLAY APPARATUS	(87) CN2016090516
(54) PRESSURE-BALANCED FLUID PRESSURE REGULATORS	(73) Samsung Display Co., Ltd.	29.06.2017
(73) Emerson Process Management Regulator Technologies, Inc.	(72) IM, Min Hyuk	(22) 19.07.2016
(72) ROPER, Daniel, Gunder	YEE, Dong Su	(54) DEVICE AND METHOD FOR RESTORING FACTORY SETTINGS
LUKENSMEYER, Andrew, Jared	(31) 20180109701	(73) Huawei Technologies Co., Ltd.
GRIFFIN, James, Lyman Jr.	(32) 13.09.2018	(72) DING, Jinbo
MCKINNEY, Harold, Joe		XIE, Zhengsheng
		ZHANG, Ruhong

(31) 201510966526	(11) EP3382511	G06F 3/14
(32) 21.12.2015	(21) EP18165262.9	A63F 13/21
(33) China	(47) 20.04.2022	(11) EP3550404
(51) G06F 1/26	(22) 29.03.2018	(21) EP17876048.4
(11) EP3447606	(54) SUPPORTING MULTIPLE REFRESH RATES IN DIFFERENT REGIONS OF PANEL DISPLAY	(47) 20.04.2022
(21) EP18190033.3	(73) INTEL Corporation	(87) JP2017042690
(47) 20.04.2022	(72) LEE, Sang-Hee	07.06.2018
(22) 21.08.2018	PENG, Ya-Ti	(22) 28.11.2017
(54) METHOD AND ELECTRONIC DEVICE FOR CONTROLLING POWER BETWEEN ELECTRONIC DEVICES	RAY, Joydeep	(54) INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, AND COMPUTER PROGRAM
(73) Samsung Electronics Co., Ltd.	APPU, Abhishek R.	(73) Sony Group Corporation
(72) Song, Woo-Taek	KAO, Wen-Fu	(72) SHIMIZU, Yosuke
Song, Hyun-Ji	(31) 201715477009	YAMAZAKI, Tatsuya
Lee, Tae-Kyung	(32) 01.04.2017	NASHIDA, Tatsushi
(31) 20170106946	(33) United States of America	NISHIKAWA, Jun
(32) 23.08.2017	(51) G06F 3/01	TAKAHASHI, Naomasa
(33) Korea (Republic)	G06F 3/03	MIKAMI, Masanori
(51) G06F 1/3206	G06K 9/00	EDAMITSU, Naoko
G06F 1/3287	(11) EP3608755	(31) 2017044963
(11) EP2804075	(21) EP18199377.5	2016231510
(21) EP14166867.3	(47) 20.04.2022	2016231509
(47) 20.04.2022	(22) 09.10.2018	PCT/JP2017/027786
(22) 02.05.2014	(54) ELECTRONIC APPARATUS OPERATED BY HEAD MOVEMENT AND OPERATION METHOD THEREOF	(32) 09.03.2017
(54) Controlling power consumption of a processor using interrupt-mediated on-off keying	(73) Acer Incorporated	29.11.2016
(73) Intel Corporation	(72) LEE, An-Cheng	29.11.2016
(72) Nasrullah, Jawad	WU, Cheng-Tse	31.07.2017
Keppel, David	HUNG, Ying-Shih	(33) Japan
(31) 201313894642	CHIU, Sheng-Lin	Japan
(32) 15.05.2013	(31) 107127782	Japan
(33) United States of America	(32) 09.08.2018	World Intellectual Property Office (WIPO)
(51) G06F 3/01	(33) Taiwan, Province of China	(51) G06F 3/03
(11) EP3543830	(51) G06F 3/01	G06F 3/046
(21) EP18777978.0	G06K 9/00	G06F 3/038
(47) 20.04.2022	A61B 5/00	G06F 3/041
(87) JP2018012104	A61B 5/01	G06F 3/0354
04.10.2018	A61B 5/11	(11) EP3367217
(22) 26.03.2018	A61B 5/024	(21) EP16857255.0
(54) VIBRATION PRESENTATION DEVICE	A61B 5/083	(47) 20.04.2022
(73) Sumitomo Riko Company Limited	A61B 5/0205	(87) JP2016079201
(72) NAKANO, Katsuhiko	G16H 40/67	27.04.2017
NAKAJIMA, Hiroyuki	(11) EP3058443	(22) 03.10.2016
NASU, Masaki	(21) EP14796596.6	(54) POSITION INDICATOR AND POSITION DETECTION APPARATUS
MURASE, Takanori	(47) 20.04.2022	(73) Wacom Co., Ltd.
(31) 2017065217	(87) US2014060480	(72) MIYAZAWA Hiroshi
(32) 29.03.2017	23.04.2015	HORIE Toshihiko
(33) Japan	(22) 14.10.2014	(31) 2015207932
(51) G06F 3/01	(54) CALCULATING PACE AND ENERGY EXPENDITURE FROM ATHLETIC MOVEMENT ATTRIBUTES	(32) 22.10.2015
A61B 5/16	(73) NIKE Innovate C.V.	(33) Japan
G06F 3/0487	(72) GOEL, Manan	(51) G06F 3/03
G06F 3/0484	DOW-HYGELUND, Corey	G09G 5/38
G06F 1/16	WILKINS, Brad	H04M 1/72454
(11) EP3392739	HAZEL, Jeff	G06V 10/24
(21) EP15910792.9	SCHMITT, John	G06V 40/16
(47) 20.04.2022	BALAKRISHNAN, SantoshKumar	G06G 5/00
(87) KR2015013894	(31) 201361900203 P	G06F 1/16
22.06.2017	201361890748 P	G09G 5/00
(22) 17.12.2015	(32) 05.11.2013	(11) EP2802966
(54) EYE-BRAIN INTERFACE (EBI) SYSTEM AND METHOD FOR CONTROLLING SAME	14.10.2013	(21) EP12864847.4
(73) Looxid Labs Inc.	(33) United States of America	(47) 20.04.2022
(72) CHAE, Yongwook	United States of America	(87) KR2012007435
(51) G06F 3/01	(51) G06F 3/01	18.07.2013
G06F 1/32	H04N 21/431	(22) 18.09.2012
	H04N 21/442	(54) DEVICE AND METHOD FOR CONTROLLING ROTATION OF DISPLAYED IMAGE

(73) Samsung Electronics Co., Ltd.	(33) Taiwan, Province of China	(72) ZHAO, Junmin
(72) JUNG, Ji-su	(51) G06F 3/041	ZHANG, Xin
EOM, Ju-il	G06F 3/044	WANG, Zaishang
PARK, Yong-gook	G01L 1/14	ZHANG, Guoquan
(31) 20120003087	G01L 9/12	(51) G06F 3/041
(32) 10.01.2012	G01L 9/08	H05K 5/03
(33) Korea (Republic)	H01L 27/02	B32B 17/10
(51) G06F 3/041	H01L 27/12	B32B 27/08
(11) EP3198497	H01L 27/32	B32B 27/28
(21) EP15845310.0	(11) EP3550409	B32B 27/36
(47) 20.04.2022	(21) EP17832184.0	B32B 7/12
(87) US2015051355	(47) 20.04.2022	(11) EP2984544
31.03.2016	(87) CN2017091106	(21) EP14782387.6
(22) 22.09.2015	07.06.2018	(47) 20.04.2022
(54) METHOD AND APPARATUS FOR	(22) 30.06.2017	(87) KR2014003097
CLASSIFYING CONTACTS WITH A	(54) ARRAY SUBSTRATE AND	16.10.2014
TOUCH SENSITIVE DEVICE	MANUFACTURING METHOD	(22) 10.04.2014
(73) Qeexo, Co.	THEREFOR, AND DISPLAY PANEL	(54) POLYIMIDE COVER SUBSTRATE
(72) SCHWARZ, Julia	(73) BOE Technology Group Co., Ltd.	(73) Kolon Industries, Inc.
XIAO, Robert	Ordos Yuansheng Optoelectronics Co.,	(72) HONG, Ki Il
HARRISON, Chris	Ltd.	JUNG, Hak Gee
(31) 201462055416 P	(72) WANG, Zifeng	(31) 20130038944
(32) 25.09.2014	LIU, Hong	(32) 10.04.2013
(33) United States of America	LI, Yuanbo	(33) Korea (Republic)
(51) G06F 3/041	MA, Bo	(51) G06F 3/042
G06F 3/044	GUO, Zhixuan	G06F 3/03
(11) EP3175330	LI, Feng	G06F 3/033
(21) EP14902458.0	WANG, Fengguo	G06F 3/041
(47) 20.04.2022	WU, Xinguo	(11) EP3387516
(87) US2014056795	(31) 201611090724	(21) EP16873465.5
31.03.2016	(32) 01.12.2016	(47) 20.04.2022
(22) 22.09.2014	(33) China	(87) SE2016051229
(54) UNGROUNDED USER SIGNAL	(51) G06F 3/041	15.06.2017
COMPENSATION FOR PIXELATED	G06F 3/048	(22) 07.12.2016
SELF-CAPACITANCE TOUCH SENSOR	G06F 3/0481	(54) IMPROVED STYLUS IDENTIFICATION
PANEL	G06F 3/0482	(73) FlatFrog Laboratories AB
(73) Apple Inc.	G06F 3/0486	(72) CHRISTIANSSON, Tomas
(72) YOUSEFPOR, Marduke	G06F 3/0488	JACOBSON, Kristofer
LI, Yingxuan	(11) EP3385824	KRUS, Mattias
YAO, Weijun	(21) EP18169861.4	GILLSJÖ, David
(51) G06F 3/041	(47) 20.04.2022	(31) 1551614
G06F 3/044	(22) 07.12.2006	(32) 09.12.2015
(11) EP3465397	(54) MOBILE DEVICE AND OPERATION	(33) Sweden
(21) EP17726420.7	METHOD CONTROL AVAILABLE FOR	(51) G06F 3/042
(47) 20.04.2022	USING TOUCH AND DRAG	G06F 3/041
(87) US2017032991	(73) Samsung Electronics Co., Ltd.	H03K 17/94
07.12.2017	(72) LEE, Hyun-Jeong	H03K 17/945
(22) 17.05.2017	PARK, Joon-Ah	H03K 17/96
(54) TOUCH-SENSITIVE DISPLAY DEVICE	SOH, Byung-Seok	G06F 3/0488
(73) Microsoft Technology Licensing, LLC	(31) 20060117814	(11) EP3726353
(72) DONNELLY, Sean M.	20050122566	(21) EP20178676.1
TANG, Yingying	(32) 27.11.2006	(47) 20.04.2022
(31) 201615169551	13.12.2005	(22) 26.11.2015
(32) 31.05.2016	(33) Korea (Republic)	(54) CONTROL DEVICE AND METHOD
(33) United States of America	Korea (Republic)	AND APPARATUS INCLUDING SUCH A
(51) G06F 3/041	(51) G06F 3/041	DEVICE
G06F 3/044	G06F 3/0488	(73) Sequeris
(11) EP3361365	G06F 9/48	Falco, Jean-Louis
(21) EP17175042.5	H04M 1/72469	(72) PHILIPPE, Sébastien
(47) 20.04.2022	G06F 9/451	FALCO, Jean-Louis
(22) 08.06.2017	(11) EP3674857	(31) 1461530
(54) TOUCH APPARATUS FOR DETECTING	(21) EP19210342.2	(32) 26.11.2014
FINGER AND STYLUS	(47) 20.04.2022	(33) France
(73) Acer Incorporated	(22) 19.03.2015	(51) G06F 3/044
(72) CHEN, Chih-Chiang	(54) TOUCH EVENT PROCESSING	(11) EP3252575
KO, Chueh-Pin	METHOD AND APPARATUS, AND	(21) EP15832779.1
(31) 106104710	TERMINAL DEVICE	(47) 20.04.2022
(32) 14.02.2017	(73) Huawei Technologies Co., Ltd.	(87) CN2015083699

04.08.2016	(22) 28.05.2015	(33) Korea (Republic)
(22) 10.07.2015	(54) INPUT DISPLAY DEVICE AND INPUT DISPLAY METHOD	(51) G06F 3/0488
(54) TOUCH PANEL, DISPLAY APPARATUS, AND TOUCH DRIVING METHOD	(73) Mitsubishi Electric Corporation	G06F 1/3234
(73) Beijing BOE Optoelectronics Technology Co., Ltd.	(72) YAMAUCHI, Takashi	G06F 1/324
BOE Technology Group Co., Ltd.	MATSUBARA, Tsutomu	G06F 1/3206
(72) WANG, Haisheng	UMEKI, Yoshimichi	(11) EP2657826
YANG, Shengji	YAMAGUCHI, Takahiro	(21) EP13150427.6
XUE, Hailin	HIRAI, Masato	(47) 20.04.2022
DONG, Xue	TSURU, Naoki	(22) 07.01.2013
LIU, Yingming	IMAISHI, Akiko	(54) Mobile device and gesture determination method
ZHAO, Weijie	HIKIMA, Takanori	(73) Acer Incorporated
(31) 201510048103	(51) G06F 3/0481	(72) Ting, Kuei-Ping
(32) 29.01.2015	G06F 3/01	Yang, Chao-Kuang
(33) China	G06F 3/038	(31) 101114861
(51) G06F 3/044	G06F 3/0346	(32) 26.04.2012
G06F 3/0354	H04N 21/422	(33) Taiwan, Province of China
G06F 3/041	(11) EP2765484	(51) G06F 3/0488
G06F 3/038	(21) EP14154505.3	G06F 3/0484
(11) EP3682316	(47) 20.04.2022	(11) EP2990930
(21) EP18796544.7	(22) 10.02.2014	(21) EP15183014.8
(47) 20.04.2022	(54) Simulated touch input	(47) 20.04.2022
(87) US2018055528	(73) DISH Technologies L.L.C.	(22) 28.08.2015
25.04.2019	(72) Harris, David	(54) SCRAPED INFORMATION PROVIDING METHOD AND APPARATUS
(22) 12.10.2018	Avison-Fell, Craig	(73) Samsung Electronics Co., Ltd.
(54) ACTIVE STYLUS PAIRING WITH A DIGITIZER	Nolan, Mark	(72) PARK, Soon Sang
(73) Microsoft Technology Licensing, LLC	(31) 201313764554	KWON, Bang Hyun
(72) DEKEL, Shoham	(32) 11.02.2013	LEE, Jae Ho
(31) 201715787729	(33) United States of America	LEE, Chong Hoon
(32) 19.10.2017	(51) G06F 3/04847	KWON, Hyun Woong
(33) United States of America	G06F 8/34	KIM, Keun Soo
(51) G06F 3/044	G06F 8/20	(31) 20140114104
G06F 3/041	G06F 8/60	(32) 29.08.2014
(11) EP3561648	G06F 8/38	(33) Korea (Republic)
(21) EP18884834.5	G06F 3/0486	(51) G06F 3/06
(47) 20.04.2022	(11) EP3198416	H04L 12/24
(87) CN2018077397	(21) EP15782130.7	H04L 12/863
06.09.2019	(47) 20.04.2022	(11) EP3489815
(22) 27.02.2018	(87) US2015052637	(21) EP18207357.7
(54) SENSOR AND TOUCH DISPLAY SCREEN	31.03.2016	(47) 20.04.2022
(73) Shenzhen Goodix Technology Co., Ltd.	(22) 28.09.2015	(22) 20.11.2018
(72) LIU, Feng	(54) EFFICIENT AND INTUITIVE DATABINDING FOR MOBILE APPLICATIONS	(54) METHOD AND SYSTEM FOR LOW LATENCY DATA MANAGEMENT
ZHAO, Feng	(73) Oracle International Corporation	(73) BlackBerry Limited
(51) G06F 3/044	(72) STRAUB, Christian David	(72) LINKE, Scott Lee
H03K 17/96	BROADBENT, Liza Lyons	(31) 201715821390
G06F 3/041	LIU, Peter Tehchuan	(32) 22.11.2017
(11) EP3798809	(31) 201514865842	(33) United States of America
(21) EP19917529.0	201462055988 P	(51) G06F 3/12
(47) 20.04.2022	(32) 25.09.2015	B65H 31/30
(87) CN2019098900	26.09.2014	B65H 39/10
04.02.2021	(33) United States of America	(11) EP3213183
(22) 01.08.2019	United States of America	(21) EP15787200.3
(54) CAPACITANCE DETECTION CIRCUIT, DETECTION CHIP AND ELECTRONIC DEVICE	(51) G06F 3/0488	(47) 20.04.2022
(73) Shenzhen Goodix Technology Co., Ltd.	(11) EP2587360	(87) EP2015075092
(72) JIANG, Hong	(21) EP12190017.9	06.05.2016
(51) G06F 3/048	(47) 20.04.2022	(22) 29.10.2015
G09G 5/24	(22) 25.10.2012	(54) METHOD FOR EJECTING SHEETS FROM AN OUTPUT HOLDER OF A PRINTING DEVICE
G09G 5/26	(54) System and method for identifying inputs input to mobile device with touch panel	(73) Canon Production Printing Netherlands B.V.
(11) EP3306452	(73) Samsung Electronics Co., Ltd	(72) VAN DE HEE, Johan
(21) EP15893369.7	(72) Heo, Hoondo	BOUWMANS, Peter F.M.
(47) 20.04.2022	Lee, Heonseok	SCHOENMAKERS, Erik J.W.
(87) JP2015065431	Park, Jongdae	(31) 14191042
01.12.2016	Kim, Dongsu	(32) 30.10.2014
	(31) 20110110382	
	(32) 27.10.2011	

(33) European Patent Office (EPO)	(87) US2014052289	SHELANSKY, Andrew
(51) G06F 3/16	05.03.2015	(31) 20130168267
(11) EP3190512	(22) 22.08.2014	201313751821
(21) EP14901425.0	(54) CONCURRENT ACCESSES OF	(32) 31.12.2013
(47) 20.04.2022	DYNAMICALLY TYPED OBJECT DATA	28.01.2013
(87) KR2014010986	(73) Apple Inc.	(33) Korea (Republic)
10.03.2016	(72) PIZLO, Filip J.	United States of America
(22) 14.11.2014	(31) 201414231464	(51) G06F 8/65
(54) DISPLAY DEVICE AND OPERATING	201361872386 P	H04W 4/40
METHOD THEREFOR	(32) 31.03.2014	H04W 4/48
(73) LG Electronics Inc.	30.08.2013	H04W 4/80
(72) JEONG, Haeguen	(33) United States of America	(11) EP3332344
(31) 20140119006	United States of America	(21) EP16834009.9
(32) 05.09.2014	(51) G06F 8/41	(47) 20.04.2022
(33) Korea (Republic)	G06F 9/448	(87) US2016050730
(51) G06F 7/499	G06F 9/455	09.02.2017
(11) EP3872621	(11) EP3039537	(22) 08.09.2016
(21) EP21158917.1	(21) EP14762164.3	(54) METHODS FOR REAL TIME
(47) 20.04.2022	(47) 20.04.2022	WIRELESS ECU MONITORING AND
(22) 24.02.2021	(87) US2014052581	REPROGRAMMING
(54) LOOK AHEAD NORMALISER	05.03.2015	(73) Gintz, Brad
(73) Imagination Technologies Limited	(22) 25.08.2014	(72) WOOD, Thomas
(72) VAN BENTHEM, Casper	(54) SIZE DEPENDENT TYPE IN	(31) 201615228926
(31) 202002883	ACCESSING DYNAMICALLY TYPED	(32) 04.08.2016
(32) 28.02.2020	ARRAY OBJECTS	(33) United States of America
(33) United Kingdom	(73) Apple Inc.	(51) G06F 8/658
(51) G06F 7/544	(72) HAHNENBERG, Mark	G06F 8/654
G06N 7/00	(31) 201414280377	(11) EP3834082
G06N 5/00	201361872386 P	(21) EP19783541.6
(11) EP3851953	(32) 16.05.2014	(47) 20.04.2022
(21) EP20213267.6	30.08.2013	(87) EP2019077596
(47) 20.04.2022	(33) United States of America	07.05.2020
(22) 11.12.2020	United States of America	(22) 11.10.2019
(54) OPTIMIZATION APPARATUS,	(51) G06F 8/41	(54) MEMORY OPTIMIZED BLOCK-BASED
TEMPERATURE SETTING METHOD,	G06F 9/455	DIFFERENTIAL UPDATE ALGORITHM
AND TEMPERATURE SETTING	(11) EP3314422	(73) SHENZHEN GOODIX TECHNOLOGY
PROGRAM	(21) EP16751414.0	CO., LTD.
(73) FUJITSU LIMITED	(47) 20.04.2022	(72) FRÖHLICH, Martin
(72) KOYAMA, Jumpei	(87) US2016044533	VON BORANY, Andreas
(31) 2020004516	16.02.2017	(31) 18203273
(32) 15.01.2020	(22) 28.07.2016	(32) 30.10.2018
(33) Japan	(54) EXTENDING A VIRTUAL MACHINE	(33) European Patent Office (EPO)
(51) G06F 8/36	INSTRUCTION SET ARCHITECTURE	(51) G06F 9/30
G06F 8/34	(73) Oracle International Corporation	(11) EP3451161
G06F 11/34	(72) GOETZ, Brian	(21) EP16899930.8
(11) EP3142005	HAUPT, Michael	(47) 20.04.2022
(21) EP15834308.7	CIMADAMORE, Maurizio	(87) CN2016082016
(47) 20.04.2022	(31) 201615005448	02.11.2017
(87) CN2015086270	201562202909 P	(22) 13.05.2016
25.02.2016	(32) 25.01.2016	(54) APPARATUS AND METHOD FOR
(22) 06.08.2015	09.08.2015	EXECUTING OPERATIONS OF
(54) METHOD FOR CREATING CONTEXT-	(33) United States of America	MAXIMUM VALUE AND MINIMUM
AWARE APPLICATION AND USER	United States of America	VALUE OF VECTORS
TERMINAL	(51) G06F 8/61	(73) Cambricon Technologies Corporation
(73) Huawei Technologies Co. Ltd.	G06F 9/445	Limited
(72) MA, Qifeng	(11) EP3748492	(72) LIU, Shaoli
ZHAO, Qingwei	(21) EP20184977.5	CHEN, Tianshi
CHANG, Heng	(47) 20.04.2022	GUO, Qi
(31) 201410418503	(22) 08.01.2014	CHEN, Yunji
(32) 22.08.2014	(54) DOWNLOADING AND LAUNCHING AN	ZHI, Tian
(33) China	APP ON A SECOND DEVICE FROM A	(31) 201610266872
(51) G06F 8/41	FIRST DEVICE	(32) 26.04.2016
G06F 9/448	(73) Samsung Electronics Co., Ltd.	(33) China
G06F 9/455	(72) YANG, Nan	(51) G06F 9/30
(11) EP3039536	VISWANTHAN, Murugan	G06F 9/38
(21) EP14759421.2	XIE, Fei	(11) EP3350687
(47) 20.04.2022	GAVA, Fabio	(21) EP16775904.2
	LEE, Shiangfeng	(47) 20.04.2022

(87) US2016051402 23.03.2017	(11) EP3488339	(72) GUPTA, Saurabh
(22) 13.09.2016	(21) EP17831622.0	ZIMMER, Vincent J.
(54) STORE NULLIFICATION IN THE TARGET FIELD	(47) 20.04.2022	POORNACHANDRAN, Rajesh
(73) Microsoft Technology Licensing, LLC	(87) US2017042333 25.01.2018	(31) 201514748656
(72) SMITH, Aaron L.	(22) 17.07.2017	(32) 24.06.2015
BURGER, Douglas C.	(54) SCHEDULING INDEPENDENT AND DEPENDENT OPERATIONS FOR PROCESSING	(33) United States of America
(31) 201615060404	(73) Advanced Micro Devices, Inc.	(51) G06F 9/445
201562221003 P	(72) BORN, Richard Martin	G06N 5/00
(32) 03.03.2016	MOYER, Paul James	G06N 20/00
19.09.2015	(31) 201615213981	(11) EP3502881
(33) United States of America	(32) 19.07.2016	(21) EP18204905.6
United States of America	(33) United States of America	(47) 20.04.2022
(51) G06F 9/30	(51) G06F 9/38	(22) 07.11.2018
G06F 9/38	G06F 9/30	(54) METHOD FOR PRELOADING APPLICATION, STORAGE MEDIUM, AND TERMINAL DEVICE
G06F 9/46	G06F 3/06	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
G06T 1/20	(11) EP3493055	(72) CHEN, Yan
G06N 3/063	(21) EP18196928.8	LIU, Yaoyong
G06F 3/14	(47) 20.04.2022	(31) 201711384839
G06N 3/04	(22) 12.02.2015	(32) 20.12.2017
G06N 3/08	(54) COMMAND QUEUING	(33) China
G06T 15/00	(73) Micron Technology, Inc.	(51) G06F 9/448
G09G 5/36	(72) WARREN, Robert	G06F 9/50
(11) EP3657323	BALLUCHI, Daniele	G06F 11/14
(21) EP19218464.6	GALBO, Neal, A.	G06Q 10/06
(47) 20.04.2022	TSAI, Victor, Y	G06F 8/10
(22) 02.03.2018	CARRACIO, Danilo	G06F 8/36
(54) COMPUTE OPTIMIZATION MECHANISM	(31) 201414181089	G06F 8/30
(73) Intel Corporation	(32) 14.02.2014	H04L 41/0806
(72) Hurd, Linda L.	(33) United States of America	H04L 41/5041
Koker, Altug	(51) G06F 9/38	H04L 41/5054
Yao, Anbang	G06F 9/30	H04L 41/14
Kim, Dukhwan	G06F 11/36	(11) EP3384380
Appu, Abhishek R.	G06F 13/42	(21) EP16871141.4
Ray, Joydeep	(11) EP3350719	(47) 20.04.2022
Srinivasa, Narayan	(21) EP16775383.9	(87) SE2016050704
Chen, Feng	(47) 20.04.2022	08.06.2017
Weast, John C.	(87) US2016051423	(22) 08.07.2016
Strickland, Michael S.	23.03.2017	(54) METHOD AND APPARATUS FOR DECLARATIVE ACTION ORCHESTRATION
Tang, Ping T.	(22) 13.09.2016	(73) Telefonaktiebolaget LM Ericsson (publ)
Satish, Nadathur Rajagopalan	(54) BLOCK-BASED PROCESSOR CORE TOPOLOGY REGISTER	(72) GULLIN, Patrick
Chen, Xiaoming	(73) Microsoft Technology Licensing, LLC	(72) KARLSSON, Pär
Akhbari, Farshad	(72) BURGER, Douglas C.	KARLSSON, Stefan
MacPherson, Mike B.	SMITH, Aaron L.	(31) 2015622260884 P
Shpeisman, Tatiana	(31) 201514998146	(32) 30.11.2015
(31) 201715494905	201562221003 P	(33) United States of America
(32) 24.04.2017	(32) 23.12.2015	(51) G06F 9/451
(33) United States of America	19.09.2015	G06F 9/54
(51) G06F 9/38	(33) United States of America	(11) EP3729262
(11) EP3314399	United States of America	(21) EP18842764.5
(21) EP16736331.6	(51) G06F 9/4401	(47) 20.04.2022
(47) 20.04.2022	G06F 9/445	(87) US2018068099
(87) US2016038850	G06F 9/50	01.08.2019
29.12.2016	G06F 15/78	(22) 31.12.2018
(22) 23.06.2016	G06F 21/44	(54) FRAMEWORK FOR CONTEXTUAL NOTIFICATIONS
(54) DECOUPLED INSTRUCTION WINDOW AND OPERAND BUFFER IN A BLOCK BASED ARCHITECTURE	G06F 21/57	(73) Microsoft Technology Licensing, LLC
(73) Microsoft Technology Licensing, LLC	(11) EP3314416	(72) RAHMAN, Fahrim Ur
(72) SMITH, Aaron	(21) EP16814938.3	(31) 201815880483
GRAY, Jan	(47) 20.04.2022	(32) 25.01.2018
BURGER, Douglas, C.	(87) US2016033966	(33) United States of America
(31) 201514752724	29.12.2016	(51) G06F 9/455
(32) 26.06.2015	(22) 24.05.2016	G06F 11/36
(33) United States of America	(54) FIRMWARE BLOCK DISPATCH BASED ON FUSES	(11) EP3607441
(51) G06F 9/38	(73) INTEL Corporation	

(21) EP18718264.7	(21) EP18157523.4	(73) McAfee, LLC
(47) 20.04.2022	(47) 20.04.2022	(72) BULYGIN, Yury
(87) US2018024233	(22) 20.02.2018	MUTTIK, Igor
04.10.2018	(54) METHOD FOR CONTROLLING A	SCHMUGAR, Craig D.
(22) 26.03.2018	HOME AUTOMATION INSTALLATION,	LEONG, Robert
(54) VIRTUAL MACHINE EXECUTION	ASSOCIATED EQUIPMENT AND	HUNT, Simon
TRACING	INSTALLATION	COCHIN, Cedric
(73) Microsoft Technology Licensing, LLC	(73) Freebox	BEEK, Christiaan
(72) MOLA, Jordi	(72) CERDAN, Sébastien	(31) 201615382787
(31) 201715488282	(31) 1751364	(32) 19.12.2016
201762480408 P	(32) 21.02.2017	(33) United States of America
(32) 14.04.2017	(33) France	<hr/>
01.04.2017	(51) G06F 9/52	(51) G06F 11/14
(33) United States of America	G06F 9/48	G06F 11/34
United States of America	(11) EP3425502	G06F 11/07
<hr/>	(21) EP16896547.3	H04L 12/26
(51) G06F 9/48	(47) 20.04.2022	(11) EP3726385
G06F 9/50	(87) CN2016102055	(21) EP20156703.9
G06F 9/455	05.10.2017	(47) 20.04.2022
(11) EP3265912	(22) 13.10.2016	(22) 18.05.2016
(21) EP16710541.0	(54) TASK SCHEDULING METHOD AND	(54) RESTORING VIRTUAL NETWORK
(47) 20.04.2022	DEVICE	FUNCTION (VNF) PERFORMANCE
(87) US2016019370	(73) Huawei Technologies Co., Ltd.	VIA VNF RESET OF LIFECYCLE
15.09.2016	(72) ZHAO, Peng	MANAGEMENT
(22) 24.02.2016	CAO, Wei	(73) Apple Inc.
(54) SYSTEM AND METHOD FOR	LIU, Lei	(72) CHOU, Joey
PROVIDING AN INFINIBAND SR-	(31) 201610188139	GOOCH, Stephen
IOV VSWITCH ARCHITECTURE FOR	(32) 29.03.2016	KEDALAGUDDE, Meghashree Dattatri
A HIGH PERFORMANCE CLOUD	(33) China	(31) 201562249769 P
COMPUTING ENVIRONMENT	<hr/>	(32) 02.11.2015
(73) Oracle International Corporation	(51) G06F 11/07	(33) United States of America
(72) GRAN, Ernst Gunnar	G06F 3/12	<hr/>
JOHNSEN, Bjørn Dag	(11) EP3136239	(51) G06F 11/36
TASOULAS, Evangelos	(21) EP16157026.2	(11) EP3572944
(31) 201615050901	(47) 20.04.2022	(21) EP18202921.5
201562161078 P	(22) 23.02.2016	(47) 20.04.2022
201562129273 P	(54) RELAY APPARATUS, RELAY METHOD,	(22) 26.10.2018
(32) 23.02.2016	AND RELAY PROCESSING PROGRAM	(54) CONCURRENCY VULNERABILITY
13.05.2015	(73) FUJIFILM Business Innovation Corp.	DETECTION
06.03.2015	(72) MARUYAMA, Yasuhiro	(73) FUJITSU LIMITED
(33) United States of America	(31) 2015164608	(72) PHAN, Quoc-Sang
United States of America	(32) 24.08.2015	MURTHY, Praveen
United States of America	(33) Japan	(31) 201815988934
<hr/>	(51) G06F 11/10	(32) 24.05.2018
(51) G06F 9/50	(11) EP3475823	(33) United States of America
(11) EP3449365	(21) EP17730635.4	<hr/>
(21) EP17722946.5	(47) 20.04.2022	(51) G06F 12/02
(47) 20.04.2022	(87) US2017035713	(11) EP2880538
(87) US2017029678	28.12.2017	(21) EP13748415.0
02.11.2017	(22) 02.06.2017	(47) 20.04.2022
(22) 26.04.2017	(54) PARITY FOR INSTRUCTION PACKETS	(87) US2013052780
(54) IDENTIFICATION AND	(73) Qualcomm Incorporated	06.02.2014
RECONCILIATION OF NETWORK	(72) PLONDKE, Erich James	(22) 30.07.2013
RESOURCE INFORMATION	(31) 201615192981	(54) SYSTEM AND METHOD FOR OBJECT
(73) ServiceNow, Inc.	(32) 24.06.2016	DELETION IN PERSISTENT MEMORY
(72) MASSARENTI, Davide	(33) United States of America	USING BITMAP WINDOWS
POLINATI, Chinna Babu	<hr/>	(73) Oracle International Corporation
LIN, Hongbin	(51) G06F 11/10	(72) AHMAD, Saqib
PUVVADA, Madhavi	G06F 21/57	(31) 201313782433
GUPTA, Manish	G06F 11/14	201261677390 P
AMRADKAR, Purushottam	G06F 21/64	(32) 01.03.2013
(31) 201715497020	H04L 29/06	30.07.2012
201662327508 P	(11) EP3555789	(33) United States of America
(32) 25.04.2017	(21) EP17832844.9	United States of America
26.04.2016	(47) 20.04.2022	<hr/>
(33) United States of America	(87) US2017067190	(51) G06F 12/02
United States of America	28.06.2018	G06F 12/123
<hr/>	(22) 19.12.2017	G06F 12/126
(51) G06F 9/50	(54) INTELLIGENT BACKUP AND	G06F 9/50
H04L 12/28	VERSIONING	G06F 9/455
(11) EP3364300		(11) EP3757796
		(21) EP20164746.8

(47) 20.04.2022	(33) United Kingdom	H04H 20/42
(22) 21.03.2020	(51) G06F 13/28	H04H 60/27
(54) PHYSICAL PAGE TRACKING FOR HANDLING OVERCOMMITTED MEMORY IN A VIRTUALIZED ENVIRONMENT	G06F 13/12	H04N 21/235
(73) INTEL Corporation	G06F 13/16	H04N 21/433
(72) Opfermann, Toby E. Bahirji, Vijay Chidanand	G06F 13/32	(11) EP3113030
(31) 201916451535	(11) EP3644192	(21) EP15755686.1
(32) 25.06.2019	(21) EP18919395.6	(47) 20.04.2022
(33) United States of America	(47) 20.04.2022	(87) KR2015001768
(51) G06F 12/0868	(87) CN2018102020	03.09.2015
G06F 12/0873	27.02.2020	(22) 24.02.2015
G06F 21/62	(22) 23.08.2018	(54) METHOD FOR PROVIDING IMAGE DATA BASED ON CLOUD STREAMING, APPARATUS AND SYSTEM THEREFOR
G06F 21/78	(54) MASTER CHIP, SLAVE CHIP, AND DMA TRANSFER SYSTEM BETWEEN CHIPS	(73) SK PLANET CO., LTD.
G06F 12/0804	(73) SHENZHEN GOODIX TECHNOLOGY CO., LTD.	(72) YUN, Hongseo
G06F 12/126	(72) LI, Yifan	(31) 20140024326
(11) EP3616068	CHEN, Zekai	(32) 28.02.2014
(21) EP18702002.9	LIANG, Zhibing	(33) Korea (Republic)
(47) 20.04.2022	(51) G06F 13/38	(51) G06F 16/25
(87) US2018013136	(11) EP3627332	(11) EP3166030
01.11.2018	(21) EP19191547.9	(21) EP16197619.6
(22) 10.01.2018	(47) 20.04.2022	(47) 20.04.2022
(54) EFFICIENT OBLIVIOUS PERMUTATION	(22) 13.08.2019	(22) 07.11.2016
(73) Google LLC	(54) CONTROLLING SYSTEM FOR ELECTRIC BICYCLE AND METHOD THEREOF	(54) EXPORTING HIERARCHICAL DATA FROM A PRODUCT LIFECYCLE MANAGEMENT (PLM) SYSTEM TO A SOURCE CODE MANAGEMENT (SCM) SYSTEM
(72) PATEL, Sarvar PERSIANO, Giuseppe YEO, Kevin	(73) Hyena Inc.	(73) Dassault Systemes Americas Corp.
(31) 201762490804 P	(72) Chuang, Yu-Ting	(72) Haynes, Peter
(32) 27.04.2017	(31) 108105193	Dobinson, Ian
(33) United States of America	201862732582 P	(31) 201514935844
(51) G06F 13/16	(32) 15.02.2019	(32) 09.11.2015
G06F 12/0808	18.09.2018	(33) United States of America
G06F 12/0817	(33) Taiwan, Province of China United States of America	
(11) EP3732577	(51) G06F 15/16	(51) G06F 16/40
(21) EP18786481.4	G06F 15/173	H04W 4/02
(47) 20.04.2022	G06F 21/60	H04W 52/02
(87) US2018051912	H04L 29/08	(11) EP3543865
04.07.2019	G06F 21/62	(21) EP19172512.6
(22) 20.09.2018	G06F 16/31	(47) 20.04.2022
(54) CANCEL AND REPLAY PROTOCOL SCHEME TO IMPROVE ORDERED BANDWIDTH	G06Q 10/10	(22) 31.03.2016
(73) Advanced Micro Devices, Inc.	G06Q 30/02	(54) SYSTEM AND METHOD FOR GENERATING DYNAMIC PLAYLISTS UTILISING DEVICE CO-PRESENCE PROXIMITY
(72) MORTON, Eric Christopher KALYANASUNDHARAM, Vydhyanathan COOPER, Elizabeth M. YANG, Chen-Ping APTE, Amit P.	G06Q 50/00	(73) Spotify AB
(31) 201715856799	H04L 29/06	(72) BRAZ, Lucas M. LYNCH, Dave WATSON, Craig SLINEY, Aidan O'DRISCOLL, Brendan BOYLE, Brian
(32) 28.12.2017	(11) EP2828763	(31) 201562141396 P
(33) United States of America	(21) EP13713685.9	(32) 01.04.2015
(51) G06F 13/24	(47) 20.04.2022	(33) United States of America
(11) EP3803609	(87) US2013032751	(51) G06F 16/51
(21) EP19723171.5	26.09.2013	(11) EP2820566
(47) 20.04.2022	(22) 18.03.2013	(21) EP13755816.9
(87) GB2019051211	(54) METHOD OF MODIFYING ACCESS CONTROL FOR WEB SERVICES USING QUERY LANGUAGES	(47) 20.04.2022
28.11.2019	(73) Alcatel Lucent	(87) IB2013000328
(22) 01.05.2019	(72) MENTEN, Lawrence, E.	06.09.2013
(54) INTERRUPT CONTROLLER	(31) 201213423697	(22) 26.02.2013
(73) ARM Limited	201213423795	(54) METHODS AND APPARATUS FOR POINT CLOUD DATA MANAGEMENT
(72) HAY, Timothy Nicholas WEIDMANN, Martin TURNER, Andrew John KENNEDY, Michael Alexander	(32) 19.03.2012	(73) Trimble AB
(31) 201808587	19.03.2012	(72) TREMBLAY, Guillaume
(32) 24.05.2018	(33) United States of America United States of America	DAVID, Guillaume
	(51) G06F 15/16	
	H04N 21/44	
	H04N 7/173	
	H04W 4/02	
	H04W 8/24	
	H04N 21/442	
	H04N 21/458	

	(33) Japan	(33) China
KHENG, Samnang		
(31) 201261710718 P 201261605244 P	(51) G06F 17/18	(51) G06F 21/32
(32) 06.10.2012 01.03.2012	G06F 21/55	(11) EP3394781
(33) United States of America United States of America	G06N 20/20	(21) EP16819110.4
(51) G06F 16/9535	G06N 3/04	(47) 20.04.2022
(11) EP3349539	G06N 5/00	(87) EP2016082566
(21) EP17210601.5	G06N 7/00	29.06.2017
(47) 20.04.2022	(11) EP3588327	(22) 23.12.2016
(22) 22.10.2009	(21) EP19178728.2	(54) BIOMETRIC DEVICE
(54) CONTEXTUAL SEARCH BY A MOBILE COMMUNICATIONS DEVICE	(47) 20.04.2022	(73) Zwipe AS
(73) Rovi Technologies Corporation	(22) 06.06.2019	(72) LARSEN, Steffen
(72) Holmes, Kathleen W. Kruzeniski, Michael J. Wykes, David Henry Friedman, Jonathan D. Apfel, Darren A.	(54) SYSTEM AND METHOD FOR EVALUATING AND DEPLOYING UNSUPERVISED OR SEMI- SUPERVISED MACHINE LEARNING MODELS	(31) 201522870
(31) 433605 107921 P 107935 P 107945 P	(73) Amadeus S.A.S.	(32) 24.12.2015
(32) 30.04.2009 23.10.2008 23.10.2008 23.10.2008	(72) ACUNA AGOST, Rodrigo RENAUDIE, David ZULUAGA, Maria	(33) United Kingdom
(33) United States of America United States of America United States of America United States of America	(31) 1855567	(51) G06F 21/33
(51) G06F 17/00 G06F 11/34 G06F 11/30 G06F 11/36	(32) 22.06.2018	H04L 12/24
(11) EP3640821	(33) France	H04L 29/06
(21) EP17915968.6	(51) G06F 17/40	(11) EP3714388
(47) 20.04.2022	G01R 15/04	(21) EP18815458.7
(87) CN2017091385 03.01.2019	G01R 15/14	(47) 20.04.2022
(22) 30.06.2017	G01R 15/26	(87) US2018061895
(54) COEFFICIENT CALCULATION METHOD, COMPONENT CALLING METHOD, DEVICE, MEDIUM, SERVER, AND TERMINAL	G06F 3/153	04.07.2019
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	G06F 12/00	(22) 20.11.2018
(72) ZENG, Yuanqing	(11) EP3420478	(54) AUTHENTICATION TOKEN IN MANIFEST FILES OF RECURRING PROCESSES
(51) G06F 17/16 G06N 3/063 G06N 3/08	(21) EP17757049.6	(73) Microsoft Technology Licensing, LLC
(11) EP3543873	(47) 20.04.2022	(72) WANG, Jiahui
(21) EP18860078.7	(87) US2017018646	ZHU, Liqiang
(47) 20.04.2022	31.08.2017	ZHONG, Jingjing
(87) JP2018024923 04.04.2019	(22) 21.02.2017	(31) 201815963596
(22) 29.06.2018	(54) AUTO-ADJUSTING DATA LOG RECORD TIMESTAMPS	201762610676 P
(54) INFORMATION PROCESSING DEVICE AND INFORMATION PROCESSING METHOD	(73) Hubbell Incorporated	(32) 26.04.2018
(73) Sony Group Corporation	(72) KING, Jonathan David	27.12.2017
(72) IKEGAYA, Ryoji HIROI, Toshiyuki NAKAMURA, Akira YAMAMOTO, Makiko	(31) 201662298323 P	(33) United States of America United States of America
(31) 2017189889	(32) 22.02.2016	(51) G06F 21/41
(32) 29.09.2017	(33) United States of America	G06F 21/42
	(51) G06F 21/31	(11) EP2820588
	G06F 21/34	(21) EP13711178.7
	G06F 21/45	(47) 20.04.2022
	G06F 21/46	(87) US2013027948
	H04L 9/08	06.09.2013
	H04L 9/30	(22) 27.02.2013
	H04L 9/32	(54) SECURE SINGLE SIGN-ON
	(11) EP3309997	(73) Citrix Systems, Inc.
	(21) EP15894810.9	(72) MOCANU, Virgiliu
	(47) 20.04.2022	(31) 201213407133
	(87) CN2015095447	(32) 28.02.2012
	15.12.2016	(33) United States of America
	(22) 24.11.2015	(51) G06F 21/44
	(54) NETWORK MONITORING APPARATUS, AND REMOTE ENCRYPTION AND REMOTE ACTIVATION METHOD, DEVICE AND SYSTEM THEREFOR	G06F 21/82
	(73) Hangzhou Hikvision Digital Technology Co., Ltd.	(11) EP2916255
	(72) LI, Kui	(21) EP15153254.6
	ZHANG, Xiaoyuan	(47) 20.04.2022
	SI, Lujie	(22) 30.01.2015
	PAN, Yadong	(54) Unattended secure device authorization
	ZHU, Zhenlei	(73) NCR Corporation
	(31) 201510320504	(72) Han, Richard
	(32) 11.06.2015	Wurfel, Andrew
		(31) 201414193493
		(32) 28.02.2014
		(33) United States of America
		(51) G06F 21/44
		H04L 9/30
		H04L 9/32
		H04L 29/06

(11) EP3583534	Shimoga Prakash, Varun	18.04.2019
(21) EP18700817.2	Venkatesan, Arun	(22) 12.10.2017
(47) 20.04.2022	Jiang, Haiqing	(54) DETERMINING STATE OF
(87) GB2018050084	(31) 201414555981	AUTOMATED ASSISTANT DIALOG
23.08.2018	201461942963 P	(73) Google LLC
(22) 12.01.2018	(32) 28.11.2014	(72) RASTOGI, Abhinav
(54) ANONYMOUS ATTESTATION	21.02.2014	HAKKANI-TUR, Dilek
(73) Trustonic Limited	(33) United States of America	HECK, Larry Paul
(72) EDGINGTON, Alec Milne	United States of America	
(31) 201702722	(51) G06F 21/62	(51) G06K 9/00
(32) 20.02.2017	G06F 21/60	(11) EP2649557
(33) United Kingdom	H04L 29/06	(21) EP11794713.5
(51) G06F 21/52	(11) EP3586262	(47) 20.04.2022
(11) EP3772002	(21) EP18710658.8	(87) EP2011072174
(21) EP20187560.6	(47) 20.04.2022	14.06.2012
(47) 20.04.2022	(87) US2018019940	(22) 08.12.2011
(22) 24.07.2020	30.08.2018	(54) METHOD AND DEVICE TO SPEED UP
(54) MANAGEMENT OF TAINT	(22) 27.02.2018	FACE RECOGNITION
INFORMATION ATTACHED TO	(54) SYSTEMS AND METHODS FOR	(73) Nagravision S.A.
STRINGS	ROLE-BASED COMPUTER SECURITY	(72) DAGAEFF, Thierry
(73) SAP SE	CONFIGURATIONS	FISHWICK, Nicholas
(72) LOCH, Florian	(73) Ivanti, Inc.	ODDOU, Christophe
(31) 201916524891	(72) PETERS, Travis	(31) 421645 P
(32) 29.07.2019	DENINNO, Randy	11154824
(33) United States of America	TEMPEL, Mark Robert	(32) 10.12.2010
(51) G06F 21/56	JUNCKER, Rob	17.02.2011
H04N 1/32	(31) 201762464222 P	(33) United States of America
(11) EP3721365	(32) 27.02.2017	European Patent Office (EPO)
(21) EP18821963.8	(33) United States of America	(51) G06K 9/00
(47) 20.04.2022	(51) G06F 21/64	G06K 9/32
(87) US2018064057	H04L 9/08	(11) EP3123393
13.06.2019	H04N 21/00	(21) EP15715669.6
(22) 05.12.2018	H04N 21/235	(47) 20.04.2022
(54) METHODS, SYSTEMS AND	H04N 21/254	(87) AT2015050080
APPARATUS TO MITIGATE	H04N 21/835	01.10.2015
STEGANOGRAPHY-BASED MALWARE	H04N 21/84	(22) 27.03.2015
ATTACKS	(11) EP3671518	(54) METHOD FOR THE OPTICAL
(73) McAfee, LLC	(21) EP19219065.0	DETECTION OF SYMBOLS
(72) RUIZ, Fernando	(47) 20.04.2022	(73) Anyline GmbH
WOODWARD, Carl	(22) 20.12.2019	(72) ALBERTINI, Daniel
MATHEWS, Sherin	(54) METADATA DISTRIBUTION AND	(31) 502242014
LANCIONI, German	MANAGEMENT VIA TRANSACTIONAL	(32) 27.03.2014
(31) 201715834415	BLOCKCHAIN TECHNOLOGY	(33) Austria
(32) 07.12.2017	(73) Rovi Guides, Inc.	(51) G06K 9/00
(33) United States of America	(72) THOMPSON, Robert Barr	G06T 19/00
(51) G06F 21/57	(31) 201816228198	(11) EP2662801
G06F 21/44	(32) 20.12.2018	(21) EP13160682.4
G06F 1/24	(33) United States of America	(47) 20.04.2022
(11) EP3291121	(51) G06F 30/15	(22) 22.03.2013
(21) EP16186642.1	G06F 30/23	(54) Method and system for augmented reality
(47) 20.04.2022	(11) EP3377996	(73) Sony Interactive Entertainment Europe
(22) 31.08.2016	(21) EP16819168.2	Limited
(54) RESTORE OF HEADLESS	(47) 20.04.2022	(72) Hocking, Ian Michael
ELECTRONIC DEVICE	(87) IB2016056983	Harding, Russell
(73) Axis AB	26.05.2017	Ranyard, David
(72) Lundberg, Stefan	(22) 18.11.2016	Campbell, Diarmid Archibald
Hugosson, Fredrik	(54) DRIVELINE MODELLER	Kochi, Masami
(51) G06F 21/62	(73) Romax Technology Limited	(31) 201208265
(11) EP2911084	(72) JAMES, Barry	(32) 11.05.2012
(21) EP15155349.2	JAIN, Sharad	(33) United Kingdom
(47) 20.04.2022	(31) 201520361	(51) G06K 9/62
(22) 17.02.2015	(32) 18.11.2015	(11) EP3759649
(54) SERVICE AUTHORIZATION METHODS	(33) United Kingdom	(21) EP18800533.4
AND APPARATUSES	(51) G06F 40/30	(47) 20.04.2022
(73) Samsung Electronics Co., Ltd	(11) EP3488354	(87) EP2018079599
(72) Zhang, Xinwen	(21) EP17791525.3	10.10.2019
Xu, Jinlin	(47) 20.04.2022	(22) 29.10.2018
Srinivasan, Renuka	(87) US2017056365	

(54) OBJECT RECOGNITION FROM IMAGES USING CAD MODELS AS PRIOR	(51) G06K 19/077 H01Q 1/22	(54) SUPERCONDUCTING TUNABLE COUPLER
(73) Siemens Aktiengesellschaft	(11) EP3005243	(73) Northrop Grumman Systems Corporation
(72) ILIC, Slobodan	(21) EP14726568.0	(72) ABUTALEB, Mohamed O.
WU, Ziyang	(47) 20.04.2022	STRAND, Joel D.
ZAKHAROV, Sergey	(87) EP2014060440	NAAMAN, Ofer
PLANCHE, Benjamin	04.12.2014	PRZYBYSZ, Anthony Joseph
HUTTER, Andreas	(22) 21.05.2014	(31) 201615192756
(31) 201862653720 P	(54) LASER ABLATING STRUCTURES FOR ANTENNA MODULES FOR DUAL INTERFACE SMARTCARDS	(32) 24.06.2016
(32) 06.04.2018	(73) Féinics AmaTech Teoranta	(33) United States of America
(33) United States of America	(72) LOTYA, Mustafa	<hr/>
(51) G06K 19/06	FINN, David	(51) G06Q 10/08
G06K 1/12	(31) 201461971636 P	G06Q 10/10
G06K 7/10	201461950020 P	G06Q 50/28
G06K 7/14	201461945689 P	(11) EP3564877
(11) EP2937818	201461937541 P	(21) EP18170034.5
(21) EP13864756.5	201414173815	(47) 20.04.2022
(47) 20.04.2022	201361920737 P	(22) 30.04.2018
(87) JP2013083909	201361914996 P	(54) CARGO PORT ARRANGEMENT
26.06.2014	201361905134 P	(73) FREIGHTSAFE LTD.
(22) 18.12.2013	201314078527	Robert Bosch GmbH
(54) INFORMATION CODE, INFORMATION CODE GENERATION METHOD, INFORMATION CODE READER DEVICE, AND INFORMATION CODE USAGE SYSTEM	201314020884	(72) ANDERSON, Charles
(73) Denso Wave Incorporated	201361875046 P	ULLRICH, Frank
(72) TANAKA, Masami	201361868089 P	WEERS, Jan-Philipp
YOSHIDA, Kenichi	201361860354 P	<hr/>
WATABE, Motoaki	201361841286 P	(51) G06Q 10/08
USHIJIMA, Takao	201361827754 P	G06Q 50/00
ITO, Kunihiko	(32) 28.03.2014	(11) EP3321869
YODA, Takuya	08.03.2014	(21) EP17200390.7
(31) 2013255485	27.02.2014	(47) 20.04.2022
2013239366	09.02.2014	(22) 07.11.2017
2013195348	06.02.2014	(54) TAG BASED LOCATION
2013065835	25.12.2013	(73) Rockwell Automation Technologies, Inc.
2013010222	12.12.2013	(72) SCHMIRLER, Paul D.
2012276910	15.11.2013	NGUYEN, Thong T.
(32) 10.12.2013	13.11.2013	COLLTON, Kevin E.
19.11.2013	08.09.2013	NICOLL, Alex Laurence
20.09.2013	08.09.2013	(31) 201715719246
27.03.2013	21.08.2013	201662418514 P
23.01.2013	31.07.2013	(32) 28.09.2017
19.12.2012	29.06.2013	07.11.2016
(33) Japan	28.05.2013	(33) United States of America
Japan	(33) United States of America	United States of America
Japan	United States of America	<hr/>
Japan	United States of America	(51) G06Q 20/06
Japan	United States of America	G06Q 20/02
Japan	United States of America	G06F 21/62
Japan	United States of America	G06F 21/64
Japan	United States of America	H04L 29/06
Japan	United States of America	G06Q 20/40
Japan	United States of America	H04L 9/32
(51) G06K 19/077	United States of America	(11) EP3696708
G06K 19/07	United States of America	(21) EP20157526.3
G06K 19/18	United States of America	(47) 20.04.2022
G06K 19/073	United States of America	(22) 14.02.2020
(11) EP3814996	United States of America	(54) CRYPTOLOGIC SOVEREIGN PROFILE CONTROL AND EXCHANGE ARBITRATION
(21) EP19786263.4	United States of America	(73) Accenture Global Solutions Limited
(47) 20.04.2022	United States of America	(72) Ieto, Rodrigo Yukio
(87) AT2019060327	United States of America	Marshall, Shane R
09.04.2020	United States of America	Bidewell, Peter
(22) 04.10.2019	United States of America	Perkins, Scott W
(54) ELECTRONIC MARKING	United States of America	Miller, Patricia A
(73) Riddle & Code GmbH	United States of America	(31) 201962806887 P
(72) FÜRSTNER, Thomas	United States of America	(32) 17.02.2019
(31) PCT/AT2018/060234	United States of America	(33) United States of America
(32) 04.10.2018	United States of America	<hr/>
(33) World Intellectual Property Office (WIPO)	(51) G06N 10/00	(51) G06Q 20/20
	H03K 19/00	G06Q 20/32
	H03K 19/195	G06Q 20/00
	(11) EP3476048	H04W 52/02
	(21) EP17731378.0	
	(47) 20.04.2022	
	(87) US2017036169	
	28.12.2017	
	(22) 06.06.2017	

G07F 15/00	10.03.2016	G06T 11/00
(11) EP3306545	(22) 04.09.2015	(11) EP3693921
(21) EP17194613.0	(54) METHOD AND APPARATUS	(21) EP19155505.1
(47) 20.04.2022	FOR EFFICIENT DEPTH IMAGE	(47) 20.04.2022
(22) 03.10.2017	TRANSFORMATION	(22) 05.02.2019
(54) MOBILE PAYMENT METHOD,	(73) Qualcomm Incorporated	(54) METHOD FOR SEGMENTING METAL
ELECTRONIC DEVICE, AND	(72) WAGNER, Daniel	OBJECTS IN PROJECTION IMAGES,
EXTERNAL PAYMENT DEVICE	MULLONI, Alessandro	EVALUATION DEVICE, COMPUTER
(73) Samsung Electronics Co., Ltd.	(31) 201514845203	PROGRAM AND ELECTRONICALLY
(72) PARK, Soo-Pyoung	201462046860 P	READABLE STORAGE MEDIUM
JEONG, Seong-Hun	(32) 03.09.2015	(73) Siemens Healthcare GmbH
CHO, Kum-Hyun	05.09.2014	(72) Kunze, Holger
(31) 20160127667	(33) United States of America	Fischer, Peter
(32) 04.10.2016	United States of America	Gottschalk, Tristan
(33) Korea (Republic)	<hr/>	Kreher, Björn
(51) G06Q 40/00	(51) G06T 5/00	Manhart, Michael
G06Q 20/22	H04N 19/46	<hr/>
G06Q 20/32	H04N 19/136	(51) G06T 7/10
G06Q 20/36	(11) EP3338243	G06T 7/90
G06Q 20/40	(21) EP16779257.1	G06T 7/00
G06Q 20/38	(47) 20.04.2022	(11) EP3545495
G06Q 20/20	(87) US2016053531	(21) EP17873526.2
(11) EP3114634	30.03.2017	(47) 20.04.2022
(21) EP15758355.0	(22) 23.09.2016	(87) US2017052717
(47) 20.04.2022	(54) HIGH DYNAMIC RANGE ADAPTATION	31.05.2018
(87) US2015018740	OPERATIONS AT A VIDEO DECODER	(22) 21.09.2017
11.09.2015	(73) ARRIS Enterprises LLC	(54) A METHOD FOR UNSUPERVISED
(22) 04.03.2015	(72) MINOO, Koohyar	STAIN SEPARATION IN
(54) TRANSACTIONS UTILIZING MULTIPLE	GU, Zhouye	PATHOLOGICAL WHOLE SLIDE IMAGE
DIGITAL WALLETS	(31) 201562222715 P	(73) Agilent Technologies, Inc.
(73) Mastercard International, Inc.	(32) 23.09.2015	(72) ARBEL, Elad
(72) RADU, Cristian	(33) United States of America	BEN-DOR, Amir
(31) 201414469346	<hr/>	(31) 201615359470
201461948197 P	(51) G06T 7/00	(32) 22.11.2016
(32) 26.08.2014	G06T 7/11	(33) United States of America
05.03.2014	(11) EP3639240	<hr/>
(33) United States of America	(21) EP18734897.4	(51) G06T 7/174
United States of America	(47) 20.04.2022	G06T 7/143
<hr/>	(87) GB2018051631	G06T 7/00
(51) G06T 5/00	20.12.2018	(11) EP3864620
(11) EP3754590	(22) 14.06.2018	(21) EP19828774.0
(21) EP19754702.9	(54) A SYSTEM AND COMPUTER-	(47) 20.04.2022
(47) 20.04.2022	IMPLEMENTED METHOD FOR	(87) EP2019086789
(87) CN2019074067	SEGMENTING AN IMAGE	24.06.2021
22.08.2019	(73) Kings College London	(22) 20.12.2019
(22) 31.01.2019	(72) OURSELIN, Sebastien	(54) CORRECTING SEGMENTATION
(54) IMAGE ENHANCEMENT METHOD,	LI, Wenqi	OF MEDICAL IMAGES USING A
DATA PROCESSING DEVICE, AND	WANG, Guotai	STATISTICAL ANALYSIS OF HISTORIC
STORAGE MEDIUM	FIDON, Lucas	CORRECTIONS
(73) TENCENT TECHNOLOGY	VERCAUTEREN, Tom	(73) Brainlab AG
(SHENZHEN) COMPANY LIMITED	(31) 201709672	(72) Schmalzer, Jens
(72) GUO, Zhijiao	(32) 16.06.2017	Blumenhofer, Andreas
WANG, Liang	(33) United Kingdom	Vilsmeier, Stefan
ZHAO, Yongfei	<hr/>	<hr/>
ZHAI, Haichang	(51) G06T 7/00	(51) G06T 7/20
(31) 201810149722	G06T 7/162	(11) EP3333801
(32) 13.02.2018	(11) EP3698318	(21) EP17206285.3
(33) China	(21) EP18785648.9	(47) 20.04.2022
<hr/>	(47) 20.04.2022	(22) 08.12.2017
(51) G06T 5/00	(87) EP2018078484	(54) A SURVEILLANCE APPARATUS AND
G06T 5/50	25.04.2019	A SURVEILLANCE METHOD FOR
G06T 7/55	(22) 18.10.2018	INDICATING THE DETECTION OF
H04N 13/111	(54) SEGMENTING AN IMAGE	MOTION
H04N 13/128	(73) Koninklijke Philips N.V.	(73) Canon Kabushiki Kaisha
H04N 13/239	(72) RADICH, Dmitry	(72) MALIUK, Alexandar Andreevich
H04N 13/257	(31) 17197610	(31) 201620991
(11) EP3189495	(32) 20.10.2017	(32) 09.12.2016
(21) EP15772063.2	(33) European Patent Office (EPO)	(33) United Kingdom
(47) 20.04.2022	<hr/>	<hr/>
(87) US2015048678	(51) G06T 7/10	(51) G06T 7/33
	G06T 7/136	G01N 21/952
	G06T 7/174	G01N 21/95

(11) EP3715837	(33) United Kingdom	(31) 1857893
(21) EP20165471.2	(51) G06T 15/00	(32) 03.09.2018
(47) 20.04.2022	G06T 11/20	(33) France
(22) 05.10.2011	(11) EP3217360	(51) G07C 5/08
(54) APPARATUS AND METHOD FOR ACQUIRING A TWO-DIMENSIONAL IMAGE OF THE SURFACE OF A THREE-DIMENSIONAL OBJECT	(21) EP15856486.4	(11) EP3084676
(73) Capsugel Belgium NV	(47) 20.04.2022	(21) EP13899568.3
(72) HUMPHRIES, Mark Robson VANQUICKENBORNE, Stefaan Jaak MERRIT, Paul Antony	(87) KR2015011965 12.05.2016	(47) 20.04.2022
(31) 39113910 P	(22) 09.11.2015	(87) US2013076573 25.06.2015
(32) 08.10.2010	(54) DISPLAY DEVICE AND METHOD OF CONTROLLING DISPLAY DEVICE	(22) 19.12.2013
(33) United States of America	(73) Samsung Electronics Co., Ltd.	(54) SECURE VEHICULAR DATA MANAGEMENT WITH ENHANCED PRIVACY
(51) G06T 7/73	(72) CHOI, Soo-ryum	(73) Intel Corporation
G06T 7/579	AHN, Sang-jun	(72) SMITH, Ned M.
G06T 7/593	KIM, Jung-bum	WILLIS, Thomas G.
(11) EP3695381	CHOI, Joon-hyun	HELDT-SHELLER, Nathan
(21) EP18792803.1	PARK, Chan-min	(51) G07C 9/25
(47) 20.04.2022	PARK, Bong-hoon	H04W 4/021
(87) US2018054492	(31) 201462076726 P	H01Q 21/06
18.04.2019	(32) 07.11.2014	(11) EP3298591
(22) 05.10.2018	(33) United States of America	(21) EP16727274.9
(54) FLOOR DETECTION IN VIRTUAL AND AUGMENTED REALITY DEVICES USING STEREO IMAGES	(51) G06T 15/06	(47) 20.04.2022
(73) Microsoft Technology Licensing, LLC	G06T 17/00	(87) US2016033597
(72) BLEYER, Michael	(11) EP3278306	24.11.2016
PEKELNY, Yuri	(21) EP16714125.8	(22) 20.05.2016
MESSER, Christopher Stephen	(47) 20.04.2022	(54) ACCESS SYSTEM FOR PUBLIC ACCESS POINT AND CORRESPONDING ACCESS CONTROL METHOD
(31) 201715799918	(87) US2016022566	(73) Sensormatic Electronics LLC
201762572354 P	06.10.2016	(72) TRANI, James
(32) 31.10.2017	(22) 16.03.2016	(31) 201562193907 P
13.10.2017	(54) EFFICIENT HIERARCHY TRAVERSAL IN RAY TRACING APPLICATIONS	201562185349 P
(33) United States of America	(73) Qualcomm Incorporated	201562181434 P
United States of America	(72) OBERT, Juraj	201562164054 P
(51) G06T 7/73	(31) 201514831726	(32) 17.07.2015
G06T 7/60	201562142347 P	26.06.2015
(11) EP3309751	(32) 20.08.2015	18.06.2015
(21) EP16807312.0	02.04.2015	20.05.2015
(47) 20.04.2022	(33) United States of America	(33) United States of America
(87) JP2016065863	United States of America	United States of America
15.12.2016	(51) G06T 19/20	United States of America
(22) 30.05.2016	G06F 3/12	United States of America
(54) IMAGE PROCESSING DEVICE, METHOD, AND PROGRAM	(11) EP2800064	United States of America
(73) Sony Group Corporation	(21) EP13165956.7	(51) G07D 7/12
(72) KASHITANI Tatsuki	(47) 20.04.2022	(11) EP2490185
ABE Shinichiro	(22) 30.04.2013	(21) EP12001199.4
FUKUCHI Masaki	(54) A computer-implemented method for manipulating three-dimensional modeled objects of an assembly in a three-dimensional scene	(47) 20.04.2022
(31) 2015119627	(73) Dassault Systèmes	(22) 26.09.2007
(32) 12.06.2015	(72) Coulet, Pierre	(54) Device and method for optical examination of valuable documents
(33) Japan	Delfino, Christophe	(73) Giesecke+Devrient Currency Technology GmbH
(51) G06T 15/00	Dayde, Guillaume	(72) Bloss, Michael
G06T 1/20	(51) G07C 5/00	Clara, Martin
(11) EP3745356	G07C 5/08	Deckenbach, Wolfgang
(21) EP20176921.3	(11) EP3847629	(31) 102006045626
(47) 20.04.2022	(21) EP19755924.8	(32) 27.09.2006
(22) 27.05.2020	(47) 20.04.2022	(33) Germany
(54) CONTROLLING RENDERING OPERATIONS	(87) EP2019072513	(51) G07D 11/245
(73) Imagination Technologies Limited	12.03.2020	G07D 11/34
(72) DEMEURE, Aroun	(22) 22.08.2019	(11) EP3474243
HOWSON, John	(54) CONNECTED MEASUREMENT DEVICE FOR AN AIRCRAFT	(21) EP17197216.9
FISHWICK, Steven	(73) SAFRAN ELECTRONICS & DEFENSE	(47) 20.04.2022
(31) 201907814	(72) FANTON, Nicolas	(22) 19.10.2017
(32) 31.05.2019	COUTURIER, Emmanuel	(54) A TRANSACTION DEVICE AND A METHOD OF CURRENCY ITEM
	THIRION, Louis Théophile	
	HOFF, Rémy	

REPLENISHMENT IN A TRANSACTION DEVICE	(54) ENHANCED ALARMING WITH BACNET OBJECTS	B60W 40/04
(73) Innovative Technology Limited	(73) Siemens Industry, Inc.	(11) EP3525192
(72) Sumner, Dylan	(72) LANDOU, Bruno P.	(21) EP16918329.0
(51) G07F 9/02	RULE, Thomas	(47) 20.04.2022
G06Q 10/08	(31) 201414451655	(87) JP2016079998
(11) EP3364381	(32) 05.08.2014	12.04.2018
(21) EP18000183.6	(33) United States of America	(22) 07.10.2016
(47) 20.04.2022	(51) G08B 25/00	(54) VEHICLE ASSESSMENT METHOD, TRAVEL ROUTE CORRECTION METHOD, VEHICLE ASSESSMENT DEVICE, AND TRAVEL ROUTE CORRECTION DEVICE
(22) 20.02.2018	G08B 25/14	(73) Nissan Motor Co., Ltd.
(54) GOODS VENDING MACHINE WITH INVENTORY MAINTENANCE MEANS	(11) EP3142089	(72) AOKI, Motonobu
(73) Harting Systems GmbH	(21) EP16187571.1	FUJITA, Susumu
(72) Riechmann, Till	(47) 20.04.2022	(51) G08G 5/00
Netzel, Nikolaus	(22) 07.09.2016	G01C 23/00
Loske, Felix	(54) SYSTEM ARM NOTIFICATION BASED ON BLE POSITION	(11) EP3547284
Rabe, Florian	(73) Ademco Inc.	(21) EP19164749.4
Lübbert, Jan Patrick	(72) LI, George	(47) 20.04.2022
(31) 102017120179	WANG, Ziv	(22) 22.03.2019
102017103505	HUA, WeiFeng	(54) METHOD AND SYSTEM FOR GENERATING AN ALERT FOR AN AIRCRAFT POTENTIALLY EXCEEDING SPEED LIMITS IN RESTRICTED AIRSPACE
(32) 01.09.2017	(31) 201514851109	(73) Honeywell International Inc.
21.02.2017	(32) 11.09.2015	(72) HE, Gang
(33) Germany	(33) United States of America	FEYEREISEN, Thea L.
Germany	(51) G08G 1/01	ENGELS, Jary
(51) G07F 13/06	G08G 1/015	SAMUTHIRAPANDIAN, Subash
A47J 31/40	G08G 1/00	(31) 201815935943
B67D 1/00	(11) EP3446302	(32) 26.03.2018
(11) EP2562728	(21) EP16726841.6	(33) United States of America
(21) EP12183955.9	(47) 20.04.2022	(51) G09B 19/24
(47) 20.04.2022	(87) EP2016061793	G06F 3/0481
(22) 27.08.2008	30.11.2017	G06F 3/01
(54) Method and apparatuses for providing a selectable beverage	(22) 25.05.2016	G06F 3/0484
(73) The Coca-Cola Company	(54) METHOD, DEVICE AND ARRANGEMENT FOR TRACKING MOVING OBJECTS	(11) EP3621056
(72) Rudick, Arthur G.	(73) Yunex GmbH	(21) EP19197123.3
(31) 171698	(72) FÜREDER, Herbert	(47) 20.04.2022
970278 P	KASSLATTER, Fritz	(22) 28.02.2014
(32) 11.07.2008	(51) G08G 1/16	(54) INDICATING AN OBJECT AT A REMOTE LOCATION
06.09.2007	B60W 30/09	(73) Verily Life Sciences LLC
(33) United States of America	B60W 40/04	(72) NORDSTROM, Paul G.
United States of America	G06K 9/00	AMACKER, Matthew
(51) G08B 17/06	B60W 50/14	(31) 201313853501
G01J 1/42	B60T 7/22	201361784372 P
G01J 5/20	G01S 13/86	(32) 29.03.2013
G01J 5/02	(11) EP3407327	14.03.2013
G08B 17/10	(21) EP16886465.0	(33) United States of America
(11) EP3261072	(47) 20.04.2022	United States of America
(21) EP17174387.5	(87) JP2016085130	(51) G09C 1/00
(47) 20.04.2022	27.07.2017	(11) EP3483867
(22) 21.08.2014	(22) 28.11.2016	(21) EP17824152.7
(54) HEAT DETECTOR	(54) VEHICLE DRIVING ASSIST CONTROL METHOD AND CONTROL DEVICE	(47) 20.04.2022
(73) FireAngel Safety Technology Limited	(73) Nissan Motor Co., Ltd.	(87) JP2017024149
(72) BRIGHAM, Peter	(72) INOUE, Takuya	11.01.2018
BOLGER, Chris	GOKAN, Toshimichi	(22) 30.06.2017
(31) 201315698	SUZUKI, Tatsuya	(54) SYSTEM, DEVICE, METHOD, AND PROGRAM FOR INDEXING A SECRET-SHARED ARRAY WITH SECURE MULTIPARTY COMPUTATIONS
(32) 04.09.2013	TAMAKI, Kazuo	(73) Nippon Telegraph and Telephone Corporation
(33) United Kingdom	(31) 2016011032	(72) HAMADA, Koki
(51) G08B 19/00	(32) 22.01.2016	(31) 2016134090
G05B 15/02	(33) Japan	
G08B 25/00	(51) G08G 1/16	
G08B 25/14	B60W 40/02	
(11) EP3178077	G01C 21/34	
(21) EP15749951.8	G06T 1/00	
(47) 20.04.2022	B60W 30/095	
(87) US2015043779	B60W 30/12	
11.02.2016	B60W 40/06	
(22) 05.08.2015		

(32) 06.07.2016	(21) EP16889373.3	(54) ACTIVE NOISE CONTROL SYSTEM,
(33) Japan	(47) 20.04.2022	SETTING METHOD OF ACTIVE NOISE
(51) G09G 3/20	(87) JP2016083406	CONTROL SYSTEM, AUTOMOBILE,
G09G 3/3275	10.08.2017	AND AUDIO SYSTEM
(11) EP3629317	(22) 10.11.2016	(73) A School Corporation Kansai University
(21) EP19198786.6	(54) DISPLAY DEVICE	Alpine Electronics, Inc.
(47) 20.04.2022	(73) NTT Docomo, Inc.	(72) Tschì, Ryosuke
(22) 20.09.2019	(72) OHATA, Maki	Kajikawa, Yoshinobu
(54) OLED DISPLAYING METHOD AND	TAGAWA, Kinya	(31) 2018243647
DEVICE	KIMURA, Shinji	(32) 26.12.2018
(73) Beijing Xiaomi Mobile Software Co., Ltd.	TAKIMOTO, Makoto	(33) Japan
(72) GAO, Jing	(31) 2016020987	(51) G10K 11/178
(31) 201811141298	(32) 05.02.2016	B60R 11/02
(32) 28.09.2018	(33) Japan	(11) EP2950305
(33) China	(51) G10D 13/02	(21) EP14743643.0
(51) G09G 3/36	G10D 13/16	(47) 20.04.2022
G02F 1/133	(11) EP3629322	(87) JP2014000269
G09G 3/20	(21) EP19199510.9	31.07.2014
(11) EP3061083	(47) 20.04.2022	(22) 21.01.2014
(21) EP13896078.6	(22) 25.09.2019	(54) ACTIVE NOISE REDUCTION DEVICE
(47) 20.04.2022	(54) DRUM	(73) Panasonic Intellectual Property
(87) IB2013059505	(73) Sguera, Francesco Paolo	Management Co., Ltd.
30.04.2015	(72) Sguera, Francesco Paolo	(72) KAITOU, Mitsuru
(22) 21.10.2013	(31) 201800008907	TANI, Mitsuhiro
(54) A CONTROL UNIT FOR A SEGMENT	(32) 25.09.2018	FUNAYAMA, Toshiyuki
LIQUID CRYSTAL DISPLAY AND A	(33) Italy	(31) 2013012832
METHOD THEREOF	(51) G10H 1/00	(32) 28.01.2013
(73) NXP USA, Inc.	G10H 1/36	(33) Japan
(72) SINGER, Stefan	G10L 13/033	(51) G10L 15/04
FELLINGER, Viktor	(11) EP3886084	G10L 15/08
(51) G09G 3/36	(21) EP21175335.5	G10L 21/04
G09G 3/20	(47) 20.04.2022	G10L 15/26
G11C 19/18	(22) 20.06.2019	G10L 25/87
G11C 19/28	(54) ELECTRONIC MUSICAL INSTRUMENT,	G06K 9/00
(11) EP3608901	ELECTRONIC MUSICAL INSTRUMENT	G10L 15/22
(21) EP17861186.9	CONTROL METHOD	G10L 15/18
(47) 20.04.2022	(73) Casio Computer Co., Ltd.	(11) EP3570275
(87) CN2017106517	(72) NAKAMURA, Atsushi	(21) EP17892640.8
11.10.2018	OTA, Fumiaki	(47) 20.04.2022
(22) 17.10.2017	SETOGUCHI, Masaru	(87) KR2017013397
(54) SHIFT BUFFER CIRCUIT, GATE	DANJYO, Makoto	26.07.2018
DRIVING CIRCUIT, DISPLAY PANEL,	(31) 2018118055	(22) 23.11.2017
DISPLAY DEVICE AND DRIVING	(32) 21.06.2018	(54) METHOD FOR SENSING END
METHOD	(33) Japan	OF SPEECH, AND ELECTRONIC
(73) BOE Technology Group Co., Ltd.	(51) G10K 9/22	APPARATUS IMPLEMENTING SAME
(72) SHANG, Guangliang	G01S 7/521	(73) Samsung Electronics Co., Ltd.
IM, Yun Sik	G01S 15/931	(72) KIM, Yong Ho
YAO, Xing	(11) EP3086887	KIM, Sunah
HUANG, Yinglong	(21) EP14821524.7	JOO, Gahyun
ZHENG, Haoliang	(47) 20.04.2022	JANG, Say
KIM, Jiha	(87) EP2014076559	PATERIYA, Sourabh
LV, Jing	02.07.2015	HWANG, Sang-Woong
HAN, Seung Woo	(22) 04.12.2014	(31) 20170007951
HAN, Mingfu	(54) METHOD FOR PRODUCING AN	(32) 17.01.2017
YUAN, Lijun	ULTRASONIC SENSOR FOR A MOTOR	(33) Korea (Republic)
WANG, Zhichong	VEHICLE	(51) G10L 15/22
DONG, Xue	(73) Valeo Schalter und Sensoren GmbH	(11) EP3451328
(31) 201710218273	(72) HAMM, Wolfgang	(21) EP18189541.8
(32) 05.04.2017	WEHLING, Hans-Wilhelm	(47) 20.04.2022
(33) China	(31) 102013022061	(22) 17.08.2018
(51) G09G 5/00	(32) 23.12.2013	(54) METHOD AND APPARATUS FOR
G06F 3/041	(33) Germany	VERIFYING INFORMATION
G06F 3/0481	(51) G10K 11/178	(73) Shanghai Xiaodu Technology Co., Ltd.
G06F 3/0484	(11) EP3675120	Baidu Online Network Technology
G09F 9/00	(21) EP19218860.5	(Beijing) Co., Ltd.
G09F 9/30	(47) 20.04.2022	(72) LI, Lan
G06F 1/16	(22) 20.12.2019	WANG, Wenyu
(11) EP3401898		MU, Yang

(31) 201710757507	(22) 23.11.2018	31.03.2016
(32) 29.08.2017	(54) SYSTEMS AND METHODS FOR	(22) 08.09.2015
(33) China	ENCODING AN AUDIO SIGNAL	(54) CMOS ANALOG MEMORIES UTILIZING
(51) G10L 15/22	USING CUSTOM PSYCHOACOUSTIC	FERROELECTRIC CAPACITORS
G10L 15/06	MODELS	(73) Radiant Technologies, Inc.
G10L 15/18	(73) Mimi Hearing Technologies GmbH	(72) EVANS, JR. Joseph T.
G06N 5/02	(72) Clark, Nicholas R.	(31) 201414498911
G06F 40/295	(31) 201862721417 P	(32) 26.09.2014
G06F 40/30	201862719919 P	(33) United States of America
G06N 7/00	201862701350 P	(51) G11C 16/14
G06N 3/04	(32) 22.08.2018	G11C 16/04
(11) EP3652733	20.08.2018	G11C 16/16
(21) EP18740057.7	20.07.2018	G11C 16/08
(47) 20.04.2022	(33) United States of America	G11C 16/34
(87) US2018038658	United States of America	(11) EP3369094
28.02.2019	United States of America	(21) EP16860454.4
(22) 21.06.2018	(51) G10L 21/0316	(47) 20.04.2022
(54) CONTEXTUAL SPOKEN LANGUAGE	H03G 5/02	(87) US2016052474
UNDERSTANDING IN A SPOKEN	H03G 9/00	04.05.2017
DIALOGUE SYSTEM	H03G 9/02	(22) 19.09.2016
(73) Microsoft Technology Licensing, LLC	H04M 1/60	(54) SEGMENTED ERASE IN MEMORY
(72) MCNAMARA, Andrew James	H04M 3/40	(73) Intel Corporation
HE, Jing	H04M 3/42	(72) KALAVADE, Pranav
LIN, Xihui	H04R 25/00	SANDA, Hiroyuki
(31) 201715687202	H04M 1/72454	PARAT, Krishna K.
(32) 25.08.2017	H04M 1/72478	RAJWADE, Shantanu R.
(33) United States of America	(11) EP3614379	GODA, Akira
(51) G10L 15/28	(21) EP19163135.7	(31) 201514922611
G10L 15/00	(47) 20.04.2022	(32) 26.10.2015
(11) EP3172729	(22) 15.03.2019	(33) United States of America
(21) EP15824083.8	(54) SYSTEMS AND METHODS FOR	(51) G16B 20/10
(47) 20.04.2022	ADAPTION OF A TELEPHONIC AUDIO	G16B 30/10
(87) US2015042046	SIGNAL	(11) EP3191993
28.01.2016	(73) Mimi Hearing Technologies GmbH	(21) EP15771527.7
(22) 24.07.2015	(72) KLIMCZAK, Ryan	(47) 20.04.2022
(54) TEXT RULE BASED MULTI-ACCENT	SKRIBANOWITZ, Philipp	(87) EP2015070902
SPEECH RECOGNITION WITH SINGLE	CLARK, Nicholas R.	17.03.2016
ACOUSTIC MODEL AND AUTOMATIC	(31) 201862719919 P	(22) 11.09.2015
ACCENT DETECTION	(32) 20.08.2018	(54) DETECTING REPEAT EXPANSIONS
(73) Harman International Industries,	(33) United States of America	WITH SHORT READ SEQUENCING
Incorporated	(51) G10L 21/038	DATA
(72) PASHINE, Rajat	(11) EP2951826	(73) Illumina Cambridge Limited
(31) 3618CH2014	(21) EP14702224.8	(72) EBERLE, Michael A.
(32) 24.07.2014	(47) 20.04.2022	SHAW, Richard
(33) India	(87) EP2014051603	(31) 201462049925 P
(51) G10L 19/008	07.08.2014	(32) 12.09.2014
(11) EP3489953	(22) 28.01.2014	(33) United States of America
(21) EP18196350.5	(54) APPARATUS AND METHOD FOR	(51) G16B 35/10
(47) 20.04.2022	GENERATING A FREQUENCY	G16B 45/00
(22) 22.06.2015	ENHANCEMENT AUDIO SIGNAL	G16C 99/00
(54) DETERMINING A LOWEST INTEGER	USING AN ENERGY LIMITATION	G16B 30/00
NUMBER OF BITS REQUIRED	OPERATION	(11) EP3245605
FOR REPRESENTING NON-	(73) Fraunhofer-Gesellschaft zur Förderung	(21) EP16737834.8
DIFFERENTIAL GAIN VALUES FOR	der angewandten Forschung e.V.	(47) 20.04.2022
THE COMPRESSION OF AN HOA DATA	(72) HELMRICH, Christian	(87) US2016013290
FRAME REPRESENTATION	MULTRUS, Markus	21.07.2016
(73) Dolby International AB	DISCH, Sascha	(22) 13.01.2016
(72) KRUEGER, Alexander	SCHMIDT, Konstantin	(54) SYSTEMS AND METHODS FOR
KORDON, Sven	GEIGER, Ralf	VISUALIZING STRUCTURAL
(31) 14306026	(31) 201361758090 P	VARIATION AND PHASING
(32) 27.06.2014	(32) 29.01.2013	INFORMATION
(33) European Patent Office (EPO)	(33) United States of America	(73) 10X Genomics, Inc.
(51) G10L 19/02	(51) G11C 11/22	(72) WONG, Alexander
G10L 19/032	G11C 11/56	STAFFORD, David
H04R 25/00	(11) EP3198604	SCHNALL-LEVIN, Michael
(11) EP3598440	(21) EP15843354.0	(31) 201562120873 P
(21) EP18208017.6	(47) 20.04.2022	201562102926 P
(47) 20.04.2022	(87) US2015049004	(32) 25.02.2015

13.01.2015	(47) 20.04.2022	H01F 27/32
(33) United States of America	(87) EP2017057352	H01F 37/00
United States of America	05.10.2017	(11) EP3747024
(51) G16B 50/50	(22) 29.03.2017	(21) EP19704397.9
(11) EP3526709	(54) BAR-TYPE PARAMETER ADJUSTMENT	(47) 20.04.2022
(21) EP16790894.6	ELEMENTS	(87) GB2019050246
(47) 20.04.2022	(73) Gambro Lundia AB	08.08.2019
(87) EP2016074297	(72) TORVIN, Bendik	(22) 30.01.2019
19.04.2018	NILSSON, Roger	(54) IMPROVED CENTRAL COLUMN
(22) 11.10.2016	(31) 1650432	DESIGNS FOR TOKAMAKS
(54) EFFICIENT DATA STRUCTURES FOR	(32) 01.04.2016	(73) Tokamak Energy Ltd
BIOINFORMATICS INFORMATION	(33) Sweden	(72) LANGTRY, Tony
REPRESENTATION	(51) G16H 40/63	SLADE, Robert
(73) Genomsys SA	G16H 10/60	KRUIP, Marcel
(72) ZOIA, Giorgio	A61B 5/00	(31) 201801545
RENZI, Daniele	(11) EP2766834	(32) 31.01.2018
(51) G16H 10/60	(21) EP12784143.5	(33) United Kingdom
(11) EP3662483	(47) 20.04.2022	(51) G21C 17/013
(21) EP17749184.2	(87) US2012060109	B08B 9/00
(47) 20.04.2022	18.04.2013	F16L 55/46
(87) EP2017069859	(22) 12.10.2012	G02B 23/24
07.02.2019	(54) MEDICAL MONITORING HUB	H01F 27/04
(22) 04.08.2017	(73) Masimo Corporation	H01F 27/12
(54) PATIENT RECRUITMENT SYSTEM	(72) KIANI, Massi, Joe E.	(11) EP3552214
(73) Clinerion Ltd.	INDORF, Keith, Ward	(21) EP17844621.7
(72) WALTER, Andreas	AL-ALI, Ammar	(47) 20.04.2022
CLAESSON, Ulf	SAMPATH Anand	(87) IB2017001643
BODENMANN, Bernhard	BARKER, Nicholas, Evan	14.06.2018
STRZEPKA, Lukasz	CHA, Sungwhan	(22) 07.12.2017
ARONSKY, Dominik	MUHSIN, Bilal	(54) LIQUID TANK INSPECTION
(51) G16H 20/13	TRIMAN, Benjamin	INCLUDING DEVICE FOR LAUNCHING
(11) EP3739591	KINAST, Eric, Karl	SUBMERSIBLE
(21) EP20175108.8	(31) 201261703773 P	(73) Hitachi Energy Switzerland AG
(47) 20.04.2022	201261597120 P	(72) EAKINS, William
(22) 15.05.2020	201161547577 P	ZHANG, Biao
(54) DRUG DELIVERY DEVICE WITH	201161547017 P	PATEL, Poorvi
ELECTRONICS	(32) 20.09.2012	SALM, Andrew
(73) Norton (Waterford) Limited	09.02.2012	COLE, Gregory
(72) CALDERON OLIVERAS, Enrique	14.10.2011	SHAH, Harshang
BUCK, Daniel	13.10.2011	CHOI, Sanguen
(31) 201962849552 P	(33) United States of America	ROSSANO, Gregory
(32) 17.05.2019	United States of America	LASKO, Daniel
(33) United States of America	United States of America	CHEIM, Luiz
(51) G16H 20/30	United States of America	FUHLBRIGGE, Thomas
G16H 40/63	(51) G16H 40/63	(31) 201662431334 P
A63B 71/06	G16H 20/70	(32) 07.12.2016
A63B 24/00	G16H 10/60	(33) United States of America
(11) EP3211552	B60W 50/00	(51) G21C 19/40
(21) EP17157559.0	G16H 40/67	G21F 5/14
(47) 20.04.2022	(11) EP2819903	G21F 5/06
(22) 23.02.2017	(21) EP13754640.4	G21F 5/012
(54) EXERCISE INFORMATION PROVIDING	(47) 20.04.2022	G21F 5/12
METHOD AND ELECTRONIC DEVICE	(87) KR2013001637	G21F 5/008
SUPPORTING THE SAME	06.09.2013	B65D 19/06
(73) Samsung Electronics Co., Ltd	(22) 28.02.2013	B65D 19/08
(72) KIM, Geun Woo	(54) VEHICLE CONTROL APPARATUS	(11) EP3167453
KONG, Ji Young	AND METHOD USING PRIVATE	(21) EP15818729.4
KIM, Jeong Yun	MEDICAL INFORMATION, AND MOBILE	(47) 20.04.2022
HAN, Seung Wok	TERMINAL	(87) US2015018787
KIM, Sang Mi	(73) Samsung Electronics Co., Ltd.	14.01.2016
(31) 20160021414	(72) KIM, Jun-Hyung	(22) 04.03.2015
(32) 23.02.2016	LEE, Jong-Hyo	(54) SHIELDED PACKAGING SYSTEM FOR
(33) Korea (Republic)	SO, Young-Wan	RADIOACTIVE WASTE
(51) G16H 40/63	(31) 20120020320	(73) P&T Global Solutions, LLC
G06F 3/0484	(32) 28.02.2012	(72) LEHNERT, Robert Allen
(11) EP3436996	(33) Korea (Republic)	SISLEY, Steven Edward
(21) EP17714200.7	(51) G21B 1/05	THOMAS, Brandon Damon
	H01F 6/06	(31) 201414328578

(32) 10.07.2014	(31) 201821014176	H01G 11/36
(33) United States of America	(32) 13.04.2018	H01G 11/86
(51) H01B 1/02	(33) India	C01B 32/198
H01B 1/04	(51) H01F 7/16	H01G 11/32
(11) EP3676857	H01F 7/18	C09D 5/24
(21) EP18769500.2	(11) EP3264431	C01B 32/23
(47) 20.04.2022	(21) EP17178534.8	C01B 32/192
(87) IB2018056271	(47) 20.04.2022	H01G 11/60
07.03.2019	(22) 28.06.2017	H01G 11/52
(22) 20.08.2018	(54) BISTABLE LINEAR ELECTROMAGNET	H01G 11/64
(54) A WIRE-DRAWING METHOD AND SYSTEM	(73) Safran Landing Systems	(11) EP3394868
(73) Ultra Conductive Copper Company, Inc.	(72) COUSTENOBLE, Steve	(21) EP16879927.8
(72) ADAMS, Horst Jakob	MONSAINT, Laurent	(47) 20.04.2022
(31) 201715691047	DURAND, Guillaume	(87) US2016067468
(32) 30.08.2017	(31) 1656314	29.06.2017
(33) United States of America	(32) 01.07.2016	(22) 19.12.2016
(51) H01B 11/10	(33) France	(54) CELLULAR GRAPHENE FILMS
(11) EP3905281	(51) H01F 27/32	(73) THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
(21) EP21170770.8	H01F 27/12	(72) SHAO, Yuanlong
(47) 20.04.2022	G01R 31/00	KANER, Richard, Barry
(22) 27.04.2021	G01N 33/28	(31) 201662428608 P
(54) COMMUNICATION CABLE AND WIRE HARNESS	(11) EP3652761	201562271115 P
(73) Yazaki Corporation	(21) EP18831255.7	(32) 01.12.2016
(72) SHIMIZU, Toshiharu	(47) 20.04.2022	22.12.2015
(31) 2020080185	(87) AU2018050707	(33) United States of America
(32) 30.04.2020	17.01.2019	United States of America
(33) Japan	(22) 09.07.2018	(51) H01G 11/74
(51) H01B 19/04	(54) SYSTEM AND METHOD OF DETERMINING AGE OF A TRANSFORMER	H01G 11/78
H01B 19/02	(73) Aurtra Pty Ltd	H01G 11/70
(11) EP3830846	(72) HARRIS, Richard Allen	H01G 11/82
(21) EP19752149.5	(31) 2017902684	(11) EP3246930
(47) 20.04.2022	(32) 09.07.2017	(21) EP15878116.1
(87) EP2019070914	(33) Australia	(47) 20.04.2022
06.02.2020	(51) H01F 27/33	(87) KR2015009629
(22) 02.08.2019	H01F 37/00	21.07.2016
(54) METHOD OF APPLYING HYDROPHILIC COATINGS	(11) EP3628102	(22) 14.09.2015
(73) Katholieke Universiteit Leuven	(21) EP18749637.7	(54) ELECTRIC ENERGY STORAGE DEVICE HAVING IMPROVED TERMINAL STRUCTURE
(72) PFEIFFER, Helge	(47) 20.04.2022	(73) LS Materials Co., Ltd.
WEVERS, Martine	(87) US2018039886	(72) KO, Hyun-Seok
(31) 201812602	03.01.2019	KIM, Dong-Sup
(32) 02.08.2018	(22) 28.06.2018	YOON, Yu-Il
(33) United Kingdom	(54) NOISE ATTENUATING BARRIER FOR AIR-CORE DRY-TYPE REACTOR	PARK, Kyeong-Hoon
(51) H01F 5/00	(73) Siemens Energy Global GmbH & Co. KG	KANG, Ji-Eun
H01F 27/28	(72) SALUBRO, Sigfrido	LEE, Ha-Young
H01F 5/04	ALVES, Sean	SHIN, Dong-Il
H01F 41/10	(31) 201715637550	BAE, Sang-Hyun
H01B 5/06	(32) 29.06.2017	(31) 20150006832
H01J 37/32	(33) United States of America	(32) 14.01.2015
H01J 37/08	(51) H01G 4/38	(33) Korea (Republic)
(11) EP3553797	H01G 4/32	(51) H01H 13/16
(21) EP18175976.2	H01G 4/228	B60N 2/00
(47) 20.04.2022	H01G 4/14	H01H 13/48
(22) 05.06.2018	(11) EP3561828	B60R 21/015
(54) A METHOD OF MANUFACTURING RADIO FREQUENCY (RF) COIL MULTI-DRIVER RF BASED ION SOURCE	(21) EP16924879.6	H01H 13/06
(73) Institute for Plasma Research	(47) 20.04.2022	(11) EP3526806
(72) PATEL, Milind Kumar	(87) ES2016070927	(21) EP17804792.4
BANDYOPADHYAY, Mainak	28.06.2018	(47) 20.04.2022
GAHLAUT, Agrajit	(22) 22.12.2016	(87) DE2017000330
MUVVALA, Venkata Nagaraju	(54) CYLINDRICAL MONOPHASIC CAPACITOR FOR HIGH VOLTAGES	19.04.2018
Rotti, Chandramouli	(73) RTR Energia, S.L.	(22) 29.09.2017
JOSHI, Jaydeep	(72) NUÑEZ-BARRANCO PATIÑO, Cesar	(54) SEAT OCCUPANCY DETECTOR
CHAKRABORTY, Arun Kumar	(51) H01G 11/24	(73) SCHERDEL Marienberg GmbH
PARMAR, Deepak Kumar	H01G 11/26	(72) SEITENGLANZ, Jan
		RIESS, Mirko
		FIEDLER, Thomas

(31) 202016006403 U	(72) BAUMGÄRTNER, Klaus-Martin	(47) 20.04.2022
(32) 13.10.2016	BAARS, Daniel	(87) IB2012053278
(33) Germany	REICHMANN, Markus	03.01.2013
(51) H01H 33/664	VOIT, Niko	(22) 28.06.2012
(11) EP3780057	(31) 102017121731	(54) SEMICONDUCTOR STOCKER
(21) EP20190593.2	(32) 19.09.2017	SYSTEMS AND METHODS.
(47) 20.04.2022	(33) Germany	(73) Brooks Automation (Germany) GmbH
(22) 11.08.2020	(51) H01L 21/02	(72) REBSTOCK, Lutz
(54) COIL-TYPE AXIAL MAGNETIC FIELD	C23C 16/458	(31) 201161501792 P
CONTACT ASSEMBLY FOR VACUUM	C30B 25/12	(32) 28.06.2011
INTERRUPTER	C30B 31/14	(33) United States of America
(73) Eaton Intelligent Power Limited	H01L 21/687	(51) H01L 21/673
(72) MOHR, Darron R.	C30B 29/06	B65G 1/14
ZHOU, Xin	(11) EP3469624	H01L 21/677
BALASUBRAMANIAN, Ganesh Kumar	(21) EP17728487.4	(11) EP3343597
SMITH, Eric D.	(47) 20.04.2022	(21) EP16841269.0
LI, Wangpei	(87) EP2017063089	(47) 20.04.2022
CAMPBELL, Louis G.	14.12.2017	(87) JP2016069770
PATHAK, Mrinalini	(22) 31.05.2017	09.03.2017
(31) 201916572720	(54) SUSCEPTOR FOR HOLDING	(22) 04.07.2016
201962885571 P	A SEMICONDUCTOR WAFER,	(54) STORAGE DEVICE AND STORAGE
(32) 17.09.2019	SEMICONDUCTOR WAFER AND	METHOD
12.08.2019	MANUFACTURING METHOD	(73) Murata Machinery, Ltd.
(33) United States of America	(73) Siltronic AG	(72) TOMINAGA, Tadamasao
United States of America	(72) HABERECHT, Jörg	MURATA, Masanao
(51) H01H 36/00	(31) 102016210203	(31) 2015168594
F24C 7/08	(32) 09.06.2016	(32) 28.08.2015
(11) EP3410456	(33) Germany	(33) Japan
(21) EP18173341.1	(51) H01L 21/336	(51) H01L 21/677
(47) 20.04.2022	H01L 29/78	H01L 21/67
(22) 18.05.2018	H01L 29/06	(11) EP3750180
(54) OPERATING DEVICE FOR A	H01L 29/16	(21) EP19706237.5
DOMESTIC APPLIANCE WITH	(11) EP2551912	(47) 20.04.2022
MOVABLE LOCKING MAGNET IN	(21) EP12177404.6	(87) DE2019100123
AN OPERATING ELEMENT AND	(47) 20.04.2022	15.08.2019
HOUSEHOLD APPLIANCE	(22) 20.07.2012	(22) 06.02.2019
(73) BSH Hausgeräte GmbH	(54) A silicon-carbide mosfet cell structure	(54) LOAD PORT FOR A SUBSTRATE
(72) Has, Uwe	and method for forming same	CONTAINER AND DEVICE WITH A
(31) 102017209129	(73) General Electric Company	LOAD PORT
(32) 31.05.2017	(72) Losee, Peter	(73) Beier, Uwe
(33) Germany	Stum, Zachary	(72) Beier, Uwe
(51) H01H 50/02	McMahon, James	(31) 102018102762
B60R 16/023	Arthur, Stephen Daley	(32) 07.02.2018
H01H 50/04	Matocha, Kevin	(33) Germany
H05K 5/00	Sandvik, Peter	(51) H01L 21/683
(11) EP3462472	(31) 201113190723	H01L 21/687
(21) EP17398004.6	(32) 26.07.2011	(11) EP3073521
(47) 20.04.2022	(33) United States of America	(21) EP14863599.8
(22) 29.09.2017	(51) H01L 21/50	(47) 20.04.2022
(54) SEAL HOUSING FOR AN ELECTRICAL	H01L 33/00	(87) JP2014080908
DEVICE AND SEALED RELAY USING	(11) EP3005409	28.05.2015
THE SEAL HOUSING	(21) EP14733236.5	(22) 21.11.2014
(73) Tyco Electronics Componentes	(47) 20.04.2022	(54) ELECTROSTATIC CHUCK
Electromecânicos Lda	(87) FR2014051306	(73) Kyocera Corporation
(72) Leal, Nuno	11.12.2014	(72) HORIUCHI, Masahiko
Sandoval, Luís	(22) 02.06.2014	(31) 2013241907
(51) H01J 37/32	(54) METHOD FOR DIRECT METAL	(32) 22.11.2013
A23L 3/01	BONDING	(33) Japan
H05B 6/70	(73) Commissariat à l'Énergie Atomique et	(51) H01L 21/762
(11) EP3685424	aux Énergies Alternatives	(11) EP2538438
(21) EP18782324.0	(72) BAUDIN, Floriane	(21) EP12173176.4
(47) 20.04.2022	DI CIOCCIO, Léa	(47) 20.04.2022
(87) EP2018075065	(31) 1355043	(22) 22.06.2012
28.03.2019	(32) 03.06.2013	(54) Method for fabricating a semiconductor
(22) 17.09.2018	(33) France	structure with temporary bonding
(54) DEVICE FOR TREATING A PRODUCT	(51) H01L 21/673	(73) Soitec
WITH MICROWAVES	(11) EP2727137	(72) Letertre, Fabrice
(73) Muegge GmbH	(21) EP12751112.9	Landru, Didier

(31) 1155548	(54) INTEGRATED DEVICE PACKAGE	(21) EP19188539.1
(32) 23.06.2011	COMPRISSING BRIDGE IN LITHO-	(47) 20.04.2022
(33) France	ETCHABLE LAYER	(22) 26.07.2019
(51) H01L 23/31	(73) Qualcomm Incorporated	(54) DISPLAY APPARATUS
H05K 1/18	(72) WE, Hong Bok	(73) Seoul National University R & DB
H01L 23/538	LEE, Jae Sik	Foundation
(11) EP3483929	KIM, Dong Wook	(72) YOON, Euijoon
(21) EP17200694.2	GU, Shiqun	LEE, Seungmin
(47) 20.04.2022	(31) 201514832363	KIM, Jongmyeong
(22) 08.11.2017	(32) 21.08.2015	(31) 20180087962
(54) COMPONENT CARRIER WITH	(33) United States of America	(32) 27.07.2018
ELECTRICALLY CONDUCTIVE	(51) H01L 25/065	(33) Korea (Republic)
AND INSULATING LAYERS AND A	(11) EP3547364	(51) H01L 25/075
COMPONENT EMBEDDED THEREIN	(21) EP19150914.0	H01L 33/50
AND MANUFACTURING METHOD	(47) 20.04.2022	H01L 33/00
THEREOF	(22) 09.01.2019	F21Y 115/10
(73) AT & S Austria Technologie &	(54) SEMICONDUCTOR CHIP AND	F21Y 113/13
Systemtechnik Aktiengesellschaft	SEMICONDUCTOR PACKAGE	F21K 9/60
(72) Ifis, Abderrazzaq	INCLUDING THE SAME	F21K 9/00
Schrittwieser, Wolfgang	(73) Samsung Electronics Co., Ltd.	(11) EP3511618
Vockenberger, Christian	(72) KIM, Kilsoo	(21) EP17912358.3
(51) H01L 23/36	OH, Kyung Suk	(47) 20.04.2022
H01L 23/373	OH, Seong Hwan	(87) JP2017039073
(11) EP3624182	(31) 20180034454	09.05.2019
(21) EP18193912.5	(32) 26.03.2018	(22) 30.10.2017
(47) 20.04.2022	(33) Korea (Republic)	(54) LIGHT-EMITTING DEVICE AND
(22) 12.09.2018	(51) H01L 25/065	LIGHTING DEVICE
(54) POWER SEMICONDUCTOR MODULE	H01L 25/18	(73) Sanken Electric Co., Ltd.
ARRANGEMENT, SUBSTRATE	H01L 25/00	(72) UENO, Takaya
ARRANGEMENT, AND METHOD FOR	H01L 23/00	MUROFUSHI, Hitoshi
PRODUCING THE SAME	H01L 23/48	(51) H01L 25/16
(73) Infineon Technologies AG	H01L 21/768	H01L 51/56
(72) Hohlfeld, Olaf	H01L 23/31	H01L 29/786
(51) H01L 23/49	H01L 23/367	H01L 51/52
H01L 23/00	H01L 21/56	H01L 27/32
(11) EP3425665	H01L 23/498	H01L 21/683
(21) EP18187935.4	(11) EP3149770	H01L 23/544
(47) 20.04.2022	(21) EP15800355.8	(11) EP3257073
(22) 18.07.2011	(47) 20.04.2022	(21) EP15851611.2
(54) METHOD FOR THE PRODUCTION OF	(87) US2015032216	(47) 20.04.2022
A BONDING WIRE	03.12.2015	(87) CN2015089923
(73) Heraeus Deutschland GmbH & Co. KG	(22) 22.05.2015	18.08.2016
(72) DICK, Jürgen	(54) INTERCONNECT STRUCTURE	(22) 18.09.2015
PRENOSIL, Peter	WITH REDUNDANT ELECTRICAL	(54) METHOD FOR FABRICATING A
MILKE, Eugen	CONNECTORS AND ASSOCIATED	FLEXIBLE DISPLAY PANEL
WULFF, Frank-Werner	SYSTEMS AND METHODS	(73) BOE Technology Group Co., Ltd.
(31) 102010031993	(73) Micron Technology, Inc.	(72) CHEN, Liqiang
(32) 22.07.2010	(72) CHANDOLU, Anilkumar	CAI, Baoming
(33) Germany	(31) 201414287418	SUN, Tao
(51) H01L 23/495	(32) 27.05.2014	(31) 201510076818
(11) EP3474322	(33) United States of America	(32) 12.02.2015
(21) EP17197800.0	(51) H01L 25/075	(33) China
(47) 20.04.2022	H01L 27/15	(51) H01L 27/11582
(22) 23.10.2017	H01L 33/62	H01L 27/11573
(54) SEMICONDUCTOR DEVICE AND	(11) EP3767670	H01L 27/11565
METHOD OF MANUFACTURE	(21) EP20185453.6	(11) EP3494598
(73) Nexperia B.V.	(47) 20.04.2022	(21) EP17771634.7
(72) Brown, Adam R.	(22) 13.07.2020	(47) 20.04.2022
Yandoc, Ricardo L.	(54) DISPLAY DEVICE	(87) US2017050367
(51) H01L 23/538	(73) InnoLux Corporation	11.05.2018
(11) EP3338303	(72) HSU, Chia-Hsiu	(22) 07.09.2017
(21) EP16730956.6	(31) 201910649901	(54) BULB-SHAPED MEMORY STACK
(47) 20.04.2022	(32) 18.07.2019	STRUCTURES FOR DIRECT SOURCE
(87) US2016035895	(33) China	CONTACT IN THREE-DIMENSIONAL
02.03.2017	(51) H01L 25/075	MEMORY DEVICE
(22) 03.06.2016	H01L 33/20	(73) SanDisk Technologies LLC
	H01L 33/24	(72) ZHANG, Yanli
	(11) EP3599639	KITAMURA, Kento

GE, Chun	(72) HANZAWA Katsuhiko	(72) LIN, Cheng Hua
ZHANG, Tong	YASU Yohtarō	JI, Yan-Liang
KASAGI, Yasuo	(31) 201715695400	(31) 201715425207
KAI, James	(32) 05.09.2017	201662382804 P
MASAMORI, Yohei	(33) United States of America	201662306661 P
OGAWA, Hiroyuki	(51) H01L 27/146	(32) 06.02.2017
YAMAGUCHI, Kensuke	G02B 5/20	02.09.2016
MAO, Daxin	(11) EP3696856	11.03.2016
SHIMIZU, Satoshi	(21) EP20162436.8	(33) United States of America
ALSMEIER, Johann	(47) 20.04.2022	United States of America
MATSUMOTO, Kazuyo	(22) 13.08.2015	United States of America
YU, Jixin	(54) IMAGE SENSOR INCLUDING COLOR	(51) H01L 29/40
(31) 201715458269	FILTER ISOLATION LAYER AND	H01L 29/872
201715458272	METHOD OF MANUFACTURING THE	H01L 29/778
201715458200	SAME	H01L 29/06
201662417575 P	(73) Samsung Electronics Co., Ltd.	H01L 29/205
201662416859 P	(72) YUN, Seokho	(11) EP3520142
(32) 14.03.2017	NAM, Sunghyun	(21) EP17793728.1
14.03.2017	PARK, Hongkyu	(47) 20.04.2022
14.03.2017	ROH, Sookyong	(87) IB2017055961
04.11.2016	(31) 20140106964	05.04.2018
03.11.2016	(32) 18.08.2014	(22) 28.09.2017
(33) United States of America	(33) Korea (Republic)	(54) SEMICONDUCTOR DEVICE
United States of America	(51) H01L 27/32	COMPRISING A THREE-DIMENSIONAL
United States of America	(11) EP3226300	FIELD PLATE
United States of America	(21) EP17153870.5	(73) Ecole Polytechnique Federale de
United States of America	(47) 20.04.2022	Lausanne (EPFL)
(51) H01L 27/14	(22) 31.01.2017	(72) MA, Jun
G02B 3/00	(54) DISPLAY APPARATUS	MATIOLI, Elison de Nazareth
G02B 5/00	(73) Samsung Display Co., Ltd.	(31) 201662400643 P
G02B 7/34	(72) KIM, Yangwan	(32) 28.09.2016
G03B 13/36	PARK, Hyunae	(33) United States of America
H04N 5/369	KIM, Byungsun	(51) H01L 29/739
H01L 27/146	KWON, Sunja	H01L 29/06
H04N 5/232	LEE, Sujin	H01L 29/417
H04N 9/04	LEE, Jaeyong	H01L 21/331
(11) EP3236500	(31) 20160039329	(11) EP2587544
(21) EP15869845.6	(32) 31.03.2016	(21) EP12189428.1
(47) 20.04.2022	(33) Korea (Republic)	(47) 20.04.2022
(87) JP2015084389	(51) H01L 29/06	(22) 22.10.2012
23.06.2016	H01L 29/78	(54) Semiconductor device and the method of
(22) 08.12.2015	(11) EP3158590	manufacturing the same
(54) SOLID-STATE IMAGE PICKUP	(21) EP15812603.7	(73) Fuji Electric Co., Ltd.
ELEMENT AND ELECTRONIC DEVICE	(47) 20.04.2022	(72) Sasaki, Koji
(73) Sony Group Corporation	(87) US2015034480	(31) 2011236849
(72) YOKOGAWA Sozo	30.12.2015	(32) 28.10.2011
HIROTA Isao	(22) 05.06.2015	(33) Japan
(31) 2015032578	(54) MODULATED SUPER JUNCTION	(51) H01L 29/78
2014256044	POWER MOSFET DEVICES	H01L 21/336
(32) 23.02.2015	(73) Vishay-Siliconix	(11) EP3667734
18.12.2014	(72) TORNBLAD, Olof	(21) EP19215408.6
(33) Japan	PATTANAYAK, Deva	(47) 20.04.2022
Japan	(31) 201514659394	(22) 11.12.2019
(51) H01L 27/146	201462015941 P	(54) METHOD FOR MANUFACTURING
G01S 17/10	(32) 16.03.2015	MICROELECTRONIC COMPONENTS
H04N 5/369	23.06.2014	(73) Commissariat à l'Energie Atomique et
H04N 5/376	(33) United States of America	aux Energies Alternatives
G01S 7/4863	United States of America	(72) POSSEME, Nicolas
(11) EP3605610	(51) H01L 29/40	LE ROYER, Cyrille
(21) EP18853942.3	H01L 29/78	(31) 1872889
(47) 20.04.2022	H01L 21/336	(32) 13.12.2018
(87) JP2018030905	(11) EP3217431	(33) France
14.03.2019	(21) EP17157038.5	(51) H01L 29/786
(22) 22.08.2018	(47) 20.04.2022	H01L 21/336
(54) SENSOR CHIP AND ELECTRONIC	(22) 21.02.2017	H01L 27/12
MACHINE	(54) SEMICONDUCTOR DEVICE CAPABLE	H01L 29/08
(73) Sony Semiconductor Solutions	OF HIGH-VOLTAGE OPERATION	H01L 29/10
Corporation	(73) MediaTek Inc.	H01L 21/77

(11) EP3457441	H01L 27/144	(47) 20.04.2022
(21) EP17761424.5	(11) EP3422423	(22) 20.12.2016
(47) 20.04.2022	(21) EP16891456.2	(54) METHOD FOR MANUFACTURING AN IMPROVED PIEZOELECTRIC MATERIAL
(87) CN2017074772	(47) 20.04.2022	(73) Solmates B.V.
16.11.2017	(87) JP2016055485	(72) Dekkers, Jan Matthijn
(22) 24.02.2017	31.08.2017	Rijnders, Augustinus Josephus Helena Maria
(54) THIN FILM TRANSISTOR AND MANUFACTURING METHOD THEREFOR, ARRAY SUBSTRATE AND MANUFACTURING METHOD THEREFOR, AND DISPLAY APPARATUS	(22) 24.02.2016	Duc Nguyen, Minh
(73) Beijing BOE Display Technology Co., Ltd.	(54) ELECTROMAGNETIC WAVE DETECTOR	(51) H01L 51/05
BOE Technology Group Co., Ltd.	(73) Mitsubishi Electric Corporation	(11) EP3186248
(72) HONG, Young Tae	(72) OKUDA, Satoshi	(21) EP15836838.1
GUO, Huibin	FUJISAWA, Daisuke	(47) 20.04.2022
BAI, Jinchao	OGAWA, Shimpei	(87) IB2015056318
(31) 201610311349	SHIMATANI, Masaaki	03.03.2016
(32) 11.05.2016	(51) H01L 31/0745	(22) 20.08.2015
(33) China	H01L 31/18	(54) THIN FILM SEMICONDUCTOR COMPRISING SMALL-MOLECULAR SEMICONDUCTING COMPOUND AND NON-CONDUCTIVE POLYMER
(51) H01L 29/788	(11) EP3496164	(73) CLAP CO., LTD.
H01L 21/28	(21) EP19151843.0	(72) WEITZ, Thomas
H01L 27/11524	(47) 20.04.2022	TAKEYA, Junichi
H01L 27/11556	(22) 23.06.2009	GESSNER, Thomas
(11) EP3084829	(54) FRONT CONTACT SOLAR CELL WITH FORMED ELECTRICALLY CONDUCTING LAYERS ON THE FRONT SIDE AND BACKSIDE	KISHI, Masayuki
(21) EP14870864.7	(73) Maxeon Solar Pte. Ltd.	(31) 14182710
(47) 20.04.2022	(72) COUSINS, Peter John	(32) 28.08.2014
(87) US2014065957	(31) 16626608	(33) European Patent Office (EPO)
25.06.2015	(32) 01.07.2008	
(22) 17.11.2014	(33) United States of America	
(54) METAL FLOATING GATE COMPOSITE 3D NAND MEMORY DEVICES AND ASSOCIATED METHODS	(51) H01L 33/50	(51) H01L 51/30
(73) Intel Corporation	C09K 11/02	C07D 235/18
(72) RAMASWAMY, Nirmal	C09K 11/08	H01L 51/05
SIMSEK-EGE, Fatma A.	C09K 11/62	H01L 51/42
(31) 201314109230	C03C 14/00	H01L 51/50
(32) 17.12.2013	H05B 33/12	(11) EP3172775
(33) United States of America	F21K 9/64	(21) EP15733629.8
(51) H01L 31/0224	F21V 9/30	(47) 20.04.2022
H01L 31/18	F21Y 115/10	(87) EP2015001315
(11) EP3235011	F21Y 115/20	28.01.2016
(21) EP15870822.2	F21Y 115/30	(22) 30.06.2015
(47) 20.04.2022	(11) EP3637482	(54) MATERIALS FOR ELECTRONIC DEVICES
(87) US2015065643	(21) EP19210219.2	(73) Merck Patent GmbH
23.06.2016	(47) 20.04.2022	(72) JATSCH, Anja
(22) 14.12.2015	(22) 14.10.2011	EBERLE, Thomas
(54) THICK DAMAGE BUFFER FOR FOIL-BASED METALLIZATION OF SOLAR CELLS	(54) WAVELENGTH CONVERSION ELEMENT AND LIGHT SOURCE COMPRISING THE SAME	KROEBER, Jonas Valentin
(73) Maxeon Solar Pte. Ltd.	(73) Nippon Electric Glass Co., Ltd.	PARHAM, Amir Hossain
(72) HARLEY, Gabriel	(72) KADOMI, Masaaki	GROSSMANN, Tobias
KAVULAK, David Fredric Joel	YAMAGUCHI, Yoshimasa	(31) 14002528
PASS, Thomas P.	NISHIMIYA, Takahumi	(32) 21.07.2014
(31) 201414572170	(31) 2010265972	(33) European Patent Office (EPO)
(32) 16.12.2014	2010257924	(51) H01L 51/42
(33) United States of America	2010257923	(11) EP3563435
(51) H01L 31/0288	(32) 30.11.2010	(21) EP17854217.1
H01L 31/10	18.11.2010	(47) 20.04.2022
H01L 31/0232	18.11.2010	(87) RU2017000946
H01L 31/0352	(33) Japan	05.07.2018
H01L 31/101	Japan	(22) 18.12.2017
H01L 31/112	Japan	(54) METHODS FOR PRODUCING LIGHT-ABSORBING MATERIALS WITH PEROVSKITE STRUCTURE AND LIQUID POLYHALIDES OF VARIABLE COMPOSITION FOR THEIR IMPLEMENTATION
H01L 31/0216	(51) H01L 41/187	(73) Joint Stock Company Krasnoyarsk Hydropower Plant (JSC Krasnoyarsk HPP)
H01L 31/0224	H01L 41/316	(72) BELICH, Nikolai Andreevich
H01L 31/028	H01L 41/319	
H01L 31/103	C23C 14/08	
H01L 31/18	C23C 14/28	
	C23C 14/02	
	(11) EP3340327	
	(21) EP16205386.2	

TARASOV, Alexey Borisovich	C07D 495/04	ELECTRICAL DEVICE IN WHICH SAME IS USED
GUDILIN, Evgeny Alekseevich	C07D 495/14	(73) Nissan Motor Co., Ltd.
PETROV, Andrey Andreevich	C09K 11/06	(72) ITOU Atsushi
GRISHKO, Aleksei Iurievich	(11) EP3244465	AISO Yuka
(31) 2016152497	(21) EP16735040.4	WATANABE Manabu
2016152496	(47) 20.04.2022	UEDA Naoki
(32) 29.12.2016	(87) JP2016050167	
29.12.2016	14.07.2016	(51) H01M 4/48
(33) Russian Federation	(22) 05.01.2016	C01B 33/113
Russian Federation	(54) ORGANIC ELECTROLUMINESCENT ELEMENT	H01M 4/13
(51) H01L 51/46	(73) Hodogaya Chemical Co., Ltd.	H01M 4/139
H01L 51/54	SFC Co., Ltd.	H01M 4/36
(11) EP2706586	(72) LEE, Se-Jin	H01M 4/38
(21) EP13182678.6	LEE, Oun-gyu	H01M 4/62
(47) 20.04.2022	KANDA, Daizo	H01M 10/0525
(22) 02.09.2013	MOCHIDUKI, Shunji	(11) EP3800711
(54) Light transmissive electrode, organic photoelectric device, and image sensor	YAMAMOTO, Takeshi	(21) EP20827976.0
(73) Samsung Electronics Co., Ltd	KABASAWA, Naoaki	(47) 20.04.2022
(72) Lim, Seon-Jeong	SHIN, Bong-Ki	(87) CN2020102044
Kim, Jung Woo	HAYASHI, Shuichi	04.02.2021
Park, Kyung Bae	YOKOYAMA, Norimasa	(22) 15.07.2020
Leem, Dong-Seok	(31) 2015002095	(54) SILOXANE COMPOUND, PREPARATION METHOD THEREFOR, AND RELATED SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND APPARATUS
Lee, Kwang Hee	(32) 08.01.2015	(73) Contemporary Amperex Technology Co., Limited
Kim, Kyu Sik	(33) Japan	(72) WEN, Yan
(31) 20120100044	(51) H01M 4/131	GUAN, Yingjie
(32) 10.09.2012	H01M 10/42	HUANG, Qisen
(33) Korea (Republic)	H01M 4/66	ZHAO, Yuzhen
(51) H01L 51/52	H01M 4/80	LIANG, Chengdu
H01L 27/32	H01M 4/525	(31) 201910688461
(11) EP3255694	H01M 4/02	(32) 29.07.2019
(21) EP17167641.4	H01M 10/052	(33) China
(47) 20.04.2022	(11) EP3742529	(51) H01M 4/70
(22) 21.04.2017	(21) EP19883827.8	H01M 4/66
(54) DISPLAY DEVICE	(47) 20.04.2022	H01M 4/04
(73) Samsung Display Co., Ltd	(87) CN2019118695	H01M 10/052
(72) SUNG, Taehyun	22.05.2020	H01M 10/0562
LEE, Hyungu	(22) 15.11.2019	H01M 10/0585
PARK, Junshik	(54) POSITIVE ELECTRODE SHEET AND ELECTROCHEMICAL APPARATUS	(11) EP3391442
MIN, Kyoungil	(73) Contemporary Amperex Technology Co., Limited	(21) EP16813166.2
(31) 20160072734	(72) ZHANG, Zige	(47) 20.04.2022
(32) 10.06.2016	LI, Jing	(87) NL2016050877
(33) Korea (Republic)	XUE, Qingrui	22.06.2017
(51) H01L 51/52	XU, Jianbao	(22) 15.12.2016
H01L 51/56	LI, Wei	(54) LITHIUM BATTERY CURRENT COLLECTOR COMPRISING CONDUCTIVE PILLARED STRUCTURES ON A SUBSTRATE
(11) EP3465792	(31) 201811366548	(73) Nederlandse Organisatie voor toegepast-natuurwetenschappelijk onderzoek TNO
(21) EP16869381.0	(32) 16.11.2018	(72) UNNIKRISHNAN, Sandeep
(47) 20.04.2022	(33) China	HAVERKATE, Lucas Augustinus
(87) CN2016105069	(51) H01M 4/134	HERMES, Dorothee Christine
07.12.2017	H01M 4/131	(31) 15200434
(22) 08.11.2016	H01M 4/36	(32) 16.12.2015
(54) DISPLAY PANEL, DISPLAY APPARATUS HAVING THE SAME, AND FABRICATING METHOD THEREOF	H01M 4/38	(33) European Patent Office (EPO)
(73) BOE Technology Group Co., Ltd.	H01M 4/505	(51) H01M 4/88
(72) NIU, Yanan	H01M 4/525	F27D 5/00
HE, Zengsheng	H01M 4/62	H01M 8/124
TIAN, Hongwei	H01M 10/0525	H01M 8/12
CHEN, Lei	H01M 4/02	(11) EP3716379
(31) 201610371848	(11) EP3547410	(21) EP19851433.3
(32) 30.05.2016	(21) EP16922128.0	(47) 20.04.2022
(33) China	(47) 20.04.2022	(87) KR2019010545
(51) H01L 51/54	(87) JP2016084632	
C07C 211/54	31.05.2018	
C07C 211/61	(22) 22.11.2016	
C07D 403/04	(54) NEGATIVE ELECTRODE FOR ELECTRICAL DEVICES, AND	
C07D 403/10		
C07D 491/048		

27.02.2020	(47) 20.04.2022	(32) 30.11.2015
(22) 20.08.2019	(87) JP2018033891	29.05.2015
(54) APPARATUS AND METHOD FOR PLASTICIZING SOLID OXIDE FUEL CELL	19.03.2020	(33) Japan
(73) LG CHEM, LTD.	(22) 12.09.2018	Japan
(72) SHIN, Dong Oh	(54) FUEL CELL SYSTEM	(51) H01M 10/0569
CHOI, Kwangwook	(73) NISSAN MOTOR CO., LTD.	H01M 10/052
PARK, Curie	(72) FUKUSHIMA, Eisuke	H01M 4/38
PARK, Eun Yong	CHIKUGO, Hayato	H01M 10/0568
(31) 20180097787	(51) H01M 8/1213	(11) EP3635807
(32) 22.08.2018	H01M 4/86	(21) EP18733179.8
(33) Korea (Republic)	H01M 4/88	(47) 20.04.2022
(51) H01M 4/88	H01M 8/124	(87) EP2018064225
H01M 4/96	B05D 7/00	13.12.2018
H01M 12/08	B05D 3/02	(22) 30.05.2018
H01M 4/86	H01M 8/1246	(54) ELECTROLYTE FOR AN ALKALI METAL-SULFUR-BATTERY, ALKALI METAL-SULFUR-BATTERY CONTAINING THE SAME, AND USE OF THE ELECTROLYTE
(11) EP3435459	H01M 8/1253	(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
(21) EP18185160.1	H01M 8/126	(72) ALTHUES, Holger
(47) 20.04.2022	H01M 4/90	KASKEL, Stefan
(22) 24.07.2018	(11) EP3430666	DÖRFLER, Susanne
(54) POSITIVE ELECTRODE FOR METAL- AIR BATTERY, METAL-AIR BATTERY INCLUDING THE SAME, AND METHOD OF MANUFACTURING CARBON NANOTUBE THIN FILM	(21) EP17767596.4	WELLER, Christine
(73) Samsung Electronics Co., Ltd. Seoul National University R&DB Foundation	(47) 20.04.2022	(31) 102017209790
(72) CHO, Youngshik	(87) US2017022884	(32) 09.06.2017
LEE, Dongjoon	21.09.2017	(33) Germany
PARK, Chongrae	(22) 17.03.2017	(51) H01M 10/058
BYEON, Minhoo	(54) SOLID OXIDE FUEL CELLS WITH CATHODE FUNCTIONAL LAYERS	H01M 4/58
IM, Dongmin	(73) Redox Power Systems LLC	H01M 4/587
KIM, Hyunjin	University of Maryland, College Park	H01M 10/0525
JUNG, Yeonsu	(72) ABDUL JABBAR, Mohammed, Hussain	(11) EP3761436
(31) 20180047321	PAN, Ke-Ji	(21) EP18907863.7
20170094315	WACHSMAN, Eric	(47) 20.04.2022
(32) 24.04.2018	DING, Dong	(87) CN2018112959
25.07.2017	(31) 201662310358 P	06.09.2019
(33) Korea (Republic)	(32) 18.03.2016	(22) 31.10.2018
Korea (Republic)	(33) United States of America	(54) LITHIUM ION SECONDARY BATTERY AND MANUFACTURING METHOD THEREFOR
(51) H01M 8/04029	(51) H01M 8/249	(73) Contemporary Amperex Technology Co., Limited
H01M 8/04223	H01M 8/04223	(72) LIU, Xiaomei
H01M 8/04291	H01M 8/04537	WANG, Guobao
H01M 8/0662	H01M 8/04746	XIE, Bin
H01M 8/2475	H01M 8/0438	LIU, Jiang
B63G 8/00	(11) EP3902044	(31) 201810168626
(11) EP3410525	(21) EP21169720.6	(32) 28.02.2018
(21) EP18174798.1	(47) 20.04.2022	(33) China
(47) 20.04.2022	(22) 21.04.2021	(51) H01M 10/42
(22) 29.05.2018	(54) POWER SUPPLY SYSTEM AND ASSOCIATED CONTROL METHOD	H01M 50/20
(54) HEATED CATALYTIC OXIDIZER FOR AN ENCLOSED HUMID ENVIRONMENT	(73) Naval Group	H01M 50/572
(73) Hamilton Sundstrand Corporation	(72) FOUILLEN, Nanine	(11) EP3657592
(72) YU, Ping	(31) 2004006	(21) EP18207513.5
CONVERSE, David G.	(32) 22.04.2020	(47) 20.04.2022
(31) 201715611188	(33) France	(22) 21.11.2018
(32) 01.06.2017	(51) H01M 10/0567	(54) CONTROL UNIT FOR A BATTERY MODULE OR SYSTEM
(33) United States of America	H01M 4/62	(73) Samsung SDI Co., Ltd.
(51) H01M 8/04746	H01M 4/13	(72) Haidl, Michael
H01M 8/04014	H01M 4/48	Hofer, Maximilian
H01M 8/04302	H01M 10/052	(51) H01M 10/613
H01M 8/0438	(11) EP3306733	H01M 10/6556
H01M 8/0612	(21) EP16803168.0	H01M 10/625
H01M 8/124	(47) 20.04.2022	F28F 9/12
(11) EP3852177	(87) JP2016065446	F28F 9/16
(21) EP18933388.3	08.12.2016	(11) EP3618170
	(22) 25.05.2016	
	(54) LITHIUM ION SECONDARY BATTERY	
	(73) NEC Corporation	
	(72) SHIMANUKI, Ikiko	
	TAMAI, Suguru	
	(31) 2015233628	
	2015109320	

(21) EP19762694.8	(33) China	H01Q 1/38
(47) 20.04.2022	(51) H01P 1/04	H01Q 9/42
(87) CN2019090514	(11) EP3453070	(11) EP2879234
23.01.2020	(21) EP16728125.2	(21) EP14195332.3
(22) 10.06.2019	(47) 20.04.2022	(47) 20.04.2022
(54) BATTERY COOLING COMPONENT	(87) SE2016050387	(22) 28.11.2014
(73) Contemporary Ampere Technology Co., Limited	09.11.2017	(54) Electronic apparatus with radio antenna folded in a housing
(72) MAO, Kaiyuan	(22) 03.05.2016	(73) COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES
HUANG, Xiaoteng	(54) AN ARRANGEMENT FOR INTERCONNECTION OF WAVEGUIDE STRUCTURES AND A STRUCTURE FOR A WAVEGUIDE STRUCTURE INTERCONNECTING ARRANGEMENT	(72) Jouanlanne, Cyril
GU, Yanlong	(73) Gapwaves AB	Pintos, Jean-François
(31) 201821135180 U	(72) CARLRED, Simon	Delaveaud, Christophe
(32) 17.07.2018	(72) ALFONSO ALÓS, Esperanza	(31) 1361795
(33) China	(51) H01Q 1/08	(32) 28.11.2013
(51) H01M 50/103	H01Q 1/34	(33) France
H01M 50/147	H01Q 1/06	(51) H01Q 1/24
H01M 50/55	H01Q 9/32	H01Q 9/42
(11) EP3062368	(11) EP3642902	H01Q 5/378
(21) EP16157450.4	(21) EP18821660.0	H01Q 5/328
(47) 20.04.2022	(47) 20.04.2022	(11) EP3050156
(22) 25.02.2016	(87) US2018037689	(21) EP14777452.5
(54) RECHARGEABLE BATTERY	27.12.2018	(47) 20.04.2022
(73) Samsung SDI Co., Ltd.	(22) 15.06.2018	(87) US2014055987
(72) Byun, Sang-Won	(54) INFLATABLE ANTENNA AND ASSOCIATED ASSEMBLIES	26.03.2015
Jang, Myung-Jae	(73) Shakespeare Company, LLC	(22) 17.09.2014
Lee, Chi-Young	(72) ATKINSON, Andrew	(54) TECHNIQUES OF TUNING AN ANTENNA BY WEAK COUPLING OF A VARIABLE IMPEDANCE COMPONENT
(31) 20150027328	MANASSEH, Dave	(73) Cavendish Kinetics, Inc.
(32) 26.02.2015	SMITH, Clayton	(72) TORNATTA, Paul Anthony
(33) Korea (Republic)	(31) 201762521970 P	ALHALABI, Ramadan A.
(51) H01M 50/20	(32) 19.06.2017	GADDI, Roberto
(11) EP3506386	(33) United States of America	(31) 201361910484 P
(21) EP18203737.4	(51) H01Q 1/22	201361881292 P
(47) 20.04.2022	H01Q 1/44	(32) 02.12.2013
(22) 31.10.2018	H01Q 9/42	23.09.2013
(54) SHELL, BATTERY MODULE AND BATTERY PACK	H01Q 19/10	(33) United States of America
(73) Contemporary Ampere Technology Co., Limited	(11) EP3346545	United States of America
(72) YOU, Zhiyi	(21) EP18150225.3	(51) H01Q 1/24
MA, Lin	(47) 20.04.2022	H01Q 21/28
ZHANG, Hua	(22) 03.01.2018	H01Q 1/38
QIN, Feng	(54) STRIP BOND ANTENNAS	H01Q 9/40
(31) 201721886951 U	(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	H01Q 5/40
(32) 28.12.2017	(72) Ndip, Ivan	H01Q 1/22
(33) China	(31) 102017200130	H01Q 9/42
(51) H01M 50/209	(32) 05.01.2017	H01Q 5/371
H01M 50/242	(33) Germany	(11) EP3890109
H01M 50/264	(51) H01Q 1/22	(21) EP21162442.4
H01M 50/249	H01Q 21/30	(47) 20.04.2022
H01M 50/533	H01Q 21/28	(22) 12.03.2021
(11) EP3800704	(11) EP3560031	(54) INTEGRATION MODULE OF MILLIMETER-WAVE AND NON-MILLIMETER-WAVE ANTENNAS
(21) EP19907322.2	(21) EP17917479.2	(73) East China Research Institute of Microelectronics
(47) 20.04.2022	(47) 20.04.2022	Etheta Communication Technology (Shenzhen) Co., Ltd
(87) CN2019121031	(87) US2017041928	(72) ZENG, Minhui
09.07.2020	17.01.2019	Huang, Huan-Chu
(22) 26.11.2019	(22) 13.07.2017	MA, Tao
(54) BATTERY MODULE AND BATTERY PACK	(54) ANTENNAS IN THIN DEVICES	SUN, Hao
(73) Contemporary Ampere Technology Co., Limited	(73) Hewlett-Packard Development Company, L.P.	QI, Zhixing
(72) YOU, Kaijie	(72) HUNG, Kuan-Jung	ZHOU, Yanchao
MA, Jun	CHUANG, Min-Hsu	LIN, Hong
LI, Ziyuan	CHIEN, Chih-Hung	LIU, Junyong
CHEN, Xingdi	(51) H01Q 1/24	LI, Jingwei
TANG, Yu	H01Q 1/36	
HOU, Yuepan		
(31) 201822275004 U		
(32) 30.12.2018		

(31) 202010252249	YAMAGUCHI, Satoshi	H01R 13/506
(32) 01.04.2020	WATANABE, Hikaru	H01R 4/34
(33) China		H01R 9/22
(51) H01Q 1/32	(51) H01R 4/18	(11) EP3783748
H01Q 13/10	H01R 43/048	(21) EP20189788.1
H01Q 21/00	H01R 4/62	(47) 20.04.2022
H01Q 21/28	(11) EP3262715	(22) 06.08.2020
(11) EP3853945	(21) EP16716320.3	(54) CONNECTOR
(21) EP20743685.8	(47) 20.04.2022	(73) YAZAKI CORPORATION
(47) 20.04.2022	(87) US2016019009	(72) NAGAYAMA, Masataka
(87) EP2020070537	01.09.2016	MIZUNO, Kiyotaka
11.03.2021	(22) 23.02.2016	(31) 2019153133
(22) 21.07.2020	(54) CRIMPING DEVICE AND TERMINAL	(32) 23.08.2019
(54) ROOF ANTENNA WITH INTEGRATED	ASSEMBLY	(33) Japan
MM-WAVE ANTENNA	(73) TE Connectivity Germany GmbH	(51) H01R 12/70
(73) Audi AG	TE Connectivity Corporation	H01R 12/72
(72) REICHARDT, Lars	(72) COLLEGE, David Alan	H01R 13/514
CENANOVIC, Amir	MYERS, Marjorie Kay	H01R 13/518
(31) 102019213208	SCHMIDT, Helge	H01R 13/506
(32) 02.09.2019	(31) 201615046815	(11) EP3095158
(33) Germany	201562120699 P	(21) EP15700619.8
(51) H01Q 9/04	(32) 18.02.2016	(47) 20.04.2022
H01Q 19/02	25.02.2015	(87) US2015010549
H01Q 21/20	(33) United States of America	23.07.2015
H01Q 13/06	United States of America	(22) 08.01.2015
(11) EP3410535	(51) H01R 4/2408	(54) HEADER ASSEMBLY HAVING POWER
(21) EP18170560.9	H01R 13/64	AND SIGNAL CARTRIDGES
(47) 20.04.2022	(11) EP3782230	(73) TE Connectivity Corporation
(22) 03.05.2018	(21) EP19714841.4	(72) CRAWFORD, James Oliver
(54) SYSTEM FOR REDUCING	(47) 20.04.2022	HITCHCOCK, Matthew Bryan
INTERFERENCE IN ANTENNAS	(87) NL2019050039	MARTIN, Galen M.
(73) MBDA Deutschland GmbH	24.10.2019	(31) 201414154366
(72) Herbold, Georg	(22) 23.01.2019	(32) 14.01.2014
Ger, Michael	(54) PIERCING CONNECTOR	(33) United States of America
(31) 102017111987	(73) Buysman Holding B.V.	(51) H01R 13/447
(32) 31.05.2017	(72) BUIJSMAN, Petrus Johannes	H01R 13/453
(33) Germany	(31) 2020796	H01R 13/514
(51) H01Q 11/12	(32) 19.04.2018	H01R 24/78
H04B 1/04	(33) Netherlands	H01R 103/00
H04B 1/48	(51) H01R 4/48	H01R 13/52
H03G 3/30	H01R 13/11	(11) EP3830908
H03F 3/217	(11) EP3657605	(21) EP18800833.8
(11) EP3570374	(21) EP18207842.8	(47) 20.04.2022
(21) EP19159039.7	(47) 20.04.2022	(87) AT2018060249
(47) 20.04.2022	(22) 22.11.2018	23.04.2020
(22) 23.06.2005	(54) TERMINAL BLOCK WITH LATERAL	(22) 19.10.2018
(54) INTEGRATED RF FRONT END	ELASTIC HANDLES	(54) SOCKET
(73) pSemi Corporation	(73) Dinkle Electric Machinery (China) Co.,	(73) Mass Tech Innovations GmbH
(72) Cable, James	Ltd.	(72) Ahmic, Selmir
Burgener, Mark	Dinkle Enterprise Co., Ltd.	(51) H01R 13/523
(31) 15859705	(72) Wu, Shang-Tsai	H01R 43/26
87540504	(51) H01R 4/64	H01R 13/533
(32) 22.06.2005	H01R 11/12	(11) EP3721510
23.06.2004	(11) EP3799214	(21) EP18830925.6
(33) United States of America	(21) EP20198936.5	(47) 20.04.2022
United States of America	(47) 20.04.2022	(87) FR2018053119
(51) H01Q 21/06	(22) 29.09.2020	13.06.2019
H01Q 21/24	(54) MOUNTING STRUCTURE OF	(22) 05.12.2018
H01Q 21/00	TERMINAL AND MOUNTING SURFACE	(54) METHOD FOR CONNECTING TWO
(11) EP3771040	(73) YAZAKI CORPORATION	CONNECTOR PARTS
(21) EP18918432.8	(72) Katoh, Hiroshi	(73) Ixblue
(47) 20.04.2022	Watanabe, Jin	(72) ARDITTY, Hervé
(87) JP2018018585	(31) 2019179433	DELORT, Eric
21.11.2019	(32) 30.09.2019	TOUIN, Gildas
(22) 14.05.2018	(33) Japan	GRALL, Sébastien
(54) ARRAY ANTENNA DEVICE	(51) H01R 4/70	MOSCA, Frédéric
(73) Mitsubishi Electric Corporation	H01R 13/74	LAPORTE, Jonathan
(72) FUKASAWA, Toru	H01R 11/12	GIROUSSENS, Christian

CHAIZE, Carole	28.04.2016	(54) CORRUGATED TUBE THAT CAN BE FOLDED OPEN AND WIRING HARNESS
(31) 1761667	(22) 05.08.2015	(73) Delfingen FR-Anteuil S.A.
(32) 05.12.2017	(54) LASER MODULE	(72) CHU, Van Ngoc
(33) France	(73) Panasonic Intellectual Property Management Co., Ltd.	(31) 102016123040
(51) H01R 13/62	(72) UEDA, Naoto	(32) 29.11.2016
H01R 13/627	MOTOFUJI, Takuma	(33) Germany
(11) EP3427347	OOMORI, Kouji	(51) H02G 3/04
(21) EP17720683.6	YOSHIDA, Takayuki	H01B 3/44
(47) 20.04.2022	(31) 201462067047 P	B29C 48/09
(87) EP2017000545	(32) 22.10.2014	B29C 48/13
07.12.2017	(33) United States of America	B29C 48/00
(22) 02.05.2017	(51) H02B 13/035	B29C 48/21
(54) ELECTRICAL PLUG CONNECTION	H01H 33/662	B29C 48/30
(73) Rosenberger Hochfrequenztechnik GmbH & Co. KG	(11) EP3767763	(11) EP3158614
(72) SCHICHL, Markus	(21) EP18910090.2	(21) EP15723939.3
MICHELMANN, Folke	(47) 20.04.2022	(47) 20.04.2022
WURM, Herbert	(87) JP2018009864	(87) EP2015061018
(31) 102016006775	19.09.2019	30.12.2015
(32) 02.06.2016	(22) 14.03.2018	(2) 19.05.2015
(33) Germany	(54) GAS-INSULATED SWITCHING DEVICE	(54) PLASTIC CORRUGATED TUBE FOR SURROUNDING PIPES AND METHOD FOR PRODUCING SUCH A CORRUGATED TUBE
(51) H01S 3/067	(73) Mitsubishi Electric Corporation	(73) Delfingen FR-Anteuil S.A.
G02B 6/02	(72) TSURIMOTO Takao	(72) BÜTTNER, Matthias
(11) EP3649707	YOSHIDA Tadahiro	CHU, Van-Ngoc
(21) EP18733299.4	YAMADA Shintaro	(31) 102014108757
(47) 20.04.2022	ABE Junichi	(32) 23.06.2014
(87) EP2018067543	(51) H02B 13/035	(33) Germany
10.01.2019	H02B 1/30	(51) H02G 3/08
(22) 29.06.2018	H01H 1/00	(11) EP3540885
(54) MODERATELY MULTIMODAL AMPLIFYING FIBRE	H01H 9/02	(21) EP19161649.9
(73) Centre National de la Recherche Scientifique	(11) EP3028355	(47) 20.04.2022
Université de Lille	(21) EP14708478.4	(22) 08.03.2019
(72) BIGOT, Laurent	(47) 20.04.2022	(54) INSTALLATION BOX
TRINEL, Jean-Baptiste	(87) EP2014000490	(73) Kaiser GmbH & Co. KG
BOUWMANS, Géraud	05.02.2015	(72) VIOLA, Marc
LE COCQ, Guillaume	(22) 25.02.2014	RÜTHER, Andreas
(31) 1756238	(54) GAS INSULATED SWITCHING DEVICE AND CAMERA SYSTEM FOR OPTICAL CHECK OF SWITCHING POSITION IN THE SWITCHING DEVICE	(31) 102018105944
(32) 03.07.2017	(73) ABB Schweiz AG	(32) 14.03.2018
(33) France	(72) CHICHY, Siegmund	(33) Germany
(51) H01S 3/067	(31) 13003867	(51) H02G 3/22
H01S 3/10	(32) 02.08.2013	F16L 5/02
H01S 3/13	(33) European Patent Office (EPO)	F16L 5/10
H01S 3/23	(51) H02G 1/14	(11) EP3440752
H01S 3/00	H01R 43/00	(21) EP17779445.0
(11) EP3776757	B29C 45/14	(47) 20.04.2022
(21) EP19710238.7	H01R 13/52	(87) SE2017050339
(47) 20.04.2022	H02G 15/013	12.10.2017
(87) US2019019378	(11) EP3483991	(22) 05.04.2017
03.10.2019	(21) EP18204118.6	(54) INSERT HALF, AND INSERT BLOCK COMPRISING TWO OF SAID INSERT HALVES
(22) 25.02.2019	(47) 20.04.2022	(73) MCT Brattberg AB
(54) SPECTRALLY COMPENSATED FIBER AMPLIFIER SYSTEM	(22) 02.11.2018	(72) FAGERBERG, Johan
(73) Northrop Grumman Systems Corporation	(54) METHOD FOR OVERMOULDING AT LEAST TWO SINGLE CONDUCTORS	KARLSSON, Anders
(72) GOODNO, Gregory, D.	(73) BizLink Industry Germany GmbH	(31) 1650465
ROTHENBERG, Joshua, E.	(72) UNTIEDT, Christoph	(32) 05.04.2016
(31) 201815942240	(31) 102017219923	(33) Sweden
(32) 30.03.2018	(32) 09.11.2017	(51) H02G 3/34
(33) United States of America	(33) Germany	(11) EP3555975
(51) H01S 5/022	(51) H02G 3/04	(21) EP17828947.6
H01S 5/40	(11) EP3549216	(47) 20.04.2022
G02B 19/00	(21) EP17800747.2	(87) FR2017053618
G02B 27/09	(47) 20.04.2022	21.06.2018
(11) EP3211734	(87) EP2017078228	(22) 15.12.2017
(21) EP15853450.3	07.06.2018	
(47) 20.04.2022	(22) 03.11.2017	
(87) JP2015003932		

(54) SYSTEM COMPRISING A CARRIER RAIL AND A PLATE CONFIGURED TO BE ATTACHED TO A SUPPORT AND TO IMMOBILISE THE RAIL ARRANGED STANDING UNDER THE SUPPORT	G01R 27/16 (11) EP2973918 (21) EP14772827.3 (47) 20.04.2022 (87) US2014026839 02.10.2014	(72) Sinreich, Mark (31) 317031 P (32) 24.03.2010 (33) United States of America
(73) Legrand France Legrand SNC	(22) 13.03.2014	(51) H02J 3/14 H02J 3/12 H02H 3/46 G01R 31/08 G01R 19/25
(72) DENIS, Laurent GREVECHE, Cécile	(54) BREAKER DESIGN FOR POWER SYSTEM RESILIENCY	(11) EP3747101 (21) EP18903386.3 (47) 20.04.2022 (87) US2018066379 08.08.2019
(31) 1662697 (32) 16.12.2016 (33) France	(73) Aspin Kemp & Associates Holding Corp. (72) ASPIN, Jason BOURGEAU, Edward, Peter, Kenneth	(22) 19.12.2018
(51) H02G 15/18 H02G 15/04 G01R 15/06	(31) 201361779391 P (32) 13.03.2013 (33) United States of America	(54) COORDINATED FREQUENCY LOAD SHEDDING PROTECTION METHOD USING DISTRIBUTED ELECTRICAL PROTECTION DEVICES
(11) EP2763259 (21) EP13153618.7 (47) 20.04.2022 (22) 01.02.2013	(51) H02H 7/30 H02H 7/26 H02H 3/30	(73) S & C Electric Company (72) MATAMOROS, Joseph (31) 201816164401 201862625990 P (32) 18.10.2018 02.02.2018 (33) United States of America United States of America
(54) Sleeve for high voltage measurements for a power cable	(11) EP2658065 (21) EP13165366.9 (47) 20.04.2022 (22) 25.04.2013	(51) H02J 3/32 H02J 3/38 H02J 7/00 H02M 7/487 H02J 7/34
(73) 3M Innovative Properties Company (72) Lohmeier, Gerhard Stalder, Michael Gravermann, Mark Busemann, Friedrich Weichold, Jens Schubert, Bernd	(54) Method for improving power distribution protection (73) Hamilton Sundstrand Corporation (72) Seidel, Rainer J. Wavering, Jeffrey T. Simper, Norbert J. Foster, Michael William Maier, Josef Wagner, Carl A. Krenz, Michael	(22) 03.08.2018
(51) H02H 1/00 H02H 3/08 H02H 7/26	(31) 201213456898 (32) 26.04.2012 (33) United States of America	(11) EP3605775 (21) EP18306059.9 (47) 20.04.2022 (22) 03.08.2018
(11) EP3772789 (21) EP19189943.4 (47) 20.04.2022 (22) 05.08.2019	(51) H02H 9/00 H02H 9/04	(54) ELECTRICAL ENERGY STORAGE MODULE AND ASSOCIATED SYSTEM AND METHOD
(54) ELECTRONIC PROTECTION DEVICE FOR ELECTRIC POWER DISTRIBUTION GRIDS	(11) EP3053237 (21) EP14790418.9 (47) 20.04.2022 (87) US2014058939 09.04.2015	(73) GE Energy Power Conversion Technology Limited (72) PERMUY, Alfred SOUA, Samir
(73) ABB Schweiz AG (72) Angelosante, Daniele	(22) 03.10.2014	(51) H02J 3/38 F24H 9/20 F24D 19/10 H05B 1/02 G05D 23/19
(51) H02H 7/122 H02H 3/02 H02H 3/05	(54) INTRINSICALLY SAFE VOLTAGE LIMITING SHUNT REGULATOR CIRCUIT	(11) EP3300209 (21) EP16190644.1 (47) 20.04.2022 (22) 26.09.2016
(11) EP3476018 (21) EP17742813.3 (47) 20.04.2022 (87) FR2017051696 04.01.2018	(73) Fisher Controls International LLC (72) SEBERGER, Stephen, George KEMP, Matthew, J. NICHOLAS, Davin, Scott	(54) ENERGY EFFICIENT ENERGY GENERATION AND CONSUMPTION SYSTEM AND METHOD FOR ENERGY EFFICIENT OPERATING OF THIS SYSTEM
(22) 26.06.2017	(31) 201314045323 (32) 03.10.2013 (33) United States of America	(73) Laborelec CVBA (72) BOUCHAIR, Nabil MOENCH, Pierre CRUNELLE, Cathy JAHN, Rafaël
(54) METHOD FOR GENERATING A SHORT-CIRCUIT CURRENT FOR TRIGGERING AN ELECTRICAL PROTECTION ELEMENT	(51) H02J 1/06 H02J 1/10 H02J 7/34 G05B 19/042	(51) H02J 5/00 H02H 7/122 H02J 3/00 H02M 7/539
(73) Socomec (72) BOOS, Pascal (31) 1656032 (32) 28.06.2016 (33) France	(11) EP2567436 (21) EP11760264.9 (47) 20.04.2022 (87) US2011029877 29.09.2011	(11) EP2807716 (21) EP13741289.6
(51) H02H 7/22 H02H 5/00 H02H 3/00 H02J 13/00 H02H 11/00 H02H 3/04 H02H 3/05 H02H 3/16 H02H 3/06 H02H 7/28	(22) 24.03.2011 (54) POWER MANAGEMENT CIRCUIT FOR A WIRELESS COMMUNICATION DEVICE AND PROCESS CONTROL SYSTEM USING SAME (73) Pepperl+Fuchs SE	

(47) 20.04.2022	(54) VIRTUALIZATION OF POWER	OGGIANU, Stella M.
(87) US2013023375	FOR DATA CENTERS, TELECOM	MYSZKOWSKI, Adam Marian
01.08.2013	ENVIRONMENTS AND EQUIVALENT	SZELAG, Wojciech
(22) 28.01.2013	INFRASTRUCTURES	WITCZAK, Tadeusz Pawel
(54) CIRCUIT FOR TRANSFERRING	(73) CE+T Power Luxembourg SA	(31) 201862616559 P
POWER BETWEEN A DIRECT	(72) BLEUS, Paul	(32) 12.01.2018
CURRENT LINE AND AN	JOANNES, Thierry	(33) United States of America
ALTERNATING-CURRENT LINE	MILSTEIN, François	(51) H02K 3/12
(73) Cameron, D. Kevin	RIXHON, Daniel	H02K 3/28
(72) Cameron, D. Kevin	(31) 201762508150 P	(11) EP3695489
(31) 201261590888 P	17194559	(21) EP18765431.4
(32) 26.01.2012	(32) 18.05.2017	(47) 20.04.2022
(33) United States of America	03.10.2017	(87) EP2018073762
(51) H02J 7/00	(33) United States of America	18.04.2019
B60K 6/00	European Patent Office (EPO)	(22) 04.09.2018
H02J 1/00	(51) H02J 50/23	(54) STATOR FOR AN ELECTRIC MACHINE
H02J 7/34	H02J 7/02	(73) Robert Bosch GmbH
H02J 1/06	H02J 7/00	(72) ERMER, Martin
(11) EP3516754	H02J 50/20	HEIN, Tobias
(21) EP17854144.7	H02J 50/40	RIEDL, Johannes
(47) 20.04.2022	H02J 50/90	ELSER, Armin
(87) US2017053534	H02J 50/60	HEUSER, Patrick
29.03.2018	H02J 50/80	HERZBERGER, Andreas
(22) 26.09.2017	(11) EP3676936	(31) 102017218078
(54) HIGH RELIABILITY HYBRID ENERGY	(21) EP19754571.8	(32) 11.10.2017
STORAGE SYSTEM	(47) 20.04.2022	(33) Germany
(73) Electric Power Systems, Inc.	(87) KR2019001167	(51) H02K 3/47
(72) HORN, Alan	22.08.2019	H02K 41/03
DUNN, Randy, B.	(22) 28.01.2019	H02K 23/32
(31) 201662399746 P	(54) ELECTRONIC APPARATUS AND	H02K 21/14
(32) 26.09.2016	METHOD FOR CONTROLLING	H02K 21/22
(33) United States of America	THEREOF	H02K 3/32
(51) H02J 7/00	(73) Samsung Electronics Co., Ltd.	(11) EP2751906
H01M 10/42	(72) HAQUE, S.M. Rezaul	(21) EP12726571.8
H01M 10/46	HOQUE, Mohammad Anwarul	(47) 20.04.2022
H01M 50/20	RAHMAN, Muhammad Mahbubur	(87) DE2012000140
H01M 6/50	(31) 20180018800	07.03.2013
(11) EP3756263	(32) 14.02.2018	(22) 16.02.2012
(21) EP19704341.7	(33) Korea (Republic)	(54) ELECTRIC MOTOR WITH IRONLESS
(47) 20.04.2022	(51) H02J 50/90	WINDING
(87) EP2019053924	B60L 53/35	(73) Patentverwertungsgesellschaft PaLiBa
29.08.2019	(11) EP3886293	GmbH
(22) 18.02.2019	(21) EP20165276.5	(72) HEINEMANN, Wolfgang
(54) LIGHTING DEVICE WITH BATTERY	(47) 20.04.2022	KASPER, Roland
HOUSING	(22) 24.03.2020	BORCHARDT, Norman
(73) Signify Holding B.V.	(54) WIRELESS CHARGING DEVICE FOR	(31) 102011111352
(72) ZONDAG, Eduard, Gerhard	BATTERY ELECTRIC VEHICLE	(32) 29.08.2011
MISHRA, Priya, Ranjan	(73) VOLVO CAR CORPORATION	(33) Germany
WENDT, Matthias	(72) BJÖRKHOLTZ, Jonas	(51) H02K 5/04
ACKERMANN, Bernd	ALMKVIST, Göran	H02K 5/24
MAJI, Goutam	(51) H02K 1/20	H02K 15/02
(31) 201841006734	H02P 6/08	H02K 5/08
18166101	H02K 1/32	(11) EP3591812
(32) 22.02.2018	H02K 3/47	(21) EP19183715.2
06.04.2018	H02K 7/14	(47) 20.04.2022
(33) India	H02K 9/06	(22) 01.07.2019
European Patent Office (EPO)	H02K 15/04	(54) ELECTRIC MOTOR AND METHOD FOR
(51) H02J 9/06	H02K 16/02	PRODUCING SAME
H02J 3/38	H02K 11/33	(73) Ovalo GmbH
H02J 7/34	(11) EP3518386	(31) 100864
H02J 3/46	(21) EP19151506.3	(32) 02.07.2018
(11) EP3625870	(47) 20.04.2022	(33) Luxembourg
(21) EP18723021.4	(22) 11.01.2019	(51) H02K 5/15
(47) 20.04.2022	(54) UNIVERSAL ELECTROMAGNETIC	H02K 5/22
(87) EP2018062694	MACHINE	(11) EP3378143
22.11.2018	(73) Carrier Corporation	(21) EP16795291.0
(22) 16.05.2018	(72) PIECH, Zbigniew	(47) 20.04.2022
	JEDRYCZKA, Cezary	(87) EP2016077198

26.05.2017	FRANZ, Georg	H02K 3/24
(22) 10.11.2016	BERTHELMANN, Jörg	H02K 9/20
(54) HOUSING COVER FOR AN ELECTRIC MACHINE	(31) 19205443	(11) EP3202022
(73) MELECS EWS GmbH	(32) 25.10.2019	(21) EP15808425.1
(72) NEUMANN, Philipp	(33) European Patent Office (EPO)	(47) 20.04.2022
NEUMANN, Gerhard	(51) H02K 15/02	(87) EP2015079601
GIRCZ, Patrick	H02K 1/24	04.08.2016
HELLINGER, Leopold	H02K 1/28	(22) 14.12.2015
(31) 509762015	H02K 29/06	(54) COOLING DEVICE FOR COOLING A HIGH-POLE-COUNT ROTOR
(32) 16.11.2015	(11) EP3084936	(73) Voith Patent GmbH
(33) Austria	(21) EP14781483.4	Siemens Aktiengesellschaft
(51) H02K 5/16	(47) 20.04.2022	(72) FRANK, Michael
F16C 41/04	(87) EP2014070254	KUMMETH, Peter
H02K 7/08	06.08.2015	VAN HASSELT, Peter
(11) EP3537573	(22) 23.09.2014	KUHNERT, Anne
(21) EP19160734.0	(54) RELUCTANCE ROTOR COMPRISING A LAMINATION HAVING AN OPENING FOR STRESS REDUCTION	GRUNDMANN, Jörn
(47) 20.04.2022	(73) Siemens Aktiengesellschaft	DENNERLEIN, Klaus
(22) 05.03.2019	(72) BALLWEG, Marion	(31) 102015201610
(54) FIXING ELEMENT FOR FIXING THE ROTOR SHAFT OF AN ELECTRIC MACHINE TO THE STATOR AND ELECTRIC MACHINE COMPRISING SUCH A FIXING ELEMENT	BÜTTNER, Klaus	(32) 30.01.2015
(73) Traktionssysteme Austria GmbH	(31) 14153448	(33) Germany
(72) WALCHER, Markus	(32) 31.01.2014	(51) H02M 1/00
(31) 501832018	(33) European Patent Office (EPO)	(11) EP2811630
(32) 06.03.2018	(51) H02K 23/36	(21) EP14170987.3
(33) Austria	H02P 7/292	(47) 20.04.2022
(51) H02K 9/06	H02P 7/03	(22) 03.06.2014
H02K 7/10	(11) EP3565094	(54) Power converter and power supplying method thereof
F01D 15/10	(21) EP17885546.6	(73) Delta Electronics, Inc.
F02C 7/26	(47) 20.04.2022	(72) Guo, Xing-Kuan
F02C 7/268	(87) CN2017118757	Xia, Li-Tao
F02C 7/275	05.07.2018	(31) 201310218924
H02K 11/33	(22) 26.12.2017	(32) 04.06.2013
H02K 7/14	(54) ELECTRIC DRIVE APPARATUS, DC MOTOR, AND ELECTRIC EQUIPMENT	(33) China
F02C 7/12	(73) University of Shanghai for Science and Technology	(51) H02M 1/00
(11) EP3662566	(72) LI, Shaolong	H02M 1/32
(21) EP18752581.1	JIN, Aijuan	H02M 7/483
(47) 20.04.2022	(31) 201710304284	(11) EP3163729
(87) FR2018051736	201710305173	(21) EP15815326.2
07.02.2019	201611236236	(47) 20.04.2022
(22) 10.07.2018	(32) 03.05.2017	(87) JP2015062065
(54) TURBOMACHINE WITH STARTER MOTOR WITH REVERSIBLE VENTILATION, AND ASSOCIATED COOLING METHOD	03.05.2017	07.01.2016
(73) Safran Electrical & Power	28.12.2016	(22) 21.04.2015
(72) FONTALBAT, Thierry	(33) China	(54) POWER CONVERSION DEVICE
ORLANDINI, Fabien	China	(73) Toshiba Mitsubishi-Electric Industrial Systems Corporation
CHALLAS, Florent	China	Mitsubishi Electric Corporation
(31) 1757325	(51) H02K 29/08	(72) SHINOMIYA Yasuhiro
(32) 31.07.2017	H02K 11/215	KOYANAGI Kimiyuki
(33) France	H02K 11/33	JIMICHI Takushi
(51) H02K 9/19	(11) EP3340445	TSUCHIYA Taichiro
H02K 21/24	(21) EP16837078.1	(31) 2014133972
H02K 3/04	(47) 20.04.2022	(32) 30.06.2014
H02K 16/00	(87) JP2016073746	(33) Japan
H02K 3/47	23.02.2017	(51) H02M 3/335
(11) EP3813237	(22) 12.08.2016	(11) EP2980976
(21) EP20153605.9	(54) ELECTRIC MOTOR	(21) EP15176634.2
(47) 20.04.2022	(73) Denso Corporation	(47) 20.04.2022
(22) 24.01.2020	(72) OMURA, Takehide	(22) 14.07.2015
(54) COIL MODULE FOR AN ELECTRIC MACHINE	OHSHITA, Takehiko	(54) SYSTEMS AND METHODS FOR SINGLE ACTIVE BRIDGE CONVERTERS
(73) Vaionic Technologies GmbH	SAITO, Takuya	(73) ABB Schweiz AG
(72) DOMINIK, Yannick	IWANAGA, Taishi	(72) SCHRAMM, Simon Herbert
	UCHIYAMA, Shigeki	EL-BARBARI, Said Farouk Said
	(31) 2015162119	(31) 201414447189
	(32) 19.08.2015	(32) 30.07.2014
	(33) Japan	(33) United States of America
	(51) H02K 55/04	

(51) H02M 3/337	DEVICE, AND REFRIGERATION	(32) 11.03.2011
(11) EP3796537	DEVICE AND AIR CLEANER	11.03.2011
(21) EP19198718.9	EMPLOYING SAID INVERTER DEVICE	(33) United States of America
(47) 20.04.2022	OR CONVERTER DEVICE	European Patent Office (EPO)
(22) 20.09.2019	(73) Daikin Industries, Ltd.	(51) H02P 25/22
(54) DUAL ACTIVE BRIDGE CONVERTER	(72) SATOU, Toshiaki	H02P 27/08
CELL WITH SPLIT ENERGY	MITSUI, Junya	H02M 7/5387
TRANSFER INDUCTOR FOR	NAKAJIMA, Yuuki	H02M 7/493
OPTIMIZED CURRENT BALANCING	(31) 2015257014	(11) EP3651351
IN THE MEDIUM FREQUENCY	(32) 28.12.2015	(21) EP17916934.7
TRANSFORMER (MFT)	(33) Japan	(47) 20.04.2022
(73) Hitachi Energy Switzerland AG	(51) H02M 7/12	(87) JP2017024353
(72) Canales, Francisco	H01F 27/00	10.01.2019
Drofenik, Uwe	H01F 41/00	(22) 03.07.2017
Gradinger, Thomas Bernhard	H02M 7/48	(54) POWER CONVERSION DEVICE AND
(51) H02M 3/337	H02M 5/458	ELECTRIC POWER STEERING DEVICE
H02M 7/217	H02M 7/5387	(73) Mitsubishi Electric Corporation
H02J 7/34	H02M 1/00	(72) MORI, Tatsuya
H02J 9/06	(11) EP3499703	FURUKAWA, Akira
H02M 1/00	(21) EP17856344.1	(51) H02P 27/08
H02M 1/32	(47) 20.04.2022	H02P 6/10
(11) EP3282571	(87) JP2017035239	H02P 23/03
(21) EP17184171.1	05.04.2018	H03M 3/00
(47) 20.04.2022	(22) 28.09.2017	(11) EP3809584
(22) 01.08.2017	(54) CURRENT ESTIMATING DEVICE	(21) EP19820247.5
(54) POWER CONVERTER WITH	(73) Daikin Industries, Ltd.	(47) 20.04.2022
EXTENDED HOLD-UP TIME	(72) OGAWA Takurou	(87) JP2019019708
(73) Schneider Electric IT Corporation	TOOYAMA Eiji	19.12.2019
(72) Chen, Hui-Jung	SEKIMOTO Morimitsu	(22) 17.05.2019
Klikic, Damir	SERA Akiko	(54) MOTOR CONTROL DEVICE
Lee, Kuo-Liang	(31) 2016194824	(73) Panasonic Intellectual Property
Chiang, Hsuang-Chang	(32) 30.09.2016	Management Co., Ltd.
(31) 201615229151	(33) Japan	(72) MASUDA, Takahiro
(32) 05.08.2016	(51) H02P 6/10	KISHIBE, Taro
(33) United States of America	H02P 21/00	(31) 2018114960
(51) H02M 7/00	H02P 21/22	(32) 15.06.2018
H05K 7/14	(11) EP3493396	(33) Japan
(11) EP3562020	(21) EP17833480.1	(51) H02P 29/60
(21) EP19175045.4	(47) 20.04.2022	H02P 29/66
(47) 20.04.2022	(87) CN2017093739	(11) EP3217539
(22) 15.06.2011	01.02.2018	(21) EP16204090.1
(54) POWER SEMICONDUCTOR DEVICE	(22) 20.07.2017	(47) 20.04.2022
AND POWER CONVERSION DEVICE	(54) MOTOR VECTOR CONTROL METHOD	(22) 14.12.2016
(73) Hitachi Astemo, Ltd.	AND APPARATUS, AND AIRCRAFT	(54) TEMPERATURE MONITORING
(72) FUJINO, Shinichi	(73) Guangzhou Xaircraft Technology Co.,	DEVICE, TEMPERATURE
SUWA, Tokihito	Ltd.	MONITORING METHOD,
KANEKO, Yujiro	(72) YU, Jiangtao	INFORMATION PROCESSING
SHIMURA, Takahiro	(31) 201610596989	PROGRAM AND RECORDING MEDIUM
TAKAGI, Yusuke	(32) 26.07.2016	(73) OMRON CORPORATION
(31) 2010140723	(33) China	(72) YAMAWAKI, Satoshi
(32) 21.06.2010	(51) H02P 25/024	HIRAO, Kentaro
(33) Japan	H02P 25/03	USHIYAMA, Takao
(51) H02M 7/04	H02P 9/12	(31) 2016048955
F24F 1/20	H02P 9/30	(32) 11.03.2016
H02M 3/28	(11) EP2684288	(33) Japan
H02M 7/48	(21) EP12708964.7	(51) H03F 1/56
H02J 3/12	(47) 20.04.2022	H03F 3/24
H02M 1/08	(87) IB2012050987	H04B 1/04
G01R 1/00	20.09.2012	H03H 7/40
(11) EP3399637	(22) 02.03.2012	H03H 7/42
(21) EP16881695.7	(54) SYNCHRONOUS MACHINE	(11) EP3457564
(47) 20.04.2022	COMPRISES AN EXCITATION	(21) EP18202310.1
(87) JP2016088396	CIRCUIT WITH A SWITCHING	(47) 20.04.2022
06.07.2017	ELEMENT	(22) 23.09.2011
(22) 22.12.2016	(73) BRUSA Elektronik AG	(54) CALIBRATE OUTPUT MATCHING FOR
(54) POWER SUPPLY DEVICE, INVERTER	(72) ILLIANO, Enzo	CORRECT OUTPUT POWER
DEVICE AND CONVERTER DEVICE	(31) 201161451988 P	(73) Telefonaktiebolaget LM Ericsson (publ)
EMPLOYING SAID POWER SUPPLY	11157883	(72) VAN DEN BOS, Norbert

HEIJNA, Roeland	18.09.2018	(33) United States of America
VISSER, Hendrik	(33) United States of America	(51) H04B 5/00
(31) 98242010	United States of America	H04W 12/00
38613310 P	(51) H03M 13/13	H04L 9/32
38605510 P	H03M 13/00	(11) EP3439190
(32) 30.12.2010	(11) EP3443677	(21) EP17184076.2
24.09.2010	(21) EP16757845.9	(47) 20.04.2022
24.09.2010	(47) 20.04.2022	(22) 31.07.2017
(33) United States of America	(87) EP2016069593	(54) IMPROVED NFC-CHIP READER
United States of America	22.02.2018	(73) InnoValor B.V.
United States of America	(22) 18.08.2016	(72) WEGDAM, Maarten
(51) H03K 3/023	(54) COMMUNICATION DEVICE AND	OOSTDIJK, Martijn Diederik
(11) EP3562038	COMMUNICATION METHOD USING	VAN WIETMARSCHEN, Tom Nicolaas
(21) EP18169851.5	POLAR CODES	NOORT, Wilhelmus
(47) 20.04.2022	(73) Huawei Technologies Co., Ltd.	(51) H04B 7/005
(22) 27.04.2018	(72) BELFIORE, Jean-Claude	H04L 27/26
(54) A COMPARATOR CIRCUIT	BIOGLIO, Valerio	H04W 16/10
(73) Vrije Universiteit Brussel	LAND, Ingmar	H04W 52/16
IMEC VZW	GABRY, Frederic	H04W 52/32
(72) GUERMANDI, Davide	(51) H04B 1/10	H04L 5/00
MATTIA, Oscar Elisio	(11) EP3681042	H04L 25/02
(51) H03K 17/693	(21) EP20151217.5	(11) EP3528393
H03K 17/10	(47) 20.04.2022	(21) EP19168361.4
(11) EP3534539	(22) 10.01.2020	(47) 20.04.2022
(21) EP19159431.6	(54) DETECTION AND TRACKING OF	(22) 06.10.2006
(47) 20.04.2022	INTERFERERS IN A RF SPECTRUM	(54) APPARATUS, METHOD AND
(22) 26.02.2019	WITH MULTI-LANE PROCESSING	COMPUTER PROGRAM PRODUCT
(54) BIAS CIRCUIT AND METHOD FOR A	(73) EXFO Inc.	PROVIDING COMMON PILOT
HIGH-VOLTAGE RF SWITCH	(72) LEVESQUE, Martin	CHANNEL FOR SOFT FREQUENCY
(73) Infineon Technologies AG	(31) 201962818935 P	REUSE
(72) SCHLEICHER, Bernd	201962790560 P	(73) Nokia Technologies Oy
SOLOMKO, Valentyn	(32) 15.03.2019	(72) HUGL, Klaus
KEHRER, Daniel	10.01.2019	TIRKKONEN, Olav
BAUDER, Ruediger	(33) United States of America	RINNE, Mika P.
(31) 201815908087	United States of America	(31) 724572 P
(32) 28.02.2018	(51) H04B 1/40	(32) 07.10.2005
(33) United States of America	H04B 1/525	(33) United States of America
(51) H03K 17/95	(11) EP3509221	(51) H04B 7/0456
H03K 17/955	(21) EP17846212.3	H04B 7/06
(11) EP3583696	(47) 20.04.2022	H04B 7/08
(21) EP17710998.0	(87) JP2017029929	H04L 1/16
(47) 20.04.2022	08.03.2018	H04L 1/18
(87) FR2017050356	(22) 22.08.2017	H04L 5/00
23.08.2018	(54) WIRELESS COMMUNICATION DEVICE	H04L 25/02
(22) 17.02.2017	(73) Murata Manufacturing Co., Ltd.	H04L 27/26
(54) METHOD FOR DETECTING A USER'S	(72) IBARAKI, Suguya	H04W 72/10
INTENTION TO LOCK OR UNLOCK	NIWA, Hiroyuki	(11) EP3618321
A MOTOR VEHICLE DOOR AND	AMACHI, Nobumitsu	(21) EP18791086.4
ASSOCIATED DEVICE	HORIBE, Takayuki	(47) 20.04.2022
(73) Vitesco Technologies GmbH	YOKOTE, Koudai	(87) KR2018004975
(72) SPICK, Gabriel	NAKAI, Ryuhei	01.11.2018
GUIBBERT, Mickael	HOSOKAWA, Toshihiro	(22) 27.04.2018
(51) H03L 7/089	KIDERA, Takuya	(54) METHOD FOR REPORTING CHANNEL
H03L 7/091	(31) 2016169966	STATE INFORMATION IN WIRELESS
H03L 7/093	(32) 31.08.2016	COMMUNICATION SYSTEM AND
H03L 7/107	(33) Japan	APPARATUS THEREFOR
H03L 7/113	(51) H04B 3/54	(73) LG Electronics Inc.
(11) EP3627706	(11) EP3605853	(72) KANG, Jiwon
(21) EP19194481.8	(21) EP19189272.8	PARK, Jonghyun
(47) 20.04.2022	(47) 20.04.2022	KIM, Hyungtae
(22) 29.08.2019	(22) 31.07.2019	PARK, Haewook
(54) CIRCUIT AND METHOD OF	(54) MAINTENANCE OVER AUXILIARY	(31) 201862616453 P
FREQUENCY DETECTION	POWER LINE	201762491318 P
(73) Samsung Display Co., Ltd.	(73) The Boeing Company	(32) 12.01.2018
(72) ABRAMZON, Valentin	(72) SHEFFIELD, Gregory L.	28.04.2017
(31) 201816197252	(31) 201816051430	(33) United States of America
201862732942 P	(32) 31.07.2018	United States of America
(32) 20.11.2018		(51) H04B 7/06

H04B 7/04	H04B 7/0413	(47) 20.04.2022
(11) EP3229382	H04W 16/28	(87) CN2018085417
(21) EP15865925.0	(11) EP3614572	15.11.2018
(47) 20.04.2022	(21) EP18788634.6	(22) 03.05.2018
(87) KR2015013086	(47) 20.04.2022	(54) OPTICAL IMPLEMENTATION OF A
09.06.2016	(87) CN2018073232	BUTLER MATRIX
(22) 02.12.2015	25.10.2018	(73) Huawei Technologies Co., Ltd.
(54) METHOD AND DEVICE FOR	(22) 18.01.2018	(72) EFFENBERGER, Frank
TRANSMITTING CONTROL CHANNEL	(54) METHOD AND APPARATUS FOR	LIU, Huiyuan
ON BASIS OF HYBRID BEAMFORMING	DETECTING BEAM	LIU, Xiang
IN WIRELESS COMMUNICATION	(73) Datang Mobile Communications	(31) 201815965579
SYSTEM	Equipment Co., Ltd.	201762505681 P
(73) LG Electronics Inc.	(72) DUAN, Tao	(32) 27.04.2018
(72) KIM, Kitae	WANG, Shihua	12.05.2017
LEE, Kilbom	MA, Jingyan	(33) United States of America
KIM, Heejin	WU, Jian	United States of America
KIM, Dongkyu	(31) 201710253987	<hr/>
KANG, Jiwon	(32) 18.04.2017	(51) H04J 14/02
(31) 201462086202 P	(33) China	H04Q 11/00
(32) 02.12.2014	(51) H04B 10/114	H04L 12/931
(33) United States of America	H04B 10/116	(11) EP3357180
<hr/>	(11) EP3729687	(21) EP16778438.8
(51) H04B 7/06	(21) EP18782792.8	(47) 20.04.2022
H04B 7/08	(47) 20.04.2022	(87) GB2016053030
H04B 7/0413	(87) IB2018056866	06.04.2017
H04W 16/28	14.03.2019	(22) 29.09.2016
(11) EP3185449	(22) 10.09.2018	(54) OPTOELECTRONIC SWITCH
(21) EP15834571.0	(54) SYSTEM FOR TRANSMITTING DATA	(73) Rockley Photonics Limited
(47) 20.04.2022	BY MEANS OF OPTICAL RADIATION	(72) RICKMAN, Andrew George
(87) JP2015003159	BY MEANS OF DIFFUSION BY A	(31) 201562234454 P
25.02.2016	PLURALITY OF SOURCES AND	(32) 29.09.2015
(22) 24.06.2015	ASSOCIATED METHOD	(33) United States of America
(54) MIMO TRAINING METHOD AND RADIO	(73) Slux Sagl	<hr/>
DEVICE	(72) PASQUALI, Alessandro	(51) H04J 99/00
(73) Panasonic Corporation	(31) 11222017	H04W 72/12
(72) HUANG, Lei	(32) 08.09.2017	H04L 5/00
(31) 2014165725	(33) Switzerland	H04W 52/34
(32) 18.08.2014	(51) H04H 40/18	(11) EP3223444
(33) Japan	H04H 20/20	(21) EP15861341.4
<hr/>	(11) EP3148103	(47) 20.04.2022
(51) H04B 7/06	(21) EP15187134.0	(87) JP2015074943
H04B 7/08	(47) 20.04.2022	26.05.2016
H04L 5/00	(22) 28.09.2015	(22) 02.09.2015
H04W 16/28	(54) AUDIO DATA PROCESSING	(54) BASE STATION AND TERMINAL
H04W 56/00	(73) NXP B.V.	DEVICE
H04W 76/28	(72) Kessel, Martin	(73) Sony Group Corporation
H04W 52/02	Schattka, Matthias	(72) KIMURA, Ryota
(11) EP3665959	Bohn, Sebastian	TSUDA, Shinichiro
(21) EP18749945.4	(51) H04H 60/04	TAKANO, Hiroaki
(47) 20.04.2022	(11) EP3021504	(31) 2014236428
(87) US2018042055	(21) EP15194755.3	(32) 21.11.2014
14.02.2019	(47) 20.04.2022	(33) Japan
(22) 13.07.2018	(22) 16.11.2015	<hr/>
(54) DISCONTINUOUS RECEPTION WAKE	(54) AUDIO SIGNAL PROCESSING DEVICE	(51) H04L 1/00
UP PROCEDURES	(73) YAMAHA CORPORATION	H03M 13/09
(73) Qualcomm Incorporated	(72) TANAKA, Takumi	H04L 1/18
(72) ISLAM, Muhammad Nazmul	NISHIKORI, Taku	H03M 13/11
SAMPATH, Ashwin	(31) 2014233019	(11) EP3550749
CEZANNE, Juergen	(32) 17.11.2014	(21) EP18736178.7
LUO, Jianghong	(33) Japan	(47) 20.04.2022
NAGARAJA, Sumeeth	(51) H04J 14/00	(87) CN2018071643
SUBRAMANIAN, Sundar	H04B 10/2575	12.07.2018
(31) 201816033013	H01Q 3/26	(22) 05.01.2018
201762544729 P	H01Q 3/40	(54) INFORMATION PROCESSING
(32) 11.07.2018	H04Q 11/00	METHOD, DEVICE AND
11.08.2017	H04B 7/06	COMMUNICATION SYSTEM
(33) United States of America	(11) EP3607679	(73) Huawei Technologies Co., Ltd.
United States of America	(21) EP18797756.6	(72) WEI, Yuejun
<hr/>		MA, Liang
(51) H04B 7/08		ZHENG, Chen
H04B 7/06		LIU, Xiaojian

XIONG, Jie	(33) China	14.03.2019
ZENG, Xin	(51) H04L 1/00	(22) 10.09.2018
(31) 201710008135	H04L 1/16	(54) TECHNIQUES AND APPARATUSES
(32) 05.01.2017	H04L 5/00	FOR HARQ-ACK TIMELINE
(33) China	H04L 1/18	INDICATION AND HARQ-ACK
(51) H04L 1/00	(11) EP3676984	MULTIPLEXING AND BUNDLING IN
H03M 13/11	(21) EP19753628.7	NEW RADIO
(11) EP3654557	(47) 20.04.2022	(73) QUALCOMM Incorporated
(21) EP18832612.8	(87) KR2019001781	(72) WANG, Renqiu
(47) 20.04.2022	22.08.2019	SADIQ, Bilal
(87) CN2018093333	(22) 13.02.2019	CHEN, Wanshi
17.01.2019	(54) METHOD AND APPARATUS FOR	LEE, Heechoon
(22) 28.06.2018	MAPPING UPLINK CONTROL	YANG, Yang
(54) CODE BLOCK SEGMENTATION	INFORMATION IN WIRELESS	MONTOJO, Juan
METHOD, TERMINAL, AND BASE	COMMUNICATION SYSTEM	HUANG, Yi
STATION	(73) Samsung Electronics Co., Ltd.	(31) 201816125222
(73) Datang Mobile Communications	(72) YEO, Jeongho	201762556800 P
Equipment Co., Ltd.	CHOI, Seunghoon	(32) 07.09.2018
(72) WANG, Jiaqing	PARK, Sungjin	11.09.2017
CHENG, Fangchen	OH, Jinyoung	(33) United States of America
SUN, Shaohui	(31) 20180018072	United States of America
(31) 201710576847	(32) 13.02.2018	(51) H04L 1/18
(32) 14.07.2017	(33) Korea (Republic)	H04L 5/00
(33) China	(51) H04L 1/00	H04L 27/26
(51) H04L 1/00	H04L 5/00	H04W 8/24
H04B 7/06	(11) EP3707836	H04W 72/04
(11) EP3611858	(21) EP18803606.5	(11) EP3574601
(21) EP19754924.9	(47) 20.04.2022	(21) EP18717769.6
(47) 20.04.2022	(87) EP2018080777	(47) 20.04.2022
(87) CN2019074539	16.05.2019	(87) US2018023802
22.08.2019	(22) 09.11.2018	27.09.2018
(22) 02.02.2019	(54) MORE EFFICIENT USE OF A SINGLE-	(22) 22.03.2018
(54) CHANNEL STATE INFORMATION	CHANNEL RECEIVER FOR RECEIVING	(54) USER EQUIPMENT PROVISION
REPORTING METHOD AND	MULTI-CHANNEL TRANSMISSION	OF ENHANCED CAPABILITY
COMMUNICATION DEVICE	(73) Fraunhofer-Gesellschaft zur Förderung	INFORMATION FOR HARQ
(73) Huawei Technologies Co. Ltd.	der angewandten Forschung e.V.	PROCESSING
(72) JIN, Huangping	(72) BERNHARD, Josef	(73) Apple Inc.
DAI, Shengchen	KNEISSL, Jakob	(72) KIM, Yuchul
GE, Yiquan	OBERNOSTERER, Frank	MUCKE, Christian W.
WANG, Jian	MEYER, Raimund	ZENG, Wei
DU, Yinggang	WECHSLER, Johannes	ZHANG, Dawei
WANG, Jun	KILIAN, Gerd	(31) 201815920667
LI, Rong	(31) 102017220063	201762475416 P
(31) 201810162843	(32) 10.11.2017	(32) 14.03.2018
201810150978	(33) Germany	23.03.2017
(32) 27.02.2018	(51) H04L 1/00	(33) United States of America
13.02.2018	H04L 27/00	United States of America
(33) China	(11) EP3439212	(51) H04L 5/00
China	(21) EP17803024.3	G06F 1/04
(51) H04L 1/00	(47) 20.04.2022	H03M 9/00
H04J 13/00	(87) KR2017005270	H04L 25/03
H04L 1/24	30.11.2017	H04L 25/02
H04W 74/08	(22) 22.05.2017	H04L 7/00
(11) EP3537837	(54) SIGNAL TRANSMISSION OR	H04L 7/033
(21) EP17885314.9	RECEPTION METHOD AND	(11) EP3646520
(47) 20.04.2022	APPARATUS THEREFOR IN WIRELESS	(21) EP18835777.6
(87) CN2017115949	COMMUNICATION SYSTEM	(47) 20.04.2022
28.06.2018	(73) LG Electronics Inc.	(87) CN2018094643
(22) 13.12.2017	(72) KIM, Hyungtae	24.01.2019
(54) METHOD AND DEVICE FOR	SEO, Inkwon	(22) 05.07.2018
DETECTING SIGNATURE SEQUENCE	(31) 201662341639 P	(54) FREQUENCY/PHASE-SHIFT-KEYING
IN WIRELESS COMMUNICATION	(32) 26.05.2016	FOR BACK-CHANNEL SERDES
SYSTEM	(33) United States of America	COMMUNICATION
(73) Datang Mobile Communications	(51) H04L 1/18	(73) Huawei Technologies Co., Ltd.
Equipment Co., Ltd.	(11) EP3682577	(72) CHAN CARUSONE,Anthony
(72) CHEN, Xianguo	(21) EP18779163.7	TONIETTO, Davide
(31) 201611191044	(47) 20.04.2022	DUNWELL, Dustin Tarl
(32) 21.12.2016	(87) US2018050278	(31) 201715656938

(32) 21.07.2017	(51) H04L 5/00	H04W 72/04
(33) United States of America	H04L 5/16	H04B 1/713
(51) H04L 5/00	H04B 1/713	H04W 92/18
H04B 7/0456	H04L 29/08	(11) EP3176974
H04L 1/00	H04W 4/40	(21) EP15828310.1
H04B 7/06	H04W 72/04	(47) 20.04.2022
H04L 1/18	H04B 1/69	(87) KR2015007844
H04W 72/04	(11) EP3349388	04.02.2016
H04L 27/26	(21) EP16844763.9	(22) 28.07.2015
(11) EP3461051	(47) 20.04.2022	(54) METHOD AND APPARATUS FOR
(21) EP18184279.0	(87) KR2016010268	TRANSMITTING SIGNAL IN WIRELESS
(47) 20.04.2022	16.03.2017	COMMUNICATION SYSTEM
(22) 07.09.2010	(22) 12.09.2016	(73) LG Electronics Inc.
(54) METHOD FOR MULTIPLEXING	(54) METHOD FOR TRANSMITTING	(72) KIM, Youngtae
CONTROL AND DATA CHANNELS IN A	SIGNAL FOR V2X COMMUNICATION IN	CHAE, Hyukjin
MULTIPLE INPUT, MULTIPLE OUTPUT	WIRELESS COMMUNICATION SYSTEM	(31) 201462031835 P
COMMUNICATIONS SYSTEM	AND DEVICE FOR SAME	(32) 31.07.2014
(73) HUAWEI TECHNOLOGIES CO., LTD.	(73) LG Electronics Inc.	(33) United States of America
(72) XIAO, Weimin	(72) KIM, Youngtae	(51) H04L 5/00
BLANKENSHIP, Yufei	CHAE, Hyukjin	H04W 72/04
JIN, Ying	SEO, Hanbyul	H04W 72/14
(31) 85633310	(31) 201562217036 P	H04W 52/02
29398510 P	(32) 11.09.2015	H04W 74/00
(32) 13.08.2010	(33) United States of America	H04W 8/26
11.01.2010	(51) H04L 5/00	H04L 27/26
(33) United States of America	H04L 27/26	(11) EP3306850
United States of America	H04J 11/00	(21) EP17201708.9
(51) H04L 5/00	H04W 16/28	(47) 20.04.2022
H04L 1/18	H04W 88/02	(22) 02.05.2008
(11) EP3518592	H04W 88/08	(54) METHOD AND APPARATUS FOR
(21) EP17853107.5	(11) EP2899908	TRANSMITTING AND RECEIVING
(47) 20.04.2022	(21) EP13840034.6	CONTROL CHANNELS BY
(87) JP2017034013	(47) 20.04.2022	RESTRICTING A SET OF THE
29.03.2018	(87) JP2013074037	CONTROL CHANNELS IN A WIRELESS
(22) 21.09.2017	27.03.2014	COMMUNICATION SYSTEM
(54) USER TERMINAL, RADIO	(22) 06.09.2013	(73) Samsung Electronics Co., Ltd.
COMMUNICATION METHOD,	(54) BASE STATION DEVICE, MOBILE	(72) KWAK, Yong-Jun
RADIO BASE STATION AND RADIO	STATION DEVICE, COMMUNICATION	KWON, Hwan-Joon
COMMUNICATION SYSTEM	METHOD, AND INTEGRATED CIRCUIT	CHO, Joon-Young
(73) NTT DOCOMO, INC.	(73) Sharp Kabushiki Kaisha	HAN, Jin-Kyu
(72) NAGATA, Satoshi	(72) NOGAMI, Toshizo	HEO, Youn-Hyoung
TAKEDA, Kazuki	IMAMURA, Kimihiko	Lee, Ju-Ho
TAKEDA, Kazuaki	SHIMEZAWA, Kazuyuki	WANG, Ping
MU, Qin	(31) 2012206440	(31) 20070079269
WANG, Lihui	(32) 20.09.2012	20070042817
(31) 2016184786	(33) Japan	(32) 07.08.2007
(32) 21.09.2016	(51) H04L 5/00	02.05.2007
(33) Japan	H04W 72/04	(33) Korea (Republic)
(51) H04L 5/00	(11) EP3767870	Korea (Republic)
H04L 5/14	(21) EP20195923.6	(51) H04L 5/00
H04W 72/04	(47) 20.04.2022	H04W 72/12
H04W 8/00	(22) 01.08.2013	H04W 72/04
H04W 56/00	(54) UPLINK CONTROL CHANNEL	H04L 1/18
H04W 88/02	RESOURCE ALLOCATION FOR	(11) EP3192317
(11) EP3113560	AN ENHANCED DOWNLINK	(21) EP15840597.7
(21) EP14886230.3	CONTROL CHANNEL OF A MOBILE	(47) 20.04.2022
(47) 20.04.2022	COMMUNICATION SYSTEM	(87) SE2015050960
(87) CN2014073898	(73) BlackBerry Limited	17.03.2016
24.09.2015	(72) GAO, Shiwei	(22) 14.09.2015
(22) 21.03.2014	HARRISON, Robert Mark	(54) RADIO NODE, WIRELESS DEVICE
(54) APPARATUS FOR CONFIGURING	BLANKENSHIP, Yufei Wu	AND METHODS FOR CARRIER
POSITION OF FREQUENCY	(31) 201361753731 P	AGGREGATION CONTROL
RESOURCE	201261679037 P	INFORMATION
(73) Huawei Technologies Co., Ltd.	(32) 17.01.2013	(73) Telefonaktiebolaget LM Ericsson (publ)
(72) FAN, Xiaohan	02.08.2012	(72) HOYMANN, Christian
DAI, Xizeng	(33) United States of America	CHENG, Jung-Fu
ZHENG, Juan	United States of America	STATTIN, Magnus
CUI, Jie	(51) H04L 5/00	LARSSON, Daniel

PARKVALL, Stefan	(73) Huawei Technologies Co., Ltd.	H04L 67/10
(31) 201462049908 P	(72) WU, Rong	(11) EP3646549
(32) 12.09.2014	ZHANG, Bo	(21) EP18732598.0
(33) United States of America	GAN, Lu	(47) 20.04.2022
(51) H04L 7/04	(31) 201710060318	(87) US2018035240
G06N 3/04	201610592312	03.01.2019
G06N 3/08	201610511486	(22) 31.05.2018
(11) EP3700121	PCT/CN2017/078312	(54) FIREWALL CONFIGURATION
(21) EP20155580.2	(32) 24.01.2017	MANAGER
(47) 20.04.2022	25.07.2016	(73) Microsoft Technology Licensing, LLC
(22) 05.02.2020	01.07.2016	(72) ELYASHAR, Gilad
(54) METHOD AND APPARATUS	27.03.2017	KLIGER, Ben
FOR PROVIDING TIMING	(33) China	BARGURY, Michael Zeev
SYNCHRONIZATION	China	ISRAEL, Moshe
(73) Nokia Technologies Oy	China	(31) 201715634554
(72) HOYDIS, Jakob	World Intellectual Property Office (WIPO)	(32) 27.06.2017
AIT AOUDIA, Faycal	(51) H04L 9/32	(33) United States of America
(31) 20195085	H04L 29/06	(51) H04L 9/40
(32) 06.02.2019	G06F 21/31	H04L 67/12
(33) Finland	G06F 21/62	(11) EP3937451
(51) H04L 9/00	H04L 29/08	(21) EP20184912.2
G06F 21/62	(11) EP3785398	(47) 20.04.2022
H04L 29/06	(21) EP18722005.8	(22) 09.07.2020
H04W 12/02	(47) 20.04.2022	(54) METHOD FOR PRODUCING AN
G16H 10/60	(87) EP2018060794	ENCRYPTED CONNECTION
(11) EP3659291	31.10.2019	(73) HAUSHELD Aktiengesellschaft
(21) EP18750375.0	(22) 26.04.2018	(72) Stoffelsma, Bouke Christiaan
(47) 20.04.2022	(54) METHODS FOR MULTI-FACTOR	(51) H04L 12/10
(87) EP2018070530	ACCESS CONTROL IN ANONYMOUS	H04L 12/40
31.01.2019	SYSTEMS	H04L 12/12
(22) 30.07.2018	(73) SECLOUS GmbH	G06F 1/26
(54) EVALUATION OF A MONITORING	(72) REHNELT, Kai	H05B 33/08
FUNCTION	(51) H04L 9/40	H05B 45/50
(73) Koninklijke Philips N.V.	(11) EP3490216	H05B 45/37
(72) VAN LIESDONK, Peter, Petrus	(21) EP17830446.5	(11) EP3221999
VEENINGEN, Meilof, Geert	(47) 20.04.2022	(21) EP15846625.0
(31) 201762538035 P	(87) CN2017093194	(47) 20.04.2022
(32) 28.07.2017	25.01.2018	(87) US2015053053
(33) United States of America	(22) 17.07.2017	07.04.2016
(51) H04L 9/06	(54) RISK IDENTIFICATION METHOD,	(22) 29.09.2015
G09C 1/00	RISK IDENTIFICATION APPARATUS,	(54) POWER OVER ETHERNET POWERED
H04B 1/707	AND CLOUD RISK IDENTIFICATION	DEVICE AUTOMATIC MAINTAINING
H04L 9/08	APPARATUS AND SYSTEM	POWER SIGNATURE
(11) EP3618344	(73) Advanced New Technologies Co., Ltd.	(73) Texas Instruments Incorporated
(21) EP17915496.8	(72) GU, Xi	(72) JACOBS, Karl H.
(47) 20.04.2022	XIA, Jupeng	ABRAMSON, David N.
(87) JP2017023646	LI, Caiwei	PICARD, Jean
03.01.2019	(31) 201610587586	(31) 201514867635
(22) 27.06.2017	(32) 22.07.2016	201462057028 P
(54) CODE GENERATION DEVICE, CODE	(33) China	(32) 28.09.2015
GENERATION METHOD AND CODE	(51) H04L 9/40	29.09.2014
GENERATION PROGRAM	G06F 21/41	(33) United States of America
(73) Mitsubishi Electric Corporation	(11) EP3854049	United States of America
(72) SORIMACHI, Toru	(21) EP19744953.1	(51) H04L 12/24
(51) H04L 9/08	(47) 20.04.2022	(11) EP3467643
H04W 12/02	(87) US2019039663	(21) EP18198153.1
H04W 12/10	26.03.2020	(47) 20.04.2022
H04L 29/06	(22) 28.06.2019	(22) 02.10.2018
H04W 12/00	(54) NONCE HANDLER FOR SINGLE SIGN	(54) GRAPHICAL USER
(11) EP3481000	ON AUTHENTICATION IN REVERSE	INTERFACES FOR DYNAMIC
(21) EP17818933.8	PROXY SOLUTIONS	INFORMATION TECHNOLOGY
(47) 20.04.2022	(73) Microsoft Technology Licensing, LLC	PERFORMANCE ANALYTICS AND
(87) CN2017083265	(72) MALIK, Vikas	RECOMMENDATIONS
04.01.2018	MARDIKS RAPPAPORT, Nir	(73) ServiceNow, Inc.
(22) 05.05.2017	(31) 201816138488	(72) JOHAL, Amanjit
(54) METHOD AND APPARATUS	(32) 21.09.2018	SINGH, Manjeet
FOR CONFIGURING KEY AND	(33) United States of America	KHAN, Mohammed Abdul Farhan
DETERMINING SECURITY POLICY	(51) H04L 9/40	KULKARNI, Abhay

(31) 201715786398 201762568087 P	(31) 1162444 (32) 23.12.2011 (33) France	(54) ORTHOGONAL TIME FREQUENCY SPACE MODULATION OVER A PLURALITY OF NARROW BAND SUBCARRIERS
(32) 17.10.2017 04.10.2017	(51) H04L 12/28	(73) Cohere Technologies, Inc.
(33) United States of America United States of America	H04L 12/24	(72) HADANI, Ronny
(51) H04L 12/24	(11) EP3639483	RAKIB, Shlomo Selim
H04L 12/26	(21) EP18735661.3	(31) 201562215126 P
H04L 12/751	(47) 20.04.2022	201562191468 P
H04L 12/721	(87) FR2018051321	(32) 07.09.2015
H04L 12/733	20.12.2018	12.07.2015
H04L 29/12	(22) 07.06.2018	(33) United States of America
H04L 12/725	(54) METHOD FOR CONFIGURING A CENTRAL CONTROL UNIT	United States of America
H04L 12/749	BELONGING TO A HOME AUTOMATION SYSTEM	(51) H04L 25/02
(11) EP3692689	(73) Overkiz	H04L 27/26
(21) EP18792797.5	(72) POGNANT, Sylvain	(11) EP3523937
(47) 20.04.2022	(31) 1755373	(21) EP17783633.5
(87) US2018054463	(32) 14.06.2017	(47) 20.04.2022
11.04.2019	(33) France	(87) US2017053295
(22) 04.10.2018	(51) H04L 12/717	19.04.2018
(54) SEGMENT ROUTING NETWORK SIGNALING AND PACKET PROCESSING	H04L 12/715	(22) 25.09.2017
(73) Cisco Technology, Inc.	H04L 12/725	(54) FRAME FORMAT WITH DUAL MODE CHANNEL ESTIMATION FIELD
(72) FILSFILS, Clarence	H04W 76/11	(73) QUALCOMM Incorporated
PIGNATARO, Carlos M.	H04L 12/46	(72) EITAN, Alecsander Petru
IQBAL, Faisal	(11) EP3306869	KASHER, Assaf Yaakov
BASHANDY, Ahmed Refaat	(21) EP16799013.4	SANDEROVICH, Amichai
ALI, Zafar	(47) 20.04.2022	(31) 201715713690
NAINAR, Nagendra Kumar	(87) CN2016070076	201662406270 P
RAZA, Syed Kamran	01.12.2016	(32) 24.09.2017
RAJAMANICKAM, Jaganbabu	(22) 04.01.2016	10.10.2016
YADAV, Bhupendra	(54) MESSAGE FORWARDING METHOD, APPARATUS AND SYSTEM	(33) United States of America
GANDHI, Rakesh	(73) ZTE Corporation	United States of America
(31) 201715841276	(72) AO, Ting	(51) H04L 27/26
201762567823 P	WU, Bo	(11) EP3577869
(32) 13.12.2017	(31) 201510283760	(21) EP18705752.6
04.10.2017	(32) 28.05.2015	(47) 20.04.2022
(33) United States of America	(33) China	(87) US2018015409
United States of America	(51) H04L 12/851	09.08.2018
(51) H04L 12/24	H04L 12/26	(22) 26.01.2018
H04L 12/841	H04L 12/741	(54) UPLINK MIMO REFERENCE SIGNALS AND DATA TRANSMISSION SCHEMES
(11) EP3695564	H04L 29/12	(73) Qualcomm Incorporated
(21) EP18779689.1	H04L 12/24	(72) HUANG, Yi
(47) 20.04.2022	H04L 29/06	GAAL, Peter
(87) EP2018076929	H04L 29/08	CHEN, Wanshi
18.04.2019	(11) EP3261304	XU, Hao
(22) 03.10.2018	(21) EP15885012.3	WANG, Renqiu
(54) METHOD AND APPARATUS FOR ANALYZING A COAXIAL NETWORK INFRASTRUCTURE	(47) 20.04.2022	BHUSHAN, Naga
(73) InCoax Networks AB	(87) CN2015074460	MANOLAKOS, Alexandros
(72) KARLSSON, Carl	22.09.2016	ZENG, Wei
(31) 17195547	(22) 18.03.2015	PARK, Seyong
(32) 09.10.2017	(54) METHOD AND APPARATUS FOR PERFORMING COMMUNICATION IN SOFTWARE-DEFINED NETWORKING, AND COMMUNICATIONS SYSTEM	(31) 201715713270
(33) European Patent Office (EPO)	(73) Huawei Technologies Co., Ltd.	201762455558 P
(51) H04L 12/28	(72) ZHANG, Wei	(32) 22.09.2017
(11) EP3442169	(51) H04L 23/02	06.02.2017
(21) EP18198270.3	H04J 11/00	(33) United States of America
(47) 20.04.2022	H04L 27/26	United States of America
(22) 14.12.2012	H04L 5/00	(51) H04L 27/26
(54) CONTROL SYSTEM FOR PLAYING BACK A DATA STREAM ON A RECEIVER DEVICE	(11) EP3320659	(11) EP3324592
(73) ORANGE	(21) EP16825036.3	(21) EP16199382.9
(72) CAPDEVIELLE, Marc	(47) 20.04.2022	(47) 20.04.2022
CONAN, Martin	(87) US2016041894	(22) 17.11.2016
CAZOULAT, Renaud	19.01.2017	(54) PROCESSING WIRELESS COMMUNICATION SIGNALS
	(22) 12.07.2016	(73) Nokia Technologies Oy
		(72) BONFANTE, Andrea
		FANG, Dong

GUAN, Lei	(32) 27.07.2016	201510424501
CLAUSSEN, Holger	(33) United States of America	(32) 31.03.2016
(51) H04L 29/06	(51) H04L 29/06	17.07.2015
(11) EP3673632	H04L 29/08	(33) China
(21) EP18753433.4	H04W 12/00	China
(47) 20.04.2022	G06F 21/00	(51) H04L 29/08
(87) EP2018072550	H04W 12/082	(11) EP3656109
28.02.2019	H04W 12/084	(21) EP18753496.1
(22) 21.08.2018	H04W 12/63	(47) 20.04.2022
(54) OPTIMISING MULTICAST VIDEO	H04W 12/77	(87) US2018042062
DELIVERY IN A WIRELESS NETWORK	G06F 21/42	24.01.2019
(73) British Telecommunications public limited	(11) EP3419251	(22) 13.07.2018
company	(21) EP17752651.4	(54) METHOD FOR MANAGING SESSIONS
(72) FARROW, Nicholas	(47) 20.04.2022	USING WEB SOCKETS
(31) 17187983	(87) CN2017072957	(73) Citrix Systems Inc.
(32) 25.08.2017	24.08.2017	(72) BOWDEN, Kenneth Scott
(33) European Patent Office (EPO)	(22) 06.02.2017	(31) 201715654522
(51) H04L 29/06	(54) USER POSITION VERIFICATION	(32) 19.07.2017
H04L 9/32	METHOD, CONTROLLED DEVICE	(33) United States of America
H04W 12/06	ACCESS METHOD, CONTROLLED	(51) H04L 29/08
G06F 21/62	DEVICE AND USER TERMINAL	G06F 3/06
(11) EP3646214	(73) Tencent Technology (Shenzhen)	(11) EP3331218
(21) EP18822628.6	Company Limited	(21) EP16829864.4
(47) 20.04.2022	(72) ZHANG, Wenying	(47) 20.04.2022
(87) US2018040055	(31) 201610095330	(87) CN2016092005
03.01.2019	(32) 19.02.2016	02.02.2017
(22) 28.06.2018	(33) China	(22) 28.07.2016
(54) THIRD-PARTY AUTHORIZATION	(51) H04L 29/06	(54) METHOD AND DEVICE FOR LEVELING
SUPPORT FOR INTERACTIVE	H04L 29/08	LOAD OF DISTRIBUTED DATABASE
COMPUTING ENVIRONMENT	H04W 12/00	(73) Tencent Technology (Shenzhen)
FUNCTIONS	H04W 88/16	Company Limited
(73) Equifax, Inc.	H04W 12/10	(72) ZOU, Runmou
(72) TALWAR, Hrishi	H04W 12/67	(31) 201510456585
(31) 201762526763 P	(11) EP3528456	(32) 29.07.2015
(32) 29.06.2017	(21) EP19157496.1	(33) China
(33) United States of America	(47) 20.04.2022	(51) H04L 29/08
(51) H04L 29/06	(22) 15.02.2019	G06F 3/12
H04L 29/08	(54) SECURITY MANAGEMENT IN	(11) EP3382995
H04L 12/931	COMMUNICATION SYSTEMS	(21) EP17200428.5
H04J 14/02	WITH NETWORK FUNCTION	(47) 20.04.2022
(11) EP3370392	ASSISTED MECHANISM TO SECURE	(22) 07.11.2017
(21) EP18162903.1	INFORMATION ELEMENTS	(54) SERVER SYSTEM AND COMPUTER
(47) 20.04.2022	(73) Nokia Technologies Oy	PROGRAM FOR SERVER SYSTEM
(22) 09.10.2015	(72) JERICHOW, Anja	(73) BROTHER KOGYO KABUSHIKI KAISHA
(54) CONTROLLER-TO-CONTROLLER	NAIR, Suresh	(72) OHARA, Kiyotaka
INTERFACE FOR MULTI-LAYER	S BYKAMPADI, Nagendra	IKEDO, Tatsuhiko
NETWORK ABSTRACTION	(31) 201841005885	(31) 2017071975
(73) Juniper Networks, Inc.	(32) 15.02.2018	(32) 31.03.2017
(72) CHERUATHUR, Sudhir	(33) India	(33) Japan
BARTH, Jonathan Colby	(51) H04L 29/06	(51) H04L 29/08
(31) 201414515074	H04L 29/12	G06F 9/451
(32) 15.10.2014	H04L 12/715	G06F 9/445
(33) United States of America	H04L 12/741	H04L 12/26
(51) H04L 29/06	H04L 12/947	(11) EP3014431
H04L 29/08	H04L 12/723	(21) EP14816638.2
H04N 21/222	H04L 29/08	(47) 20.04.2022
H04N 21/2347	(11) EP3322147	(87) US2014044131
(11) EP3276912	(21) EP16827134.4	31.12.2014
(21) EP17183636.4	(47) 20.04.2022	(22) 25.06.2014
(47) 20.04.2022	(87) CN2016085990	(54) MANAGEMENT OF COMPUTING
(22) 27.07.2017	26.01.2017	SESSIONS
(54) SEGMENTED ENCRYPTION FOR	(22) 16.06.2016	(73) Amazon Technologies, Inc.
CONTENT DELIVERY	(54) MESSAGE TRANSMISSION METHODS,	(72) TELLVIK, Erik, Jonathon
(73) Comcast Cable Communications LLC	ACCESS CONTROLLER AND ACCESS	BROWN, David, Everard
(72) Barkley, James	APPARATUS	SURYANARAYANAN, Deepak
Gaydos, Robert	(73) Huawei Technologies Co., Ltd.	BRACE, Colin, Harrison
Mao, Weidong	(72) ZHENG, Ruobin	FARRELL, Eugene, Michael
(31) 201615221056	(31) 201610201117	LAKSHMANAN, Vivek

(31) 201313928283	(47) 20.04.2022	(31) 201816114160
(32) 26.06.2013	(22) 11.02.2019	(32) 27.08.2018
(33) United States of America	(54) ROUTING FOR LARGE SERVER	(33) United States of America
(51) H04L 29/08	DEPLOYMENTS	(51) H04M 1/02
H04L 12/58	(73) Capital One Services, LLC	G06F 1/16
H04L 12/18	(72) ABDI TAGHI ABAD, Fardin	(11) EP3813341
H04L 29/06	WALTERS, Austin	(21) EP18926918.6
H04W 4/06	GOODSITT, Jeremy	(47) 20.04.2022
H04W 4/08	(31) 201815892795	(87) CN2018108548
H04W 4/16	(32) 09.02.2018	23.01.2020
H04W 4/12	(33) United States of America	(22) 29.09.2018
(11) EP3447998	(51) H04L 29/08	(54) TERMINAL
(21) EP18190091.1	H04L 29/14	(73) Honor Device Co., Ltd.
(47) 20.04.2022	(11) EP3416353	(72) FAN, Xuanrui
(22) 21.08.2018	(21) EP17176453.3	LI, Chenlong
(54) METHOD FOR DYNAMIC FILTERING	(47) 20.04.2022	(31) 201810779191
OF A GROUP COMMUNICATION	(22) 16.06.2017	(32) 16.07.2018
(73) Streamwide	(54) METHOD FOR IMPROVED OPERATION	(33) China
(72) ROLLAND, Laëtitia	OF A TELECOMMUNICATIONS	(51) H04M 1/02
(31) 1757822	NETWORK, TELECOMMUNICATIONS	H04M 1/03
(32) 23.08.2017	NETWORK, COMPUTER PROGRAM	G01N 33/00
(33) France	AND COMPUTER PROGRAM	(11) EP3739856
(51) H04L 29/08	PRODUCT	(21) EP20184338.0
H04L 12/811	(73) Deutsche Telekom AG	(47) 20.04.2022
(11) EP3092754	(72) HOLLSTEIN, Christian	(22) 05.12.2018
(21) EP15733188.5	(51) H04L 47/24	(54) ELECTRONIC DEVICE HAVING
(47) 20.04.2022	H04L 47/32	STRUCTURE WITH GAS SENSOR
(87) US2015010353	H04L 47/2408	(73) Samsung Electronics Co., Ltd.
09.07.2015	(11) EP3557824	(72) SIM, Bokyoung
(22) 06.01.2015	(21) EP16924301.1	JO, Jeonggyu
(54) CLIENT/SERVER SIGNALING	(47) 20.04.2022	SON, Dongil
COMMANDS FOR DASH	(87) KR2016014895	KANG, Seunggoo
(73) Apple Inc.	28.06.2018	(31) 20170166204
(72) REHAN, Mohamed M.	(22) 19.12.2016	(32) 05.12.2017
OYMAN, Ozgur	(54) NETWORK DEVICE AND QUEUE	(33) Korea (Republic)
RAMAMURTHI, Vishwanath	MANAGEMENT METHOD FOR	(51) H04M 1/02
MORSI, Rana A.	NETWORK DEVICE	H04M 1/04
(31) 201414583036	(73) LG Electronics Inc.	H04M 1/725
201461924194 P	(72) BACK, Seoyoung	G06F 1/16
(32) 24.12.2014	KO, Woosuk	(11) EP3703349
06.01.2014	(51) H04L 49/25	(21) EP20159914.9
(33) United States of America	H04L 49/901	(47) 20.04.2022
United States of America	H04L 49/90	(22) 27.02.2020
(51) H04L 29/08	G06F 9/50	(54) A STAND FOR AN ELECTRONIC
H04L 29/06	(11) EP3657744	DEVICE COMPRISING A PROJECTOR
H04W 76/14	(21) EP18840257.2	(73) Outform Ltd.
H04W 16/18	(47) 20.04.2022	(72) HAROUSH, Ariel
(11) EP3621274	(87) CN2018097254	(31) 201920801995 U
(21) EP18192452.3	07.02.2019	201962811002 P
(47) 20.04.2022	(22) 26.07.2018	(32) 30.05.2019
(22) 04.09.2018	(54) MESSAGE PROCESSING	27.02.2019
(54) METHOD FOR PREDICTING A	(73) New H3C Technologies Co., Ltd.	(33) China
QUALITY OF SERVICE FOR A	(72) TIAN, Hao	United States of America
COMMUNICATION BETWEEN	(31) 201710638401	(51) H04M 1/725
AT LEAST TWO MOVING	(32) 31.07.2017	H04W 4/00
COMMUNICATION PARTNERS,	(33) China	H04B 1/3827
APPARATUS FOR PERFORMING	(51) H04L 67/00	(11) EP2849414
STEPS OF THE METHOD, VEHICLE,	H04L 69/00	(21) EP13877328.8
BACKEND SERVER AND COMPUTER	(11) EP3618400	(47) 20.04.2022
PROGRAM	(21) EP19193284.7	(87) CN2013089385
(73) VOLKSWAGEN	(47) 20.04.2022	12.09.2014
AKTIENGESELLSCHAFT	(22) 23.08.2019	(22) 13.12.2013
(72) El Assaad, Ahmad	(54) SYSTEMS AND METHODS FOR	(54) DATA TRANSMISSION DEVICE AND
Jornod, Guillaume	CONTEXT-AWARE NETWORK	DATA TRANSMISSION SYSTEM
(51) H04L 29/08	MESSAGE FILTERING	(73) Huawei Device Co., Ltd.
H04L 29/12	(73) The Boeing Company	(72) LIN, Huizhong
(11) EP3525422	(72) SYLLA, Pape M.	CAI, Xupeng
(21) EP19156396.4	KIM, Hyun J	

(51) H04M 1/725 H04W 52/02 H04M 1/72454 H04W 64/00	(47) 20.04.2022 (22) 26.11.2018 (54) IMAGING PROCESSING PROGRAM, IMAGING PROCESSING METHOD, AND IMAGING PROCESSING DEVICE	(51) H04N 9/04 H04N 5/369 G01S 17/86 G01S 17/894
(11) EP3468159 (21) EP18191000.1 (47) 20.04.2022 (22) 27.08.2018 (54) METHODS, APPARATUSES AND STORAGE MEDIUM FOR DETECTING STATE OF A MOBILE TERMINAL	(31) 2017232378 (32) 04.12.2017 (33) Japan	(11) EP2451150 (21) EP11187652.0 (47) 20.04.2022 (22) 03.11.2011 (54) Color sensor insensitive to distance variations
(73) Beijing Xiaomi Mobile Software Co., Ltd. (72) LIU, Yinghong LI, Guosheng (31) 201710846306 (32) 19.09.2017 (33) China	(31) 2017232378 (32) 04.12.2017 (33) Japan	(73) Rockwell Automation Switzerland GmbH Rockwell Automation Technologies, Inc.
(51) H04M 15/00 H04L 67/566 H04W 4/24 H04L 45/30 H04L 67/63 H04L 12/14	(51) H04N 5/33 H04N 19/98 H04N 19/184 H04N 19/186 H04N 19/30	(72) Nair, Suresh Stein, Manfred Norbert Hardegger, Martin Meinherz, Carl Fooks, Elik I. Galera, Richard Brockman, Craig Martin Berner, Reto Black, Robert M.
(11) EP3406090 (21) EP16701596.5 (47) 20.04.2022 (87) EP2016051383 27.07.2017 (22) 22.01.2016 (54) CHARGING FOR SERVICES IN TELECOMMUNICATIONS NETWORKS	(11) EP3350985 (21) EP16774749.2 (47) 20.04.2022 (87) US2016052017 23.03.2017 (22) 15.09.2016 (54) HIGH DYNAMIC RANGE RADIOMETRIC THERMAL VIDEO OVER LOW BITRATE INTERFACE	(31) 938499 (32) 03.11.2010 (33) United States of America
(73) Telefonaktiebolaget LM Ericsson (PUBL) (72) GARCIA MARTIN, Miguel Angel MARTINEZ DE LA CRUZ, Pablo	(73) Teledyne Flir, LLC (72) ELMFORS, Per HOGASTEN, Nicholas (31) 201562220779 P (32) 18.09.2015 (33) United States of America	(51) H04N 9/64 H04N 21/4363 H04N 21/434 (11) EP3685575 (21) EP18877802.1 (47) 20.04.2022 (87) KR2018014148 23.05.2019 (22) 16.11.2018 (54) DISPLAY APPARATUS, METHOD FOR CONTROLLING THE SAME AND IMAGE PROVIDING APPARATUS
(51) H04N 1/00 G06K 1/12 G06K 7/14 H04N 1/32 B41J 3/01 G06K 5/02 B41J 3/407	(51) H04N 5/378 G06F 13/376 H04L 29/08 H04N 5/225 H04N 5/335	(73) Samsung Electronics Co., Ltd. (72) OH, Sung Bo (31) 20170154027 (32) 17.11.2017 (33) Korea (Republic)
(11) EP3509287 (21) EP19150495.0 (47) 20.04.2022 (22) 07.01.2019 (54) METHODS, APPARATUSES, AND SYSTEMS FOR PROVIDING PRINT QUALITY FEEDBACK AND CONTROLLING PRINT QUALITY OF MACHINE-READABLE INDICIA	(11) EP3595296 (21) EP17899294.7 (47) 20.04.2022 (87) JP2017044958 13.09.2018 (22) 14.12.2017 (54) IMAGE SENSOR AND TRANSMISSION SYSTEM	(51) H04N 13/302 (11) EP2777291 (21) EP12799612.2 (47) 20.04.2022 (87) IB2012056002 16.05.2013 (22) 30.10.2012 (54) DISPLAY DEVICE (73) Koninklijke Philips N.V. (72) KROON, Bart
(73) Datamax-O'Neil Corporation (72) CELINDER, Thomas Axel Jonas ACKLEY, H. Sprague (31) 201916240109 201862614089 P (32) 04.01.2019 05.01.2018 (33) United States of America United States of America	(73) Sony Semiconductor Solutions Corporation (72) MITSUBAYASHI, Hideki (31) 2017044021 (32) 08.03.2017 (33) Japan	(21) EP12799612.2 (47) 20.04.2022 (87) IB2012056002 16.05.2013 (22) 30.10.2012 (54) DISPLAY DEVICE (73) Koninklijke Philips N.V. (72) KROON, Bart
(51) H04N 5/232 G06T 7/00 G06T 7/73 G06T 19/00 G06K 9/00 G06K 9/22 G06K 9/32	(51) H04N 7/00 H04N 13/00 (11) EP3403400 (21) EP16884365.4 (47) 20.04.2022 (87) CN2016070823 20.07.2017 (22) 13.01.2016 (54) STITCHING METHOD AND APPARATUS FOR PANORAMIC STEREO VIDEO SYSTEM	(72) KORST, Johannes Henricus Maria KRIJN, Marcellinus Petrus Carolus Michael DE BRUIJN, Frederik Jan SALTERS, Bart Andre DE ZWART, Siebe Tjerk NEWTON, Philip Steven JOHNSON, Mark Thomas
(11) EP3493525 (21) EP18208259.4	(73) Shanghaitech University (72) YU, Jingyi MA, Yi (31) PCT/CN2016/070712 (32) 12.01.2016 (33) World Intellectual Property Office (WIPO)	(31) 201161559300 P 201161557442 P (32) 14.11.2011 09.11.2011 (33) United States of America United States of America
	(51) H04N 19/13 H04N 19/119 H04N 19/196	

H04N 19/96	(33) Japan	27.03.2014
(11) EP3251354	(51) H04N 19/51	(22) 23.09.2013
(21) EP16705368.5	H04N 19/136	(54) CODED PICTURE BUFFER ARRIVAL
(47) 20.04.2022	H04N 19/88	AND NOMINAL REMOVAL TIMES IN
(87) US2016015034	H04N 19/119	VIDEO CODING
04.08.2016	H04N 19/17	(73) Qualcomm Incorporated
(22) 27.01.2016	H04N 19/192	(72) WANG, Ye-Kui
(54) CONTEXTS FOR LARGE CODING	H04N 19/146	(31) 201314033348
TREE UNITS	H04N 19/436	201261708475 P
(73) QUALCOMM Incorporated	(11) EP2892236	201261705119 P
(72) ZHANG, Li	(21) EP14190093.6	(32) 20.09.2013
CHEN, Jianle	(47) 20.04.2022	01.10.2012
KARCZEWICZ, Marta	(22) 23.10.2014	24.09.2012
LI, Xiang	(54) Apparatus and method of texture	(33) United States of America
(31) 201615007060	encoding and decoding	United States of America
201562108465 P	(73) Sony Interactive Entertainment Inc.	United States of America
(32) 26.01.2016	(72) Hughes, Colin	(51) H04N 21/234
27.01.2015	(31) 201400140	H04N 21/236
(33) United States of America	(32) 06.01.2014	H04N 21/84
United States of America	(33) United Kingdom	(11) EP3593532
(51) H04N 19/14	(51) H04N 19/52	(21) EP18704818.6
H04N 17/00	H04N 19/593	(47) 20.04.2022
H04N 19/159	(11) EP3180917	(87) US2018016439
H04N 19/107	(21) EP15838973.4	13.09.2018
H04N 19/109	(47) 20.04.2022	(22) 01.02.2018
H04N 19/11	(87) CN2015088085	(54) SYMBOLOGY ENCODING IN VIDEO
H04N 19/176	10.03.2016	DATA
H04N 19/61	(22) 26.08.2015	(73) Raytheon Company
(11) EP3637769	(54) METHOD OF INTRA PICTURE BLOCK	(72) HOOK, Tyler Layne
(21) EP18903034.9	COPY OF SCREEN CONTENT AND	WOODY, Carl A.
(47) 20.04.2022	VIDEO CODING	(31) 201715455894
(87) CN2018108241	(73) HFI Innovation Inc.	(32) 10.03.2017
05.03.2020	(72) CHUANG, Tzu-Der	(33) United States of America
(22) 28.09.2018	XU, Xiaozhong	(51) H04N 21/41
(54) METHOD AND DEVICE FOR	LIU, Shan	H04N 21/433
DETERMINING VIDEO FRAME	(31) 201462044385 P	H04N 21/436
COMPLEXITY MEASURE	(32) 01.09.2014	H04N 21/437
(73) Wangsu Science & Technology Co., Ltd.	(33) United States of America	H04N 21/462
(72) HUANG, Xuehui	(51) H04N 19/70	H04N 21/472
LV, Shibiao	H04N 19/30	H04L 29/06
(31) 201811011680	(11) EP3417624	(11) EP3535978
(32) 31.08.2018	(21) EP17708069.4	(21) EP17791431.4
(33) China	(47) 20.04.2022	(47) 20.04.2022
(51) H04N 19/176	(87) US2017017979	(87) EP2017078114
G06T 9/00	24.08.2017	11.05.2018
H04N 19/70	(22) 15.02.2017	(22) 03.11.2017
H04N 19/46	(54) HANDLING OF END OF BITSTREAM	(54) METHOD, RECEIVER, MOBILE
H04N 19/30	NAL UNITS IN L-HEVC FILE FORMAT	DISPLAY DEVICE AND SYSTEM FOR
H04N 19/117	AND IMPROVEMENTS TO HEVC AND	ACCESSING MEDIA CONTENT
H04N 19/12	L-HEVC TILE TRACKS	(73) Nagravision S.A.
H04N 19/132	(73) Qualcomm Incorporated	(72) FISCHER, Jean-Bernard
H04N 19/152	(72) HENDRY, Fnu	(31) 16197045
H04N 19/157	WANG, Ye-Kui	(32) 03.11.2016
H04N 19/184	(31) 201715432855	(33) European Patent Office (EPO)
H04N 19/82	201662296569 P	(51) H04N 21/4402
H04N 19/85	(32) 14.02.2017	H04N 21/442
(11) EP2665263	17.02.2016	(11) EP3154270
(21) EP12733885.3	(33) United States of America	(21) EP16191052.6
(47) 20.04.2022	United States of America	(47) 20.04.2022
(87) JP2012050016	(51) H04N 19/70	(22) 28.09.2016
19.07.2012	H04N 19/46	(54) METHOD AND DEVICE FOR
(22) 04.01.2012	H04N 19/196	ADJUSTING AND DISPLAYING AN
(54) IMAGE PROCESSING DEVICE AND	H04N 19/423	IMAGE
METHOD	H04N 19/31	(73) Xiaomi Inc.
(73) Velos Media International Limited	(11) EP2898687	(72) LI, Guosheng
(72) SATO, Kazushi	(21) EP13774009.8	ZHONG, Guilin
(31) 2011003245	(47) 20.04.2022	LIU, Anyu
(32) 11.01.2011	(87) US2013061229	(31) 201510645538

(32) 08.10.2015	(54) METHOD FOR OPERATING A SENSOR	H04R 1/02
(33) China	ASSEMBLY IN A MOTOR VEHICLE ON	H04R 1/28
(51) H04Q 1/02	THE BASIS OF A DSI PROTOCOL	H04R 1/10
H01Q 1/00	(73) Valeo Schalter und Sensoren GmbH	H04R 1/34
(11) EP3684069	(72) LEWANDOWSKI, Marek	(11) EP3571853
(21) EP18866840.4	(31) 102017118565	(21) EP18703656.1
(47) 20.04.2022	(32) 15.08.2017	(47) 20.04.2022
(87) CN2018109407	(33) Germany	(87) US2018013266
18.04.2019	(51) H04R 1/10	26.07.2018
(22) 09.10.2018	(11) EP3484173	(22) 11.01.2018
(54) CUSTOMER PREMISE EQUIPMENT	(21) EP17201658.6	(54) FABRIC COVER FOR FLEXIBLE
(CPE), CPE MOUNTING BRACKET,	(47) 20.04.2022	NECKBAND
AND CPE SYSTEM	(22) 14.11.2017	(73) Bose Corporation
(73) Huawei Technologies Co., Ltd.	(54) HEARING PROTECTION SYSTEM	(72) TELLIER, Daniel Winchell
(72) GAO, Feng	WITH OWN VOICE ESTIMATION AND	RIP, Bojan
WANG, Xiaoliang	RELATED METHOD	ZALISK, Michael Andrew
CHEN, Wei	(73) FalCom A/S	MILLER, Joel H.
PENG, Xiaojun	(72) WEBSDELL, Pete	MANKOSA, Marcey Ann
(31) 201710936999	PEDERSEN, Søren	(31) 201715411659
(32) 10.10.2017	(51) H04R 1/10	(32) 20.01.2017
(33) China	(11) EP3416404	(33) United States of America
(51) H04Q 9/00	(21) EP18182190.1	(51) H04R 25/00
(11) EP3672270	(47) 20.04.2022	(11) EP3322202
(21) EP19218980.1	(22) 15.09.2009	(21) EP17201900.2
(47) 20.04.2022	(54) SPORT-IN-EAR EARPIECE	(47) 20.04.2022
(22) 20.12.2019	(73) Sennheiser Consumer Audio GmbH	(22) 15.11.2017
(54) POWER CONSUMPTION DETECTION	(72) Wong, Yuen Shen	(54) HEARING DEVICE INCORPORATING
UNIT WITH AT LEAST ONE RADIO	Tan, Chee Keong	CONFORMAL FOLDED ANTENNA
INTERFACE	(31) 102008047520	(73) Starkey Laboratories, Inc.
(73) QUNDIS GmbH	(32) 16.09.2008	(72) HOSADURGA, Deepak
(72) KUHN, Jens	(33) Germany	YANG, Zhenchao
(31) 102018133076	(51) H04R 1/10	HILDE, Karl
(32) 20.12.2018	(11) EP3625970	POLINSKE, Beau, Jay
(33) Germany	(21) EP18731936.3	(31) 201615351643
(51) H04Q 9/00	(47) 20.04.2022	(32) 15.11.2016
H04B 3/54	(87) US2018033108	(33) United States of America
(11) EP3586521	22.11.2018	(51) H04R 25/00
(21) EP18756635.1	(22) 17.05.2018	A61B 5/12
(47) 20.04.2022	(54) HEADPHONES WITH EXTERNAL	A61B 5/38
(87) US2018018897	PRESSURE EQUALIZATION PATH	A61B 5/00
30.08.2018	(73) Bose Corporation	(11) EP3588984
(22) 21.02.2018	(72) LEE, Daniel K.	(21) EP19181610.7
(54) IDENTIFYING DEVICE STATE	WALLACE, Eric M.	(47) 20.04.2022
CHANGES USING POWER DATA AND	(31) 201715597567	(22) 21.06.2019
NETWORK DATA	(32) 17.05.2017	(54) SYSTEM FOR VALIDATION OF
(73) Sense Labs, Inc.	(33) United States of America	HEARING AIDS FOR INFANTS USING A
(72) MICALI, Christopher, M.	(51) H04R 1/28	SPEECH SIGNAL
PETRI, Jonah, Wyman	H04R 1/02	(73) Interacoustics A/S
PHILLIPS, Michael S.	H04R 5/02	(72) LAUGENSEN, Søren
(31) 201715599466	H04R 9/02	KRISTENSEN, Bue
201715439796	(11) EP3637790	(31) 18180836
201715439788	(21) EP19201132.8	(32) 29.06.2018
(32) 19.05.2017	(47) 20.04.2022	(33) European Patent Office (EPO)
22.02.2017	(22) 02.10.2019	(51) H04R 27/00
22.02.2017	(54) ACOUSTIC ENCLOSURE WITH TWO	G06F 3/16
(33) United States of America	HEAD-TO-TAIL LOUDSPEAKERS	H04W 84/18
United States of America	ATTACHED TO AN INTERNAL FRAME	H04S 7/00
United States of America	(73) Devialet	H04B 1/00
(51) H04Q 9/04	(72) RAINER, Max	H04L 29/08
H04L 12/403	GANGLOFF, Bertrand	(11) EP3198721
G01S 15/93	ROIG, Béranger	(21) EP15844307.7
H04L 12/40	BEIGEAUD, Jérémy	(47) 20.04.2022
(11) EP3669550	CHAMBON, Victor	(87) US2015051638
(21) EP18753390.6	(31) 1859308	31.03.2016
(47) 20.04.2022	(32) 08.10.2018	(22) 23.09.2015
(87) EP2018071611	(33) France	(54) MOBILE CLUSTER-BASED AUDIO
21.02.2019	(51) H04R 3/04	ADJUSTING METHOD AND
(22) 09.08.2018		APPARATUS

(73) Denton, Levaughn	GUO, Yuchen	H04W 84/12
(72) Denton, Levaughn	YANG, Xun	(11) EP3031223
(31) 201462054286 P	LI, Yunbo	(21) EP14834253.8
(32) 23.09.2014	(31) 201510993268	(47) 20.04.2022
(33) United States of America	(32) 25.12.2015	(87) KR2014007329
(51) H04R 29/00	(33) China	12.02.2015
H04S 7/00	(51) H04W 4/02	(22) 07.08.2014
(11) EP3116241	H04W 4/12	(54) METHOD AND APPARATUS FOR WI-FI
(21) EP16171861.4	H04L 29/08	DIRECT CONNECTION
(47) 20.04.2022	H04W 4/029	(73) Samsung Electronics Co., Ltd.
(22) 30.05.2016	H04L 29/06	(72) PARK, Jungchul
(54) CROWD-SOURCED AUDIO DATA FOR	H04W 84/18	YANG, Sungkwang
VENUE EQUALIZATION	(11) EP3509333	JUNG, Buseop
(73) Harman International Industries,	(21) EP19159464.7	KIM, Seongbin
Incorporated	(47) 20.04.2022	(31) 20130093956
(72) CHANDRAN, Sonith	(22) 05.11.2013	(32) 08.08.2013
BANGARU, Sohan Madhav	(54) INTERWORKING FOR	(33) Korea (Republic)
(31) 201514739051	GEOGRAPHICALLY TARGETED	(51) H04W 4/08
(32) 15.06.2015	DISTRIBUTION OF APPLICATION	H04W 4/00
(33) United States of America	SERVICE MESSAGES VIA AD-HOC	H04W 4/80
(51) H04S 3/02	NETWORK	H04W 4/06
(11) EP2630812	(73) Telefonaktiebolaget LM Ericsson (publ)	H04W 8/00
(21) EP11776678.2	(72) REMBARZ, Rene	(11) EP3314930
(47) 20.04.2022	JODLAUK, Gordian	(21) EP16818198.0
(87) US2011057291	DJORDJEVIC, Branko	(47) 20.04.2022
26.04.2012	(51) H04W 4/02	(87) KR2016006935
(22) 21.10.2011	H04W 4/46	05.01.2017
(54) ESTIMATION OF SYNTHETIC AUDIO	H04W 4/44	(22) 29.06.2016
PROTOTYPES	(11) EP3525498	(54) METHOD AND APPARATUS FOR
(73) Bose Corporation	(21) EP18155778.6	PERFORMING COMMUNICATION IN
(72) BARKSDALE, Tobe, Z.	(47) 20.04.2022	WIRELESS COMMUNICATION SYSTEM
HULTZ, Paul, B.	(22) 08.02.2018	(73) Samsung Electronics Co., Ltd.
WALTERS, Luke, C.	(54) ELECTRONIC DEVICES, SYSTEMS	(72) LEE, Jae-jun
DUBLIN, Michael, S.	AND METHODS FOR VEHICULAR	KIM, Jang-gon
(31) 909569	COMMUNICATION	BAEK, Young-kyo
(32) 21.10.2010	(73) Sony Group Corporation	(31) 20150092406
(33) United States of America	(72) KOIKE, Makoto	(32) 29.06.2015
(51) H04W 4/00	CRONIE, Harm	(33) Korea (Republic)
H04W 4/02	NOLAN, Julian	(51) H04W 4/20
H04L 29/08	(51) H04W 4/06	H04W 4/02
(11) EP3813388	H04W 4/90	H04W 4/021
(21) EP19205026.8	H04W 4/021	H04L 67/566
(47) 20.04.2022	H04W 4/12	G01S 5/02
(22) 24.10.2019	(11) EP3878192	G01S 19/05
(54) METHOD FOR CONTROLLING A	(21) EP20743946.4	H04W 64/00
SYNCHRONOUS DISTRIBUTED	(47) 20.04.2022	(11) EP3854114
DELIVERY OF LIGHT	(87) US2020070246	(21) EP18789257.5
(73) Steinberg Media Technologies GmbH	27.05.2021	(47) 20.04.2022
(72) Simmerlein, Frank-Ulrich	(22) 08.07.2020	(87) SE2018050957
(51) H04W 4/00	(54) INTELLIGENT MESSAGING-	26.03.2020
H04W 28/06	CHANNEL SELECTION AND RELATED	(22) 20.09.2018
H04W 72/04	FEATURES FOR ALERT SYSTEMS,	(54) LOCATION INFORMATION FOR
H04L 5/00	SYSTEMS INCORPORATING SAME	MULTIPLE USER EQUIPMENTS
H04W 72/12	AND METHODS AND SOFTWARE	(73) TELEFONAKTIEBOLAGET LM
H04W 72/08	THEREFOR	ERICSSON (PUBL)
H04W 72/00	(73) Everbridge, Inc.	(72) ENGSTRÖM, Stefan
H04W 74/08	(72) MOULINE, Imad	HENRIKSSON, Daniel
H04W 74/00	SELIUSSEN, Morten	(51) H04W 4/40
H04L 29/06	(31) 201962937644 P	H04W 4/46
(11) EP3393145	(32) 19.11.2019	H04W 88/06
(21) EP16877510.4	(33) United States of America	H04W 28/02
(47) 20.04.2022	(51) H04W 4/08	H04W 76/16
(87) CN2016105514	H04L 12/18	(11) EP3008931
29.06.2017	H04W 76/14	(21) EP13731714.5
(22) 11.11.2016	H04W 92/18	(47) 20.04.2022
(54) ACCESS METHOD AND APPARATUS	H04W 76/00	(87) EP2013062299
(73) Huawei Technologies Co., Ltd.	H04W 8/18	18.12.2014
(72) LI, Yanchun	H04W 76/40	(22) 13.06.2013

(54) CONTROLLING VEHICLE-TO-VEHICLE COMMUNICATION USING A DISTRIBUTION SCHEME	(72) AHN, Joonkui YOU, Hyangsun YI, Yunjung	(31) 201462080490 P (32) 17.11.2014 (33) United States of America
(73) Telefonaktiebolaget LM Ericsson (publ)	KIM, Bonghoe	(51) H04W 12/041
(72) SACHS, Joachim BRAHMI, Nadia	YANG, Suckchel	G06F 8/61 G06F 21/14 G06F 21/53 G06F 21/55 G06F 21/72 G06F 21/74 H04W 12/04 H04L 29/06 H04W 12/06 G06F 9/445 H04W 12/069
(51) H04W 4/50 H04W 8/24 H04W 4/14 H04W 60/04 G06F 9/4401 H04L 29/06	(31) 201461936885 P 201361919825 P 201361910970 P 201361906424 P 201361903920 P 201361903413 P 201361902138 P 201361897200 P 201361894904 P 201361858633 P	(11) EP3387813 (21) EP16816621.3 (47) 20.04.2022 (87) EP2016080527 15.06.2017 (22) 09.12.2016 (54) MOBILE DEVICE HAVING TRUSTED EXECUTION ENVIRONMENT
(11) EP3466119 (21) EP17793043.5 (47) 20.04.2022 (87) US2017030202 09.11.2017 (22) 28.04.2017	(32) 07.02.2014 23.12.2013 03.12.2013 20.11.2013 13.11.2013 08.11.2013 29.10.2013 23.10.2013 26.07.2013	(73) Thales Dis France SAS (72) CHARPEIGNET, Véronique SK ABDUL AZIZ, SM Sohiduzzaman HLAING, Min RAMACHANDRAN, Sriram ANGELINI, Patrice
(54) SUBSCRIBER SELF-ACTIVATION DEVICE, PROGRAM, AND METHOD	13.11.2013 08.11.2013 29.10.2013 23.10.2013 26.07.2013	(31) 15306989 (32) 11.12.2015 (33) European Patent Office (EPO)
(73) Giesecke+Devrient Mobile Security GmbH	(33) United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America	(51) H04W 12/06 H04L 9/40 H04W 88/06
(72) JAHR, Christoph (31) 201662331887 P (32) 04.05.2016 (33) United States of America	(33) United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America	(11) EP3008935 (21) EP14737163.7 (47) 20.04.2022 (87) EP2014062070 18.12.2014 (22) 11.06.2014 (54) MOBILE DEVICE AUTHENTICATION IN HETEROGENEOUS COMMUNICATION NETWORKS SCENARIO
(51) H04W 4/70 H04L 67/04 (11) EP3304940 (21) EP16730286.8 (47) 20.04.2022 (87) EP2016062625 08.12.2016 (22) 03.06.2016	(51) H04W 8/02 H04W 36/08 (11) EP2922319 (21) EP13852098.6 (47) 20.04.2022 (87) KR2013009808 08.05.2014 (22) 31.10.2013 (54) METHOD AND APPARATUS FOR MANAGING PACKET DATA NETWORK CONNECTION ON BASIS OF LOCAL AREA IN WIRELESS COMMUNICATION SYSTEM	(73) Telecom Italia S.p.A. (72) SIMONETTI, Alessandro CIARNIELLO, Alberto (31) PCT/EP2013/062163 (32) 12.06.2013 (33) World Intellectual Property Office (WIPO)
(54) METHOD FOR TRANSMITTING SMALL AND INFREQUENT COMMUNICATION DATA BETWEEN, ON THE ONE HAND, A PLURALITY OF INTERNET-OF-THINGS COMMUNICATION DEVICES, AND, ON THE OTHER HAND, A MOBILE COMMUNICATION NETWORK, SYSTEM FOR TRANSMITTING SMALL AND INFREQUENT COMMUNICATION DATA, INTERNET-OF-THINGS COMMUNICATION DEVICE MOBILE COMMUNICATION NETWORK FOR TRANSMITTING SMALL AND INFREQUENT COMMUNICATION DATA, USER EQUIPMENT, PROGRAM AND COMPUTER PROGRAM PRODUCT	(73) Samsung Electronics Co., Ltd. (72) CHO, Song-Yean CHOI, Sung-Ho LEE, Ji-Cheol	(51) H04W 12/06 H04W 88/06 H04W 76/18 H04L 9/40 H04M 1/663 H04M 1/72412 G06F 1/16 H04M 1/725 (11) EP3200549 (21) EP15843485.2 (47) 20.04.2022 (87) KR2015009895 31.03.2016 (22) 21.09.2015 (54) METHOD AND DEVICE FOR WIRELESS COMMUNICATION BETWEEN COMMUNICATION TERMINALS
(73) Deutsche Telekom AG (72) KLATT, Axel NENNER, Karl-Heinz	(31) 20120122706 (32) 31.10.2012 (33) Korea (Republic)	
(31) 15170923 (32) 05.06.2015 (33) European Patent Office (EPO)	(51) H04W 8/22 H04W 76/15 (11) EP3222072 (21) EP15793797.0 (47) 20.04.2022 (87) EP2015076209 26.05.2016 (22) 10.11.2015 (54) CAPABILITY SIGNALING FOR DUAL CONNECTIVITY	
(51) H04W 4/70 H04W 4/021 H04W 74/08 (11) EP3713262 (21) EP20174017.2 (47) 20.04.2022 (22) 28.07.2014	(73) Nokia Solutions and Networks Oy (72) HWANG, Woonhee HENTTONEN, Tero	
(54) METHOD FOR TRANSMITTING SIGNAL FOR MTC AND APPARATUS FOR SAME (73) LG Electronics Inc.		

(73) Samsung Electronics Co., Ltd.	(33) United States of America	(21) EP19189241.3
(72) LIU, Xuheng	(51) H04W 16/08	(47) 20.04.2022
YAN, Qichao	H04W 36/00	(22) 16.11.2009
PARK, Jae-sun	(11) EP3029974	(54) RADIO LINK FAILURE REPORTING
(31) 201410493944	(21) EP13890760.5	(73) QUALCOMM Incorporated
(32) 24.09.2014	(47) 20.04.2022	(72) TENNY, Nathan E.
(33) China	(87) CN2013080742	AGASHE, Parag A.
(51) H04W 12/06	05.02.2015	(31) 618154
H04W 88/16	(22) 02.08.2013	115522 P
H04L 29/06	(54) BASE STATIONS FOR INFORMATION	(32) 13.11.2009
H04L 29/08	INTERACTION AND COMMUNICATION	17.11.2008
(11) EP3476137	SYSTEM	(33) United States of America
(21) EP17821048.0	(73) FUJITSU CONNECTED	United States of America
(47) 20.04.2022	TECHNOLOGIES LIMITED	(51) H04W 24/02
(87) US2017039402	(72) XU, Haibo	H04W 4/70
04.01.2018	WANG, Weiwei	H04W 72/04
(22) 27.06.2017	WU, Lianhai	H04W 24/08
(54) SYSTEM AND METHOD FOR SERVICE	LI, Zhaojun	H04W 24/10
PROVIDER SPECIFIC REMOTE	(51) H04W 16/10	(11) EP3577936
ACCESS VIA NEUTRAL HOST	H04W 24/02	(21) EP18748762.4
NETWORKS	H04W 64/00	(47) 20.04.2022
(73) Corning Optical Communications LLC	H04W 84/12	(87) SE2018050076
(72) AHMAVAARA, Kalle	H04W 88/12	09.08.2018
(31) 201662354916 P	(11) EP3456079	(22) 01.02.2018
(32) 27.06.2016	(21) EP17724694.9	(54) METHOD AND WIRELESS DEVICE
(33) United States of America	(47) 20.04.2022	FOR IDENTIFYING CE LEVEL
(51) H04W 12/086	(87) US2017031599	MISMATCH
G06F 21/62	16.11.2017	(73) Telefonaktiebolaget LM Ericsson (publ)
G06F 21/60	(22) 08.05.2017	(72) THANGARASA, Santhan
H04L 29/06	(54) FLEXIBLE RADIO ASSIGNMENT	SIOMINA, Iana
(11) EP3420492	(73) Cisco Technology, Inc.	KAZMI, Muhammad
(21) EP17757232.8	(72) DESAI, Vishal Satyendra	(31) 201762454314 P
(47) 20.04.2022	CHOI, Young Il	(32) 03.02.2017
(87) US2017019186	MONAJEMI, Pooya	(33) United States of America
31.08.2017	(31) 201662333599 P	(51) H04W 24/02
(22) 23.02.2017	(32) 09.05.2016	H04W 92/20
(54) IDPS ACCESS-CONTROLLED AND	(33) United States of America	H04W 56/00
ENCRYPTED FILE SYSTEM DESIGN	(51) H04W 16/22	H04W 74/08
(73) Intuit Inc.	H04B 17/391	(11) EP3636014
(72) GOLOVINSKY, Eugene	H04B 17/10	(21) EP18734407.2
SHEFFER, Yaron	(11) EP3659276	(47) 20.04.2022
CABRERA, Luis Felipe	(21) EP18860523.2	(87) US2018036324
LEVY, Yaron	(47) 20.04.2022	13.12.2018
(31) 201615054361	(87) KR2018011158	(22) 06.06.2018
(32) 26.02.2016	04.04.2019	(54) TECHNIQUES AND APPARATUSES
(33) United States of America	(22) 20.09.2018	FOR ACCESS IN A BACKHAUL
(51) H04W 16/04	(54) METHOD AND APPARATUS FOR	NETWORK
H04W 16/10	ANALYZING COMMUNICATION	(73) QUALCOMM Incorporated
H04W 72/04	ENVIRONMENTS AND DESIGNING	(72) ISLAM, Muhammad Nazmul
H04W 72/08	NETWORKS IN CONSIDERATION OF	SUBRAMANIAN, Sundar
H04W 72/12	TREES	CEZANNE, Juergen
(11) EP3580949	(73) Samsung Electronics Co., Ltd.	LI, Junyi
(21) EP18706004.1	(72) PARK, Jungmin	ABEDINI, Navid
(47) 20.04.2022	CHOI, Junghwan	HAMPEL, Karl Georg
(87) SE2018050114	HAN, Seungku	(31) 201816000639
16.08.2018	CHOI, Dongkyu	201762538247 P
(22) 08.02.2018	LEE, Youngju	201762517027 P
(54) SYSTEM AND METHOD FOR	KIM, Byungchul	(32) 05.06.2018
DISTRIBUTED COORDINATION	(31) 20180007780	28.07.2017
OF DUPLEX DIRECTIONS IN A NR	201762563892 P	08.06.2017
SYSTEM	(32) 22.01.2018	(33) United States of America
(73) Telefonaktiebolaget LM Ericsson (publ)	27.09.2017	United States of America
(72) KANG, Du Ho	(33) Korea (Republic)	United States of America
KOORAPATY, Havish	United States of America	(51) H04W 24/08
FALAHATI, Sorour	(51) H04W 24/00	H04W 24/02
CHENG, Jung-Fu	H04W 36/00	(11) EP3817440
(31) 201762458349 P	H04W 76/18	(21) EP19206457.4
(32) 13.02.2017	(11) EP3624482	(47) 20.04.2022

(22) 31.10.2019	(31) 20170016885	(73) British Telecommunications public limited company
(54) DATA ANALYTICS REPORTING	(32) 07.02.2017	(72) CUEVAS RAMIREZ, Maria
(73) Deutsche Telekom AG	(33) Korea (Republic)	GOMEZ, Alistair
(72) ARNOLD, Paul	(51) H04W 36/00	BROWN, Ruth
ZIMMERMANN, Gerd	(11) EP3874813	(31) PCT/EP2016/163170
EINHAUS, Michael	(21) EP19802313.7	(32) 31.03.2016
(51) H04W 24/10	(47) 20.04.2022	(33) World Intellectual Property Office (WIPO)
H04W 36/00	(87) SE2019051062	(51) H04W 36/36
H04W 88/06	07.05.2020	H04W 36/00
(11) EP3311605	(22) 28.10.2019	(11) EP3589015
(21) EP16814668.6	(54) MOBILITY PROCEDURE	(21) EP18771162.7
(47) 20.04.2022	(73) TELEFONAKTIEBOLAGET LM	(47) 20.04.2022
(87) KR2016006601	ERICSSON (PUBL)	(87) CN2018080282
29.12.2016	(72) DA SILVA, Icaro L. J.	27.09.2018
(22) 22.06.2016	EKLÖF, Cecilia	(22) 23.03.2018
(54) METHOD AND APPARATUS FOR	RAMACHANDRA, Pradeepa	(54) CONDITIONAL HANDOVER METHODS,
OPERATION IN COEXISTENCE	(31) 201862754153 P	NETWORK DEVICES AND SYSTEM
ENVIRONMENT OF CELLULAR, NON-	(32) 01.11.2018	(73) Huawei Technologies Co., Ltd.
CELLULAR, MACRO AND MICRO	(33) United States of America	(72) PENG, Wenjie
NETWORKS	(51) H04W 36/00	ZHANG, Hongping
(73) Samsung Electronics Co., Ltd.	H04W 36/14	XU, Xiaoying
(72) JUNG, Byoung-Hoon	H04W 36/32	ZENG, Qinghai
JUNG, Jung-Soo	(11) EP3673681	XU, Min
MOON, Jung-Min	(21) EP18765783.8	YAN, Le
RYOO, Sun-Heui	(47) 20.04.2022	(31) 201710184282
PARK, Seung-Hoon	(87) US2018047763	(32) 24.03.2017
(31) 201562182943 P	28.02.2019	(33) China
(32) 22.06.2015	(22) 23.08.2018	(51) H04W 40/22
(33) United States of America	(54) PREEMPTIVE INDICATION OF INTER-	H04W 72/12
(51) H04W 24/10	RAT MOBILITY	H04W 84/12
H04W 76/27	(73) QUALCOMM Incorporated	H04W 88/04
(11) EP3677065	(72) DRAPKIN, Vitaly	(11) EP3530032
(21) EP18880012.2	BALASUBRAMANIAN, Srinivasan	(21) EP16798298.2
(47) 20.04.2022	LEE, Kuo-Chun	(47) 20.04.2022
(87) KR2018014093	ZISIMOPOULOS, Haris	(87) SE2016051030
23.05.2019	SANTHANAM, Arvind Vardarajan	26.04.2018
(22) 16.11.2018	BHATNAGAR, Abhishek	(22) 21.10.2016
(54) COMMUNICATION METHOD	(31) 20170100390	(54) ENABLING RELAYED
AND APPARATUS IN WIRELESS	201816109009	COMMUNICATION IN A WIRELESS
COMMUNICATION SYSTEM	(32) 25.08.2017	COMMUNICATION SYSTEM
(73) Samsung Electronics Co., Ltd.	22.08.2018	(73) Telefonaktiebolaget LM Ericsson (publ)
(72) KIM, Donggun	(33) Greece	(72) ZHANG, Jingcheng
JIN, Seungri	United States of America	SUNDMAN, Dennis
KIM, Soenghun	(51) H04W 36/18	WANG, Yu
SAYENKO, Alexander	H04L 29/12	(51) H04W 48/02
JANG, Jaehyuk	(11) EP3636006	H04W 8/12
(31) 20170153118	(21) EP18733519.5	(11) EP3437379
(32) 16.11.2017	(47) 20.04.2022	(21) EP17713024.2
(33) Korea (Republic)	(87) EP2018065027	(47) 20.04.2022
(51) H04W 28/02	20.12.2018	(87) EP2017057206
H04B 7/26	(22) 07.06.2018	05.10.2017
H04L 5/00	(54) NETWORK ASSISTANCE IN DASH	(22) 27.03.2017
(11) EP3533254	USING DNS	(54) ROAMING MANAGEMENT
(21) EP18751275.1	(73) Sony Group Corporation	(73) British Telecommunications public limited company
(47) 20.04.2022	(72) LJUNG, Rickard	(72) DYETT, Stephen
(87) KR2018001669	SZUCS, Paul	JOHNSON, Stephen
16.08.2018	(31) 201709085	(31) PCT/EP2016/163212
(22) 07.02.2018	(32) 07.06.2017	(32) 31.03.2016
(54) TERMINAL, BASE STATION AND	(33) United Kingdom	(33) World Intellectual Property Office (WIPO)
METHODS FOR ENHANCED	(51) H04W 36/30	(51) H04W 48/12
ACTIVATION OF A CHANNEL STATE	(11) EP3437377	H04W 24/10
INFORMATION REFERENCE SIGNAL,	(21) EP17713932.6	H04B 7/06
CSI-RS	(47) 20.04.2022	H04L 1/00
(73) Samsung Electronics Co., Ltd.	(87) EP2017057204	H04L 5/00
(72) KIM, Donggun	05.10.2017	H04W 72/04
JIN, Seungri	(22) 27.03.2017	(11) EP2807867
KIM, Soenghun	(54) VOICE SERVICE CLIENT DEVICE	
KWAK, Youngwoon		

(21) EP13741608.7	(54) TRANSMISSION MANAGEMENT	H04W 88/08
(47) 20.04.2022	TECHNIQUES FOR AVOIDING	(11) EP3577964
(87) KR2013000674	EXCESSIVE EXPOSURE OF HUMANS	(21) EP18704627.1
01.08.2013	TO ELECTROMAGNETIC ENERGY	(47) 20.04.2022
(22) 28.01.2013	(73) Intel Corporation	(87) JP2018002676
(54) REPORTING OF MULTIPLE	(72) MUECK, Markus Dominik	09.08.2018
PROCESSES FOR APERIODIC	(51) H04W 52/36	(22) 29.01.2018
CHANNEL STATE INFORMATION	(11) EP3662702	(54) METHODS AND APPARATUSES FOR
(73) Samsung Electronics Co., Ltd.	(21) EP18753517.4	PAGING IN A COMMUNICATIONS
(72) CHO, Joon-Young	(47) 20.04.2022	NETWORK
PAPASAKELLARIOU, Aris	(87) US2018044358	(73) NEC Corporation
(31) 201261591546 P	07.02.2019	(72) LEWIS, Jonathan
(32) 27.01.2012	(22) 30.07.2018	TIETZ, Robert
(33) United States of America	(54) POWER HEADROOM REPORT FOR	SIVAVAKEESAR, Sivapathalingham
(51) H04W 48/12	LTE-NR CO-EXISTENCE	(31) 201701865
H04W 48/10	(73) Qualcomm Incorporated	(32) 03.02.2017
H04W 48/14	(72) HOSSEINI, Seyedkianoush	(33) United Kingdom
(11) EP3619960	PARK, Seyong	(51) H04W 72/00
(21) EP17722722.0	HUANG, Yi	(11) EP3508012
(47) 20.04.2022	WANG, Renqiu	(21) EP17852373.4
(87) EP2017060620	CHEN, Wanshi	(47) 20.04.2022
08.11.2018	GAAL, Peter	(87) CN2017102478
(22) 04.05.2017	(31) 201816047764	29.03.2018
(54) COMMUNICATION SYSTEM	201762539446 P	(22) 20.09.2017
(73) Nokia Technologies Oy	(32) 27.07.2018	(54) METHOD FOR DATA TRANSMISSION
(72) AWADA, Ahmad	31.07.2017	WITH MULTIPLE UPLINK CARRIER IN
(51) H04W 48/20	(33) United States of America	MOBILE COMMUNICATIONS
H04W 28/08	United States of America	(73) MEDIATEK INC.
H04W 84/12	(51) H04W 56/00	(72) LIN, Chih-Hsiu
H04W 24/06	H04B 7/15	YANG, Shun-An
H04W 48/12	H04W 84/18	LIN, Guan-Yu
H04W 88/08	G08B 25/00	CHEN, Yih-Shen
(11) EP3804413	H04W 74/00	(31) 201762541192 P
(21) EP19731856.1	(11) EP3273732	201662396902 P
(47) 20.04.2022	(21) EP17181866.9	(32) 04.08.2017
(87) US2019034953	(47) 20.04.2022	20.09.2016
05.12.2019	(22) 18.07.2017	(33) United States of America
(22) 31.05.2019	(54) COMMUNICATION DEVICE AND	United States of America
(54) COLLABORATIVE DETERMINATION	COMMUNICATION SYSTEM	(51) H04W 72/04
OF WIRELESS SIGNAL STRENGTH BY	(73) Panasonic Intellectual Property	(11) EP3592068
ACCESS POINTS	Management Co., Ltd.	(21) EP18770780.7
(73) ARRIS Enterprises LLC	(72) Kurita, Masanori	(47) 20.04.2022
(72) SADARAMACHANDRA, Raghavendra	Harada, Kenji	(87) CN2018078408
CHEN, Wen	Nagata, Masahiro	27.09.2018
(31) 201862678264 P	(31) 2016141593	(22) 08.03.2018
(32) 31.05.2018	(32) 19.07.2016	(54) COMMUNICATION METHOD AND
(33) United States of America	(33) Japan	NETWORK DEVICE AND TERMINAL
(51) H04W 52/02	(51) H04W 60/00	DEVICE THEREOF
H04W 76/00	H04W 8/06	(73) Huawei Technologies Co., Ltd.
(11) EP3585110	(11) EP3641423	(72) PENG, Jinlin
(21) EP17901872.6	(21) EP18817292.8	DU, Bai
(47) 20.04.2022	(47) 20.04.2022	DONG, Pengpeng
(87) CN2017077388	(87) KR2018006851	ZHANG, Peng
27.09.2018	20.12.2018	(31) 201710682683
(22) 20.03.2017	(22) 18.06.2018	201710312830
(54) COMMUNICATION METHOD AND	(54) METHOD FOR REGISTERING	201710184894
DEVICE THEREOF	TERMINAL IN WIRELESS	(32) 10.08.2017
(73) Huawei Technologies Co., Ltd.	COMMUNICATION SYSTEM AND	05.05.2017
(72) DENG, Qiang	APPARATUS THEREFOR	24.03.2017
YANG, Yanmei	(73) LG Electronics Inc.	(33) China
HUANG, Zhenglei	(72) RYU, Jinsook	China
LI, Meng	KIM, Hyunsook	China
(51) H04W 52/36	PARK, Sangmin	(51) H04W 72/04
(11) EP3697141	(31) 201762521385 P	H04L 5/00
(21) EP19156854.2	(32) 17.06.2017	H04L 27/00
(47) 20.04.2022	(33) United States of America	(11) EP3749029
(22) 13.02.2019	(51) H04W 68/00	(21) EP18903179.2
	H04W 88/02	(47) 20.04.2022

(87) CN2018075122 08.08.2019	H04L 5/00 H04L 27/00 H04L 5/14	(72) FODRINI, Maurizio CARETTI, Marco DELL'AERA, Gian,Michele MELIS, Bruno
(22) 02.02.2018	(11) EP3253148	(31) 201700083557
(54) INFORMATION TRANSMISSION METHOD AND DEVICE	(21) EP16743164.2	(32) 21.07.2017
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(47) 20.04.2022	(33) Italy
(72) TANG, Hai	(87) JP2016051328 04.08.2016	<hr/>
(51) H04W 72/04 H04L 5/00 H04W 72/00 H04W 74/00	(22) 18.01.2016	(51) H04W 72/12
(11) EP3549377	(54) TERMINAL DEVICE, BASE STATION DEVICE, AND COMMUNICATIONS METHOD	(11) EP3528577
(21) EP18738902.8	(73) Sharp Kabushiki Kaisha	(21) EP17866579.0
(47) 20.04.2022	(72) RUIZ DELGADO, Alvaro	(47) 20.04.2022
(87) CN2018072271 19.07.2018	KUSASHIMA, Naoki IMAMURA, Kimihiko SHIMEZAWA, Kazuyuki SUZUKI, Shoichi	(87) CN2017109424 11.05.2018
(22) 11.01.2018	(31) 2015014963	(22) 03.11.2017
(54) EFFICIENT WIDE BANDWIDTH OPERATION AND EFFICIENT UE-SPECIFIC RF BANDWIDTH ADAPTATION	(32) 29.01.2015	(54) METHOD AND APPARATUS FOR DATA TRANSMISSION
(73) MediaTek Inc.	(33) Japan	(73) Huawei Technologies Co., Ltd.
(72) LI, Chien-Chang LIAO, Pei-Kai CHEN, Tao	(51) H04W 72/04 H04W 72/02 H04W 72/12 H04L 5/00	(72) WANG, Ting QIAN, Feng LI, Yuanjie LOU, Qunfang
(31) 201762474100 P 201762444879 P	(11) EP3637909	(31) 201610962416
(32) 21.03.2017 11.01.2017	(21) EP18799022.1	(32) 04.11.2016
(33) United States of America United States of America	(47) 20.04.2022	(33) China
(51) H04W 72/04 H04L 27/26 H04L 5/00	(87) KR2018005347 15.11.2018	<hr/>
(11) EP3400742	(22) 10.05.2018	(51) H04W 72/12 H04L 1/16 H04L 1/18 H04L 5/00 H04L 1/08 H04W 4/70 H04W 72/04 H04W 74/00
(21) EP17743690.4	(54) METHOD FOR TRANSMITTING UPLINK SIGNAL IN WIRELESS COMMUNICATION SYSTEM AND APPARATUS THEREFOR	(11) EP3675586
(47) 20.04.2022	(73) LG Electronics Inc.	(21) EP19205411.2
(87) CN2017072081 03.08.2017	(72) HWANG, Daesung LEE, Hyunho YI, Yunjung	(47) 20.04.2022
(22) 22.01.2017	(31) 201762586142 P 201762541105 P 201762519863 P 201762518511 P 201762503944 P	(22) 27.01.2016
(54) SYSTEM AND METHOD FOR BANDWIDTH DIVISION AND RESOURCE BLOCK ALLOCATION	(32) 14.11.2017	(54) GSM EVOLUTION PACKET DATA TRAFFIC CHANNEL RESOURCE TRANSMISSION MANAGEMENT - FIXED UPLINK ALLOCATION TECHNIQUE
(73) Huawei Technologies Co., Ltd.	04.08.2017	(73) Telefonaktiebolaget LM Ericsson (publ)
(72) ZHANG, Liqing AU, Kelvin Kar Kin ISLAM, Toufiqul	14.06.2017	(72) BERGQVIST, Jens DIACHINA, John Walter SCHLIWA-BERTLING, Paul SUNDBERG, Mårten HÄNDEL, Ulf
(31) 201615006772	12.06.2017	(31) 201615006703
(32) 26.01.2016	10.05.2017	201562108489 P
(33) United States of America	(33) United States of America United States of America United States of America United States of America	(32) 26.01.2016 27.01.2015
(51) H04W 72/04 H04W 4/00	<hr/>	(33) United States of America United States of America
(11) EP3627929	(51) H04W 72/04 H04W 72/08 H04W 72/12	<hr/>
(21) EP17925423.0	(11) EP3656164	(51) H04W 72/12 H04L 27/34 H04B 7/0452 H04L 5/00 H04J 11/00
(47) 20.04.2022	(21) EP18743448.5	(11) EP3311619
(87) CN2017101919 21.03.2019	(47) 20.04.2022	(21) EP16836628.4
(22) 15.09.2017	(87) EP2018069277 24.01.2019	(47) 20.04.2022
(54) RESOURCE ALLOCATION METHOD, TERMINAL DEVICE, AND NETWORK DEVICE	(22) 16.07.2018	(87) CN2016095227 23.02.2017
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(54) METHOD AND SYSTEM FOR MANAGING UE-TO-UE INTERFERENCE IN A MOBILE TELECOMMUNICATION NETWORK	(22) 15.08.2016
(72) TANG, Hai	(73) Telecom Italia S.p.A.	(54) SIGNAL MODULATION AND DEMODULATION FOR MULTIUSER SUPERPOSITION TRANSMISSION SCHEME
(51) H04W 72/04 H04W 16/14 H04W 28/06		

(73) HFI Innovation Inc.	(22) 13.11.2020	WANG, Hong
(72) LOW, Tze-Ping	(54) METHOD AND APPARATUS FOR	(31) 201710683643
TSAI, Lung-Sheng	SIDELINK SIGNALING RADIO	(32) 11.08.2017
LIAO, Yi-Ju	BEARER (SRB) ESTABLISHMENT IN A	(33) China
LIAO, Pei-Kai	WIRELESS COMMUNICATION SYSTEM	(51) H04W 76/16
HWANG, Chien-Hwa	(73) ASUSTek Computer Inc.	H04W 8/22
YU, Tsang-Wei	(72) PAN, Li-Te	H04L 1/18
(31) 201615235695	KUO, Richard Lee-Chee	H04W 88/06
201562218047 P	(31) 201962940460 P	(11) EP3643096
201562205157 P	(32) 26.11.2019	(21) EP18838097.6
(32) 12.08.2016	(33) United States of America	(47) 20.04.2022
14.09.2015	(51) H04W 76/14	(87) KR2018008612
14.08.2015	H04W 76/11	31.01.2019
(33) United States of America	H04W 8/26	(22) 30.07.2018
United States of America	H04W 80/02	(54) METHOD AND APPARATUS FOR
United States of America	H04W 80/08	HANDLING SOFT BUFFER SIZE WITH
(51) H04W 74/00	H04W 88/02	DUAL CONNECTIVITY IN WIRELESS
H04W 56/00	H04W 92/18	COMMUNICATION SYSTEM
H04W 48/12	(11) EP3883328	(73) LG Electronics Inc.
H04W 48/16	(21) EP20216808.4	(72) YI, Yunjung
H04W 74/08	(47) 20.04.2022	KIM, Youngtae
(11) EP3646657	(22) 23.12.2020	BAE, Duckhyun
(21) EP18828884.9	(54) METHOD AND APPARATUS TO	(31) 201762537966 P
(47) 20.04.2022	PERFORM A PROCEDURE FOR	(32) 28.07.2017
(87) KR2018007582	UPDATING LAYER-2 IDENTITIES	(33) United States of America
10.01.2019	(73) ASUSTek Computer Inc.	(51) H04W 84/04
(22) 04.07.2018	(72) PAN, Li-Te	H04W 24/02
(54) METHOD AND APPARATUS FOR	KUO, Richard Lee-Chee	(11) EP3054740
COMMUNICATION BASED ON FRAME	(31) 202062991266 P	(21) EP16162593.4
STRUCTURE	(32) 18.03.2020	(47) 20.04.2022
(73) Samsung Electronics Co., Ltd.	(33) United States of America	(22) 01.07.2010
(72) ZHANG, Yingjie	(51) H04W 76/14	(54) METHOD AND APPARATUS FOR
XIONG, Qi	H04W 76/12	OPTIMIZATION OF FEMTOCELL
QIAN, Chen	H04W 8/22	NETWORK MANAGEMENT
YU, Bin	H04W 8/24	(73) Apple Inc.
(31) 201810105219	(11) EP3737198	(72) Luft, Achim
201810029413	(21) EP20173609.7	Choi, Hyung-nam
201710539017	(47) 20.04.2022	Bienas, Maik
(32) 01.02.2018	(22) 08.05.2020	(31) 496550
11.01.2018	(54) REPORTING USER EQUIPMENT	(32) 01.07.2009
04.07.2017	CAPABILITY INFORMATION	(33) United States of America
(33) China	FOR SIDELINK RADIO BEARER	(51) H05B 1/02
China	CONFIGURATION IN A WIRELESS	H05B 3/00
China	COMMUNICATION SYSTEM	H05B 6/12
(51) H04W 74/08	(73) ASUSTek Computer Inc.	F04B 53/16
H04W 72/12	(72) KUO, Richard Lee-Chee	F04B 17/04
(11) EP3355643	PAN, Li-Te	F04B 23/02
(21) EP16847820.4	(31) 201962955003 P	A47J 31/46
(47) 20.04.2022	201962846412 P	(11) EP3258102
(87) CN2016083304	(32) 30.12.2019	(21) EP17382359.2
30.03.2017	10.05.2019	(47) 20.04.2022
(22) 25.05.2016	(33) United States of America	(22) 10.06.2017
(54) METHOD FOR PROCESSING	United States of America	(54) AUTONOMOUS HYDRAULIC UNIT
CHANNEL COLLISIONS IN DIRECT	(51) H04W 76/15	(73) Teylor Intelligent Processes SL
MODE OPERATION MODE, AND	H04W 28/02	(72) TEYLOR, Adrian
TERMINAL	H04W 28/24	(31) 201630785
(73) Hytera Communications Corporation	(11) EP3656178	(32) 16.06.2016
Limited	(21) EP18843558.0	(33) Spain
(72) LI, Huadong	(47) 20.04.2022	(51) H05B 3/06
LU, Zhibing	(87) KR2018009177	A24F 47/00
(31) 201510605345	14.02.2019	H05B 3/14
(32) 21.09.2015	(22) 10.08.2018	H05B 3/16
(33) China	(54) DUAL-CONNECTIVITY	H05B 3/44
(51) H04W 76/14	ESTABLISHMENT METHOD AND	A24F 40/42
H04W 12/037	DEVICE	A24F 40/46
(11) EP3829260	(73) Samsung Electronics Co., Ltd.	(11) EP3286985
(21) EP20207345.8	(72) KE, Xiaowan	(21) EP16719716.9
(47) 20.04.2022	XU, Lixiang	(47) 20.04.2022

(87) US2016028800 27.10.2016	(47) 20.04.2022	2016129562
(22) 22.04.2016	(87) IB2019056196 23.01.2020	(32) 30.06.2016 30.06.2016
(54) UNITARY HEATING ELEMENT AND HEATER ASSEMBLIES, CARTRIDGES, AND E-VAPOR DEVICES INCLUDING A UNITARY HEATING ELEMENT	(22) 19.07.2019	(33) Japan Japan
(73) Altria Client Services LLC	(37) I.R.C.A. S.p.a. Industria Resistenze Corazzate e Affini	(51) H05B 45/00 H05B 45/10 F21S 2/00
(72) HOLTZ, Arie	(72) BIASI, Maurizio	(11) EP3473059
(31) 201562151819 P	(37) ZOPPAS, Federico	(21) EP17731168.5
(32) 23.04.2015	(47) DAL COL, Ivano	(47) 20.04.2022
(33) United States of America	(73) EUSEBIO, Mario	(87) EP2017065304 28.12.2017
(51) H05B 3/14	(31) 201800007339	(22) 21.06.2017
H05B 3/84	(32) 19.07.2018	(54) DRIVER SYSTEM FOR A LIGHT EMITTING DEVICE
B60R 11/04	(33) Italy	(73) Schröder S.A.
G03B 11/04	(51) H05B 6/10	(72) SECRETIN, Laurent
G03B 17/55	H01J 27/18	(31) 17154068
(11) EP3451790	H05B 6/36	16175512
(21) EP18190276.8	F03H 1/00	(32) 31.01.2017 21.06.2016
(47) 20.04.2022	(11) EP3145275	(33) European Patent Office (EPO) European Patent Office (EPO)
(22) 22.08.2018	(21) EP15185774.5	(51) H05B 45/00 H05B 45/10 F21S 2/00
(54) DEVICE WITH HEATED LIGHT SCATTERING APERTURE	(47) 20.04.2022	(11) EP3261411
(73) Eichenauer Heizelemente GmbH & Co. KG	(22) 18.09.2015	(21) EP17154068.5
(72) Schlachter, Ulrich	(54) INDUCTION HEATING COIL	(47) 20.04.2022
Maas, Andreas	(73) Technische Hochschule Mittelhessen	(22) 31.01.2017
(31) 102017008099	(72) VOLKMAR, Chris	(54) DRIVER SYSTEM FOR A LIGHT EMITTING DEVICE
(32) 29.08.2017	RICKLEFS, Ubbo	(73) Schröder S.A.
(33) Germany	(51) H05B 6/12	(72) Secretin, Laurent
(51) H05B 3/20	(11) EP3462815	(31) 16175512
H05B 3/00	(21) EP18196524.5	(32) 21.06.2016
(11) EP3155871	(47) 20.04.2022	(33) European Patent Office (EPO)
(21) EP15728852.3	(22) 25.09.2018	(51) H05B 47/28 H05B 47/10
(47) 20.04.2022	(54) INDICATOR AND INDUCTION HEATING DEVICE COMPRISING THE SAME	(11) EP3032918
(87) EP2015063165	(73) LG Electronics Inc.	(21) EP14197378.4
17.12.2015	(72) Kim, Eui Sung	(47) 20.04.2022
(22) 12.06.2015	Moon, Hyunwook	(22) 11.12.2014
(54) PLANAR HEATING ELEMENT WITH A STRUCTURE OF PTC RESISTANCE	Kim, Yangkyeong	(54) Method for operating an assembly for emitting light with adjustable intensity and/or colour location
(73) Innovative Sensor Technology IST AG	(31) 20170128284	(73) Lumitech Patentverwertung GmbH
(72) LEHMANN, Mirko	(32) 29.09.2017	(72) Laky, Hannes
HOLOUBEK, Jiri	(33) Korea (Republic)	(51) H05H 1/54 F03H 1/00
VLK, Josef	(51) H05B 6/14	(11) EP3574719
(31) 102014108356	B23P 11/02	(21) EP18705434.1
(32) 13.06.2014	(11) EP3614809	(47) 20.04.2022
(33) Germany	(21) EP19183772.3	(87) FR2018050205 02.08.2018
(51) H05B 3/26	(47) 20.04.2022	(22) 30.01.2018
H05B 1/02	(22) 02.07.2019	(54) SYSTEM FOR GENERATING A PLASMA JET OF METAL IONS
H05B 3/42	(54) SHRINKING APPARATUS WITH CHUCK DETECTION AND AUTOMATIC COIL ADJUSTMENT	(73) Centre National de la Recherche Scientifique - CNRS
(11) EP3614797	(73) Haimer GmbH	(72) LUNDIN, Daniel
(21) EP19188759.5	(72) Haimer, Andreas	PETTY, Thomas
(47) 20.04.2022	(31) 202018104875 U	BALLAGE, Charles
(22) 29.07.2019	(32) 24.08.2018	MINEA, Tiberiu
(54) HEATING DEVICE AND METHOD FOR OPERATING A HEATING DEVICE	(33) Germany	(31) 1750750
(73) E.G.O. Elektro-Gerätebau GmbH	(51) H05B 6/74	(32) 30.01.2017
(72) Pawlowitsch, Ralf	H05B 6/70	
Erbe, Sebastian	(11) EP3661326	
Schönemann, Konrad	(21) EP20152193.7	
Stötzner, Elisabeth	(47) 20.04.2022	
(31) 102018213869	(22) 20.06.2017	
(32) 17.08.2018	(54) HIGH-FREQUENCY HEATING DEVICE	
(33) Germany	(73) Panasonic Intellectual Property Management Co., Ltd.	
(51) H05B 3/30	(72) OOMORI, Yoshiharu	
H05B 3/82	OKAJIMA, Toshiyuki	
(11) EP3824694	YOSHINO, Koji	
(21) EP19762215.2	(31) 2016129564	

(33) France	WROBEL, Adam M.	(22) 29.03.2017
(51) H05H 6/00	LOSTOSKI, Douglas A.	(54) COMPONENT MOUNTING MACHINE
(11) EP3560302	(31) 201816147556	(73) Fuji Corporation
(21) EP17828971.6	(32) 28.09.2018	(72) IISAKA, Jun
(47) 20.04.2022	(33) United States of America	ITO, Hidetoshi
(87) FR2017053679	(51) H05K 7/14	ISHIKAWA, Kenzo
28.06.2018	H05K 7/18	
(22) 19.12.2017	(11) EP3266286	
(54) GAS TARGETING SYSTEM FOR PRODUCING RADIOISOTOPES	(21) EP15890128.0	
(73) P M B	(47) 20.04.2022	
(72) PEREZ DELAUME, Alain	(87) US2015027592	
CAMPANELLA, Thomas	27.10.2016	
(31) 1663237	(22) 24.04.2015	
(32) 22.12.2016	(54) ADAPTER ASSEMBLIES	
(33) France	(73) Hewlett Packard Enterprise Development LP	
(51) H05K 3/20	(72) YATES, James Kenneth	
H01L 31/0224	TOMASZEWSKI, Richard J.	
(11) EP3826438	KRONTZ, Jeoff M.	
(21) EP20216728.4	DUPUY, James, Jr.	
(47) 20.04.2022	SCHULZE, James Jeffery	
(22) 28.07.2017	(51) H05K 7/20	
(54) APPLICATION OF ELECTRICAL CONDUCTORS TO AN ELECTRICALLY INSULATING SUBSTRATE	(11) EP3316669	
(73) Landa Labs (2012) Ltd.	(21) EP17199475.9	
(72) THYGELBAUM, Stanislav	(47) 20.04.2022	
LANDA, Benzion	(22) 31.10.2017	
ELFASSY, Naomi	(54) INTEGRATED CARD RAIL AND COOLING MODULE FOR EMBEDDED COMPUTING SYSTEMS	
(31) 201709427	(73) General Dynamics Mission Systems, Inc.	
201613051	(72) Bober, Nicholas R.	
(32) 14.06.2017	Holahan, Michael M.	
28.07.2016	(31) 201615339612	
(33) United Kingdom	(32) 31.10.2016	
United Kingdom	(33) United States of America	
(51) H05K 3/40	(51) H05K 9/00	
H01R 12/52	(11) EP3182815	
F21S 41/148	(21) EP16204189.1	
F21S 41/151	(47) 20.04.2022	
F21S 41/19	(22) 14.12.2016	
H05K 3/34	(54) ELECTRONIC DEVICE INCLUDING SHIELD STRUCTURE	
F21S 45/47	(73) Samsung Electronics Co., Ltd	
(11) EP3383150	(72) Ye, Jae-Heung	
(21) EP18163647.3	Kim, Jeong-Ung	
(47) 20.04.2022	Jang, Ki-Youn	
(22) 23.03.2018	Bang, Jung-Je	
(54) POWER SUPPLY DEVICE FOR AT LEAST ONE LED AND AT LEAST ONE ELECTRONIC COMPONENT, COMPRISING A POWER SUPPLY CONTROL CIRCUIT PROVIDED WITH AN INSERT	(31) 20150179564	
(73) Valeo Illuminacion	(32) 15.12.2015	
(72) ROLDAN, Jose-David	(33) Korea (Republic)	
PENA, Miguel-Angel	(51) H05K 13/04	
ILLAN, Antonio Domingo	(11) EP3606317	
(31) 1752753	(21) EP17903103.4	
(32) 31.03.2017	(47) 20.04.2022	
(33) France	(87) JP2017012559	
(51) H05K 7/14	04.10.2018	
(11) EP3629685	(22) 28.03.2017	
(21) EP19198963.1	(54) COMPONENT MOUNTER	
(47) 20.04.2022	(73) Fuji Corporation	
(22) 23.09.2019	(72) ISHIKAWA, Kenzo	
(54) ELECTRONICS MODULE MOUNTING SYSTEM	ITO, Hidetoshi	
(73) Rockwell Automation Technologies, Inc.	(51) H05K 13/04	
(72) BARAN, Michael S.	(11) EP3606319	
	(21) EP17904010.0	
	(47) 20.04.2022	
	(87) JP2017012905	
	04.10.2018	

EP3

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

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

(51) A01D 34/66	WIBERG, Lars	(22) 31.08.2017
A01D 34/74	(74) dr. W.A.H.M. Van Borm	(54) FORMULATIONS CONTAINING
(11) EP3657929	(31) 1850272	FLUOPYRAM FOR THE CONTROL OF
(21) EP18750500.3	(32) 12.03.2018	NEMATODES
(22) 11.07.2018	(33) Sweden	(73) Bayer CropScience Aktiengesellschaft
(54) ELECTRIC POWERED DISC MOWER	(47) 02.03.2022	(72) FÜRSCHE, Helmut
(73) Kverneland Group Kerteminde AS	(51) A01K 67/033	MALCOLM, Faers
(72) MADSEN, Jan Vestergaard	(11) EP3726975	(74) ir. W.J.J.M. Kempes
NES, Nils Asbjørn	(21) EP18842585.4	(31) 16187606
(74) ir. W.J.J.M. Kempes	(22) 21.12.2018	(32) 07.09.2016
(31) 20171254	(54) LIVE INSECTS TRANSPORT DEVICE	(33) European Patent Office (EPO)
(32) 26.07.2017	(73) Protix B.V.	(47) 05.01.2022
(33) Norway	(72) VAN KILSDONK, Jaap	(51) A22C 21/00
(47) 09.03.2022	JANSEN, Maurits Petrus Maria	A22C 15/00
(51) A01G 27/04	SCHMITT, Eric Holland	A22C 17/00
A01G 9/00	SIMONS, Henricus Petrus Johannes	(11) EP3545770
A01G 13/02	JACOBS, Ralf Henricus Wilhelmina	(21) EP18864403.3
(11) EP3104682	(74) dr. R.C. van Duijvenbode c.s.	(22) 05.10.2018
(21) EP14789211.1	(31) 2022057	(54) CLAMP DEVICE FOR LEG MEAT
(22) 15.10.2014	2020153	ON THE BONE, LOADING DEVICE
(54) SYSTEM AND METHOD FOR	(32) 23.11.2018	FOR LEG MEAT ON THE BONE, AND
PRODUCING A PLANT	22.12.2017	METHOD FOR CLAMPING LEG MEAT
(73) Vivi B.V.	(33) Netherlands	ON THE BONE
(72) VISSER, Cornelis Frans Taco	Netherlands	(73) Mayekawa Mfg. Co., Ltd.
BIJL, Jacob Johannes	(47) 02.03.2022	(72) USUI, Hiroyuki
(74) drs. W.H.P. Derks	(51) A01K 67/033	CHIMURA, Takeshi
(31) 2012234	(11) EP3868201	GOTO, Osamu
(32) 10.02.2014	(21) EP20020077.2	KURATANI, Yuuichi
(33) Netherlands	(22) 20.02.2020	UMEHARA, Takekuni
(47) 16.03.2022	(54) INSECT REARING BOX	(74) J.M.H. Duyver lic.
(51) A01H 4/00	madebymade GmbH	(31) 2017195874
C12N 1/00	(72) Herrmann, Klemens	(32) 06.10.2017
C12N 5/04	Weinreis, Yannik Andreas	(33) Japan
C12N 15/82	Finck, Jonas	(47) 09.03.2022
(11) EP3136841	Hempel, Kai Uwe	(51) A23L 33/00
(21) EP15725229.7	(74) dr. R.C. van Duijvenbode c.s.	(11) EP3407738
(22) 28.04.2015	(47) 05.01.2022	(21) EP17702062.5
(54) FERMENTATION SYSTEMS	(51) A01N 1/02	(22) 26.01.2017
(73) Fraunhofer-Gesellschaft zur Förderung	A61J 1/10	(54) COMPOSITIONS COMPRISING
der angewandten Forschung e.V.	(11) EP2777393	HUMAN MILK OLIGOSACCHARIDES
(72) BLESSING, Daniel	(21) EP13194083.5	FOR USE IN INFANTS OR YOUNG
VOGEL, Simon	(22) 22.11.2013	CHILDREN TO PREVENT OR TREAT
SACK, Markus	(54) Medical containers with terephthalate	ALLERGIES
BUNTRU, Matthias	plasticizer for storing red blood cell	(73) Société des Produits Nestlé S.A.
HOLLAND, Tanja	products	(72) NEMBRINI, Chiara
(74) dr. W.A.H.M. Van Borm	(73) Fenwal, Inc.	BLANCHARD, Carine
(31) 14166157	(72) Mizobuchi, Yoshikazu	(74) ir. F.A. Geurts c.s.
(32) 28.04.2014	Sandford, Graig	(31) 16152753
(33) European Patent Office (EPO)	Lynn, Daniel	(32) 26.01.2016
(47) 09.03.2022	(74) dr. ir. G.J.C. Verdijck c.s.	(33) European Patent Office (EPO)
(51) A01J 5/04	(31) 201313800682	(47) 09.02.2022
(11) EP3764777	(32) 13.03.2013	(51) A23L 33/105
(21) EP19711725.2	(33) United States of America	A61Q 19/08
(22) 07.03.2019	(47) 02.03.2022	(11) EP3607835
(54) A VACUUM PUMP ARRANGEMENT	(51) A01N 43/40	(21) EP17934367.8
FOR A MILKING PLANT	A01N 25/30	(22) 15.12.2017
(73) DeLaval Holding AB	A01P 5/00	(54) ANTI-AGING HEALTH FOOD AND
(72) PALMER, Fredrik	(11) EP3509420	COSMETIC AND METHOD FOR
	(21) EP17758873.8	

PRODUCING GRAPSEED-DERIVED ANTI-AGING COMPONENT	(51) A24F 40/40 A24F 40/65 H04L 12/28	(54) MODULAR FRAMEWORK FOR SHELVING
(73) NAGAO, Tsukasa	(11) EP3278509	(73) Briosi, Antonello
(72) NAGAO, Tsukasa	(21) EP16713910.4	(72) Briosi, Antonello
(74) ir. H.A. Witmans c.s.	(22) 01.04.2016	(74) dr. A. Ellens c.s.
(47) 12.01.2022	(54) KIT COMPRISING A MODULE AND AN ELECTRICALLY OPERATED AEROSOL-GENERATING SYSTEM	(31) 201700135473
(51) A24C 5/34	(73) Philip Morris Products S.A.	(32) 24.11.2017
(11) EP3716793	(72) HEDARCHET, Stéphane Antony	(33) Italy
(21) EP18819386.6	BATISTA, Rui Nuno	(47) 05.01.2022
(22) 28.11.2018	(74) dr. W.A.H.M. Van Borm	(51) A47J 31/46
(54) DEVICE FOR INSPECTING SMOKING ARTICLES	(31) 15162512	(11) EP3727109
(73) G.D S.p.A.	(32) 02.04.2015	(21) EP18826591.2
(72) MONTOLEONE, Ivano	(33) European Patent Office (EPO)	(22) 18.12.2018
FEDERICI, Luca	(47) 09.03.2022	(54) BEVERAGE PREPARATION MACHINE WITH DROP EVACUATION
GAMBERINI, Giuliano	(51) A24F 40/465	(73) Société des Produits Nestlé S.A.
ESPOSTI, Marco	A24F 40/42	(72) KRISTLBAUER, Jürgen
SALVADEO, Daniele	A24F 40/70	(74) ir. F.A. Geurts c.s.
(74) dr. R.C. van Duijvenbode c.s.	A24F 40/10	(31) 17208722
(31) 201700137830	(11) EP3716798	(32) 20.12.2017
(32) 30.11.2017	(21) EP18803437.5	(33) European Patent Office (EPO)
(33) Italy	(22) 20.11.2018	(47) 26.01.2022
(47) 05.01.2022	(54) CARTRIDGE HAVING AN INTERNAL SURFACE SUSCEPTOR MATERIAL	(51) A47L 11/40
(51) A24C 5/47	(73) Philip Morris Products S.A.	(11) EP3742950
A24D 1/10	(72) STURA, Enrico	(21) EP19707504.7
(11) EP3752012	MIRONOV, Oleg	(22) 28.01.2019
(21) EP19702561.2	(74) dr. W.A.H.M. Van Borm	(54) APPARATUS FOR TREATMENT OF FLOORS
(22) 29.01.2019	(31) 17204805	(73) 4CleanPro S.r.l.
(54) WRAPPING PAPER PATTERN FOR AN AEROSOL-GENERATING ARTICLE	(32) 30.11.2017	(72) PACINI, Lorenzo
(73) Philip Morris Products S.A.	(33) European Patent Office (EPO)	(74) dr. A. Ellens c.s.
(72) LOUVET, Alexis	(47) 09.03.2022	(31) 201800002051
GRAF, Didier	(51) A24F 40/53	(32) 26.01.2018
(74) dr. W.A.H.M. Van Borm	A24F 40/90	(33) Italy
(31) 18157256	(11) EP3769635	(47) 05.01.2022
(32) 16.02.2018	(21) EP20197000.1	(51) A61B 1/005
(33) European Patent Office (EPO)	(22) 24.04.2015	A61B 1/00
(47) 02.03.2022	(54) AN ELECTRICALLY HEATED AEROSOL-GENERATING SYSTEM	A61M 25/00
(51) A24D 3/04	(73) Philip Morris Products S.A.	A61M 25/01
(11) EP3694345	(72) HOLZHERR, Raphaël	A61B 17/00
(21) EP18783026.0	(74) dr. W.A.H.M. Van Borm	(11) EP3610777
(22) 11.10.2018	(31) 14166694	(21) EP19201502.2
(54) AEROSOL GENERATING ARTICLE HAVING A CAVITY WITH PARTICULATE AEROSOL ALTERING MATERIAL	(32) 30.04.2014	(22) 30.06.2008
(73) Philip Morris Products S.A.	(33) European Patent Office (EPO)	(54) INSTRUMENT FOR ENDOSCOPIC APPLICATIONS
(72) KADIRIC, Alen	(47) 09.03.2022	(73) Fortimedix Assets II B.V.
BESSO, Clément	(51) A43B 13/04	(72) VERBEEK, Marcel Antonius Elisabeth
(74) dr. W.A.H.M. Van Borm	A43B 13/12	(74) dr. R.C. van Duijvenbode c.s.
(31) 17196485	A43B 13/18	(31) 08004373
(32) 13.10.2017	A43B 13/22	(32) 10.03.2008
(33) European Patent Office (EPO)	(11) EP3484320	(33) European Patent Office (EPO)
(47) 02.03.2022	(21) EP17735140.0	(47) 09.03.2022
(51) A24D 3/04	(22) 05.07.2017	(51) A61B 1/07
A24D 3/16	(54) MID-SOLE FOR SHOES	A61B 17/02
(11) EP3261461	(73) Diadora S.p.A.	A61B 17/34
(21) EP16708444.1	(72) MASON, Angelo	A61B 90/30
(22) 26.02.2016	POLEGATO MORETTI, Enrico	A61B 1/00
(54) A SMOKING ARTICLE AND MOUTHPIECE THEREFOR	(74) ir. J.C. Volmer c.s.	A61B 17/00
(73) Nicoventures Trading Limited	(31) 201600073012	(11) EP3685734
(72) KALJURA, Karl	(32) 13.07.2016	(21) EP19197265.2
(74) dr. R.C. van Duijvenbode c.s.	(33) Italy	(22) 21.05.2015
(31) 201503388	(47) 12.01.2022	(54) MEDICAL DEVICE FEATURING CLADDED WAVEGUIDE
(32) 27.02.2015	(51) A47B 53/02	(73) Inuuity, Inc.
(33) United Kingdom	(11) EP3713447	(72) TUDBURY, Gaston
(47) 12.01.2022	(21) EP18825780.2	ERISMANN, Fernando
	(22) 23.11.2018	VAYSER, Alex
		(74) J.M.H. Duyver lic.

(31) 201462002030 P	(32) 01.09.2011	A61B 8/00
(32) 22.05.2014	(33) United States of America	A61B 6/00
(33) United States of America	(47) 23.02.2022	A61B 6/04
(47) 09.03.2022	(51) A61B 5/053	(11) EP2575620
(51) A61B 5/00	A61B 5/029	(21) EP11725287.4
A61B 5/20	A61B 5/01	(22) 01.06.2011
(11) EP3446625	A61B 5/0295	(54) METHOD AND APPARATUS FOR
(21) EP17187957.0	A61B 5/08	DUAL-MODALITY ULTRASONIC AND
(22) 25.08.2017	A61B 5/11	NUCLEAR EMISSION MAMMOGRAPHY
(54) USE OF A SIGNALLING DEVICE	A61B 5/1455	(73) MAYO FOUNDATION FOR MEDICAL
FOR THE DETERMINATION OF A	A61B 5/021	EDUCATION AND RESEARCH
CATHETERISATION REQUIREMENT	A61B 5/02	(72) O'CONNOR, Michael, K.
(73) Perlitz, Volker	A61B 5/0205	(74) dr. ir. G.J.C. Verdijk c.s.
(72) Perlitz, Volker	A61B 5/145	(31) 350644 P
(74) J.M.H. Duyver lic.	A61B 5/0535	(32) 02.06.2010
(47) 26.01.2022	G16H 40/67	(33) United States of America
(51) A61B 5/02	A61B 5/00	(47) 19.01.2022
A61B 5/0295	A61B 5/024	(51) A61B 8/14
A61B 5/022	A61B 5/0245	A61N 5/10
A61B 5/00	(11) EP3646786	G01R 33/38
(11) EP3116383	(21) EP19197712.3	G01R 33/48
(21) EP14885237.9	(22) 27.12.2011	A61B 34/00
(22) 17.12.2014	(54) BODY-WORN SYSTEM FOR	(11) EP3266381
(54) METHOD AND DEVICE FOR	CONTINUOUS, NONINVASIVE	(21) EP17000759.5
DETECTING AND ASSESSING	MEASUREMENT OF AT LEAST ONE	(22) 21.12.2011
REACTIVE HYPEREMIA USING	OF CARDIAC OUTPUT AND STROKE	(54) SYSTEM AND METHOD FOR IMAGE
SEGMENTAL PLETHYSMOGRAPHY	VOLUME FROM A PATIENT	GUIDANCE DURING MEDICAL
(73) Cordex Systems, Inc.	(73) Sotera Wireless, Inc.	PROCEDURES
(72) WHITT, Michael David	(72) BERNSTEIN, Donald	(73) ViewRay Technologies, Inc.
RITTERBUSH, Stephen	HENRY, Isaac	(72) DEMPSEY, James, F.
MAGLIATO, Kathy Elizabeth	BANET, Matt	(74) ir. W.J.J.M. Kempes
(74) J. Hoekstra	(74) mr. ir. J. van Breda c.s.	(31) 201061425891 P
(31) 201414204736	(31) 201061427756 P	(32) 22.12.2010
(32) 11.03.2014	(32) 28.12.2010	(33) United States of America
(33) United States of America	(33) United States of America	(47) 05.01.2022
(47) 05.01.2022	(47) 26.01.2022	(51) A61B 17/122
(51) A61B 5/021	(51) A61B 5/274	A61F 2/24
A61B 5/00	H01R 13/627	A61B 17/00
(11) EP3801227	H01R 13/633	(11) EP3481336
(21) EP19728406.0	(11) EP3797688	(21) EP17824684.9
(22) 03.06.2019	(21) EP20195978.0	(22) 14.06.2017
(54) METHOD AND APPARATUS FOR	(22) 14.09.2020	(54) DEVICE FOR TREATING VASCULAR
ESTIMATING A TREND IN A BLOOD	(54) CLAMPING DEVICE AND SENSOR	INSUFFICIENCY
PRESSURE SURROGATE	CABLE	(73) Edwards Lifesciences Corporation
(73) Koninklijke Philips N.V.	(73) Drägerwerk AG & Co. KGaA	(72) SCHNEIDER, Ralph
(72) SCHMITT, Lars	(72) Graßl, Thomas	FRESCHAUF, Lauren, R.
VAN DALEN, Jan	(74) ir. F.A. Geurts c.s.	(74) ir. F.A. Geurts c.s.
MUEHLSTEFF, Jens	(31) 102019006783	(31) 201715619220
JUNYENT MORA, Ignasi	(32) 27.09.2019	201662359608 P
BRESCH, Erik	(33) Germany	(32) 09.06.2017
(74) drs. O. Griebing	(47) 19.01.2022	07.07.2016
(31) 18175931	(51) A61B 5/287	(33) United States of America
(32) 05.06.2018	(11) EP3669771	United States of America
(33) European Patent Office (EPO)	(21) EP19217979.4	(47) 09.02.2022
(47) 12.01.2022	(22) 19.12.2019	(51) A61B 17/16
(51) A61B 5/0215	(54) ELECTRODE ARRANGEMENT TO	H01M 10/48
A61B 5/00	SENSE CARDIAC WAVE VECTOR	H01M 10/613
(11) EP2750587	(73) Biosense Webster (Israel) Ltd.	H01M 10/658
(21) EP12759322.6	(72) GOVARI, Assaf	H01M 10/651
(22) 31.08.2012	(74) dr. R.C. van Duijvenbode c.s.	A61B 90/00
(54) IMPLANTABLE SENSOR DEVICE FOR	(31) 201816228403	H01M 50/24
MEASURING FLUID PRESSURE	(32) 20.12.2018	H01M 50/20
(73) Microtech Medical Technologies Ltd.	(33) United States of America	A61B 17/00
(72) MANDEL, Shahar, Even-dar	(47) 16.02.2022	(11) EP3250134
RICHTER, Yoram	(51) A61B 6/03	(21) EP16712549.1
TAMMAM, Eric, S.	G21K 1/02	(22) 28.01.2016
(74) dr. R.C. van Duijvenbode c.s.	G01T 1/164	
(31) 201161530040 P	A61B 8/08	

- (54) BATTERY ENCLOSURE FOR STERILIZEABLE SURGICAL TOOLS HAVING THERMAL INSULATION
(73) DePuy Synthes Products, Inc.
(72) PEDICINI, Christopher
(74) dr. R.C. van Duijvenbode c.s.
(31) 201562108749 P
(32) 28.01.2015
(33) United States of America
(47) 16.02.2022
-
- (51) A61C 17/02
(11) EP3700460
(21) EP18799444.7
(22) 16.10.2018
(54) CLEANING DEVICE USING LIQUID SHEET CLEANING ACTION
(73) Koninklijke Philips N.V.
(72) HOETZL, Sandra
WILLIAMS, Quintin, Oliver
GOTTENBOS, Bart
LAVEZZO, Valentina
(74) drs. O. Griebing
(31) 201762575587 P
(32) 23.10.2017
(33) United States of America
(47) 19.01.2022
-
- (51) A61C 17/22
A46B 15/00
(11) EP3705084
(21) EP20167857.0
(22) 20.04.2007
(54) SYSTEM WITH A DISPLAY FOR AN ELECTRIC TOOTHBRUSH
(73) Koninklijke Philips N.V.
(72) DABROWSKI, Christopher
BEEDHAM, Martyn
BENNING, Wolter
COOK, Charles
PETERSON, Rick
HEARD, Gregg
CASPERSEN, Hanne
GREZ, Joe
(74) drs. O. Griebing
(31) 793902 P
(32) 20.04.2006
(33) United States of America
(47) 12.01.2022
-
- (51) A61F 2/00
A61B 17/00
A61B 17/04
A61B 17/06
(11) EP2173275
(21) EP08796887.1
(22) 30.07.2008
(54) APPARATUS FOR THE TREATMENT OF STRESS URINARY INCONTINENCE
(73) Boston Scientific Scimed, Inc.
(72) SCHERR, Douglas
GLODBERG, Roger P.
(74) ir. H.J.G. Lips c.s.
(31) 952802 P
(32) 30.07.2007
(33) United States of America
(47) 02.03.2022
-
- (51) A61F 2/24
A61B 17/12
A61B 17/00
A61B 17/064
(11) EP3558169
(21) EP18788284.0
(22) 18.04.2018
(54) HEART VALVE SEALING DEVICES AND DELIVERY DEVICES THEREFOR
(73) Edwards Lifesciences Corporation
(72) WINSTON, Matthew
SOK, Sam
DIXON, Eric Robert
TYLER, II, Gregory Scott
SIEGEL, Alexander J.
TAYLOR, David M.
DELGADO, Sergio
FRESCHAUF, Lauren R.
METCHIK, Asher L.
(74) ir. F.A. Geurts c.s.
(31) 201762571552 P
201762555240 P
201762504389 P
201762486835 P
(32) 12.10.2017
07.09.2017
10.05.2017
18.04.2017
(33) United States of America
United States of America
United States of America
United States of America
(47) 19.01.2022
-
- (51) A61F 2/24
A61B 17/12
A61B 17/00
A61B 17/064
(11) EP3682854
(21) EP20161486.4
(22) 18.04.2018
(54) HEART VALVE SEALING DEVICES AND DELIVERY DEVICES THEREFOR
(73) Edwards Lifesciences Corporation
(72) TAYLOR, David M.
SIEGEL, Alexander J.
FRESCHAUF, Lauren R.
WINSTON, Matthew
METCHIK, Asher L.
TYLER, Gregory Scott II
DIXON, Eric Robert
SOK, Sam
DELGADO, Sergio
(74) ir. F.A. Geurts c.s.
(31) 201762571552 P
201762555240 P
201762504389 P
201762486835 P
(32) 12.10.2017
07.09.2017
10.05.2017
18.04.2017
(33) United States of America
United States of America
United States of America
United States of America
(47) 19.01.2022
-
- (51) A61F 7/00
A61F 7/08
A61G 13/12
A61G 7/005
(11) EP3405148
(21) EP17742017.1
(22) 20.01.2017
(54) PATIENT WARMING DEVICE FOR SURGICAL PROCEDURES
(73) Xodus Medical, Inc.
(72) KAFOREY, Craig
LLOYD, Paul
KAFOREY, Mark
(74) dr. R.C. van Duijvenbode c.s.
(31) 201662281390 P
(32) 21.01.2016
(33) United States of America
(47) 30.03.2022
-
- (51) A61F 13/511
D04H 3/007
D04H 3/147
D04H 3/16
(11) EP3554441
(21) EP17822996.9
(22) 14.12.2017
(54) SHAPED NONWOVEN
(73) The Procter & Gamble Company
(72) WEISMAN, Paul Thomas
ASHRAF, Arman
(31) 201662434547 P
(32) 15.12.2016
(33) United States of America
(47) 16.03.2022
-
- (51) A61H 1/02
A61H 23/02
(11) EP3824862
(21) EP19720930.7
(22) 27.03.2019
(54) DEVICE FOR MASSAGING AND STRETCHING CERTAIN BODY PARTS
(73) Demac, S.A.
(72) DE LA TORRE BARREIRO, José Luis
(74) dr. R.C. van Duijvenbode c.s.
(31) 201830816
(32) 09.08.2018
(33) Spain
(47) 26.01.2022
-
- (51) A61J 7/02
G06M 1/28
A61J 1/03
(11) EP3746030
(21) EP19708134.2
(22) 29.01.2019
(54) DEVICE FOR DOSING OR COUNTING OBJECTS
(73) Stiplastics
(72) ZOCZEK, Guillaume
BROUARD, Hugues
SOUAL, Ludovic
(74) ir. F.A. Geurts c.s.
(31) 1851986
1850772
(32) 07.03.2018
31.01.2018
(33) France
France
(47) 26.01.2022
-
- (51) A61K 6/90
(11) EP3434253
(21) EP16895514.4
(22) 01.12.2016
(54) DENTAL ALGINATE IMPRESSION MATERIAL
(73) GC Corporation

(72) USUKI, Daisuke KUMAGAI, Tomohiro NIIZEKI, Naofumi	(51) A61K 9/50 A61K 38/17 A61K 39/00 A61P 27/02 A61K 9/16	COCKETT, Alasdair CHRISTODOULOU, Mark WORTHINGTON, Jeffrey JONES, Leighton CLAYTON, Lucy UNGAR, Alex TISI, David STEIN, Peter PETROSSIAN, Vanik FARRAG, Lynn DAVIDSON, Ian
(74) dr. R.C. van Duijvenbode c.s. (31) 2016056593 (32) 22.03.2016 (33) Japan (47) 02.02.2022	(11) EP3574897 (21) EP19180351.9 (22) 18.11.2012	(74) dr. R.C. van Duijvenbode c.s. (31) 201361787366 P 201261699488 P (32) 15.03.2013 11.09.2012 (33) United States of America United States of America (47) 05.01.2022
(51) A61K 9/00 A61K 9/16 A61K 31/713 A61K 47/24 A61K 47/36 A61K 47/38 A61P 31/16 A61P 11/00 A61P 31/04 A61P 31/12 A61P 37/04 C12N 15/117	(54) EXTENDED RELEASE FORMULATION COMPRISING POLYMER PROTEIN MICROPARTICLES FOR USE IN THE VITREOUS OF THE EYE FOR TREATING VASCULAR EYE DISORDERS (73) Regeneron Pharmaceuticals, Inc. (72) CHEN, Hunter WALSH, Scott (74) dr. R.C. van Duijvenbode c.s. (31) 201161561525 P (32) 18.11.2011 (33) United States of America (47) 05.01.2022	(51) A61K 31/4166 C07D 405/04 A61K 9/08 A61K 9/14 A61K 31/4178 A61K 47/18 A61K 47/40 A61K 47/69 (11) EP3503885 (21) EP17842214.3 (22) 18.08.2017 (54) PHARMACEUTICAL COMPOSITION AND METHODS OF USES (73) Foresee Pharmaceuticals Co., Ltd. (72) LI, Yuhua HUANG, ChiaTing MAO, John (74) ir. W.J.J.M. Kempes (31) 201662377427 P (32) 19.08.2016 (33) United States of America (47) 23.03.2022
(11) EP2846767 (21) EP13722334.3 (22) 02.05.2013 (54) POLYINOSINIC-POLYCYTIDYLIC ACID (POLY (I:C)) FORMULATIONS FOR THE TREATMENT OF UPPER RESPIRATORY TRACT INFECTIONS (73) Janssen Sciences Ireland Unlimited Company (72) MALCOLM, Bruce Albert SUTMULLER, Roger Paulus Maria BAERT, Lieven Elvire Colette (74) ir. W.J.J.M. Kempes (31) 12166595 (32) 03.05.2012 (33) European Patent Office (EPO) (47) 26.01.2022	(31) 201161561525 P (32) 18.11.2011 (33) United States of America (47) 05.01.2022 (51) A61K 31/16 A61K 31/164 A61K 31/335 C07D 309/04 C07D 309/06 C07K 5/08 A61K 38/14 A61P 27/00 C07K 5/10 C07K 9/00 C07K 14/00 (11) EP3407876 (21) EP17743819.9 (22) 27.01.2017 (54) USE OF ANTI-AGING GLYCOPROTEIN FOR ENHANCING SURVIVAL OF NEUROSENSORY PRECURSOR CELLS (73) Protokinetix Inc. (72) YOUNG, Lachlan Grant (74) J.M.H. Duyver lic. (31) 201662287857 P (32) 27.01.2016 (33) United States of America (47) 12.01.2022	(51) A61K 31/513 A61P 31/18 (11) EP3656384 (21) EP19210167.3 (22) 07.10.2013 (54) COMBINATIONS COMPRISING 5- PHENOXY-3H-PYRIMIDIN-4-ONE DERIVATIVES AND THEIR USE FOR THE PROPHYLAXIS OR TREATMENT OF INFECTION BY HIV (73) MERCK SHARP & DOHME CORP. (72) Li, Yaozong Burgey, Christopher Xu, Jiayi Gilfillan, Robert Patel, Mehul Han, Yongxin Arrington, Kenneth L. Li, Chun Sing Luo, Yunfu (74) ir. H.A. Witmans c.s. (31) PCT/CN2012/001358 (32) 08.10.2012 (33) World Intellectual Property Office (WIPO) (47) 23.02.2022
(51) A61K 9/127 B01J 13/12 A61K 47/10 A61K 47/14 (11) EP3138556 (21) EP15785778.0 (22) 30.04.2015 (54) METHOD FOR PRODUCING LIPOSOMES (73) FUJIFILM Corporation (72) ONO, Kohei IGARASI, Yuuko ONO, Makoto (74) ir. H.A. Witmans c.s. (31) 2014094142 (32) 30.04.2014 (33) Japan (47) 02.03.2022	(51) A61K 31/375 A61K 9/00 A61K 47/10 A61P 1/10 A61K 33/04 A61K 33/14 A61K 31/77 A61K 31/047 A61K 47/26 A61K 9/08 A61K 47/12 (11) EP3473248 (21) EP18210570.0 (22) 10.09.2013 (54) COMPOSITIONS COMPRISING POLYETHYLENE GLYCOL AND ALKALI METAL OR ALKALINE EARTH METAL SULPHATES FOR USE AS COLON CLEANSING COMPOSITIONS (73) Norgine BV (72) HALPHEN, Marc	(51) A61K 31/513 A61P 31/18 (11) EP3656384 (21) EP19210167.3 (22) 07.10.2013 (54) COMBINATIONS COMPRISING 5- PHENOXY-3H-PYRIMIDIN-4-ONE DERIVATIVES AND THEIR USE FOR THE PROPHYLAXIS OR TREATMENT OF INFECTION BY HIV (73) MERCK SHARP & DOHME CORP. (72) Li, Yaozong Burgey, Christopher Xu, Jiayi Gilfillan, Robert Patel, Mehul Han, Yongxin Arrington, Kenneth L. Li, Chun Sing Luo, Yunfu (74) ir. H.A. Witmans c.s. (31) PCT/CN2012/001358 (32) 08.10.2012 (33) World Intellectual Property Office (WIPO) (47) 23.02.2022
(51) A61K 9/16 (11) EP3716951 (21) EP18811797.2 (22) 29.11.2018 (54) PROCESS AND DEVICE FOR PREPARING A SOLID DISPERSION (73) BIT Pharma GmbH (72) ADAGE, Tiziana (74) J.M.H. Duyver lic. (31) 17204645 (32) 30.11.2017 (33) European Patent Office (EPO) (47) 05.01.2022	(51) A61K 9/00 A61K 47/10 A61P 1/10 A61K 33/04 A61K 33/14 A61K 31/77 A61K 31/047 A61K 47/26 A61K 9/08 A61K 47/12 (11) EP3473248 (21) EP18210570.0 (22) 10.09.2013 (54) COMPOSITIONS COMPRISING POLYETHYLENE GLYCOL AND ALKALI METAL OR ALKALINE EARTH METAL SULPHATES FOR USE AS COLON CLEANSING COMPOSITIONS (73) Norgine BV (72) HALPHEN, Marc	(51) A61K 31/664 A61K 31/675

A61K 31/7068	SILVESTRE, Nathalie	HARDY, Matthew
A61P 35/00	MARCHAND, Jean-Baptiste	(74) dr. R.C. van Duijvenbode c.s.
A61K 31/685	RITTNER, Karola	(31) 2016900034
(11) EP2817011	THIOUDELLET, Christine	(32) 07.01.2016
(21) EP13751188.7	(74) ir. F.A. Geurts c.s.	(33) Australia
(22) 21.02.2013	(31) 14306153	(47) 02.02.2022
(54) TREATMENT OF CANCER	(32) 16.07.2014	(51) A61K 39/35
(73) ImmunoGenesis, Inc.	(33) European Patent Office (EPO)	C12N 15/62
(72) KROLL, Stewart	(47) 26.01.2022	C12N 7/01
(74) mr. R. Zwamborn	(51) A61K 38/17	C12N 15/29
(31) 201361756419 P	A61K 45/00	A61K 31/711
201261601438 P	A61K 39/395	A61K 31/713
(32) 24.01.2013	A61K 45/06	A61P 37/08
21.02.2012	A61P 9/00	(11) EP2968528
(33) United States of America	A61P 29/00	(21) EP14763738.3
United States of America	A61P 35/00	(22) 17.03.2014
(47) 05.01.2022	(11) EP3505183	(54) IMMUNE MODULATION
(51) A61K 33/14	(21) EP17843086.4	(73) Sementis Limited
A61K 33/42	(22) 24.02.2017	(72) HOWLEY, Paul, Michael
A61K 33/02	(54) MICROVASCULAR BLOOD FLOW	(74) ir. H.A. Witmans c.s.
A61K 31/14	DECREASING AGENT AND USE	(31) 201361852239 P
A61K 31/198	THEREOF	(32) 15.03.2013
A61K 31/205	(73) Okuno, Tetsuji	(33) United States of America
A61K 31/6615	(72) Okuno, Tetsuji	(47) 23.02.2022
A61K 45/06	(74) ir. H.A. Witmans c.s.	(51) A61K 39/395
A23K 20/24	(31) 2016165995	C07K 16/28
A23K 20/26	(32) 26.08.2016	(11) EP2744515
A61K 9/00	(33) Japan	(21) EP12747923.6
A61P 15/06	(47) 30.03.2022	(22) 14.08.2012
A61P 43/00	(51) A61K 38/28	(54) COMBINATION THERAPY WITH
A61K 33/06	A61K 47/12	AN ANTI-CD19 ANTIBODY AND A
A23K 20/00	A61P 3/10	NITROGEN MUSTARD
A23K 20/10	(11) EP3233108	(73) MorphoSys AG
A23K 50/30	(21) EP15817678.4	(72) WINDERLICH, Mark
(11) EP3615041	(22) 09.12.2015	STEIDL, Stefan
(21) EP18722243.5	(54) RAPID-ACTING INSULIN	KROHN, Susanne
(22) 24.04.2018	COMPOSITIONS	ROJKJAER, Lisa
(54) CALCIUM BINDER FOR USE IN	(73) Eli Lilly and Company	AMERSDORFER, Jutta
PREVENTING STILLBIRTH	(72) MAJUMDAR, Ranajoy	(74) dr. R.C. van Duijvenbode c.s.
(73) Nutreco IP Assets B.V.	SCHULTE, Nanette Elizabeth	(31) 201261654097 P
(72) LANGENDIJK, Pieter	PAAVOLA, Chad D.	201261647539 P
(74) ir. J.C. Volmer c.s.	AKERS, Michael Patrick	201161523861 P
(31) 2018777	SARIN, Virender Kumar	11177658
(32) 25.04.2017	NGUYEN, Chi A.	(32) 01.06.2012
(33) Netherlands	(74) ir. J.C. Volmer c.s.	16.05.2012
(47) 23.02.2022	(31) 201462092407 P	16.08.2011
(51) A61K 35/768	(32) 16.12.2014	16.08.2011
C07K 16/18	(33) United States of America	(33) United States of America
A61K 35/765	(47) 30.03.2022	United States of America
A61K 9/00	(51) A61K 38/36	United States of America
A61K 47/02	A61K 38/37	European Patent Office (EPO)
A61K 9/08	C07K 14/745	(47) 09.02.2022
A61K 35/761	A61P 7/04	(51) A61K 39/395
A61K 35/763	A61K 38/00	C07K 16/28
A61K 35/766	A61K 35/00	A61P 35/00
C07K 14/535	C07K 14/755	(11) EP3442578
C07K 16/28	(11) EP3400002	(21) EP17783254.0
C12N 9/10	(21) EP17735769.6	(22) 14.04.2017
C12N 9/80	(22) 06.01.2017	(54) METHODS FOR DETERMINING AND
A61K 45/06	(54) MUTATED TRUNCATED VON	ACHIEVING THERAPEUTICALLY
(11) EP3552615	WILLEBRAND FACTOR	EFFECTIVE DOSES OF ANTI-CD47
(21) EP19174121.4	(73) CSL Behring Lengnau AG	AGENTS IN TREATMENT OF CANCER
(22) 16.07.2015	(72) EMMRICH, Kerstin	(73) The Board of Trustees of the Leland
(54) ONCOLYTIC VIRUS FOR EXPRESSION	WILSON, Michael	Stanford Junior University
OF IMMUNE CHECKPOINT	PANOUSIS, Con	(72) VOLKMER, Jens-Peter
MODULATORS	ANDREWS, Arna	MAJETI, Ravindra
(73) TRANSGENE	HARTMAN, Dallas	LIU, Jie
(72) GEIST, Michel	DOWER, Steve	CHAO, Mark P.

- WEISSMAN, Irving L.
(74) dr. R.C. van Duijvenbode c.s.
(31) 201662427679 P
201662323330 P
(32) 29.11.2016
15.04.2016
(33) United States of America
United States of America
(47) 09.02.2022
-
- (51) A61K 39/395
C12N 15/13
C07K 16/18
A61P 35/00
C07K 16/28
(11) EP3370768
(21) EP16862773.5
(22) 01.11.2016
(54) ANTIBODIES SPECIFICALLY BINDING
PD-1 AND THEIR USES
(73) Janssen Biotech, Inc.
(72) FERRANTE, Catherine
WU, Sheng-Jiun
UBANI, Enrique-Zudaire
WIEHAGEN, Karla R.
SABINS, Nina Chi
POWERS, Gordon
DEANGELIS, Nikki A.
SANTULLI-MAROTTO, Sandra
VERONA, Raluca
(74) dr. R.C. van Duijvenbode c.s.
(31) 201562250095 P
(32) 03.11.2015
(33) United States of America
(47) 12.01.2022
-
- (51) A61K 45/00
A61P 25/00
A61K 31/196
A61K 31/437
(11) EP3785733
(21) EP20195373.4
(22) 06.11.2018
(54) PHARMACEUTICAL COMPOSITION
FOR THE TREATMENT OF AUTISM
(73) Stalicia S.A.
(72) Durham, Lynn
(74) mr. R. Zwamborn
(31) 201862663647 P
201762582141 P
18169952
17200219
(32) 27.04.2018
06.11.2017
27.04.2018
06.11.2017
(33) United States of America
United States of America
European Patent Office (EPO)
European Patent Office (EPO)
(47) 05.01.2022
-
- (51) A61K 47/68
A61P 35/00
A61P 37/00
A61P 37/02
A61P 37/06
A61P 43/00
A61K 31/5517
(11) EP2558127
(21) EP11716754.4
(22) 15.04.2011
(54) TARGETED
PYRROLOBENZODIAZEPINE
CONJUGATES
(73) Seagen Inc.
MedImmune Limited
(72) BURKE, Patrick
HOWARD, Philip, Wilson
SENER, Peter
JEFFREY, Scott
(74) dr. R.C. van Duijvenbode c.s.
(31) 324623 P
(32) 15.04.2010
(33) United States of America
(47) 19.01.2022
-
- (51) A61M 1/00
A61M 5/14
(11) EP3666302
(21) EP20154753.6
(22) 13.12.2006
(54) A WASTE COLLECTION UNIT FOR
COLLECTING WASTE MATERIAL
THROUGH A PLURALITY OF
SUCTION LINES DURING A MEDICAL
PROCEDURE
(73) Stryker Corporation
(72) DURNELL, Troy E.
GAMHEWAGE, Chamara
MURRAY, Sean A.
ROCQUE, Glen D
REASONER, Stephen J.
WASSERMAN, Mark A.
SCANLON, Brandon A.
ISHAM, Stephen P.
WESTPHAL, Grant T.
HEPP III, Joseph P.
MACLACHLAN, Brian
LALOMIA, Brent S
(74) J.M.H. Duyver lic.
(31) 750862 P
(32) 14.12.2005
(33) United States of America
(47) 02.03.2022
-
- (51) A61M 1/02
A61K 35/16
A61K 35/28
A61K 35/35
A61K 47/36
A61L 33/00
A61M 1/34
A61M 39/10
(11) EP3223875
(21) EP15801802.8
(22) 26.11.2015
(54) NEW STANDARDIZATIONS AND
MEDICAL DEVICES FOR THE
PREPARATION OF PLATELET RICH
PLASMA (PRP) OR BONE MARROW
CENTRATE (BMC) ALONE OR IN
COMBINATION WITH HYALURONIC
ACID
(73) Regen Lab SA
(72) Turzi, Antoine
(74) dr. W.A.H.M. Van Borm
(31) 201421013
(32) 26.11.2014
(33) United Kingdom
(47) 05.01.2022
-
- (51) A61M 15/00
A61M 16/00
(11) EP3813912
(21) EP20734927.5
(22) 25.06.2020
(54) AN INHALER ASSEMBLY COMPRISING
A DETACHABLE FLOW SENSOR
(73) NuvoAir AB
(72) BOSAEUS, Linus
CONSOLI, Lorenzo
AIDEHAG, Fredrik
(74) ir. J.C. Volmer c.s.
(31) PA201970437
(32) 04.07.2019
(33) Denmark
(47) 19.01.2022
-
- (51) A61M 60/148
A61M 60/50
(11) EP3737436
(21) EP19701774.2
(22) 08.01.2019
(54) METHOD AND APPARATUS
FOR CALIBRATION AND USE IN
ESTIMATING BLOOD FLOW IN AN
INTRAVASCULAR BLOOD PUMP
(73) Abiomed Europe GmbH
(72) SIESS, Thorsten
BÖNSCH, Stefan
NIX, Christoph
(74) J.M.H. Duyver lic.
(31) 18150702
(32) 09.01.2018
(33) European Patent Office (EPO)
(47) 09.03.2022
-
- (51) A61P 35/02
A61P 43/00
A61K 9/127
A61K 31/70
A61K 9/00
A61P 7/00
A61P 35/00
(11) EP3300601
(21) EP17200498.8
(22) 15.02.2008
(54) FIXED DRUG RATIOS FOR
TREATMENT OF HEMATOPOIETIC
CANCERS AND PROLIFERATIVE
DISORDERS
(73) Rotalec IP Holdings LLC
(72) Louie, Arthur
Mayer, Lawrence
Swenson, Christine
Janoff, Andrew
(74) dr. R.C. van Duijvenbode c.s.
(31) 965196 P
901772 P
(32) 17.08.2007
16.02.2007
(33) United States of America
United States of America
(47) 12.01.2022
-
- (51) A63B 21/072
A63B 21/075
A63B 21/00
(11) EP3725380
(21) EP19173907.7
(22) 10.05.2019
(54) ADJUSTABLE DUMBBELL

- (73) OHFG Technologies (Shanghai) Co., Ltd
(72) LIU, Ping
(31) 201920529575 U
(32) 18.04.2019
(33) China
(47) 05.01.2022
(51) B01D 45/08
(11) EP3669963
(21) EP19217365.6
(22) 18.12.2019
(54) MIST ELIMINATOR WITH NOVEL CONNECTING STRUCTURE
(73) RVT Process Equipment GmbH
(72) Franz, Uwe
(74) dr. R.C. van Duijvenbode c.s.
(31) 102018133150
(32) 20.12.2018
(33) Germany
(47) 02.02.2022
(51) B01D 47/00
B01D 53/14
B01D 53/02
(11) EP3248669
(21) EP16739754.6
(22) 15.01.2016
(54) METHOD AND APPARATUS FOR WASTE GAS DEDUSTING
(73) Yongfeng Boyuan Industry Co. Ltd. Jiangxi Province
Beijing Boyuan-Hengsheng High-Technology Co., Ltd.
(72) HU, Chun
GAO, Daolong
WEI, Xionghui
ZOU, Meihua
(74) J.M.H. Duyver lic.
(31) 201510033694
(32) 23.01.2015
(33) China
(47) 09.03.2022
(51) B01D 53/22
B01D 53/26
B01D 53/30
B01D 63/02
(11) EP3271047
(21) EP16710160.9
(22) 16.03.2016
(54) PRESSURE DEW POINT-CONTROLLED PURGE AIR REGULATING UNIT
(73) Beko Technologies GmbH
(72) SINSTEDTEN, Johannes
SLATMAN, Johannes Franciscus
PRIOR, Thomas
SCHLENSKER, Herbert
(74) ir. J.C. Volmer c.s.
(31) 102015104154
(32) 19.03.2015
(33) Germany
(47) 12.01.2022
(51) B01D 53/52
B01D 53/75
C05C 3/00
C10L 1/04
C10G 1/00
C10G 3/00
C10G 1/06
C01C 1/247
- C01C 1/02
C10K 1/00
(11) EP2739571
(21) EP12748300.6
(22) 26.07.2012
(54) REMOVAL OF HYDROGEN SULFIDE AS AMMONIUM SULFATE FROM HYDROLYSIS PRODUCT VAPORS
(73) Gas Technology Institute
(72) ROBERTS, Michael, J.
MARKER, Terry, L.
LINCK, Martin, B.
FELIX, Larry, G.
(74) J.M.H. Duyver lic.
(31) 201113196645
(32) 02.08.2011
(33) United States of America
(47) 05.01.2022
(51) B01D 61/38
B01D 53/22
B01D 65/00
(11) EP2717996
(21) EP12797176.0
(22) 07.06.2012
(54) REPLENISHING LIQUID MATERIAL TO MEMBRANE
(73) Imtex Membranes Corp.
(72) PEREZ, Juan Carlos
HAMZA, Ali
TOWE, Ian Glenn
FENG, Xianshe
(74) dr. R.C. van Duijvenbode c.s.
(31) 201161494204 P
(32) 07.06.2011
(33) United States of America
(47) 05.01.2022
(51) B01D 67/00
C04B 41/89
C04B 41/85
C04B 35/111
C04B 111/00
B01D 71/02
B01D 69/12
B01D 69/10
B01D 63/06
C04B 38/00
(11) EP3124098
(21) EP15763806.5
(22) 10.03.2015
(54) MONOLITHIC SEPARATION MEMBRANE STRUCTURE AND METHOD FOR PRODUCING SAME
(73) NGK Insulators, Ltd.
(72) TERANISHI, Makoto
ICHIKAWA, Makiko
SUZUKI, Hideyuki
(74) dr. R.C. van Duijvenbode c.s.
(31) 2014068607
(32) 28.03.2014
(33) Japan
(47) 23.02.2022
(51) B01F 13/10
B01F 15/00
(11) EP3586951
(21) EP19182907.6
(22) 27.06.2019
- (54) DISPENSING APPARATUS AND METHOD FOR FORMING A MIXTURE OF MATERIALS AND USE
(73) Jauhetekniikka Oy
(72) Kousa, Jukka
(74) ir. A.R. Aalbers
(31) 20185583
(32) 28.06.2018
(33) Finland
(47) 12.01.2022
(51) B01J 19/00
B01F 13/10
(11) EP3142783
(21) EP15732341.1
(22) 05.05.2015
(54) MOVING SYSTEM FOR CONTAINERS BETWEEN STATIONS FOR A FLUID PRODUCTION PLANT
(73) Drocco, Luca
Drocco, Mario
(72) Drocco, Mario
Drocco, Luca
(74) J.M.H. Duyver lic.
(31) TO20140379
(32) 13.05.2014
(33) Italy
(47) 26.01.2022
(51) B01J 19/10
B01D 53/62
C11D 7/08
C11D 11/00
C23G 1/00
C23G 1/02
C23C 22/06
B08B 3/08
B08B 3/12
(11) EP2885074
(21) EP13829412.9
(22) 13.08.2013
(54) SURFACE OXIDE REMOVAL METHODS
(73) IDEV TECHNOLOGIES, INC.
(72) MORENO, Rodolfo, III
BUECHE, Kenneth M.
SAPINOSO, Milagros
FARIABI, Sepehr
(74) dr. R.C. van Duijvenbode c.s.
(31) 201261684639 P
(32) 17.08.2012
(33) United States of America
(47) 05.01.2022
(51) B01J 37/04
B01J 37/08
B01J 27/18
B01J 35/02
B01J 37/00
C07C 51/377
B01J 37/10
(11) EP3057705
(21) EP14796603.0
(22) 16.10.2014
(54) METHOD FOR MAKING BIO-BASED ACRYLIC ACID AND ITS DERIVATIVES
(73) The Procter & Gamble Company
(72) GODLEWSKI, Jane, Ellen
VELASQUEZ, Juan, Esteban
COLLIAS, Dimitris, Ioannis
LINGOES, Janette, Villalobos

- (31) 201361891568 P
(32) 16.10.2013
(33) United States of America
(47) 16.03.2022
-
- (51) B01L 3/00
(11) EP3349897
(21) EP16791676.6
(22) 15.09.2016
(54) DEVICE AND METHOD FOR FLUID SEPARATION BY DENSITY GRADIENT CENTRIFUGATION
(73) SPARK-TECH Sp. z o.o.
(72) GUMANN, Patryk
ADAMSKI, Mateusz Grzegorz
(74) ir. W.J.J.M. Kempes
(31) 41391015
(32) 15.09.2015
(33) Poland
(47) 26.01.2022
-
- (51) B01L 3/00
G01N 1/40
(11) EP3041594
(21) EP14750313.0
(22) 06.08.2014
(54) FILTER DEVICE FOR FILTERING COMPLEX FLUID SAMPLES
(73) Merck Patent GmbH
(72) FREY, Sylvain
RIVAT, Philippe
(74) ir. H.A. Witmans c.s.
(31) 13290211
(32) 05.09.2013
(33) European Patent Office (EPO)
(47) 23.02.2022
-
- (51) B07C 3/02
B65G 47/52
(11) EP3842159
(21) EP20213075.3
(22) 10.12.2020
(54) INSTALLATION FOR SORTING PARCELS WITH A BUCKET CONVEYOR WITH CLOSED LOOP
(73) Solystic
(72) PELLEGRIN, Laurent
RIEU, Jean
MOULLARD, Eric
EYRAUD, Fabrice
VOLTA, Bruno
(74) dr. W.A.H.M. Van Borm
(31) 1915525
(32) 24.12.2019
(33) France
(47) 05.01.2022
-
- (51) B23K 26/06
A61B 18/26
A61B 18/20
A61N 5/067
(11) EP2969369
(21) EP14723550.1
(22) 13.03.2014
(54) CONTROLLED PHOTOMECHANICAL AND PHOTOTHERMAL TISSUE TREATMENT IN THE PICOSECOND REGIME
(73) Cynosure, LLC
(72) WELCHES, Richard, Shaun
MIRKOV, Mirko Georgiev
(74) J.M.H. Duyver lic.
- (31) 201361909563 P
201361779411 P
(32) 27.11.2013
13.03.2013
(33) United States of America
United States of America
(47) 09.03.2022
-
- (51) B23P 6/00
B23K 1/00
B23K 1/20
B23K 20/02
B23K 20/16
B23K 35/02
B23K 35/22
B23K 35/30
C23C 2/26
C23C 2/28
C23C 4/18
F01D 5/00
B23K 35/32
C23C 4/02
B23K 101/00
B23K 103/18
(11) EP3345718
(21) EP17205952.9
(22) 07.12.2017
(54) STRUCTURE BRAZE REPAIR OF HARD-TO-WELD SUPERALLOY COMPONENTS USING DIFFUSION ALLOY INSERT
(73) General Electric Company
(72) LIN, Dechao
KOTTILINGAM, Srikanth Chandrudu
TOLLISON, Brian Lee
CUI, Yan
EMINOGLU, Cem Murat
(74) ir. W.J.J.M. Kempes
(31) 201715397840
(32) 04.01.2017
(33) United States of America
(47) 23.03.2022
-
- (51) B25B 23/10
(11) EP3219442
(21) EP16160951.6
(22) 17.03.2016
(54) DRIVE ELEMENT FOR TRANSMITTING A TORQUE TO A THREAD INSERT SLEEVE
(73) Ludwig Hettich Holding GmbH & Co. KG
(72) SCHWAB, Andreas
HETTICH, Ulrich
HETTICH, Stefan
(74) ir. J.C. Volmer c.s.
(47) 19.01.2022
-
- (51) B25G 1/04
B25G 1/06
B25G 3/24
B25G 3/26
B25G 3/06
(11) EP3515669
(21) EP17871917.5
(22) 20.11.2017
(54) ANGULARLY ADJUSTABLE TOOL CONNECTION HAVING THREADED CONNECTOR AND CLAMP-TYPE CONNECTOR
(73) Specialty Products of Greenwood, Missouri, Inc.
- (72) WENDLETON, Melodie Lea
NEWMAN, B. Deré
BARBRE, Curtis
PERRY, Marco Carroll
PROMMEL, Mark David
O'LEARY, Kevin Min
NEWMAN, Robert Caleb Sterling
(74) dr. R.C. van Duijvenbode c.s.
(31) 201662424211 P
(32) 18.11.2016
(33) United States of America
(47) 05.01.2022
-
- (51) B25H 3/00
(11) EP3827932
(21) EP20207728.5
(22) 16.11.2020
(54) HOOK ARRANGEMENT AND TOOL HOLDING SYSTEM FOR ATTACHING A PORTABLE TOOL OR A CONTAINER TO A SUPPORT ELEMENT
(73) BS Systems GmbH & Co. KG
(74) dr. R.C. van Duijvenbode c.s.
(31) 202019106517 U
(32) 22.11.2019
(33) Germany
(47) 23.02.2022
-
- (51) B25J 9/10
B25J 9/08
B25J 9/12
B25J 19/00
B25J 17/02
B25J 19/02
(11) EP3325225
(21) EP16745048.5
(22) 21.07.2016
(54) JOINT ASSEMBLY
(73) Kassow Robots ApS
(72) KASSOW, Kristian
(74) J.M.H. Duyver lic.
(31) 201570484
(32) 21.07.2015
(33) Denmark
(47) 12.01.2022
-
- (51) B25J 19/00
F16C 11/06
F16M 11/12
(11) EP3781371
(21) EP19718310.6
(22) 12.04.2019
(54) FASTENING DEVICE AND ROBOT ARM HAVING SUCH A FASTENING DEVICE
(73) KUKA Deutschland GmbH
(72) KARLINGER, Stefan
(74) dr. R.C. van Duijvenbode c.s.
(31) 102018206063
(32) 20.04.2018
(33) Germany
(47) 05.01.2022
-
- (51) B28B 5/08
B28B 13/06
(11) EP3718720
(21) EP20163712.1
(22) 17.03.2020
(54) PLATE PRODUCTION SYSTEM WITH EJECTION DEVICE
(73) SR-Schindler Maschinen - Anlagetechnik GmbH
(72) Stöcker, Robert

(74) ir. F.A. Geurts c.s.	(72) MUÑOZ DE JUAN, Ignacio	C08J 11/04
(31) 102019108313	(74) ir. W.J.J.M. Kempes	B32B 15/08
(32) 29.03.2019	(31) PCT/ES2018/070339	(11) EP3888911
(33) Germany	(32) 04.05.2018	(21) EP20190864.7
(47) 09.02.2022	(33) World Intellectual Property Office (WIPO)	(22) 13.08.2020
(51) B29B 17/00	(47) 23.03.2022	(54) METALLIZED PACKAGING FILMS
B29B 7/00	(51) B29C 64/153	MADE FROM RECYCLED PLASTICS
B29B 7/88	B29C 64/393	(73) KBG Kunststoff Beteiligungen GmbH
B29B 9/08	B22F 10/20	(72) RIEKER, Frank
B29B 9/16	B22F 10/30	(74) ir. W.J.J.M. Kempes
(11) EP3785873	B22F 12/00	(31) 102020111086
(21) EP20172612.2	B33Y 10/00	102020109370
(22) 01.05.2020	B33Y 30/00	(32) 23.04.2020
(54) RECYCLING OF POLYMER	(11) EP3782798	03.04.2020
MATERIALS	(21) EP20197515.8	(33) Germany
(73) Logoplaste Innovation LAB LDA	(22) 03.04.2013	Germany
(72) VERDE, Vitor Vila	(54) METHOD AND APPARATUS FOR	(47) 16.02.2022
(74) drs. C.M.A. Quintelier	PRODUCING THREE-DIMENSIONAL	(51) B41J 2/14
(47) 23.02.2022	WORK PIECES	B41J 25/00
(51) B29C 35/08	(73) SLM Solutions Group AG	(11) EP3369574
B29K 105/04	(72) Schwarze, Dieter	(21) EP18153277.1
B29C 44/50	Wiesner, Andreas	(22) 24.01.2018
B29C 71/04	(74) J.M.H. Duyver lic.	(54) CARRIAGE ASSEMBLY FOR A
B29C 44/56	(47) 09.03.2022	PRINTER HAVING INDEPENDENT
B29K 23/00	(51) B32B 21/06	RESERVOIRS
(11) EP3225374	B32B 21/14	(73) Ricoh Company, Ltd.
(21) EP17164043.6	B27D 1/00	(72) NISHIMURA, Hiroshi
(22) 31.03.2017	B32B 37/10	(74) ir. H.A. Witmans c.s.
(54) METHODS OF PRODUCING	B32B 37/16	(31) 201715443520
POLYOLEFIN FOAM SHEETS AND	E04C 2/10	(32) 27.02.2017
ARTICLES MADE THEREOF	E04C 2/24	(33) United States of America
(73) Toray Plastics (America), Inc.	E04F 15/10	(47) 02.03.2022
(72) Sieradzki, Pawel	B32B 37/18	(51) B42D 25/435
Geibler, Paul F.	B32B 38/06	B42D 25/455
Clark, Gary H.	(11) EP3822077	B42D 25/46
Foltz, Donald A.	(21) EP19208674.2	B42D 25/23
Baldwin, Jesse J.	(22) 12.11.2019	B42D 25/24
(74) ir. W.J.J.M. Kempes	(54) METHOD FOR PRODUCING A	B42D 25/309
(31) 201615087139	VENEERED PLATE	B42D 25/324
(32) 31.03.2016	(73) Flooring Technologies Ltd.	B42D 25/328
(33) United States of America	(72) Siems, Jens	B42D 25/351
(47) 02.03.2022	Kalwa, Dr. Norbert	B42D 25/373
(51) B29C 48/11	(74) ir. J.C. Volmer c.s.	(11) EP3538378
B29C 48/30	(47) 26.01.2022	(21) EP17787439.3
A61M 25/00	(51) B32B 27/08	(22) 24.10.2017
(11) EP3548251	B32B 27/32	(54) METHOD FOR PRODUCING A DATA
(21) EP17817146.8	B32B 38/06	CARRIER AND DATA CARRIER
(22) 27.11.2017	(11) EP3119603	PRODUCED THEREFROM
(54) EXTRUDER DEVICE FOR MULTI-	(21) EP15712055.1	(73) Thales Dis France SA
LUMEN TUBULAR PRODUCTS	(22) 19.03.2015	(72) LAPPALAINEN, Kristian
(73) Gimac di Maccagnan Giorgio	(54) PACKAGING FILM	POHJOLA, Teemu
(72) MACCAGNAN, Giorgio	(73) Loparex Germany GmbH & Co. KG	(31) 16306481
GATTI, Lorenzo	(72) SEBALD, Ingrid	(32) 10.11.2016
CAPELLETTI, Tiziano	GRIMM, FELIX	(33) European Patent Office (EPO)
(74) dr. R.C. van Duijvenbode c.s.	SCHMIDT, WERNER	(47) 19.01.2022
(31) 201600120563	(74) ir. W.J.J.M. Kempes	(51) B60D 1/62
(32) 29.11.2016	(31) 102014010986	B60D 1/52
(33) Italy	102014010691	(11) EP3592582
(47) 05.01.2022	102014004042	(21) EP17709045.3
(51) B29C 55/26	(32) 29.07.2014	(22) 06.03.2017
(11) EP3564010	21.03.2014	(54) A TOWING HOOK ARRANGEMENT
(21) EP18197920.4	21.03.2014	(73) Brink Towing Systems B.V.
(22) 01.10.2018	(33) Germany	(72) PAAIS, Raymond
(54) SYSTEM AND METHOD FOR	Germany	(74) dr. W.A.H.M. Van Borm
MANUFACTURING FITTINGS AND	Germany	(47) 12.01.2022
CONNECTIONS FOR BIAXIALLY-	(47) 19.01.2022	(51) B60J 1/20
ORIENTED TUBES	(51) B32B 27/08	B60J 11/02
(73) Molecor Tecnologia, S.L.	B32B 27/32	(11) EP3684637

(21) EP18792466.7	(31) 201815968132	(51) B64C 3/56
(22) 20.09.2018	201762501250 P	B64C 11/28
(54) PROTECTIVE SCREEN FOR GLASSES OF VEHICLES	(32) 01.05.2018	B64C 39/02
(73) Parts Solution S.r.l.	04.05.2017	(11) EP3732100
Gruppo Tosetto S.r.l.	(33) United States of America	(21) EP18919401.2
(72) TOSETTO, Innocente	United States of America	(22) 24.12.2018
PERRICONE, Lorenzo	(47) 16.03.2022	(54) WING DEPLOYMENT MECHANISM
(74) ir. W.J.J.M. Kempes	(51) B62D 1/184	(73) ROKETSAN ROKET SANAYII TICARET A.S.
(31) 201700104871	(11) EP3328711	(72) UZUN, Can
(32) 20.09.2017	(21) EP16751696.2	(74) dr. R.C. van Duijvenbode c.s.
(33) Italy	(22) 26.07.2016	(31) 201722260
(47) 12.01.2022	(54) HYDRAULIC POWER STEERING SYSTEM WITH VARIABLE DISPLACEMENT HYDRAULIC DISTRIBUTOR FOR MODULAR TRAILERS	(32) 27.12.2017
(51) B60K 15/077	(73) Tirsan Treyler Sanayi Ve Ticaret Anonim Sirketi	(33) Turkey
B60K 15/03	(72) HASCELİK, Safak	(47) 19.01.2022
B29C 41/04	OGUZ, Oguzhan	(51) B65B 9/04
B29C 41/40	(74) ir. W.J.J.M. Kempes	B65B 7/28
B29C 41/46	(31) 201509265	B65B 7/16
(11) EP3717295	(32) 27.07.2015	B65B 31/02
(21) EP18880847.1	(33) Turkey	B29C 65/00
(22) 08.10.2018	(47) 09.02.2022	(11) EP3608235
(54) ONE-PIECE COMBINED PLASTIC UREA AND FUEL TANK WITH BAFFLES, ROTOMOULDED WITH A SPECIAL MOLD HEATING SYSTEM	(51) B62M 9/131	(21) EP19188787.6
(73) Floteks Plastik Sanayi Ve Ticaret Anonim Sirketi	F16H 55/30	(22) 29.07.2019
(72) BEYSEL, Veysel Celal	(11) EP3621870	(54) SEAL TOOL FOR A PACKAGING MACHINE
(74) ir. W.J.J.M. Kempes	(21) EP17726851.3	(73) MULTIVAC Sepp Haggenmüller SE & Co. KG
(31) 201718907	(22) 12.05.2017	(72) SCHRADE, Peter
(32) 27.11.2017	(54) NARROW - WIDE TEETH CHAINRING	MADER, Andreas
(33) Turkey	(73) Miranda & Irmão Lda.	ICKERT, Lars
(47) 23.03.2022	(72) TAVARES MIRANDA, João Filipe	(74) dr. R.C. van Duijvenbode c.s.
(51) B60Q 1/26	(74) ir. C.G.C. Veldman-Dijkers	(31) 102018213431
(11) EP3626535	(47) 19.01.2022	(32) 09.08.2018
(21) EP18195729.1	(51) B63B 35/44	(33) Germany
(22) 20.09.2018	B63J 3/04	(47) 02.02.2022
(54) MARKER LIGHT OR WARNING LIGHT FOR A VEHICLE AND ASSEMBLY OF SUCH A LIGHT ON A VEHICLE	E21B 1/00	(51) B65B 25/08
(73) Ambulanz Mobile GmbH & Co. KG	C25B 1/04	(11) EP2928779
(72) Schwarz, Hans-Jürgen	(11) EP3831981	(21) EP13802725.5
(74) ir. C.G.C. Veldman-Dijkers	(21) EP19213940.0	(22) 28.11.2013
(47) 30.03.2022	(22) 05.12.2019	(54) APPARATUS FOR PLACING ARTICLES ON LEAVES
(51) B60R 15/00	(54) OFFSHORE PRODUCTION FACILITY ARRANGEMENT	(73) Slegers, Hubertus, Theodorus, Wilhelmus
E03D 9/10	(73) Single Buoy Moorings Inc.	(72) Slegers, Hubertus, Theodorus, Wilhelmus
B60R 15/04	(72) Leo, Jos	(74) ir. A. Ferguson
B61D 35/00	van den Boomgaard, Jan	(31) 1039918
B63B 29/14	Eijk, Peter	201261733937 P
(11) EP3406490	(74) dr. R.C. van Duijvenbode c.s.	(32) 28.11.2012
(21) EP18170900.7	(47) 02.03.2022	06.12.2012
(22) 04.05.2018	(51) B63H 9/06	(33) Netherlands
(54) WASTEWATER MANAGEMENT SYSTEM FOR VEHICLES AND RELATED METHOD	D03D 11/02	United States of America
(73) Thetford BV	B63H 9/04	(47) 19.01.2022
(72) van RIEL, Didier	D03D 13/00	(51) B65D 5/10
van den HEIJKANT, Ruud	D03D 1/00	B65D 5/20
van de SANDE, Mitchell	D03D 25/00	B65D 5/36
SLEZAK, Tijs	(11) EP3512990	B65D 5/24
van der HOEVEN, Ronald	(21) EP17850369.4	(11) EP3386876
WESSELS, Wilco	(22) 06.09.2017	(21) EP16873810.2
KIEBOOM, Tom	(54) IMPROVED WOVEN SAILCLOTH	(22) 08.12.2016
van LEEUWEN, Joop	(73) Conzeptor Aps	(54) CARTON WITH RECLOSABLE LOCK
MULDERS, Mark	(72) APPLEYARD, Colin	(73) Graphic Packaging International, LLC
van DUIJN, Dineke	(74) dr. A. Krebs	(72) FAULKNER, William
van BEEK, Jacco	(31) 16188619	BATES, Aaron, Lee
(74) dr. A. Krebs	(32) 13.09.2016	(74) ir. F.A. Geurts c.s.
	(33) European Patent Office (EPO)	(31) 201562264530 P
	(47) 26.01.2022	(32) 08.12.2015
		(33) United States of America

(47) 02.02.2022	HONEYCUTT, JR., James R.	C02F 1/00
(51) B65D 21/02	PERTUIT, JR., Wayne A.	C02F 1/78
B65D 81/38	ST. PIERRE, Paul E.	(11) EP3166889
B65D 43/16	TRAPANI, Brian A.	(21) EP15763488.2
(11) EP3578476	DEGROOT, Michael Hendrik	(22) 09.07.2015
(21) EP18210765.6	(74) ir. H.Th. van den Heuvel c.s.	(54) HYDRODYNAMICALLY-ENHANCED
(22) 06.12.2018	(31) 201261718941 P	UV PHOTO-OXIDATION OF
(54) CUPS AND CONTAINERS WITH A	(32) 26.10.2012	CONTAMINATED LIQUIDS
LIVING HINGE	(33) United States of America	(73) Ton Van Remmen Beheer B.V.
(73) Clarity, Inc.	(47) 12.01.2022	(72) GROOT KORMELINCK, Kaspar
(72) TOBIAS, Glenn	(51) B66C 23/88	VAN REMMEN, Antonius Maria
(74) J.M.H. Duyver lic.	B66C 23/94	(74) ir. A.R. Aalbers
(31) 201816001785	B66C 13/40	(31) 2013157
(32) 06.06.2018	B66C 23/80	(32) 09.07.2014
(33) United States of America	(11) EP3473583	(33) Netherlands
(47) 02.02.2022	(21) EP16905538.1	(47) 05.01.2022
(51) B65D 41/34	(22) 16.12.2016	(51) C02F 1/461
B65D 55/16	(54) MOBILE CRANE	C02F 1/467
B65D 41/32	(73) Maeda Seisakusho Co. Ltd.	(11) EP3808709
B65D 81/26	(72) WADA Mitsuki	(21) EP19203047.6
(11) EP3584189	TOKUTOME Shinya	(22) 14.10.2019
(21) EP19179634.1	TOMURA Tatsufumi	(54) WATER DISINFECTION BY
(22) 12.06.2019	ICHIMURA Eiji	ELECTROLYSIS
(54) TETHERED BRIDGE CLOSURE	NAKAMURA Ryosuke	(73) Aguabel bv
(73) Closure Systems International Inc.	(74) dr. R.C. van Duijvenbode c.s.	(72) DESTOOP, Edouard
(72) LUTTON, Leland T.	(31) PCT/JP2016/068043	DECLERCQ, Johan
EDIE, John	(32) 17.06.2016	(74) M.A.T. Beck MSc LL.B
(74) dr. R.C. van Duijvenbode c.s.	(33) World Intellectual Property Office (WIPO)	(47) 09.02.2022
(31) 201862683905 P	(47) 02.02.2022	(51) C02F 1/52
(32) 12.06.2018	(51) B67D 1/00	C02F 1/72
(33) United States of America	B67D 1/04	C02F 11/10
(47) 26.01.2022	B67D 3/00	C02F 101/10
(51) B65G 1/04	B67D 7/02	C02F 103/36
(11) EP3478604	B67D 1/08	(11) EP2768778
(21) EP17751835.4	(11) EP3378829	(21) EP13710394.1
(22) 28.06.2017	(21) EP18160677.3	(22) 15.03.2013
(54) STORAGE PLANT OF ARTICLES WITH	(22) 08.03.2018	(54) METHOD FOR TREATING
HIGH LONGITUDINAL DEVELOPMENT	(54) TANK WITH VENTILATION	PRODUCTION EFFLUENTS OF AN
(73) Automha S.p.A.	(73) agrotop GmbH	AROMATIC COMPOUND DERIVED
(72) DANNE, Walter	(72) GRAEF, Steffen	FROM DIHYDROXYBENZENE
(74) J.M.H. Duyver lic.	(74) ir. H.Th. van den Heuvel c.s.	(73) RHODIA OPERATIONS
(31) UA20164760	(31) 202017101477 U	(72) SATIER, Bertrand
(32) 29.06.2016	(32) 14.03.2017	GAREL, Laurent
(33) Italy	(33) Germany	(74) ir. W.J.J.M. Kempes
(47) 02.03.2022	(47) 12.01.2022	(31) 1252415
(51) B65G 1/04	(51) C02F 1/24	(32) 16.03.2012
(11) EP3681824	(11) EP3283441	(33) France
(21) EP19725846.0	(21) EP16735725.0	(47) 26.01.2022
(22) 15.05.2019	(22) 15.04.2016	(51) C02F 1/56
(54) AUTOMATED STORAGE SYSTEM	(54) METHOD AND SYSTEM FOR	B01J 20/24
HAVING GUIDED TRANSFER MEANS	ANAEROBIC TREATMENT	C02F 101/30
(73) Knapp AG	OF ORGANICALLY LOADED	C02F 103/26
(72) WEND, Michael	WASTEWATER	B01J 20/26
(74) ir. H.A. Witmans c.s.	(73) Nijhuis Water Technology B.V.	(11) EP2760797
(31) 504062018	(72) HOLTERMAN, Menno-Martijn	(21) EP12775387.9
(32) 15.05.2018	MENKVELD, Hendrik Willem Herman	(22) 28.09.2012
(33) Austria	RUITENBERG, Antonie	(54) METHOD FOR FLOCCULATING ALGAE
(47) 26.01.2022	KLUIT, Arie	USING POLYMERS INCLUDING
(51) B65G 23/26	(74) dr. R.C. van Duijvenbode c.s.	TANNIN
B65G 23/44	(31) PCT/NL2015/050261	(73) BL Technologies, Inc.
(11) EP2911959	(32) 17.04.2015	(72) WALTERICK, Gerald, Cecil, Jr.
(21) EP13786129.0	(33) World Intellectual Property Office (WIPO)	WHITT, David
(22) 24.10.2013	(47) 02.03.2022	JUCHCINSKI, John
(54) POSITIVELY-DRIVEN, LOW TENSION	(51) C02F 1/32	(74) ir. H.A. Witmans c.s.
TRANSFER CONVEYOR	C02F 1/72	(31) 201161540278 P
(73) Laitram, L.L.C.	B01F 5/00	(32) 28.09.2011
(72) HENDRICKSON, Daniel Robert	B01F 5/02	(33) United States of America
	B01F 3/08	(47) 26.01.2022

(51) C03B 7/10	(21) EP12779889.0	S-, P-, D- METALS, METHOD OF SEPARATION, AND USE THEREOF
(11) EP3009409	(22) 04.05.2012	
(21) EP15002685.4	(54) PRENYLATED HYDROXYSTILBENES	(73) Ustav Organické Chemie a Biochemie AV CR, v.v.i.
(22) 16.09.2015	(73) Kynan Duke IP, LLC	
(54) METHOD OF USING DROPLET SHEARS FOR A FEEDER DEVICE OF A GLASS MACHINE	(72) DUKE, Colin Charles DUKE, Rujee Kyokajee TRAN, Van Hoan	(72) POLASEK, Miloslav (74) ir. A. Blokland c.s. (31) 17204972 (32) 01.12.2017 (33) European Patent Office (EPO) (47) 05.01.2022
(73) Rolf Themann & Partner SA	(74) dr. R.C. van Duijvenbode c.s.	(51) C07D 401/12
(72) Rodriguez, Antonio Martin Ruskowski, Klaus Rosenstein, Stephan Broll, Andre	(31) 2011901663 (32) 04.05.2011 (33) Australia (47) 12.01.2022	A61K 31/506 A61P 35/00
(74) dr. R.C. van Duijvenbode c.s.	(51) C07D 237/14	(11) EP3371165
(31) 102014015329	(11) EP3323810	(21) EP16804956.7
(32) 17.10.2014	(21) EP17189439.7	(22) 04.11.2016
(33) Germany	(22) 08.02.2011	(54) A BTK INHIBITOR FOR USE IN TREATING CANCER
(47) 05.01.2022	(54) AUTOMATED REACTION SYSTEM, CASSETTE AND APPARATUS FOR SYNTHESIZING IMAGING AGENTS	(73) Merck Patent GmbH (72) HUCK, Bayard R. GOODSTAL, Samantha M. GIMMI-MCKIM, Claude (74) ir. H.A. Witmans c.s. (31) 201662341189 P 201662296143 P 201562250575 P (32) 25.05.2016 17.02.2016 04.11.2015 (33) United States of America United States of America United States of America (47) 26.01.2022
(51) C04B 28/02 C04B 40/00	(73) Lantheus Medical Imaging, Inc. (72) SIEGLER, Robert Wilburn ZDANKIEWICZ, Dianne D. MONGEAU, Enrico CHEESMAN, Edward H. LAZEWATSKY, Joel CESATI, Richard R. RADEKE, Heike S. CASTNER, James F. DEVINE, Marybeth	(32) 25.05.2016 17.02.2016 04.11.2015 (33) United States of America United States of America United States of America (47) 26.01.2022
(11) EP3517515	(74) dr. R.C. van Duijvenbode c.s.	(51) C07D 403/04
(21) EP18212792.8	(31) 333693 P 315376 P 302477 P	C07D 405/04 C07D 401/04
(22) 14.12.2018	(32) 11.05.2010 18.03.2010 08.02.2010	(11) EP3394046 (21) EP16880159.5 (22) 23.12.2016
(54) FIBER BUNDLE FOR REINFORCEMENT OF A CEMENTITIOUS MATRIX, ITS USES AND METHOD OF OBTENTION	(33) United States of America United States of America United States of America (47) 05.01.2022	(54) CFTR REGULATORS AND METHODS OF USE THEREOF
(73) Omnicor - Manufacturas Internacionais de Cordoarias, Lda	(51) C07D 307/50	(73) THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
(72) JOÃO MIGUEL, GEITOEIRA E SÁ	(11) EP3746428	(72) KURTH, Mark, J. LEVIN, Marc, H. CIL, Onur VERKMAN, Alan (74) dr. A. Krebs (31) 201662376808 P 201562387579 P (32) 18.08.2016 24.12.2015 (33) United States of America United States of America (47) 09.03.2022
(74) ir. H.Th. van den Heuvel c.s.	(21) EP19707703.5	(51) C07D 405/04
(31) 2017110456	(22) 31.01.2019	C07D 495/04
(32) 15.12.2017	(54) PROCESS FOR THE CONVERSION OF A SOLID LIGNOCELLULOSIC MATERIAL	C07D 519/00
(33) Portugal	(73) Furanix Technologies B.V	A61K 31/4355
(47) 12.01.2022	(72) VAN PUTTEN, Robert-Jan VAN DER WAAL, Jan Cornelis MCKAY, Benjamin GRUTER, Gerardus Johannes Maria	A61K 31/4365 A61K 31/437 A61P 11/00
(51) C07C 29/34 C07C 31/125 B01D 3/00 B01D 3/14	(74) ir. J.C. Volmer c.s. (31) 2020354 (32) 31.01.2018 (33) Netherlands (47) 09.03.2022	(11) EP3693367 (21) EP20166438.0 (22) 22.07.2015
(11) EP3218339	(51) C07D 401/06	(54) THIENO [3,2-D]PYRIMIDINES USEFUL FOR TREATING RESPIRATORY SYNCYTIAL VIRUS INFECTIONS
(21) EP15816509.2	C07D 403/06	
(22) 13.11.2015	C07D 405/06	
(54) PROCESS FOR THE PREPARATION OF HIGHER ALCOHOLS FROM ETHANOL AND N-HEXANOL BY GUERBET CONDENSATION	C07D 257/02 B01D 15/08	
(73) Abengoa Bioenergía Nuevas Tecnologías, S. A.	(11) EP3717466	
(72) SANZ YAGUE, Juan Luis PEÑA GÓMEZ, Yolanda REYES VALLE, Carmen María SÁNCHEZ SÁNCHEZ, Ana Rosa SÁNCHEZ HOLGADO, Laura LADRÓN DE GUEVARA VIDAL, Francisco Antonio	(21) EP18815143.5 (22) 30.11.2018 (54) COMPOUNDS FOR SEPARATION OF RARE EARTH ELEMENTS AND	
(74) ir. W.J.J.M. Kempes		
(31) 201431669 201431667		
(32) 14.11.2014 14.11.2014		
(33) Spain Spain		
(47) 05.01.2022		
(51) C07C 39/205 C07C 39/215 A61P 31/00 A61P 35/02 A61K 31/03		
(11) EP2709975		

(73) Gilead Sciences, Inc.	C07H 19/20	(54) METHOD OF CLEANING AND/OR
(72) MACKMAN, Richard, L.	A61K 31/7064	SANITIZING A SEPARATION MATRIX
CLARKE, Michael O'neil, Hanrahan	A61K 31/7076	(73) Cytiva BioProcess R&D AB
SIEGEL, Dustin	A61P 35/00	(72) RODRIGO, Gustav, José
(74) dr. R.C. van Duijvenbode c.s.	(11) EP3720864	FORSS, Annika
(31) 201462029896 P	(21) EP18819340.3	ANDER, Mats
(32) 28.07.2014	(22) 05.12.2018	BJORKMAN, Tomas
(33) United States of America	(54) SALTS OF DIPHOSPHATE	HANSSON, Jesper, Ulf
(47) 16.02.2022	PHOSPHORAMIDATE OF	(74) dr. R.C. van Duijvenbode c.s.
(51) C07D 471/08	NUCLEOSIDES AS ANTICANCER	(31) 201608232
C07D 211/60	COMPOUNDS	201608229
(11) EP3543236	(73) Nucana PLC	201615348699
(21) EP18867299.2	(72) SERPI, Michaela	201615282367
(22) 06.03.2018	PERTUSATI, Fabrizio	(32) 11.05.2016
(54) METHOD FOR PREPARING	SLUSARCZYK, Magdalena	11.05.2016
AVIBACTAM INTERMEDIATE	GRIFFITH, Hugh	10.11.2016
(73) Xinfra Pharmaceutical Co., Ltd	(74) dr. A. Krebs	30.09.2016
(72) QU, Hu	(31) 201720279	(33) United Kingdom
WANG, Baolin	(32) 05.12.2017	United Kingdom
LI, Xinfra	(33) United Kingdom	United States of America
JU, Lizhu	(47) 05.01.2022	United States of America
QI, Yuxin	(51) C07H 21/00	(47) 23.02.2022
XU, Xin	C07H 21/02	(51) C07K 14/535
(31) 201710968060	A61P 35/00	C07C 247/00
(32) 18.10.2017	(11) EP3752516	C07K 14/00
(33) China	(21) EP19707595.5	(11) EP3584255
(47) 16.02.2022	(22) 13.02.2019	(21) EP19168498.4
(51) C07D 473/06	(54) CYCLIC DINUCLEOTIDES AS	(22) 30.08.2013
A61K 31/522	ANTICANCER AGENTS	(54) MODIFIED AMINO ACIDS
A61P 3/10	(73) Bristol-Myers Squibb Company	COMPRISING AN AZIDO GROUP
(11) EP3305787	(72) DODD, Dharmpal S.	(73) Sutro Biopharma, Inc.
(21) EP16802482.6	CHEN, Libing	(72) STAFFORD, Ryan
(22) 26.05.2016	KAMAU, Muthoni G.	YANG, Wenjin
(54) XANTHINE DERIVATIVE	PARK, Peter Kinam	THANOS, Christopher D.
(73) Jiangsu Tasly Diyi Pharmaceutical Co.,	ZHAO, Yufen	(74) ir. H.A. Witmans c.s.
Ltd.	FINK, Brian E.	(31) 201261696087 P
(72) GAO, Yuzhe	HARIKRISHNAN, Lalgudi S.	(32) 31.08.2012
WANG, Guocheng	QIN, Lan-Ying	(33) United States of America
(74) dr. R.C. van Duijvenbode c.s.	WALKER, Steven J.	(47) 16.02.2022
(31) 201510290336	RUAN, Zheming	(51) C07K 16/22
(32) 29.05.2015	(74) ir. H.A. Witmans c.s.	A61K 39/00
(33) China	(31) 201916272172	G01N 33/566
(47) 16.02.2022	201862629956 P	A61P 19/02
(51) C07F 5/04	(32) 11.02.2019	A61P 25/04
A61K 31/69	13.02.2018	A61P 29/00
A61P 31/06	(33) United States of America	A61P 35/00
(11) EP3030519	United States of America	A61P 43/00
(21) EP14834292.6	(47) 23.02.2022	(11) EP3333188
(22) 08.08.2014	(51) C07H 21/02	(21) EP18153957.8
(54) TRICYCLIC BENZOXABOROLE	(11) EP3362461	(22) 19.08.2011
COMPOUNDS AND USES THEREOF	(21) EP16788883.3	(54) ANTI-NGF ANTIBODIES AND THEIR
(73) GlaxoSmithKline Intellectual Property	(22) 17.10.2016	USE
(No. 2) Limited	(54) MRNA CAP ANALOGS WITH MODIFIED	(73) Zoetis Belgium S.A.
Anacor Pharmaceuticals, Inc.	PHOSPHATE LINKAGE	(72) BARBON, Jeffrey A.
(72) BARROS-AGUIRRE, David	(73) Modernatx, Inc.	LANG, Diane M.
HERNANDEZ, Vincent S.	(72) STANTON, Matthew	CHHAYA, Meha
GIORDANO, Ilaria	STEELE, Thomas	LACEY, Susan E.
ALLEY, M.R.K. (Dickon)	BUTORA, Gabor	HUTCHINS, Charles W.
LI, Xianfeng	(74) ir. W.J.J.M. Kempes	LEDDY, Mary
PLATTNER, Jacob J.	(31) 201562242845 P	FUNG, Emma
(31) 201361918976 P	(32) 16.10.2015	CHARI, Ravi
201361864496 P	(33) United States of America	BARLOW, Eve H.
(32) 20.12.2013	(47) 16.03.2022	(74) dr. R.C. van Duijvenbode c.s.
09.08.2013	(51) C07K 14/31	(31) 375193 P
(33) United States of America	(11) EP3455241	(32) 19.08.2010
United States of America	(21) EP17727806.6	(33) United States of America
(47) 05.01.2022	(22) 10.05.2017	(47) 09.02.2022
(51) C07H 19/10		(51) C07K 16/28

A61K 39/00	(74) ir. W.J.J.M. Kempes	(51) C08L 23/08
(11) EP3356413	(47) 02.03.2022	C08K 5/21
(21) EP16778648.2	(51) C08K 3/22	(11) EP3555189
(22) 29.09.2016	C08L 9/04	(21) EP17847753.5
(54) ANTI-TIGIT ANTIGEN-BINDING	C08J 5/02	(22) 15.12.2017
PROTEINS AND METHODS OF USE	A61B 42/10	(54) REPAIRABLE POLYMER
THEREOF	(11) EP3408326	COMPOSITIONS
(73) Potenza Therapeutics, Inc.	(21) EP16886828.9	(73) Kinectrics UK Limited
(72) WINSTON, William	(22) 29.04.2016	(72) COLQUHOUN, Howard
SEIDEL-DUGAN, Cynthia	(54) ELASTOMERIC ARTICLES,	HAYES, Wayne
HICKLIN, Daniel	COMPOSITIONS, AND METHODS FOR	HASAN, Erol
NIELSON, Nels P.	THEIR PRODUCTION	BAKER, Benjamin
(74) dr. A. Krebs	(73) Skinprotect Corporation SDN BHD	(74) dr. A. Krebs
(31) 201562235990 P	(72) FOO, Khon Pu	(31) 201621400
(32) 01.10.2015	PRABHAKARAN, Kumaresan	(32) 15.12.2016
(33) United States of America	(74) dr. W.A.H.M. Van Borm	(33) United Kingdom
(47) 05.01.2022	(31) 2016900327	(47) 16.03.2022
(51) C08F 210/16	2016900326	(51) C08L 23/20
(11) EP3347386	(32) 29.01.2016	C09J 123/20
(21) EP16771030.0	29.01.2016	C08F 2/00
(22) 01.09.2016	(33) Australia	C08F 4/659
(54) METHODS FOR CONTROLLING DIE	Australia	(11) EP3266824
SWELL IN DUAL CATALYST OLEFIN	(47) 05.01.2022	(21) EP16178432.7
POLYMERIZATION SYSTEMS	(51) C08K 3/34	(22) 07.07.2016
(73) Chevron Phillips Chemical Company LP	C08K 3/04	(54) BUTENE-1 POLYMER COMPOSITION
(72) GRECO, Jeffrey F	B60C 1/00	HAVING A HIGH MELT FLOW RATE
ASKEW, Jim B	C01B 33/22	(73) Basell Poliolefine Italia S.r.l.
ROHATGHI, Vivek	(11) EP3440131	(72) BURGİN, Emanuele
HLAVINKA, Mark L	(21) EP17716170.0	MARCHINI, Roberta
YANG, Qing	(22) 05.04.2017	PICA, Roberta
(74) drs. C.M.A. Quintelier	(54) BARRIER COMPOSITION	SPATARO, STEFANO
(31) 201514848405	COMPRISING A TALC PARTICULATE	(74) dr. R.C. van Duijvenbode c.s.
(32) 09.09.2015	(73) IMERTECH SAS	(47) 09.03.2022
(33) United States of America	(72) MÉLI, Gilles	(51) C09D 5/00
(47) 16.02.2022	CREPIN-LEBLOND, Jérôme	(11) EP3640304
(51) C08F 220/06	(74) ir. C.G.C. Veldman-Dijkers	(21) EP18201317.7
C08F 226/00	(31) 16305402	(22) 18.10.2018
C08F 230/02	(32) 06.04.2016	(54) PRIMER FOR PAINTS AND PLASTERS
C09D 133/02	(33) European Patent Office (EPO)	(73) DAW SE
(11) EP3645589	(47) 23.03.2022	(72) Klaas, Angela
(21) EP18743884.1	(51) C08K 5/098	Heidrich, Holger
(22) 20.06.2018	C09D 167/08	(74) dr. ir. G.J.C. Verdijck c.s.
(54) STORAGE STABLE QUICKSETTING	(11) EP3296353	(47) 26.01.2022
COATING SYSTEM THAT IS FREE OF	(21) EP16189511.5	(51) C09D 179/02
VOLATILE-BASE	(22) 19.09.2016	B05D 1/00
(73) Rohm and Haas Company	(54) SOLVENT-CONTAINING COATING	(11) EP3699247
(72) CONNER, David M.	COMPOSITION FOR PAINT COATINGS	(21) EP19158457.2
FABER, Katherine A.	(73) DAW SE	(22) 21.02.2019
WESTMEYER, Mark D.	(72) Daniel Andre	(54) WATER-BASED EXTRUSION PRIMER
WILLIAMS, Drew E.	Menzel Stefan	FOR POLYETHYLENE
(74) ir. J.D. de Zeeuw	Herrmann Beatrix	(73) Henkel AG & Co. KGaA
(31) 201762525851 P	(74) dr. ir. G.J.C. Verdijck c.s.	(72) BLODAU, Marcel
(32) 28.06.2017	(47) 26.01.2022	KINZELMANN, Hans-Georg
(33) United States of America	(51) C08K 5/549	(74) dr. R.C. van Duijvenbode c.s.
(47) 19.01.2022	C08K 5/5419	(47) 09.02.2022
(51) C08G 64/14	C08L 83/04	(51) C09J 7/29
C08G 64/24	(11) EP3613803	G09F 3/10
(11) EP3719052	(21) EP18189821.4	G09F 3/02
(21) EP19166946.4	(22) 20.08.2018	(11) EP2970628
(22) 03.04.2019	(54) COMPOSITION FOR SILICONE	(21) EP14716672.2
(54) METHOD FOR THE PREPARATION OF	RUBBER MASSES	(22) 10.03.2014
POLYCARBONATE WITH REDUCED	(73) Nitrochemie Aschau GmbH	(54) PRESSURE-WASH RESISTANT LABEL
PHOSGEN EXCESS	(72) Langerbeins, Klaus	(73) Brady Worldwide, Inc.
(73) Covestro Deutschland AG	Pichl, Ulrich	(72) HIGGINS, Jeremy M.
(72) HEIJL, Jan	Krupp, Alexis	SAVAGIAN, Michael, D.
COCK, Felix	(74) ir. F.A. Geurts c.s.	DAVIS, Alec, J.
MICHELE, Volker, Dr.	(47) 23.02.2022	(74) dr. R.C. van Duijvenbode c.s.
BACHMANN, Rolf		(31) 201313798954

- (32) 13.03.2013
(33) United States of America
(47) 26.01.2022
-
- (51) C10B 53/07
C25B 1/00
C08G 18/00
C07C 263/00
C07C 263/10
(11) EP3744812
(21) EP19176668.2
(22) 27.05.2019
(54) METHOD FOR THE RECYCLING OF POLYURETHANE MATERIAL WASTE FOR THE PRODUCTION OF CHEMICAL RAW MATERIALS FOR THE PRODUCTION OF ISOCYANATES AND POLYURETHANES
(73) Covestro Deutschland AG
(72) WEBER, Rainer Dr.
BULAN, Andreas
(74) ir. W.J.J.M. Kempes
(47) 12.01.2022
-
- (51) C10G 3/00
C10G 65/12
C10G 45/02
C10G 45/08
C10G 45/10
C10G 45/06
C10G 45/00
C10G 45/32
C07C 1/22
(11) EP3546547
(21) EP19171663.8
(22) 04.12.2013
(54) SYSTEM AND PROCESS FOR CONVERSION OF TRIACYLGLYCERIDES-CONTAINING OILS TO HYDROCARBONS
(73) Chevron Lummus Global, LLC
Applied Research Associates, Inc.
(72) NANA, Sanjay
ARORA, Arun
RED, Charles, Jr.
COPPOLA, Edward
MUKHERJEE, Ujjal, K.
BAXLEY, J. Steven
RINE, Jeffrey
GREENE, Marvin, I.
(74) dr. ir. G.J.C. Verdijck c.s.
(31) 201213711111
(32) 11.12.2012
(33) United States of America
(47) 05.01.2022
-
- (51) C10L 1/06
C07C 69/24
C07C 69/52
C11C 3/00
B01D 11/04
(11) EP3305877
(21) EP17194813.6
(22) 04.10.2017
(54) PROCESS FOR PURIFYING BIODIESEL
(73) Petróleo Brasileiro S.A. Petrobras
(72) ANTONIO VIDAL VIEIRA, Jose
RICARDO RANGEL, Roberto
LUDWIG QUINTANI, Carolina
LOUREIRO XIMENES, Vitor
- DE FIGUEIREDO PORTILHO, Marcio
(74) ir. W.J.J.M. Kempes
(31) 102016023104
(32) 04.10.2016
(33) Brazil
(47) 05.01.2022
-
- (51) C10M 145/14
C10M 169/04
C10N 30/06
C10N 30/12
C10N 40/25
C10N 40/26
C10N 30/08
C10N 30/00
C10N 50/04
(11) EP3680313
(21) EP20159729.1
(22) 17.06.2016
(54) LUBRICANT POLYMERS
(73) Total Marketing Services
(72) LANÇON, Denis
(74) ir. W.J.J.M. Kempes
(47) 23.03.2022
-
- (51) C12M 1/00
C12M 1/34
(11) EP3527653
(21) EP18157634.9
(22) 20.02.2018
(54) EXPOSURE INSTALLATION AND METHOD FOR THE CONTINUOUS GASSING OF AT LEAST ONE CELL CULTURE
(73) Medizinische Universität Innsbruck
Steinlechner, Reinhold
Fritz Egger GmbH & Co. OG
(72) Zeisler, Johannes
Steinlechner, Reinhold
Gostner, Johanna
(74) ir. A. Blokland c.s.
(47) 19.01.2022
-
- (51) C12M 1/00
C12M 1/34
G02B 21/26
G02B 21/34
G02B 21/36
C12M 1/12
C12M 1/36
(11) EP3730598
(21) EP18902209.8
(22) 11.12.2018
(54) APPARATUS FOR TREATING BIOLOGICAL MATERIAL
(73) YAMAHA HATSUDOKI KABUSHIKI KAISHA
(72) KUMAGAI, Takahiko
AKITA, Kumi
ITO, Saburo
(74) dr. R.C. van Duijvenbode c.s.
(31) 2018012340
(32) 29.01.2018
(33) Japan
(47) 02.02.2022
-
- (51) C12M 1/107
(11) EP2554652
(21) EP12176950.9
(22) 18.07.2012
- (54) Anaerobic bioreactor and method for anaerobic conversion of lipid rich biomass to biogas
(73) Spark Origin B.V.
(72) Blankenburg, Stephanus Gerardus Johannes
(74) dr. ir. G.J.C. Verdijck c.s.
(31) 2007207
(32) 01.08.2011
(33) Netherlands
(47) 05.01.2022
-
- (51) C12M 1/42
G01F 1/56
(11) EP3750983
(21) EP19179949.3
(22) 13.06.2019
(54) METHOD AND DEVICE FOR CONTROLLING THE FILLING LEVEL IN A CHAMBER
(73) Lonza Cologne GmbH
(72) Hermsmeier, Sven
Gleissner, Timo
(74) ir. W.J.J.M. Kempes
(47) 23.02.2022
-
- (51) C12N 1/14
C05F 11/08
C12R 1/80
A01N 63/36
(11) EP3611251
(21) EP19195633.3
(22) 15.11.2013
(54) MICROBIAL STRAINS, COMPOSITIONS, AND METHODS FOR INCREASING AVAILABLE PHOSPHATE FOR PLANTS
(73) Novozymes BioAG A/S
(72) CALDWELL, Caressa
STECKLER, Shelagh
GREENSHIELDS, David
PRIEST, Kari
FRODYMA, Michael
(74) dr. R.C. van Duijvenbode c.s.
(31) 201261727300 P
(32) 16.11.2012
(33) United States of America
(47) 05.01.2022
-
- (51) C12N 5/00
C07K 16/18
C07K 16/22
C12N 5/10
C12N 15/00
C12N 15/09
C40B 40/02
(11) EP3138903
(21) EP15786546.0
(22) 01.05.2015
(54) CELLS FOR PRODUCING HUMAN ANTIBODY
(73) Chiome Bioscience Inc.
(72) KAWATA, Shigehisa
YABUKI, Takashi
UCHIKI, Tomoaki
TAKAHASHI, Naoki
ASAGOSHI, Kenjiro
HASHIMOTO, Shuichi
SAWADA, Atsushi
SANO, Hitomi
TAKESUE, Aki

MIYAI, Shunsuke	C12Q 1/02	(47) 09.03.2022
(74) dr. R.C. van Duijvenbode c.s.	C12Q 1/68	(51) C12Q 1/6886
(31) 2014095236	C40B 30/00	(11) EP3545109
(32) 02.05.2014	C40B 30/04	(21) EP17825751.5
(33) Japan	C40B 40/06	(22) 27.11.2017
(47) 09.02.2022	C40B 40/08	(54) IN VITRO METHOD FOR IDENTIFYING
(51) C12N 5/0783	C40B 50/00	COLORECTAL ADENOMAS OR
C12N 5/10	C40B 50/14	COLORECTAL CANCER
A61K 35/17	G01N 33/50	(73) Advanced Marker Discovery, S.L.
A61K 31/495	G01N 33/53	(Amadix)
A61P 35/00	C07K 14/705	(72) PÉREZ PALACIOS, Rosa
A61K 39/00	C07K 14/47	CASTELLS GARANGOU, Antoni
C07K 14/705	G01N 33/68	GIRONELLA COS, Meritxell
(11) EP3344760	C12N 9/20	HERREROS VILLANUEVA, Marta
(21) EP16843195.5	(11) EP2766483	MARTÍN RODRÍGUEZ, Ana María
(22) 06.09.2016	(21) EP12839712.2	Carmen
(54) GENETICALLY-ENGINEERED DRUG	(22) 10.10.2012	ARROYO ARRANZ, Rocío
RESISTANT T CELLS AND METHODS	(54) METHODS AND COMPOSITIONS	MARTÍNEZ GONZÁLEZ, Miguel Angel
OF USING THE SAME	FOR SCREENING AND TREATING	(74) dr. W.A.H.M. Van Borm
(73) Emory University	DEVELOPMENTAL DISORDERS	(31) 16382567
Children's Healthcare Of Atlanta, Inc.	(73) The Hospital For Sick Children	(32) 28.11.2016
The UAB Research Foundation	(72) SCHERER, Stephen	(33) European Patent Office (EPO)
(72) SPENCER, H. Trent	(74) dr. A. Krebs	(47) 05.01.2022
GILLESPIE, G. Yancey	(31) 201161545515 P	(51) C21D 6/00
LAMB, Lawrence S.	(32) 10.10.2011	C21D 8/02
(74) J.M.H. Duyver lic.	(33) United States of America	C21D 9/08
(31) 201562214071 P	(47) 23.03.2022	C21D 9/46
(32) 03.09.2015	(51) C12P 13/22	C21D 9/52
(33) United States of America	C07K 14/245	C22C 38/00
(47) 12.01.2022	C12N 15/71	C22C 38/02
(51) C12N 9/02	H01L 51/52	C22C 38/04
C12Q 1/26	H01L 27/32	C22C 38/06
(11) EP3775180	(11) EP2803720	C22C 38/42
(21) EP19740536.8	(21) EP13735653.1	C22C 38/44
(22) 12.07.2019	(22) 10.01.2013	C22C 38/58
(54) BIOSENSOR FOR DIAGNOSIS OF	(54) MICROORGANISMS OF ESCHERICHIA	(11) EP3559282
THYROID DYSFUNCTION	COLI HAVING ENHANCED L-	(21) EP17829629.9
(73) Aegirbio AB	TRYPTOPHAN PRODUCTION AND	(22) 18.12.2017
(72) PUNYANI, Kushagr	METHOD FOR PRODUCING L-	(54) USE OF A DUPLEX STAINLESS STEEL
TAKWA, Mohamad	TRYPTOPHAN USING SAME	OBJECT
SRIVASTAVA, Sudha	(73) Cj Cheiljedang Corporation	(73) AB Sandvik Materials Technology
(74) ir. W.J.J.M. Kempes	(72) HWANG, Young Bin	(72) KIVISÄKK, Ulf
(31) 18183439	LEE, Seok Myung	(74) J.M.H. Duyver lic.
(32) 13.07.2018	LEE, Hyo Hyoung	(31) 16205946
(33) European Patent Office (EPO)	LEE, Kwang Ho	(32) 21.12.2016
(47) 12.01.2022	PARK, Hye Min	(33) European Patent Office (EPO)
(51) C12N 15/113	(74) dr. W.A.H.M. Van Borm	(47) 09.03.2022
A61K 31/712	(31) 20120002906	(51) C22B 9/02
A61P 9/00	(32) 10.01.2012	B01D 3/10
(11) EP3724336	(33) Korea (Republic)	C22B 9/04
(21) EP18833849.5	(47) 09.03.2022	C22B 26/22
(22) 14.12.2018	(51) C12P 19/04	F27B 5/04
(54) IMPROVED COMPOUND FOR	(11) EP3483280	F27B 5/14
TREATMENT OF HEART FAILURE	(21) EP18205490.8	F27B 14/04
(73) Medizinische Hochschule Hannover	(22) 09.11.2018	F27B 14/06
(72) THUM, Thomas	(54) A FERMENTATION METHOD FOR	(11) EP3610046
BATKAI, Sandor	PRODUCING GELLAN GUM	(21) EP18726730.7
FOINQUINOS, Ariana	(73) Zhejiang Dsm Zhongken Biotechnology	(22) 10.04.2018
(74) J.M.H. Duyver lic.	Co., Ltd	(54) DEVICE AND METHOD FOR
(31) 201762599050 P	DSM IP Assets B.V.	PRODUCING PURIFIED, ESPECIALLY
17207738	(72) ZHAO, Jie	HIGH-PURITY, MAGNESIUM
(32) 15.12.2017	MEULENBERG, Rogier	(73) Biotronik AG
15.12.2017	GAO, Zhihui	(72) EUTIN, Thomas
(33) United States of America	VAN WINDEN, Wouter Adrianus	WINDLER, Markus
European Patent Office (EPO)	(74) dr. R.C. van Duijvenbode c.s.	(74) drs. C.H. Mink-Lindenburg
(47) 09.02.2022	(31) 201711111402	(31) 17165926
(51) C12N 15/12	(32) 10.11.2017	(32) 11.04.2017
C07H 21/00	(33) China	(33) European Patent Office (EPO)

(47) 23.03.2022	(74) ir. F.A. Geurts c.s.	(47) 05.01.2022
(51) C23C 28/00	(31) 1907057	(51) D03D 15/567
C23C 14/08	(32) 27.06.2019	(11) EP3231907
C23C 14/14	(33) France	(21) EP16164695.5
C23C 14/16	(47) 16.02.2022	(22) 11.04.2016
F01D 5/28	(51) D01F 1/04	(54) WOVEN FABRIC AND METHOD OF PRODUCTION THEREOF
F01D 5/14	D01F 1/10	(73) CALIK DENIM TEKSTIL SAN. VE TIC. A.S.
F15D 1/00	D01F 6/70	(72) BULUS, Hulusi
(11) EP3679171	D01D 5/00	YENICI, Hamit
(21) EP18793565.5	(11) EP3359713	KARADUMAN, Ahmet Serhat
(22) 09.10.2018	(21) EP16781175.1	ERTEK AVCI, Münevver
(54) LAYER SYSTEM AND BLADE	(22) 06.10.2016	KAYA, Kemal
(73) Siemens Energy Global GmbH & Co. KG	(54) COMPOSITE FIBRE	(74) ir. R. Wijnstra
(72) FLORES RENTERIA, Arturo	(73) The University of Huddersfield	(47) 09.03.2022
NEDDEMEYER, Torsten	(72) SMITH, Timothy	(51) D04C 3/14
GHICOV, Andrei	GOSWAMI, Parikshit	D04C 1/06
(74) dr. R.C. van Duijvenbode c.s.	RUSSELL, Stephen	(11) EP3321402
(31) 102017219642	HEBDEN, Andrew	(21) EP17202534.8
(32) 06.11.2017	(74) J.M.H. Duyver lic.	(22) 26.01.2010
(33) Germany	(31) 201517791	(54) METHOD OF MAKING AN ATRAUMATIC STENT
(47) 02.02.2022	(32) 08.10.2015	(73) Boston Scientific Scimed, Inc.
(51) C23F 11/02	(33) United Kingdom	(72) NORTON, Paul K.
C09K 5/10	(47) 26.01.2022	BEDARD, Louis
(11) EP2638185	(51) D02G 3/16	ZUPKOFKA, Michael
(21) EP11840040.7	C01B 32/168	HARDING, Glenn D.
(22) 03.11.2011	C01B 32/174	LILBURN, Steve
(54) NOVEL VAPOR SPACE ANTICORROSIVE COMPOSITION	D01F 9/127	(74) ir. A.R. Aalbers
(73) BASF SE	H01B 1/04	(31) 147307 P
(72) Dietl, Harald	(11) EP3696303	(32) 26.01.2009
Nitzschke, Uwe	(21) EP18865890.0	(33) United States of America
(74) ir. W.J.J.M. Kempes	(22) 11.10.2018	(47) 19.01.2022
(31) 10190743	(54) FIBER CONSTITUTED FROM CARBON NANOTUBE AND METHOD FOR MANUFACTURING SAME	(51) D21B 1/36
(32) 10.11.2010	(73) National Institute of Advanced Industrial Science and Technology	(11) EP3156539
(33) European Patent Office (EPO)	Asahi Kasei Kabushiki Kaisha	(21) EP15425084.9
(47) 26.01.2022	(72) IKENAGA, Shuhei	(22) 16.10.2015
(51) C25D 5/08	ASAKA, Kinji	(54) CONTINUOUS PROCESS FOR PRETREATING A LIGNO-CELLULOSIC FEEDSTOCK
C25D 17/00	SAITO, Yuta	(73) versalis S.p.A.
C25D 21/12	MOTOYAMA, Yujin	(72) Giordano, Dario
(11) EP3872236	MUKAI, Ken	Cherchi, Francesco
(21) EP20160190.3	MORITA, Toru	(74) J.M.H. Duyver lic.
(22) 28.02.2020	(74) J.M.H. Duyver lic.	(47) 02.03.2022
(54) DISTRIBUTION SYSTEM FOR A PROCESS FLUID FOR CHEMICAL AND/OR ELECTROLYTIC SURFACE TREATMENT OF A SUBSTRATE	(31) 2017199838	(51) E01F 13/12
(73) Semsysco GmbH	(32) 13.10.2017	E01F 13/02
(72) KNOLL, Oliver	(33) Japan	(11) EP3323942
ÖTZLINGER, Herbert	(47) 09.03.2022	(21) EP17202269.1
GLEISSNER, Andreas	(51) D03D 15/283	(22) 17.11.2017
(74) J.M.H. Duyver lic.	D03D 15/44	(54) EASY TRANSPORTABLE AND ASSEMBLED MODULAR BARRIER
(47) 16.02.2022	D03D 1/00	(73) Klein, Amos
(51) C25D 11/30	D03D 13/00	(72) Klein, Amos
C25D 11/24	D03D 15/46	(74) dr. W.A.H.M. Van Borm
C23C 22/34	(11) EP3440250	(31) 201662423220 P
(11) EP3757251	(21) EP17717999.1	(32) 17.11.2016
(21) EP20181532.1	(22) 07.04.2017	(33) United States of America
(22) 23.06.2020	(54) WOVEN FABRIC WITH COMPARABLE TENSILE STRENGTH IN WARP AND WEFT DIRECTIONS	(47) 05.01.2022
(54) COMPOSITION FOR SURFACE TREATMENT OF A METAL SUBSTRATE AND METHOD FOR SURFACE TREATMENT USING SUCH A COMPOSITION	(73) Nicolon Corporation doing business as Tencate Geosynthetics North America	(51) E01F 15/14
(73) Socomore	(72) JONES, David, Michael	(11) EP3660219
(72) ELY, Marion	BENFIELD, Larry, Ray	(21) EP19209624.6
DE LA VERGNE DE CERVAL, Jean-Louis	KING, Kevin, Nelson	(22) 26.11.2018
TINGAUT, Philippe	(74) J.M.H. Duyver lic.	(54) END TERMINAL FOR A SAFETY GUARDRAIL
	(31) 201662319481 P	(73) TATA STEEL UK Limited
	(32) 07.04.2016	
	(33) United States of America	

(72) MUSTARD, Trevor Raymond BLOWEY, Andrew Thomas LONG, Raymond William SIRMAN, Steven Charles	(32) 25.04.2019 25.04.2019 (33) France France	(11) EP2354410 (21) EP11153040.8 (22) 02.02.2011 (54) FOAM SEALING STRIP AND WINDOW REVEAL WITH FOAM SEALING STRIP
(74) ir. A. Blokland c.s. (47) 05.01.2022	(47) 12.01.2022	(73) Tremco CPG Germany GmbH
(51) E02D 1/02 E21B 43/12	(51) E04B 2/82 E04B 1/00 E04B 1/61 E04B 2/74	(72) KOMMA, Markus KÖPPL, Alfred NAUCK, Helmar
(11) EP3688233 (21) EP18827272.8 (22) 28.09.2018 (54) MODULAR DETECTING DEVICE	(11) EP3786383 (21) EP20193442.9 (22) 28.08.2020 (54) WALL LOCK DEVICE, ASSEMBLY COMPRISING THE WALL LOCK DEVICE AND BUILDING COMPRISING THE ASSEMBLY	(74) ir. H.Th. van den Heuvel c.s. (31) 202010000317 U 202010000149 U (32) 05.03.2010 09.02.2010
(73) Acacia Water B.V. (72) VELSTRA, Jouke (74) ir. F.A. Geurts c.s. (31) 2019646 (32) 29.09.2017 (33) Netherlands (47) 05.01.2022	(73) Ferlem IP Holding B.V. (72) VAN HOOFF, Bernardus Johannes Wilhelmus Nicolaas	(33) Germany Germany (47) 19.01.2022
(51) E02D 15/10 B63B 27/28	(74) ir. A. Blokland c.s. (31) 2023720 (32) 28.08.2019 (33) Netherlands (47) 16.03.2022	(51) E06B 3/70 (11) EP3103953 (21) EP16001332.2 (22) 13.06.2016 (54) SECTIONAL GATE (73) Niemeyer LM-Industrie GmbH (72) Niewöhner, Sabine Niewöhner, Laura Niewöhner, Dennis
(11) EP3775393 (21) EP19719952.4 (22) 26.03.2019 (54) HOISTING SYSTEM WITH GUIDING UNITS TO COUPLE HOIST ELEMENTS TO A WINCH SYSTEM	(51) E04D 13/04 B21D 17/02 B21D 19/08 B21D 39/06	(74) ir. H.J.G. Lips c.s. (31) 102015007330 (32) 12.06.2015 (33) Germany (47) 12.01.2022
(73) Van Oord Dredging And Marine Contractors B.V. (72) VOORMOLEN, Job Reinier (74) dr. R.C. van Duijvenbode c.s. (31) 2020670 (32) 26.03.2018 (33) Netherlands (47) 02.03.2022	(11) EP3865638 (21) EP21153144.7 (22) 25.01.2021 (54) SEALING DEVICE FOR BUILDING, AND ASSOCIATED MANUFACTURING METHOD	(51) E06B 7/215 (11) EP3699385 (21) EP19216649.4 (22) 16.12.2019 (54) AUTOMATIC DOOR SEAL WITH AT LEAST ONE HOLDING MEANS, AT LEAST ONE SHEAR MECHANISM WITH TWO SHEAR ELEMENTS AND A SEALING STRIP
(51) E03D 11/14 E03C 1/322 F16B 37/08	(73) Rikksen (72) IFTISSEN, Gérard (74) ir. H.A. Witmans c.s. (31) 2001375 (32) 12.02.2020 (33) France (47) 16.02.2022	(73) Athmer oHG (72) Hartung, Sergej Kowski, Julian Ludwig, Maico (74) J.M.H. Duyver lic. (31) 19166220 19158350 (32) 29.03.2019 20.02.2019 (33) European Patent Office (EPO) European Patent Office (EPO) (47) 09.02.2022
(11) EP3361017 (21) EP17155374.6 (22) 09.02.2017 (54) ATTACHMENT DEVICE	(51) E04H 15/62 (11) EP3721031 (21) EP18842584.7 (22) 30.11.2018 (54) TENT PEG	(74) J.M.H. Duyver lic. (31) 19166220 19158350 (32) 29.03.2019 20.02.2019 (33) European Patent Office (EPO) European Patent Office (EPO) (47) 09.02.2022
(73) Geberit International AG (72) ZWICKER, Maurus (74) ir. J.C. Volmer c.s. (47) 19.01.2022	(73) Hermans, Johnny, Christiaan, Martin (72) Hermans, Johnny, Christiaan, Martin (74) ir. G.J.M. Verhees (31) 2020008 (32) 04.12.2017 (33) Netherlands (47) 05.01.2022	(74) J.M.H. Duyver lic. (31) 19166220 19158350 (32) 29.03.2019 20.02.2019 (33) European Patent Office (EPO) European Patent Office (EPO) (47) 09.02.2022
(51) E04B 1/84 E04B 1/86 E04B 1/99 F16F 7/108 G10K 11/04 G10K 11/172 F16F 7/104 E04B 1/82	(51) E04H 17/14 E04F 11/18 (11) EP3755852 (21) EP19711005.9 (22) 22.02.2019 (54) FENCE/RAILING/GATE ELEMENT	(51) E06C 1/12 E06C 1/22 (11) EP3538733 (21) EP17817234.2 (22) 14.11.2017 (54) TELESCOPIC LADDER ASSEMBLY (73) Lampe Holding B.V. (72) HOOIVELD, Marcel Cornelis (74) ir. J.C. Volmer c.s. (31) 2019611 2017780 (32) 22.09.2017 14.11.2016 (33) Netherlands Netherlands (47) 05.01.2022
(11) EP3736465 (21) EP20171211.4 (22) 23.04.2020 (54) RESONANCE ABSORBER FOR A CONSTRUCTION WALL AND CONSTRUCTION ELEMENT WITH RESONANCE ABSORBERS	(73) PALIXON Holding GmbH (72) MEYER, Dietmar MEYER, Benjamin (31) 202018101013 U (32) 23.02.2018 (33) Germany (47) 09.02.2022	(74) ir. J.C. Volmer c.s. (31) 2019611 2017780 (32) 22.09.2017 14.11.2016 (33) Netherlands Netherlands (47) 05.01.2022
(73) SAINT-GOBAIN ISOVER SAINT-GOBAIN PLACO (72) SOURCIS, Benjamin LEROY, Pierre (74) ir. W.J.J.M. Kempes (31) 1904359 1904356	(51) E06B 1/62	

- | | | |
|--|---|---|
| (51) F02B 29/04 | F04D 29/42 | (54) AIR CLEANING DEVICE, IN PARTICULAR FOR COOKING VAPORS, AND USE THEREOF |
| F02B 29/00 | F04D 15/00 | (73) Inovvida Aero IP UG (Haftungsbeschränkt) |
| F02B 37/00 | (11) EP3842639 | (72) BERLING, Udo |
| F02B 37/013 | (21) EP20215942.2 | (74) ir. M.B. Plaggenborg |
| F02B 37/04 | (22) 21.12.2020 | (47) 05.01.2022 |
| F02B 37/10 | (54) CIRCULATION PUMP FOR A FLUID | <hr/> |
| F02B 39/08 | (73) Wilo Intec | (51) F15B 15/14 |
| (11) EP3680466 | (72) BAALI, Mohamed | F16J 1/12 |
| (21) EP18827483.1 | (74) ir. H.A. Witmans c.s. | (11) EP3491254 |
| (22) 21.05.2018 | (31) 1915487 | (21) EP17768343.0 |
| (54) STRUCTURAL ARRANGEMENT IN A LOW-TEMPERATURE TURBOCOMPRESSOR FOR AN INTERNAL COMBUSTION ENGINE | (32) 23.12.2019 | (22) 25.07.2017 |
| (73) Duo Engenharia Criativa Ltda De Avila Antonini, Natal | (33) France | (54) PISTON UNIT OF A HYDRAULIC CYLINDER |
| (72) TUMELERO VALENTE, Vitor DONADEL BASSO, Eduardo HARTMANN DA SILVA, Bruno SCHAAN CASAGRANDE, André DE AVILA ANTONINI, Natal | (47) 16.02.2022 | (73) Bümach Engineering International B.V. |
| (74) dr. R.C. van Duijvenbode c.s. | (51) F04C 18/16 | (72) BUETER, Josef |
| (31) 102017014513 | (11) EP3701151 | (74) ir. H.J.G. Lips c.s. |
| (32) 05.07.2017 | (21) EP18803497.9 | (31) 202016004643 U |
| (33) Brazil | (22) 16.10.2018 | (32) 28.07.2016 |
| (47) 02.02.2022 | (54) LUBRICANT SUPPLY PASSAGE FOR COMPRESSOR BACKGROUND | (33) Germany |
| <hr/> | (73) Carrier Corporation | (47) 26.01.2022 |
| (51) F02B 77/04 | (72) AKEI, Masao | <hr/> |
| (11) EP3601764 | (74) J.M.H. Duyver lic. | (51) F16B 39/16 |
| (21) EP18712474.8 | (31) 201762576430 P | F16B 39/22 |
| (22) 19.03.2018 | (32) 24.10.2017 | F16B 39/24 |
| (54) IMPROVED CLEANING INSTALLATION FOR AN INTERNAL COMBUSTION ENGINE | (33) United States of America | F16B 39/36 |
| (73) Flex Fuel - Energy Development | (47) 02.03.2022 | F16B 41/00 |
| (72) LE POLLES, Sébastien, Alain | (51) F04D 7/04 | (11) EP3341619 |
| (74) ir. W.J.J.M. Kempes | B02C 18/00 | (21) EP16839680.2 |
| (31) 1770270 | B02C 18/18 | (22) 23.08.2016 |
| (32) 20.03.2017 | (11) EP2971520 | (54) LOCKING ARRANGEMENT FOR A NUT |
| (33) France | (21) EP14765322.4 | (73) Bondura Technology AS |
| (47) 19.01.2022 | (22) 17.03.2014 | (72) KARLSEN, Øyvind |
| <hr/> | (54) CUTTING BLADE ASSEMBLY | (74) ir. A. Blokland c.s. |
| (51) F02B 77/04 | (73) Pentair Pump Group, Inc. | (31) 20151077 |
| F02B 77/08 | (72) ROGERS, Douglas, R. | (32) 25.08.2015 |
| (11) EP3601763 | VALLEN, Shane, R. | (33) Norway |
| (21) EP18712473.0 | (74) J.M.H. Duyver lic. | (47) 16.02.2022 |
| (22) 19.03.2018 | (31) 201361887080 P | <hr/> |
| (54) IMPROVED CLEANING INSTALLATION FOR AN INTERNAL COMBUSTION ENGINE | 201361787386 P | (51) F16G 13/16 |
| (73) Flex Fuel - Energy Development | (32) 04.10.2013 | (11) EP3781840 |
| (72) LE POLLES, Sébastien, Alain | 15.03.2013 | (21) EP19719192.7 |
| (74) ir. W.J.J.M. Kempes | (33) United States of America | (22) 11.04.2019 |
| (31) 1770269 | United States of America | (54) CABLE CARRIER HAVING DAMPING ELEMENTS AND SIDE PART FOR SAME |
| (32) 20.03.2017 | (47) 23.02.2022 | (73) Igus GmbH |
| (33) France | (51) F04D 25/06 | (72) DOMMNIK, Jörg |
| (47) 19.01.2022 | F04D 29/42 | JAEKER, Thilo-Alexander |
| <hr/> | F04D 29/62 | (74) dr. ir. G.J.C. Verdijck c.s. |
| (51) F04B 39/00 | (11) EP3655662 | (31) 202018102144 U |
| F04C 29/06 | (21) EP18737185.1 | (32) 18.04.2018 |
| (11) EP3734071 | (22) 26.06.2018 | (33) Germany |
| (21) EP19000203.0 | (54) SET OF PARTS AND METHOD FOR PRODUCING A RADIAL FAN | (47) 12.01.2022 |
| (22) 29.04.2019 | (73) Ebm-Papst St. Georgen GmbH & CO. KG | <hr/> |
| (54) NOISE & VIBRATION REDUCTION UNIT | (72) RAGG, Peter | (51) F16J 15/16 |
| (73) Marsh Boyer, Stephen | (74) ir. W.J.J.M. Kempes | F16J 15/3228 |
| (72) Marsh Boyer, Stephen | (31) 102017006854 | F16J 15/3244 |
| (74) dr. A. Krebs | (32) 21.07.2017 | F16J 15/3208 |
| (47) 16.03.2022 | (33) Germany | F16J 15/3236 |
| <hr/> | (47) 09.02.2022 | F16J 15/34 |
| (51) F04B 53/16 | (51) F04D 29/053 | (11) EP3625484 |
| F04B 53/22 | F04D 29/26 | (21) EP18726771.1 |
| | F04D 29/62 | (22) 18.05.2018 |
| | F24C 15/20 | (54) ROTARY SEAL ARRANGEMENT AND ROTARY SEAL WITH RETURN FUNCTION |
| | (11) EP3788264 | (73) Trelleborg Sealing Solutions Germany GmbH |
| | (21) EP18723461.2 | (72) WEHMANN, Christoph, Dr. |
| | (22) 04.05.2018 | |

FRANZ, Martin	(54) COMBUSTION SYSTEM WITH	(11) EP3472858
(74) J.M.H. Duyver lic.	INFERRED FUEL AND ASSOCIATED	(21) EP17734201.1
(31) 102017208574	METHOD	(22) 15.06.2017
(32) 19.05.2017	(73) OnPoint Technologies, LLC	(54) POWER CONVERTER FOR A
(33) Germany	(72) MORGAN, Ryan	THERMAL SYSTEM
(47) 19.01.2022	KORB, Thomas	(73) Watlow Electric Manufacturing Company
(51) F16L 1/24	CARROL, Chad	(72) McCLUSKEY, Dean R.
(11) EP3341637	VACCARI, Mark	NESS, Keith
(21) EP16753450.2	(74) J.M.H. Duyver lic.	LEMKE, John
(22) 16.08.2016	(31) 201962864954 P	YENDER, M.
(54) CLAMP ASSEMBLY	(32) 21.06.2019	ELLIS, Eric
(73) Advanced Innergy Ltd	(33) United States of America	BREITLOW, Stanton H.
(72) MORLEY, Stewart Ian	(47) 09.03.2022	BOHLINGER, William
HARROP, Martin Steven	(51) F23N 5/08	HENTGES, James
LEWIS, Radcliffe	F23N 5/24	(74) ir. A. Blokland c.s.
(74) J.M.H. Duyver lic.	(11) EP3830484	(31) 201662350275 P
(31) 201515320	(21) EP20744106.4	(32) 15.06.2016
(32) 28.08.2015	(22) 19.06.2020	(33) United States of America
(33) United Kingdom	(54) COMBUSTION HEATER CONTROL	(47) 12.01.2022
(47) 09.02.2022	SYSTEM WITH DYNAMIC SAFETY	(51) F24T 10/10
(51) F17C 1/12	SETTINGS AND ASSOCIATED	F24T 50/00
F17C 13/00	METHODS	F28D 11/00
(11) EP3452749	(73) OnPoint Technologies, LLC	F28D 20/00
(21) EP17721051.5	(72) VACCARI, Mark	(11) EP3657094
(22) 04.05.2017	MORGAN, Ryan	(21) EP19211397.5
(54) TRANSPORT CONTAINER	CARROLL, Chad	(22) 26.11.2019
(73) Linde GmbH	KORB, Thomas	(54) METHOD FOR UTILISING NEAR-
(72) PARKKONEN, Marko	ANDERSON, Kevin	SURFACE GEOTHERMAL HEAT FOR
POSSELT, Heinz	(74) J.M.H. Duyver lic.	HEATING AND / OR COOLING AND /
(74) ir. W.J.J.M. Kempes	(31) 201962865007 P	OR WARMING HOT DRINKING WATER
(31) 16000998	201962864992 P	FROM ONE OR MORE BUILDINGS
(32) 04.05.2016	(32) 21.06.2019	(73) Steinhäuser GmbH & Co. KG
(33) European Patent Office (EPO)	21.06.2019	(72) Steinhäuser, Johann Harry
(47) 23.03.2022	(33) United States of America	(74) ir. A. Blokland c.s.
(51) F17C 1/16	United States of America	(31) 102018129822
F17C 1/00	(47) 09.03.2022	(32) 26.11.2018
(11) EP3380302	(51) F23N 5/12	(33) Germany
(21) EP16869192.1	F23N 5/24	(47) 05.01.2022
(22) 22.11.2016	F23N 5/18	(51) F25B 39/02
(54) COMPOSITE PRESSURE VESSEL	(11) EP3290802	F28D 7/16
HAVING INTERNAL LOAD SUPPORT	(21) EP17187719.4	F28F 9/22
(73) Quantum Fuel Systems LLC	(22) 24.08.2017	F28F 9/00
(72) GARG, Mohit	(54) METHOD FOR CONTROLLING AN	B01D 1/30
(74) ir. H.Th. van den Heuvel c.s.	INSPECTION TIME IN A HEATING	F28D 21/00
(31) 201562259490 P	SYSTEM AND A CONTROL UNIT AND	(11) EP3724560
(32) 24.11.2015	A HEATING SYSTEM	(21) EP17872889.5
(33) United States of America	(73) Robert Bosch GmbH	(22) 11.12.2017
(47) 05.01.2022	(72) Kapucu, Mehmet	(54) BAFFLE, EVAPORATOR
(51) F17C 5/06	Reijke, Sjoerd	COMPRISING SUCH A BAFFLE
(11) EP3249281	Leerkes, Lanny	AND REFRIGERATION CIRCUIT
(21) EP16170898.7	Jaspers, Bram	COMPRISING SUCH AN EVAPORATOR
(22) 23.05.2016	(74) ir. H.A. Witmans c.s.	(73) Carrier Corporation
(54) COMPRESSED GAS DISPENSING	(31) 102017204017	(72) FONTE, Nicolas
(73) AIR PRODUCTS AND CHEMICALS,	102016216625	ENEZIANI, Arnaud
INC.	102016216613	LENOBLE, Yohann
(72) Carlson, Todd Eric	102016216630	FERVEL, Pierre-Alain
Thompson, Donald Earl	(32) 10.03.2017	(74) dr. R.C. van Duijvenbode c.s.
Farese, David John	02.09.2016	(47) 09.02.2022
Cohen, Joseph Perry	02.09.2016	(51) F25B 41/00
(74) dr. R.C. van Duijvenbode c.s.	02.09.2016	F25B 13/00
(47) 23.02.2022	(33) Germany	(11) EP3317594
(51) F23N 5/00	Germany	(21) EP16733807.8
(11) EP3830483	Germany	(22) 16.06.2016
(21) EP20743798.9	Germany	(54) EJECTOR HEAT PUMP
(22) 19.06.2020	(47) 19.01.2022	(73) Carrier Corporation
(51) F24D 11/02	(51) F24D 11/02	(72) VERMA, Parmesh
H05B 1/02	H01L 21/67	LIU, Hongsheng
H01L 21/67		RADCLIFF, Thomas D.

(74) J.M.H. Duyver lic. (31) 201510383148 (32) 03.07.2015 (33) China (47) 09.03.2022	(54) TUBULAR HEAT EXCHANGER HAVING CORROSION PROTECTION (73) Hugo Petersen GmbH (72) FANI YAZDI, Sayyed Ahmad SCHULZE, Axel (74) ir. W.J.J.M. Kempes (31) 202018100156 U (32) 12.01.2018 (33) Germany (47) 02.03.2022	(47) 16.03.2022 (51) G01C 21/32 G01C 21/36 G06K 9/00 (11) EP3708959 (21) EP20161911.1 (22) 09.03.2020 (54) ROAD NETWORK CHANGE DETECTION AND LOCAL PROPAGATION OF DETECTED CHANGE (73) HERE Global B.V. (72) ADARE, Andrew DRONEN, Nicholas (74) ir. A. Blokland c.s. (31) 201916352206 (32) 13.03.2019 (33) United States of America (47) 09.03.2022
(51) F25D 3/06 B65D 81/38 (11) EP3662214 (21) EP18746701.4 (22) 27.07.2018 (54) INSULATION BOX OF FOAMED MATERIAL (73) Ohlro Hartschaum GmbH (72) OHLBRECHT, Jens (74) ir. H.A. Witmans c.s. (31) 202017003969 U (32) 31.07.2017 (33) Germany (47) 12.01.2022	(51) F28G 1/16 F28G 3/16 F28G 15/00 F28G 15/04 F23G 5/46 F23L 1/02 F23L 15/04 F23N 3/00 (11) EP3249342 (21) EP17000892.4 (22) 24.05.2017 (54) AIR PRE-HEATER, IN PARTICULAR FOR A REFUSE INCINERATOR, REFUSE INCINERATOR, METHOD FOR CLEANING AN AIR PRE-HEATER AND METHOD FOR OPERATING A REFUSE INCINERATOR (73) Balcke-Dürr GmbH (72) Leidig, Olaf (74) ir. H.Th. van den Heuvel c.s. (31) 102016006497 (32) 27.05.2016 (33) Germany (47) 12.01.2022	(51) G01F 1/58 G01F 1/66 G01N 22/00 (11) EP3563121 (21) EP17801467.6 (22) 22.11.2017 (54) MEASURING ARRANGEMENT FOR ANALYZING PROPERTIES OF A FLOWING MEDIUM BY MICROWAVES (73) Endress+Hauser Flowtec AG (72) ZIEGLER, Steffen VOIGT, Frank PFLÜGER, Stefan (74) ir. W.J.J.M. Kempes (31) 102016125809 (32) 28.12.2016 (33) Germany (47) 23.02.2022
(51) F27B 1/00 C03B 19/10 C04B 38/00 C04B 20/06 (11) EP3438589 (21) EP18185606.3 (22) 25.07.2018 (54) DOWNPIPE FURNACE FOR HEATING OF PARTICULATE MATERIAL (73) Veit Dennert KG Baustoffbetriebe (72) Dennert, Veit Dennert, Frank (74) ir. J.C. Volmer c.s. (31) 102017213275 (32) 01.08.2017 (33) Germany (47) 05.01.2022	(51) G01B 21/04 G01B 5/00 (11) EP2820376 (21) EP13708642.7 (22) 01.03.2013 (54) COORDINATE MEASURING MACHINE WITH SUPPORT BEAM HAVING SPRINGS (73) Hexagon Metrology, Inc (72) SINGH, Gurpreet ZHENG, Jie LANGLAIS, John (74) ir. H.A. Witmans c.s. (31) 201261605829 P 201261605831 P (32) 02.03.2012 02.03.2012 (33) United States of America United States of America (47) 16.02.2022	(51) G01N 15/14 G01N 21/65 G01N 15/10 (11) EP3309538 (21) EP17194965.4 (22) 05.10.2017 (54) OPTICAL SYSTEM AND METHOD FOR SPECTROSCOPY (73) Ferdinand-Braun-Institut gGmbH, Leibniz-Institut für Höchstfrequenztechnik (72) Maiwald, Martin Sumpf, Bernd (74) dr. R.C. van Duijvenbode c.s. (31) 102016118898 (32) 05.10.2016 (33) Germany (47) 16.02.2022
(51) F27D 15/02 (11) EP3563108 (21) EP17889512.4 (22) 29.12.2017 (54) DEVICE, COMPRISING A SHAFT COOLER AND AN INPUT DEVICE, AND METHOD FOR COOLING HOT SINTER (73) Primetals Technologies Austria GmbH (72) WURM, Johann BERNER, Franz FEHRINGER, Edmund BOEBERL, Michaela KASTNER, Markus (74) dr. R.C. van Duijvenbode c.s. (31) 201621470172 U 201611246444 17177598 (32) 29.12.2016 29.12.2016 23.06.2017 (33) China China European Patent Office (EPO) (47) 02.02.2022	(51) G01C 21/30 (11) EP3663718 (21) EP19213178.7 (22) 03.12.2019 (54) METHOD AND APPARATUS FOR ESTIMATING A LOCALIZED POSITION ON A MAP (73) HERE Global B.V. (72) VISWANATHAN, Anirudh MOTT, Matt (74) drs. C.M.A. Quintelier (31) 201816209549 (32) 04.12.2018 (33) United States of America	(51) G01N 23/207 G01N 23/201 G01N 23/20 G21K 1/06 (11) EP3845892 (21) EP20197189.2 (22) 21.09.2020 (54) X-RAY SCATTERING APPARATUS (73) Xenocs SAS (72) LANTZ, Blandine (c/o Xenocs SAS) HØGHØJ, Peter (c/o Xenocs SAS) (74) ir. H.Th. van den Heuvel c.s. (31) 19290126 (32) 30.12.2019
(51) F28F 9/00 F28F 19/00 F28D 7/16 C01B 17/69 (11) EP3737904 (21) EP19701053.1 (22) 11.01.2019		

(33) European Patent Office (EPO)	(74) ir. W.J.J.M. Kempes	(11) EP3400451
(47) 05.01.2022	(31) 1661559	(21) EP16828835.5
(51) G01N 29/02	(32) 28.11.2016	(22) 21.12.2016
G01N 29/44	(33) France	(54) APPARATUS FOR AND METHOD OF
(11) EP3022553	(47) 19.01.2022	PROVIDING MEASUREMENTS OF
(21) EP14750402.1	(51) G01N 33/68	UNCERTAINTY IN RESPECT OF A
(22) 18.07.2014	(11) EP3602067	TRANSFER FUNCTION
(54) AUTO SWITCHING REFERENCE	(21) EP18714352.4	(73) Analog Devices International Unlimited
MATRICES IN DETERMINING	(22) 19.03.2018	Company
PROCESS MATERIAL	(54) METHODS AND KITS FOR	(72) HURWITZ, Jonathan Ephraim David
CONCENTRATION	DETERMINING BINDING SITES	DANESH, Seyed Amir Ali
(73) Micro Motion, Inc.	(73) University of Leicester	STUART, John
(72) WHEELER, Simon P. H.	(72) PILETSKY, Sergey	HOLLAND, William Michael James
(74) dr. R.C. van Duijvenbode c.s.	CANFAROTTA, Francesco	(74) drs. A.A. Jilderda
(31) 201361856365 P	JONES, Don	(31) 201615185603
(32) 19.07.2013	PILETSKA, Elena	(32) 17.06.2016
(33) United States of America	(74) dr. A. Krebs	(33) United States of America
(47) 02.03.2022	(31) 201704823	(47) 02.03.2022
(51) G01N 30/06	(32) 27.03.2017	(51) G01S 5/02
G01N 30/24	(33) United Kingdom	(11) EP2805176
G01N 1/40	(47) 05.01.2022	(21) EP13706670.0
G01N 35/10	(51) G01N 35/10	(22) 18.01.2013
B01L 9/06	B01L 3/00	(54) IMPROVED POSITIONING SYSTEM
B01L 3/00	G01N 35/02	(73) Huawei Technologies Co., Ltd.
(11) EP3702773	G01N 35/00	(72) ARSLAN, Tughrul Sati
(21) EP20168650.8	G01N 35/04	SEVAK, Zankar Upendrakumar
(22) 26.03.2015	G01M 3/26	ALSEHLY, Firas
(54) DEVICE FOR A SOLID PHASE	(11) EP3566056	(74) dr. W.A.H.M. Van Borm
MICROEXTRACTION	(21) EP17889858.1	(31) 201200831
(73) Gerstel Systemtechnik GmbH & Co. KG	(22) 21.12.2017	201261588903 P
(72) BREMER, Ralf	(54) PRESSURE AND LEAK TESTING	(32) 18.01.2012
ROSE, Bernhard	METHODS	20.01.2012
(74) ir. J.C. Volmer c.s.	(73) Illumina, Inc.	(33) United Kingdom
(31) 102014004701	(72) DREWS, Bradley Kent	United States of America
(32) 31.03.2014	CAPPA, Kevin James	(47) 09.03.2022
(33) Germany	(74) ir. W.J.J.M. Kempes	(51) G01S 5/02
(47) 02.02.2022	(31) 201704763	G01C 5/06
(51) G01N 33/04	201715841089	G01C 21/20
A01J 5/01	201762442542 P	H04W 4/38
(11) EP3732482	(32) 24.03.2017	(11) EP3314286
(21) EP18829515.8	13.12.2017	(21) EP15732658.8
(22) 18.12.2018	05.01.2017	(22) 29.06.2015
(54) A TAPE FOR BIOMARKER ANALYSIS	(33) United Kingdom	(54) ADVERTISING AMBIENT PRESSURE
OF A MILK SAMPLE	United States of America	INFORMATION
(73) DeLaval Holding AB	United States of America	(73) HERE Global B.V.
(72) DALLERUP RASMUSSEN, Claus	(47) 09.03.2022	(72) IVANOV, Pavel
CARLSEN, Thomas, Nikolai	(51) G01N 35/10	SYRJÄRINNE, Jari
(74) dr. W.A.H.M. Van Borm	B41J 2/21	KHAN, Muhammad Irshan
(31) 1751661	B41J 2/045	(74) ir. A. Blokland c.s.
(32) 28.12.2017	B01L 3/02	(47) 09.03.2022
(33) Sweden	(11) EP3285074	(51) G01S 7/481
(47) 02.03.2022	(21) EP17185313.8	G01S 17/42
(51) G01N 33/24	(22) 08.08.2017	G01S 17/89
E21B 49/08	(54) MICRODOSING DEVICE AND	G02B 26/12
G01N 33/00	AUTOMATIC MICRODOSING METHOD	(11) EP3535603
G01N 33/18	(73) Fraunhofer-Gesellschaft zur Förderung	(21) EP17884991.5
(11) EP3327435	der angewandten Forschung e.V.	(22) 18.12.2017
(21) EP17306535.0	(72) LASKE, Christopher	(54) MIRROR ASSEMBLY
(22) 06.11.2017	KLINGER, Michael	(73) Waymo LLC
(54) PRODUCTION AND/OR MONITORING	(74) dr. R.C. van Duijvenbode c.s.	(72) INGRAM, Benjamin T.
PROCESS OF AN AQUIFER	(31) 102016215240	GASSEND, Blaise
COMPRISING AT LEAST ONE	(32) 16.08.2016	DROZ, Pierre-Yves
DISSOLVED GAS	(33) Germany	(74) dr. A. Krebs
(73) IFP Energies nouvelles	(47) 12.01.2022	(31) 201615383842
(72) DURAND, Isabelle	(51) G01R 27/28	(32) 19.12.2016
ROUCHON, Virgile	G01R 1/20	(33) United States of America
BEAUMONT, Valerie	G01R 19/00	(47) 16.03.2022
GARCIA, Bruno	G01R 35/00	(51) G01V 1/30

G01V 1/34	(11) EP2824487	(22) 04.01.2016
(11) EP3137927	(21) EP14173867.4	(54) WINDOW ASSEMBLY AND A METHOD REGARDING THE SAME
(21) EP15706604.4	(22) 25.06.2014	(73) Sage Electrochromics, Inc.
(22) 10.02.2015	(54) Reflective optical element for oblique incidence in the EUV wavelength range	(72) TAYLOR, Clifford Lee
(54) METHOD OF CREATING AN ANIMATED MOSAIC FROM MULTIPLE SEISMIC SURVEYS, COMPUTER SYSTEM, COMPUTER PROGRAM AND COMPUTER READABLE MEDIUM	(73) Carl Zeiss SMT GmbH	(72) VANDERVEEN, Cody
(73) Chevron U.S.A. Inc.	(72) Shklover, Vitaliy	(74) dr. W.A.H.M. Van Borm
(72) MARSH, Antony	(74) ir. W.J.J.M. Kempes	(31) 201562100328 P
KOWALIK, William S.	(31) 102013107192	(32) 06.01.2015
(74) dr. R.C. van Duijvenbode c.s.	(32) 08.07.2013	(33) United States of America
(31) 201414265581	(33) Germany	(47) 02.03.2022
(32) 30.04.2014	(47) 19.01.2022	(51) G03F 7/20
(33) United States of America	(51) G02B 5/10	G06T 7/00
(47) 16.02.2022	G02B 5/30	G03F 1/84
(51) G01V 1/34	G02B 27/14	(11) EP3210189
(11) EP3368920	G02B 27/28	(21) EP16835689.7
(21) EP16790864.9	G02B 27/01	(22) 05.08.2016
(22) 27.10.2016	(11) EP3740794	(54) APPARATUS AND METHODS FOR PREDICTING WAFER-LEVEL DEFECT PRINTABILITY
(54) COMPUTER SYSTEM AND METHOD FOR GENERATING ATTRIBUTE RENDERINGS FROM A SEISMIC DATA VOLUME	(21) EP19700438.5	(73) KLA - Tencor Corporation
(73) Shell Internationale Research Maatschappij B.V.	(22) 07.01.2019	(72) SEZGINER, Abdurrahman (Apo)
(72) POTTER, Russell David	(54) LIGHT PROJECTOR	SHI, Rui-Fang
SANTOSO, Tijpto	(73) Wave Optics Ltd	(74) ir. W.J.J.M. Kempes
GESBERT, Stéphane Youri Richard	(72) WOODS, David	(31) 201514822571
Michael Joachim	(74) J.M.H. Duyver lic.	(32) 10.08.2015
(74) dr. W.A.H.M. Van Borm	(31) 201800762	(33) United States of America
(31) 15192160	(32) 17.01.2018	(47) 23.03.2022
(32) 29.10.2015	(33) United Kingdom	(51) G03G 15/08
(33) European Patent Office (EPO)	(47) 09.03.2022	(11) EP3623873
(47) 23.03.2022	(51) G02B 6/132	(21) EP19205934.3
(51) G01V 3/12	G02B 6/136	(22) 04.08.2009
G01V 3/08	(11) EP3494425	(54) TONER CONTAINER AND IMAGE FORMING APPARATUS
(11) EP3318901	(21) EP17752037.6	(73) Ricoh Company, Ltd.
(21) EP17208536.7	(22) 27.07.2017	(72) YOSHIDA, Satoru
(22) 14.04.2017	(54) METHOD FOR MANUFACTURING A SEMICONDUCTOR STRUCTURE	TAGUCHI, Nobuyuki
(54) DETECTOR OF UNAUTHORISED OBJECTS OR MATERIALS CONCEALED IN A SHOE	(73) Soitec	SESHITA, Takuya
(73) Manneschi, Alessandro	(72) GAUDIN, Gweltaz	YAMANE, Masayuki
(72) Manneschi, Alessandro	NGUYEN, Bich-Yen	OHYAMA, Kunihiro
(74) dr. R.C. van Duijvenbode c.s.	(74) dr. R.C. van Duijvenbode c.s.	UCHITANI, Takeshi
(31) 1653385	(31) 1657575	KADOTA, Ichiro
(32) 15.04.2016	(32) 04.08.2016	(74) ir. H.A. Witmans c.s.
(33) France	(33) France	(31) 2008249424
(47) 09.02.2022	(47) 16.02.2022	2008248371
(51) G01V 3/12	(51) G02B 21/00	2008234344
G01V 3/08	G02B 21/16	2008231266
(11) EP3318902	G02B 21/26	(32) 29.09.2008
(21) EP17208553.2	G02B 27/58	26.09.2008
(22) 14.04.2017	(11) EP3677944	12.09.2008
(54) DETECTOR OF UNAUTHORISED OBJECTS OR MATERIALS CONCEALED IN A SHOE	(21) EP19219713.5	09.09.2008
(73) Manneschi, Alessandro	(22) 25.12.2019	(33) Japan
(72) Manneschi, Alessandro	(54) OPTICAL IMAGING EQUIPMENT AND METHOD	Japan
(74) dr. R.C. van Duijvenbode c.s.	(73) Beijing Yapu Optical Instrument Technology Co., LTD.	Japan
(31) 1653385	(72) XIANG, Hong	Japan
(32) 15.04.2016	(74) dr. R.C. van Duijvenbode c.s.	(47) 09.03.2022
(33) France	(31) 201811633685	(51) G03G 15/08
(47) 16.02.2022	(32) 29.12.2018	G03G 21/16
(51) G02B 5/08	(33) China	G03G 21/18
G03F 7/20	(47) 09.02.2022	(11) EP3571551
	(51) G02F 1/153	(21) EP18852729.5
	H02S 20/22	(22) 27.09.2018
	E06B 9/24	(54) DEVELOPING CARTRIDGE
	E06B 7/28	(73) BROTHER KOGYO KABUSHIKI KAISHA
	E06B 3/66	(72) WANG, Yuwen
	E06B 5/00	OOKA, Kazuaki
(11) EP3243104	(11) EP3243104	HASHIMOTO, Junichi
(21) EP16735251.7	(21) EP16735251.7	KISHI, Isao

(74) dr. R.C. van Duijvenbode c.s. (31) 2018067898 (32) 30.03.2018 (33) Japan (47) 09.02.2022	(74) ir. A. Blokland c.s. (31) 102018114808 (32) 20.06.2018 (33) Germany (47) 09.03.2022	(47) 16.03.2022 <hr/> (51) G06F 9/30 (11) EP3407183 (21) EP18170154.1 (22) 30.04.2018
(51) G03G 15/16 G03G 15/00 (11) EP2570859 (21) EP12182101.1 (22) 29.08.2012 (54) Image forming apparatus (73) Ricoh Company, Ltd. (72) Ishii, Hirokazu Shimizu, Yasunobu Tanaka, Shinya Ogiyama, Hiromi Nakamura, Keigo (74) ir. H.A. Witmans c.s. (31) 2011199245 (32) 13.09.2011 (33) Japan (47) 09.03.2022	(51) G06F 3/033 (11) EP2677401 (21) EP12173185.5 (22) 22.06.2012 (54) Image data generation using a handheld electronic device (73) BlackBerry Limited (72) McCann, Robert Emmett Schwend, Diana J. Turner, Benjamin John Almalki, Nazih Oliver, Robert George Dods, Jeffrey Alton Hugh Snow, Christopher Harris (74) ir. W.J.J.M. Kempes (47) 09.03.2022	(54) OPTIMIZED COMPUTE HARDWARE FOR MACHINE LEARNING OPERATIONS (73) INTEL Corporation (72) HEINECKE, Alexander F. CORBAL, Jesus DAS, Dipankar MELLEMPUDI, Naveen K. MUDIGERE, Dheevatsa SMELYANSKIY, Mikhail GRAMUNT, Roger (74) ir. W.J.J.M. Kempes (31) 201741015868 201815869564 (32) 05.05.2017 12.01.2018 (33) India United States of America <hr/> (47) 09.03.2022
(51) G05B 19/042 H04L 29/08 G06F 21/60 (11) EP3647887 (21) EP18203150.0 (22) 29.10.2018 (54) METHOD AND APPARATUS FOR THE TRANSMISSION OF AN ACCESS TOKEN FOR ACCESS TO A FIELD DEVICE USED IN THE PROCESSING INDUSTRY (73) VEGA Grieshaber KG (72) HÖLL, Ralf FAIST, Fridolin HUMMEL, Jakob (74) J.M.H. Duyver lic. (47) 05.01.2022	(51) G06F 3/041 (11) EP3702893 (21) EP18884386.6 (22) 06.11.2018 (54) TOUCH SENSING SIGNAL PROCESSING METHOD AND SYSTEM (73) Guangzhou Shirui Electronics Co., Ltd. Guangzhou Shiyuan Electronics Co., Ltd. (72) HE, Xin (74) J.M.H. Duyver lic. (31) 201711225565 (32) 29.11.2017 (33) China (47) 26.01.2022	(47) G06F 9/54 <hr/> H04L 29/08 H04W 4/00 H04L 29/06 (11) EP3754504 (21) EP20179671.1 (22) 09.03.2015 (54) DYNAMIC EVENT SUBSCRIPTIONS FOR M2M COMMUNICATION (73) Telefonaktiebolaget LM Ericsson (publ) (72) Foti, George (74) ir. A. Blokland c.s. (47) 02.03.2022
(51) G05D 1/00 G05D 1/10 B64C 39/02 B64F 5/60 (11) EP3308232 (21) EP16741082.8 (22) 15.06.2016 (54) SYSTEM AND METHOD FOR AUTOMATICALLY INSPECTING SURFACES (73) Donecle (72) CLAYBROUGH, Matthieu (74) ir. W.J.J.M. Kempes (31) 1555452 (32) 15.06.2015 (33) France (47) 05.01.2022	(51) G06F 3/0484 G06F 3/0488 G06F 3/0482 G06F 16/54 (11) EP3699743 (21) EP18867392.5 (22) 19.10.2018 (54) IMAGE VIEWING METHOD AND MOBILE TERMINAL (73) Vivo Mobile Communication Co., Ltd. (72) ZHANG, Yanni (74) J.M.H. Duyver lic. (31) 201710984418 (32) 20.10.2017 (33) China (47) 09.03.2022	(51) G06F 11/34 G06F 11/36 G06F 12/12 (11) EP3577564 (21) EP18713409.3 (22) 29.01.2018 (54) EFFICIENT RETRIEVAL OF MEMORY VALUES DURING TRACE REPLAY (73) Microsoft Technology Licensing, LLC (72) MOLA, Jordi (74) J.M.H. Duyver lic. (31) 201715423030 (32) 02.02.2017 (33) United States of America (47) 02.03.2022
(51) G05D 1/02 (11) EP3584663 (21) EP19178535.1 (22) 05.06.2019 (54) METHOD FOR AUTOMATIC TRANSVERSE GUIDANCE OF A FOLLOW VEHICLE IN A VEHICLE PLATOON (73) MAN Truck & Bus SE (72) Schwertberger, Walter Gebauer, Oliver Strauß, Peter	(51) G06F 8/60 (11) EP3293630 (21) EP17194428.3 (22) 20.07.2012 (54) DISTRIBUTION OF MULTIPLE APPLICATION VERSIONS (73) Google LLC (72) WOMACK, Mark D TSANG, Juliana HSIEH, Sheng-chi FIRMAN, Ilya LIN, Yu-Kuan LIN, Jasper S. (74) dr. A. Krebs (31) 201113187198 (32) 20.07.2011 (33) United States of America	<hr/> (51) G06F 16/176 (11) EP3525113 (21) EP18156101.0 (22) 09.02.2018 (54) DATA MANAGEMENT SYSTEM (73) Fomtech Limited (72) de Wever, Martijn Imamovich, Sasha (74) dr. R.C. van Duijvenbode c.s. (47) 16.02.2022 <hr/> (51) G06F 16/176 G06F 16/23 H04L 29/08 (11) EP3552116 (21) EP17784105.3

(22) 26.09.2017	(74) dr. R.C. van Duijvenbode c.s.	(47) 02.03.2022
(54) A HIGH-THROUGHPUT ALGORITHM FOR MULTIVERSION CONCURRENCY CONTROL WITH GLOBALLY SYNCHRONIZED TIME	(31) 20150035177	(51) G06K 9/00
(73) Google LLC	(32) 13.03.2015	G06T 7/11
(72) HOCHSCHILD, Peter	(33) Korea (Republic)	G06T 7/143
HSIEH, Wilson, Cheng-yi	(47) 02.02.2022	G06T 7/194
(74) ir. H.Th. van den Heuvel c.s.	(51) G06F 21/55	G06T 7/64
(31) 201615374722	G06F 21/56	G06T 7/68
(32) 09.12.2016	G06F 21/57	G06T 7/73
(33) United States of America	H04L 29/06	G08G 1/015
(47) 26.01.2022	(11) EP3685295	G08G 1/017
(51) G06F 16/242	(21) EP18742640.8	G08G 1/04
G06F 16/28	(22) 25.06.2018	G08G 1/056
(11) EP3516549	(54) DETECTION AND IDENTIFICATION OF TARGETED ATTACKS ON A COMPUTING SYSTEM	(11) EP3183721
(21) EP17851970.8	(73) Microsoft Technology Licensing, LLC	(21) EP15753898.4
(22) 06.09.2017	(72) NEWMAN, Philip K.	(22) 17.08.2015
(54) SYSTEMS AND METHODS FOR ACCESSING A DATABASE MANAGEMENT SYSTEM	OFUONYE, Ejike E.	(54) METHOD AND AXLE-COUNTING DEVICE FOR CONTACT-FREE AXLE-COUNTING OF A VEHICLE AND AXLE-COUNTING SYSTEM FOR ROAD TRAFFIC
(73) Global Software Innovation Pty Ltd	NARAYANAMURTHY, Sudhakar	(73) Jenoptik Robot GmbH
(72) AYLETT, Peter Kyra	PALANI, Suresh C.	(72) LEHNING, Michael
HOPWOOD, Scott	VETRIVEL, Puhazholi	THOMMES, Jan
QUINT, David Gregory	MISHRA, Ashish	PRÖFROCK, Dima
(74) ir. F.A. Geurts c.s.	(74) J.M.H. Duyver lic.	TRUMMER, Michael
(31) 2016231506	(31) 201815874983	(31) 102014012285
(32) 20.09.2016	201762561966 P	(32) 22.08.2014
(33) Australia	(32) 19.01.2018	(33) Germany
(47) 19.01.2022	22.09.2017	(47) 19.01.2022
(51) G06F 16/332	(33) United States of America	(51) G06N 3/08
G06F 40/35	United States of America	G06N 3/04
G06F 3/16	(47) 16.03.2022	G10L 13/00
G10L 15/22	(51) G06F 21/60	(11) EP3593290
G06N 5/02	G06F 9/50	(21) EP18726146.6
G06N 20/00	(11) EP3750096	(22) 22.05.2018
G10L 25/00	(21) EP18705984.5	(54) FEEDFORWARD GENERATIVE NEURAL NETWORKS
(11) EP3563375	(22) 05.02.2018	(73) Deepmind Technologies Limited
(21) EP18756646.8	(54) METHOD AND APPARATUS FOR MANAGING SERVICE ACCESS AUTHORIZATION USING SMART CONTRACTS	(72) VINYALS, Oriol
(22) 23.02.2018	(73) Telefonaktiebolaget LM Ericsson (publ)	VAN DEN OORD, Aaron Gerard Antonius
(54) EXPANDABLE DIALOGUE SYSTEM	(72) NARENDRA, Nanjangud	SIMONYAN, Karen
(73) Microsoft Technology Licensing, LLC	Chandrasekhara Swamy	(74) ir. H.A. Witmans c.s.
(72) HALL, David Leo Wright	KEMPF, James	(31) 201762509053 P
CLAUSMAN, Joshua James	SHUKLA, Anshu	(32) 20.05.2017
LIANG, Percy Shuo	NAYAK, Sambit	(33) United States of America
(74) J.M.H. Duyver lic.	(74) ir. A. Blokland c.s.	(47) 26.01.2022
(31) 201762462736 P	(47) 05.01.2022	(51) G06Q 10/08
(32) 23.02.2017	(51) G06F 40/216	G06Q 50/28
(33) United States of America	G06F 40/284	G06Q 50/32
(47) 02.03.2022	(11) EP3549031	(11) EP3149670
(51) G06F 21/51	(21) EP17818361.2	(21) EP15732479.9
G06F 21/50	(22) 22.11.2017	(22) 28.05.2015
G06F 21/52	(54) LANGUAGE DATA PREDICTION WITH NEURAL NETWORKS AND ONLINE LEARNING	(54) DELIVERY AND MONITORING SYSTEM AND METHOD
H04L 29/08	(73) Microsoft Technology Licensing, LLC	(73) Zipp Labs B.V.
G06F 21/14	(72) OSBORNE, Joseph	(72) EKKEL, Frederik
G06F 21/54	WILLSON, Matthew James	LANGERAK, Alfred
G06F 21/55	ORR, Douglas Alexander Harper	(74) ir. H.A. Witmans c.s.
G06F 21/56	ISO-SIPILÄ, Juha	(31) 2013229
G06F 21/57	FISCATO, Marco	2012918
H04L 29/06	(74) dr. R.C. van Duijvenbode c.s.	2012919
(11) EP3270317	(31) 201620232	2012917
(21) EP16765227.0	201715475038	(32) 21.07.2014
(22) 14.03.2016	(32) 29.11.2016	28.05.2014
(54) DYNAMIC SECURITY MODULE SERVER DEVICE AND OPERATING METHOD THEREOF	30.03.2017	28.05.2014
(73) Everspin Corp.	(33) United Kingdom	(33) Netherlands
(72) HA, Young Bin	United States of America	Netherlands

Netherlands	(33) United Kingdom	(22) 26.10.2018
Netherlands	(47) 02.03.2022	(54) CARBON NANOTUBE COMPOSITE
(47) 05.01.2022	(51) G07D 7/202	WIRE, CARBON NANOTUBE-
(51) G06Q 50/00	G07D 7/004	COATED ELECTRIC WIRE, AND WIRE
B65G 1/137	G07D 7/1205	HARNES
A47B 81/00	(11) EP3284065	(73) Furukawa Electric Co., Ltd.
A61J 3/00	(21) EP16723413.7	(72) HATAMOTO, Kenji
(11) EP2609566	(22) 15.04.2016	YAMAZAKI, Satoshi
(21) EP11820775.2	(54) METHOD FOR VERIFYING A	YAMASHITA, Satoshi
(22) 29.08.2011	SECURITY DEVICE COMPRISING A	AIZAWA, Hideki
(54) PHARMACEUTICAL STORAGE AND	SIGNATURE	(74) J.M.H. Duyver lic.
RETRIEVAL SYSTEM	(73) IDEMIA France	(31) 2017207668
(73) RxSafe, LLC	(72) MOREL, Yvonnick	(32) 26.10.2017
(72) GAASCH, Thomas, F.	BERTHE, Benoit	(33) Japan
HOLMES, William, K.	VANDROUX, Coralie	(47) 09.03.2022
JAMES, Michael	(74) ir. W.J.J.M. Kempes	(51) H01B 1/04
(74) dr. A. Ellens c.s.	(31) 1553437	C01B 32/168
(31) 870045	(32) 17.04.2015	D02G 3/16
(32) 27.08.2010	(33) France	D02G 3/26
(33) United States of America	(47) 12.01.2022	H01B 5/08
(47) 23.02.2022	(51) G08B 13/08	H01B 7/00
(51) G06T 5/00	H05K 5/02	D02G 3/28
(11) EP3729365	E05B 41/00	H01B 5/10
(21) EP18834095.4	E05C 3/04	(11) EP3703079
(22) 12.12.2018	E05B 17/00	(21) EP18871564.3
(54) IMPROVED INVERSE TONE MAPPING	E05B 15/16	(22) 26.10.2018
METHOD AND CORRESPONDING	E05B 35/00	(54) CARBON NANOTUBE COMPOSITE
DEVICE	(11) EP3327687	WIRE, CARBON NANOTUBE-
(73) InterDigital VC Holdings, Inc.	(21) EP16200221.6	COATED ELECTRIC WIRE, AND WIRE
(72) GUERMOUD, Hassane	(22) 23.11.2016	HARNES, ROBOT WIRING, AND
POULI, Tania	(54) A DEVICE AND A METHOD FOR	OVERHEAD LINE
CAUVIN, Laurent	INDICATING WHEN A FIRST ELEMENT	(73) Furukawa Electric Co., Ltd.
KERVEC, Jonathan	IS RELEASABLE FROM A SECOND	(72) AIZAWA, Hideki
(74) dr. R.C. van Duijvenbode c.s.	ELEMENT	YAMASHITA, Satoshi
(31) 17306862	(73) Verisure Säril	YAMAZAKI, Satoshi
(32) 21.12.2017	(72) Mårtensson, Henrik	HATAMOTO, Kenji
(33) European Patent Office (EPO)	(74) drs. A.A. Jilderda	(74) J.M.H. Duyver lic.
(47) 09.02.2022	(47) 19.01.2022	(31) 2017207667
(51) G06T 7/00	(51) G16H 40/00	(32) 26.10.2017
(11) EP3407297	A61B 5/0245	(33) Japan
(21) EP18172802.3	A61B 5/024	(47) 09.03.2022
(22) 17.05.2018	A61B 5/00	(51) H01B 13/06
(54) METHOD AND DEVICE FOR	(11) EP3430994	(11) EP3807911
DETERMINING A CHARACTERISTIC	(21) EP16893882.7	(21) EP19734288.4
OF A DISPLAY DEVICE	(22) 15.03.2016	(22) 14.06.2019
(73) InterDigital CE Patent Holdings	(54) SIGN PARAMETER DISPLAY METHOD	(54) METHOD FOR PRODUCING PAINT-
(72) DUCHENE, Sylvain	AND SYSTEM	COATED ELECTRICAL STRIPS AND
STAUDER, Jürgen	(73) Shenzhen Mindray Bio-Medical	PAINT-COATED ELECTRICAL STRIP
ROBERT, Philippe	Electronics Co., Ltd	(73) voestalpine Stahl GmbH
(74) dr. R.C. van Duijvenbode c.s.	(72) CHEN, Guanglei	(72) FLUCH, Ronald
(31) 17305600	XU, Cong	STRAUSS, Bernhard
(32) 23.05.2017	LIU, Zhonghua	TIEFENTHALLER, Roman
(33) European Patent Office (EPO)	FANG, Hao	(74) ir. W.J.J.M. Kempes
(47) 09.02.2022	SUN, Yawei	(31) 102018209553
(51) G06T 7/50	GUAN, Fangyong	(32) 14.06.2018
G06T 7/593	(74) ir. A.E. Dekker-Garms	(33) Germany
(11) EP3510561	(47) 23.02.2022	(47) 09.03.2022
(21) EP17794764.5	(51) H01B 1/04	(51) H01F 27/04
(22) 12.09.2017	B82Y 30/00	(11) EP3427276
(54) PREDICTING DEPTH FROM IMAGE	C01B 32/168	(21) EP17720444.3
DATA USING A STATISTICAL MODEL	D02G 3/16	(22) 26.04.2017
(73) Niantic, Inc.	D02G 3/26	(54) TRANSFORMER WITH INSERTABLE
(72) MAC AODHA, Oisín	H01B 5/08	HIGH-VOLTAGE BUSHINGS
GODARD, Clement	H01B 7/00	(73) Siemens Energy Global GmbH & Co. KG
BROSTOW, Gabriel	C01B 32/158	(72) Ettl, Christian
(74) ir. H.J.G. Lips c.s.	D02G 3/28	(74) dr. R.C. van Duijvenbode c.s.
(31) 201615470	(11) EP3703077	(31) 102016207405
(32) 12.09.2016	(21) EP18869654.6	(32) 29.04.2016

(33) Germany	H01L 23/64	(54) SUPERCONDUCTIVE JUNCTION, SUPERCONDUCTING APPARATUS AND CONTROL METHOD OF SUPERCONDUCTING JUNCTION
(47) 19.01.2022	H01L 25/065	(73) Teknologian tutkimuskeskus VTT Oy
(51) H01J 65/04	H01L 23/50	(72) KIVIRANTA, Mikko
H01J 61/06	H01L 25/16	(74) ir. W.J.J.M. Kempes
(11) EP3648145	(11) EP3462478	(31) 20166053
(21) EP18204301.8	(21) EP18191575.2	(32) 30.12.2016
(22) 05.11.2018	(22) 29.08.2018	(33) Finland
(54) VACUUM ULTRAVIOLET EXCIMER LAMP WITH AN INNER AXIALLY SYMMETRIC WIRE ELECTRODE	(54) SEMICONDUCTOR PACKAGE WITH RING-IN-RING STIFFENERS AND METHODS OF ASSEMBLING SAME	(47) 02.02.2022
(73) Xylem Europe GmbH	(73) INTEL Corporation	(51) H01M 4/02
(72) SALVERMOSER, Manfred	(72) CHEAH, Bok Eng	H01M 4/13
FIEKENS, Ralf	KONG, Jackson Chung Peng	H01M 4/24
WOJCIECHOWSKI, André	OOI, Kooi Chi	H01M 4/72
KANIGOWSKI, Uwe	ONG, Paik Wen	H01M 4/74
BRÜGGEMANN, Nicole	(74) ir. W.J.J.M. Kempes	H01M 4/80
FIETZEK, Reiner	(31) PI2017703694	H01M 10/30
(74) dr. P.L. Ringeling	(32) 29.09.2017	H01M 12/08
(47) 05.01.2022	(33) Malaysia	(11) EP3676894
(51) H01L 21/285	(47) 09.03.2022	(21) EP18758887.6
H01L 21/768	(51) H01L 25/075	(22) 29.08.2018
H01L 29/08	F21K 9/232	(54) ELECTRODE WITH CURRENT COLLECTION MULTIPLE ARRAY
H01L 29/41	H01L 33/48	(73) Centre National de la Recherche Scientifique
H01L 29/45	H01L 33/62	Institut Polytechnique de Grenoble
H01L 29/49	H01L 33/64	(72) DUBAU, Laetitia
H01L 29/78	(11) EP3316300	CHATENET, Marian
(11) EP3563410	(21) EP17194679.1	CALDEIRA, Vincent
(21) EP16925191.5	(22) 04.10.2017	(74) J.M.H. Duyver lic.
(22) 30.12.2016	(54) LIGHT-EMITTING DIODE FILAMENT WITH A HEAT-DISSIPATING STRUCTURE AND LIGHT BULB USING THE SAME	(31) 1758012
(54) CONTACT ARCHITECTURE FOR CAPACITANCE REDUCTION AND SATISFACTORY CONTACT RESISTANCE	(73) Liquidleds Lighting Corp.	(32) 30.08.2017
(73) INTEL Corporation	(72) HUANG, David	(33) France
(72) LIAO, Szuya S.	(74) dr. ir. G.J.C. Verdijck c.s.	(47) 23.02.2022
TROEGER, Thomas T.	(31) 105144112	(51) H01M 4/38
MEHANDRU, Rishabh	105134627	H01M 4/134
PATEL, Pratik A.	(32) 30.12.2016	H01M 4/13
(74) ir. W.J.J.M. Kempes	26.10.2016	H01M 10/0585
(47) 16.02.2022	(33) Taiwan, Province of China	H01M 10/052
(51) H01L 21/67	Taiwan, Province of China	H01M 10/04
(11) EP3840024	(47) 23.02.2022	H01M 50/446
(21) EP19218508.0	(51) H01L 27/11565	H01M 50/46
(22) 20.12.2019	H01L 27/1157	H01M 4/02
(54) MODULE FOR CHEMICALLY PROCESSING A SUBSTRATE	H01L 27/11573	(11) EP3641030
(73) Semsysco GmbH	H01L 27/11575	(21) EP19197127.4
(72) Ötzlinger, Herbert	H01L 27/11582	(22) 13.03.2014
Knoll, Oliver	(11) EP3480849	(54) THREE-DIMENSIONAL BATTERIES
Gleissner, Andreas	(21) EP18189981.6	(73) Enovix Corporation
Schröder, Raoul	(22) 21.08.2018	(72) LAHIRI, Ashok
(74) J.M.H. Duyver lic.	(54) THREE-DIMENSIONAL SEMICONDUCTOR MEMORY DEVICE	LAUHLAN, Laurie J.
(47) 16.02.2022	(73) Samsung Electronics Co., Ltd.	RAMASUBRAMANIAN, Murali
(51) H01L 21/677	(72) SON, Younghwan	SPOTNITZ, Robert M.
(11) EP3220413	KANG, Seo-goo	SHAH, Nirav
(21) EP16160367.5	JO, Kwonsoon	DIOUMAEV, Vladimir
(22) 15.03.2016	KANAMORI, Kohji	BRUSCA, Brian E.
(54) SERVICE DEVICE	(74) ir. H.A. Witmans c.s.	ARMSTRONG, Michael
(73) Integrated Dynamics Engineering GmbH	(31) 20170147522	RUST III, Harrold Jones
(72) Schadt, Simon	(32) 07.11.2017	WILCOX, James D.
Evers, Arndt	(33) Korea (Republic)	KOBLMILLER, Gunther
Birkner, Andreas	(47) 30.03.2022	(74) dr. R.C. van Duijvenbode c.s.
(74) ir. F.A. Geurts c.s.	(51) H01L 39/02	(31) 201361800235 P
(47) 26.01.2022	H01L 39/22	(32) 15.03.2013
(51) H01L 23/00	H01L 39/24	(33) United States of America
H01L 23/498	(11) EP3563430	(47) 02.03.2022
H01L 23/538	(21) EP17829221.5	(51) H01Q 1/32
	(22) 28.12.2017	H01Q 9/32
		H01Q 5/335

H01Q 5/50	(72) SPINELLA, Igor	(51) H04L 12/24
H03H 7/38	(74) ir. F.A. Geurts c.s.	H04L 12/931
(11) EP3231036	(31) RE20120021	(11) EP3041173
(21) EP15797686.1	(32) 02.04.2012	(21) EP16155677.4
(22) 23.11.2015	(33) Italy	(22) 03.05.2011
(54) BENDABLE MONOPOLE ANTENNA FOR USE IN MOBILE ENVIRONMENTS	(47) 19.01.2022	(54) VIRTUAL CLUSTER SWITCHING
(73) Antennentechnik Bad Blankenburg GmbH	(51) H04B 10/50	(73) Avago Technologies International Sales Pte. Limited
(72) BULBIN, Yuri	H04B 10/077	(72) HARIS, Shiv
(74) ir. W.J.J.M. Kempes	H04B 10/075	VOBBILISSETTY, Suresh
(31) 202015001905 U	(11) EP3381138	NARAYANASAMY, Senthilkumar
202014009872 U	(21) EP16874845.7	GUNTAKA, Vidyasagara R.
(32) 11.03.2015	(22) 14.12.2016	CHATWANI, Dilip
12.12.2014	(54) ON-CHIP TEST INTERFACE FOR VOLTAGE-MODE MACH-ZEHNDER MODULATOR DRIVER	KOGANTI, Phanidhar
(33) Germany	(73) Huawei Technologies Co., Ltd.	WILLEKE, Jesse B
Germany	(72) DESHPANDE, Mamatha	(74) ir. W.J.J.M. Kempes
(47) 05.01.2022	LEE, Hungyi	(31) 201113098490
(51) H01R 13/635	DUAN, Yan	201113098360
H01R 13/627	CAO, Yuming	201113092752
(11) EP3477788	GU, Yifan	201113092460
(21) EP16906183.5	GU, Liang	201113092724
(22) 30.12.2016	DANG, Yen	201113092877
(54) PLUG MODULE AND SMART TABLET	SANG, Yen	201113092701
(73) Guangzhou Shirui Electronics Co., Ltd.	SHIH, Shou-Po	201113092580
(72) HU, Chan	LEI, Gong	201113087239
(74) J.M.H. Duyver lic.	(74) ir. W.J.J.M. Kempes	201113042259
(31) 201620657779 U	(31) 201514969613	380807 P
(32) 24.06.2016	(32) 15.12.2015	380803 P
(33) China	(33) United States of America	380819 P
(47) 16.02.2022	(47) 02.02.2022	380818 P
(51) H02J 7/00	(51) H04L 1/18	352819 P
H02J 13/00	H04L 1/16	352776 P
H02J 3/32	(11) EP3533166	352264 P
H02J 3/00	(21) EP17801115.1	352255 P
B60L 53/68	(22) 25.10.2017	350838 P
(11) EP2537226	(54) INSTANT UPLINK ACCESS WITHOUT ALWAYS ON FEEDBACK	349603 P
(21) EP10846285.4	(73) Telefonaktiebolaget LM Ericsson (publ)	345953 P
(22) 22.09.2010	(72) ARSHAD, Malik Wahaj	334945 P
(54) ELECTRIC VEHICLE STATION EQUIPMENT FOR GRID-INTEGRATED VEHICLES	KARAKI, Reem	333666 P
(73) Nuvve Corporation	DUDDA, Torsten	330678 P
(72) WAITE, Nick	WIKSTRÖM, Gustav	(32) 02.05.2011
KEMPTON, Willett	(74) ir. A. Blokland c.s.	29.04.2011
KIAMILEV, Fouad	(31) 201662412901 P	22.04.2011
MCGEE, Rodney, Thomas Tyler	(32) 26.10.2016	22.04.2011
(74) dr. R.C. van Duijvenbode c.s.	(33) United States of America	22.04.2011
(31) 887013	(47) 05.01.2022	22.04.2011
305743 P	(51) H04L 5/00	22.04.2011
(32) 21.09.2010	H04W 74/08	14.04.2011
18.02.2010	(11) EP3621239	07.03.2011
(33) United States of America	(21) EP19205372.6	08.09.2010
United States of America	(22) 28.09.2017	08.09.2010
(47) 12.01.2022	(54) PRACH AND/OR SRS SWITCHING ENHANCEMENTS	08.09.2010
(51) H02M 3/335	(73) QUALCOMM Incorporated	08.09.2010
H02M 1/00	(72) RICO ALVARINO, Alberto	08.06.2010
H02M 3/00	XU, Hao	08.06.2010
H02J 7/02	CHEN, Wanshi	07.06.2010
H02J 50/05	GAAL, Peter	07.06.2010
(11) EP3661040	SUN, Jing	02.06.2010
(21) EP20153947.5	(74) dr. R.C. van Duijvenbode c.s.	28.05.2010
(22) 19.03.2013	(31) 201715619063	18.05.2010
(54) METHOD AND APPARATUS FOR TRANSFERRING ELECTRICAL POWER BY MEANS OF CAPACITIVE COUPLING	201662402915 P	14.05.2010
(73) EGGTRONIC ENGINEERING S.P.A.	(32) 09.06.2017	11.05.2010
	30.09.2016	03.05.2010
	(33) United States of America	(33) United States of America
	United States of America	United States of America
	(47) 02.03.2022	United States of America

United States of America	H04N 19/134	H04N 21/435
United States of America	(11) EP3240290	H04N 21/8547
United States of America	(21) EP15872748.7	H04N 21/43
United States of America	(22) 11.12.2015	H04N 21/462
United States of America	(54) IMAGE PROCESSING APPARATUS	H04N 21/81
United States of America	AND IMAGE PROCESSING METHOD	(11) EP2498495
United States of America	(73) Sony Group Corporation	(21) EP12158183.9
United States of America	(72) NAKAGAMI, Ohji	(22) 06.03.2012
United States of America	(74) ir. W.J.J.M. Kempes	(54) Decoder and method at the decoder for
United States of America	(31) 2014265786	synchronizing the rendering of contents
United States of America	(32) 26.12.2014	received through different networks
United States of America	(33) Japan	(73) InterDigital Madison Patent Holdings
United States of America	(47) 23.03.2022	(72) Gautier, Eric
United States of America	(51) H04N 19/63	Gilberton, Philippe
United States of America	H04N 19/126	Laurent, Anthony
United States of America	H04N 19/62	(74) dr. R.C. van Duijvenbode c.s.
United States of America	H04N 19/23	(31) 11305271
United States of America	H04N 19/33	(32) 11.03.2011
United States of America	H04N 19/87	(33) European Patent Office (EPO)
United States of America	H04N 19/94	(47) 16.02.2022
(47) 26.01.2022	H04N 19/59	(51) H04N 21/236
(51) H04L 29/06	(11) EP2850832	H04N 21/238
H04L 29/08	(21) EP13724216.0	H04N 21/8547
(11) EP3869767	(22) 14.05.2013	H04N 21/2343
(21) EP21169017.7	(54) DECODING AND RECONSTRUCTION	H04N 21/262
(22) 07.04.2015	OF TIME-BASED AND/OR	H04N 21/434
(54) METHODS AND SYSTEMS FOR	MULTIDIMENSIONAL SIGNALS IN A	H04N 21/61
PROTECTING A SECURED NETWORK	TIERED TEMPORAL HIERARCHY	H04N 21/854
(73) Centripetal Networks Inc.	(73) V-NOVA INTERNATIONAL LTD	(11) EP3171606
(72) MOORE, Sean	(72) ROSSATO, Luca	(21) EP15844731.8
GEREMIA, Peter P.	MEARDI, Guido	(22) 14.09.2015
ROGERS, Steven	(74) dr. W.A.H.M. Van Borm	(54) INFORMATION PROCESSING DEVICE
AHN, David K	(31) 201261647426 P	AND INFORMATION PROCESSING
(74) dr. A. Krebs	201261646797 P	METHOD
(31) 201414253992	(32) 15.05.2012	(73) Sony Group Corporation
(32) 16.04.2014	14.05.2012	(72) HIRABAYASHI, Mitsuhiro
(33) United States of America	(33) United States of America	(74) ir. W.J.J.M. Kempes
(47) 05.01.2022	United States of America	(31) 2014197017
(51) H04L 29/08	(47) 05.01.2022	(32) 26.09.2014
H04W 76/25	(51) H04N 19/63	(33) Japan
H04W 52/02	H04N 19/126	(47) 23.03.2022
G06F 1/3287	H04N 19/62	(51) H04W 4/70
G06F 1/3234	H04N 19/23	H04W 4/90
(11) EP3758337	H04N 19/33	H04W 48/02
(21) EP20182331.7	H04N 19/87	H04W 74/08
(22) 25.06.2020	H04N 19/94	H04W 88/08
(54) DISPLAY DEVICE AND OPERATING	H04N 19/59	(11) EP3618316
METHOD THEREOF	(11) EP2850835	(21) EP19193176.5
(73) Samsung Electronics Co., Ltd.	(21) EP13722432.5	(22) 10.08.2012
(72) YOON, Sukun	(22) 14.05.2013	(54) METHOD AND DEVICE FOR MTCS
HAHM, Cheulhee	(54) ESTIMATION, ENCODING	BACKOFF DETERMINATION
SIM, Jaehwan	AND DECODING OF MOTION	(73) Samsung Electronics Co., Ltd.
KIM, Deoknam	INFORMATION IN MULTIDIMENSIONAL	(72) Kim, Soeng Hun
SHIM, Sangu	SIGNALS THROUGH MOTION ZONES,	Jang, Jae Hyuk
YU, Geunyoung	AND OF AUXILIARY INFORMATION	(74) dr. R.C. van Duijvenbode c.s.
PARK, Joohyoun	THROUGH AUXILIARY ZONES	(31) 20120086312
KIM, Jinho	(73) V-NOVA INTERNATIONAL LTD	201161563345 P
(74) dr. R.C. van Duijvenbode c.s.	(72) ROSSATO, Luca	201161559674 P
(31) 20190078276	MEARDI, Guido	201161545363 P
(32) 28.06.2019	(74) dr. W.A.H.M. Van Borm	201161531185 P
(33) Korea (Republic)	(31) 201261647426 P	201161521910 P
(47) 23.02.2022	201261646797 P	(32) 07.08.2012
(51) H04N 19/52	(32) 15.05.2012	23.11.2011
H04N 19/58	14.05.2012	14.11.2011
H04N 19/593	(33) United States of America	10.10.2011
H04N 19/105	United States of America	06.09.2011
H04N 19/176	(47) 05.01.2022	10.08.2011
H04N 19/70	(51) H04N 21/235	(33) Korea (Republic)

United States of America	(31) 201710011313	(47) 16.03.2022
United States of America	(32) 06.01.2017	(51) H04W 64/00
United States of America	(33) China	G01S 5/02
United States of America	(47) 02.03.2022	G01S 5/10
United States of America	(51) H04W 48/20	H04W 52/02
(47) 02.03.2022	H04W 48/14	H04W 76/28
(51) H04W 36/00	H04W 84/12	(11) EP3785474
H04W 8/22	(11) EP3567937	(21) EP19727137.2
H04W 36/12	(21) EP19175588.3	(22) 22.04.2019
(11) EP3361777	(22) 09.07.2014	(54) EXPLOITING DRX/CDRX
(21) EP18155628.3	(54) NETWORK ARCHITECTURE	PARAMETERS TO CONSERVE
(22) 07.02.2018	ENABLING A MOBILE TERMINAL TO	POWER DURING AN OBSERVED TIME
(54) DEVICE AND METHOD FOR	ROAM INTO A WIRELESS LOCAL	DIFFERENCE OF ARRIVAL (OTDOA)
HANDLING EVOLVED LONG-TERM	AREA NETWORK	SESSION
EVOLUTION NETWORK	(73) ORANGE	(73) QUALCOMM INCORPORATED
(73) HTC Corporation	(72) CHEN, Xiaobao	(72) ARAVAPALLI, Naveen Kumar
(72) WU, Chih-Hsiang	(74) ir. W.J.J.M. Kempes	BITRA, Suresh Kumar
(74) dr. R.C. van Duijvenbode c.s.	(31) 13305973	KOTHAPALLI, Prudhvi
(31) 201762456673 P	(32) 09.07.2013	(74) dr. R.C. van Duijvenbode c.s.
(32) 09.02.2017	(33) European Patent Office (EPO)	(31) 201815960531
(33) United States of America	(47) 26.01.2022	(32) 23.04.2018
(47) 09.02.2022	(51) H04W 52/02	(33) United States of America
(51) H04W 36/02	(11) EP3556148	(47) 09.03.2022
H04W 36/00	(21) EP16822628.0	(51) H04W 72/04
H04L 12/801	(22) 14.12.2016	H04L 1/18
H04W 28/10	(54) WAKE-UP RADIO	H04W 52/14
(11) EP2528385	(73) Telefonaktiebolaget LM Ericsson (publ)	H04W 52/16
(21) EP12171707.8	(72) OLSSON, Thomas	H04W 52/32
(22) 26.04.2007	WILHELMSSON, Leif	H04L 5/00
(54) Mobile station with packet reordering	LOPEZ, Miguel	H04B 7/26
function	(74) ir. A. Blokland c.s.	(11) EP3267751
(73) FUJITSU LIMITED	(47) 02.02.2022	(21) EP17183161.3
(72) Tajima, Yoshiharu	(51) H04W 52/36	(22) 08.08.2011
Obuchi, Kazuhisa	H04W 52/14	(54) TRANSMISSION OF HARQ CONTROL
Sugiyama, Katsumasa	H04W 52/28	INFORMATION FROM A USER
Kawasaki, Yoshihiro	H04W 52/34	EQUIPMENT FOR DOWNLINK
Ohta, Yoshiaki	(11) EP3095284	CARRIER AGGREGATION
Tanaka, Yoshinori	(21) EP15735108.1	(73) Samsung Electronics Co., Ltd.
(74) ir. C.G.C. Veldman-Dijkers	(22) 13.01.2015	(72) Kim, Young-Bum
(47) 30.03.2022	(54) UPLINK TRANSMISSIONS FOR DUAL	Papasakellariou, Aris
(51) H04W 36/28	CONNECTIVITY	(74) dr. R.C. van Duijvenbode c.s.
H04W 76/15	(73) Samsung Electronics Co., Ltd.	(31) 371861 P
H04W 36/08	(72) NG, Boon Loong	(32) 09.08.2010
(11) EP3466187	PAPASAKELLARIOU, Aris	(33) United States of America
(21) EP16903314.9	(74) dr. R.C. van Duijvenbode c.s.	(47) 02.03.2022
(22) 25.05.2016	(31) 201514591756	(51) H04W 72/04
(54) CONNECTION ESTABLISHMENT IN A	201461926822 P	H04L 5/00
5G RADIO ACCESS NETWORK	(32) 07.01.2015	(11) EP3379879
(73) Nokia Technologies Oy	13.01.2014	(21) EP18170418.0
(72) TALUKDAR, Anup	(33) United States of America	(22) 27.03.2013
CUDAK, Mark	United States of America	(54) METHOD AND USER EQUIPMENT FOR
AWADA, Ahmad	(47) 02.03.2022	COMMUNICATING AN EPDCCH
(74) ir. W.J.J.M. Kempes	(51) H04W 56/00	(73) Telefonaktiebolaget LM Ericsson (publ)
(47) 12.01.2022	(11) EP3332588	(72) FRENNE, Mattias
(51) H04W 48/08	(21) EP16738782.8	HAMMARWALL, David
H04J 11/00	(22) 13.07.2016	ERIKSSON, Erik
H04L 5/00	(54) MOBILE COMMUNICATIONS DEVICES	JÖNGREN, George
H04W 48/12	AND METHODS	(74) ir. A. Blokland c.s.
(11) EP3556164	(73) Sony Group Corporation	(31) 201261707555 P
(21) EP18736594.5	(72) KAHTAVA, Jussi Tapani	(32) 28.09.2012
(22) 05.01.2018	WAKABAYASHI, Hideji	(33) United States of America
(54) METHOD AND DEVICE FOR	MARTIN, Brian Alexander	(47) 05.01.2022
TRANSMITTING SIGNALS	TSUDA, Shinichiro	(51) H04W 72/12
(73) Samsung Electronics Co., Ltd.	(74) ir. W.J.J.M. Kempes	(11) EP3713360
(72) ZHANG, Shichang	(31) 15181639	(21) EP20173700.4
WANG, Yi	(32) 19.08.2015	(22) 04.05.2018
LI, Yingyang	(33) European Patent Office (EPO)	
(74) dr. R.C. van Duijvenbode c.s.		

(54) SCHEDULING REQUEST IN A WIRELESS DEVICE AND WIRELESS NETWORK	United States of America (47) 16.03.2022	(21) EP18714449.8 (22) 13.03.2018
(73) Ofinno, LLC	(51) H04W 74/08	(54) CONFIGURABLE WIRELESS DEVICE NETWORK
(72) PARK, Kyungmin DINAN, Esmael JEON, Hyoungsuk BABAEI, Alireza	(11) EP3318098 (21) EP16731486.3 (22) 14.06.2016	(73) Telecom Italia S.p.A. (72) COLLOTTA, Ivano MELIS, Bruno DELL'AERA, Gian, Michele SORBARA, Davide
(74) mr. ir. J. van Breda c.s.	(54) SCHEDULING ASSIGNMENT TRANSMISSIONS IN DEVICE-TO-DEVICE COMMUNICATIONS	(74) ir. J.C. Volmer c.s.
(31) 201762514292 P 201762501556 P	(73) QUALCOMM Incorporated	(31) 201700035262
(32) 02.06.2017 04.05.2017	(72) JIANG, Libin PATIL, Shailesh GULATI, Kapil	(32) 30.03.2017 (33) Italy
(33) United States of America United States of America	(54) TAVILDAR, Saurabha, Rangrao BAGHEL, Sudhir, Kumar	(47) 19.01.2022
(47) 05.01.2022	(74) dr. R.C. van Duijvenbode c.s.	(51) H05K 1/18
(51) H04W 74/00	(31) 201615181204	H01L 21/683
(11) EP3753353	201562188302 P	H01L 25/075
(21) EP19705752.4	(32) 13.06.2016	H01L 33/60
(22) 15.02.2019	02.07.2015	H01L 23/00
(54) RESOURCE BLOCK ASSIGNMENT FOR MSG3 TRANSMISSION	(33) United States of America United States of America	(11) EP3714663 (21) EP18839895.2 (22) 20.11.2018
(73) Telefonaktiebolaget LM Ericsson (publ)	(47) 02.03.2022	(54) LIGHT INDUCED SELECTIVE TRANSFER OF COMPONENTS
(72) LIN, Xingqin CHENG, Jung-Fu	(51) H04W 76/27 H04W 76/19	(73) Nederlandse Organisatie voor toegepast-natuurwetenschappelijk onderzoek TNO
(74) ir. A. Blokland c.s.	(11) EP3845029	(72) ARUTINOV, Gari STOUTE, Ronald SMITS, Edsger Constant Pieter
(31) 201862710433 P	(21) EP19835908.5	(74) ir. H.A. Witmans c.s.
(32) 16.02.2018	(22) 04.11.2019	(31) 17202786
(33) United States of America	(54) METHOD FOR HANDLING A MOBILITY MANAGEMENT STATE TRANSITION AFTER FALLBACK TO RRC ESTABLISHMENT AND A USER EQUIPMENT	(32) 21.11.2017 (33) European Patent Office (EPO)
(47) 05.01.2022	(73) Google LLC	(47) 05.01.2022
(51) H04W 74/00 H04L 5/00 H04J 11/00 H04W 74/08	(72) WU, Chih-Hsiang (74) ir. H.A. Witmans c.s.	
(11) EP3751944	(31) 201862755919 P	
(21) EP20184959.3	(32) 05.11.2018	
(22) 07.01.2009	(33) United States of America	
(54) DEVICES AND METHODS FOR TRANSMITTING RANDOM ACCESS PREAMBLE	(47) 12.01.2022	
(73) Samsung Electronics Co., Ltd.	(51) H04W 76/27 H04W 92/18 H04W 76/14 H04W 4/40 H04W 28/02	
(72) LI, Xiaoqiang ZHANG, Yujian LI, Yingyang	(11) EP3772232	
(74) dr. R.C. van Duijvenbode c.s.	(21) EP20187467.4	
(31) 200810002414	(22) 23.07.2020	
(32) 07.01.2008	(54) METHOD AND APPARATUS FOR RELEASING SIDELINK RADIO BEARER IN A WIRELESS COMMUNICATION SYSTEM	
(33) China	(73) ASUSTek Computer Inc.	
(47) 02.03.2022	(72) KUO, Richard Lee-Chee PAN, Li-Te	
(51) H04W 74/00 H04W 74/08	(74) dr. ir. G.J.C. Verdijk c.s.	
(11) EP3479641	(31) 202016935807	
(21) EP17784113.7	201962931485 P	
(22) 27.09.2017	201962882199 P	
(54) METHOD AND APPARATUS FOR RANDOM ACCESS FOR FLEXIBLE RADIO COMMUNICATION	(32) 22.07.2020	
(73) Motorola Mobility LLC	06.11.2019	
(72) JUNG, Hyejung NORY, Ravikiran NANGIA, Vijay AHMAD, Ziad	02.08.2019	
(74) ir. H.A. Witmans c.s.	(33) United States of America United States of America United States of America	
(31) 201715595947 201662402825 P	(47) 19.01.2022	
(32) 16.05.2017 30.09.2016	(51) H04W 88/04	
(33) United States of America	(11) EP3603328	

EP4

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

(51) B29C 55/28	(31) 200101466	201406155
B29C 71/02	(32) 04.10.2001	201406151
B32B 27/08	(33) Denmark	PCT/GB2014/050175
B29L 9/00	(47) 20.02.2008	(32) 12.09.2014
(11) EP1993809	(51) C07K 14/82	04.04.2014
(21) EP07731004.3	A61K 31/404	04.04.2014
(22) 16.02.2007	A61K 31/4412	22.01.2014
(54) METHOD FOR MAKING A MULTILAYER FILM	A61K 31/444	(33) United Kingdom
(73) LINPAC PACKING PONTIVY	A61K 31/513	United Kingdom
(72) LE DUGOU, Thierry	A61K 31/517	United Kingdom
(31) 0601790	C12Q 1/6886	World Intellectual Property Office (WIPO)
(32) 28.02.2006	C12N 9/14	(47) 14.11.2018
(33) France	C12N 15/113	(51) H01L 33/62
(47) 19.09.2012	A61K 31/47	H01L 33/54
(51) B42D 25/23	(11) EP2748192	H01L 33/48
B42D 25/333	(21) EP12825669.0	(11) EP3392920
B42D 25/24	(22) 23.08.2012	(21) EP18175319.5
B42D 25/378	(54) KIF5B-RET FUSION MOLECULES AND USES THEREOF	(22) 17.12.2008
B42D 25/425	(73) Foundation Medicine, Inc.	(54) LIGHT EMITTING DEVICE
B42D 25/351	(74) ir. F.A. Geurts c.s.	(73) Seoul Semiconductor Co., Ltd.
B42D 25/328	(72) DOWNING, Sean, R.	(74) mr. R. Zwamborn
B42D 25/355	HAWRYLUK, Matthew, J.	(72) Cho, Jae Ho
B42D 25/47	PARKER, Alexander, N.	Kim, Bang Hyun
(11) EP3209502	LIPSON, Doron	Seo, Eun Jung
(21) EP15791342.7	STEPHENS, Philip, James	(31) 20080114624
(22) 21.10.2015	(31) 201261594739 P	(32) 18.11.2008
(54) IMPROVEMENTS IN SECURITY PAPERS AND DOCUMENTS	201161542112 P	(33) Korea (Republic)
(73) PORTALS PAPER LIMITED	201161537024 P	(47) 27.10.2021
(74) ir. H.J.G. Lips c.s.	201161526613 P	(51) H05B 37/02
(72) STEWART, Georgina	(32) 03.02.2012	(11) EP2856845
HENDERSON, Peter McLean	30.09.2011	(21) EP13741841.4
SUGDON, Matthew Charles	20.09.2011	(22) 04.06.2013
(31) 201418856	23.08.2011	(54) A METHOD FOR PROVIDING PRIVACY PROTECTION IN NETWORKED LIGHTING CONTROL SYSTEMS
(32) 23.10.2014	(33) United States of America	(73) Signify Holding B.V.
(33) United Kingdom	United States of America	(74) drs. O. Griebing
(47) 10.10.2018	United States of America	(72) PATEL, Maulin Dahyabhai
(51) C07D 295/096	(47) 14.11.2018	MANI, Murali
C07D 241/04	(51) C12Q 1/6816	(31) 201261655029 P
C07D 243/08	C12Q 1/6834	(32) 04.06.2012
C07D 211/20	C12Q 1/6869	(33) United States of America
C07D 211/70	C12N 9/00	(47) 30.08.2017
A61K 31/44	(11) EP3097210	
A61K 31/4965	(21) EP15704360.5	
A61P 25/00	(22) 22.01.2015	
(11) EP1436271	(54) METHOD FOR ATTACHING ONE OR MORE POLYNUCLEOTIDE BINDING PROTEINS TO A TARGET POLYNUCLEOTIDE	
(21) EP02800051.1	(73) Oxford Nanopore Technologies Limited	
(22) 02.10.2002	(74) dr. W.A.H.M. Van Borm	
(54) PHENYL-PIPERAZINE DERIVATIVES AS SEROTONIN REUPTAKE INHIBITORS	(72) LLOYD, Joseph, Hargreaves	
(73) H. LUNDBECK A/S	YOUNG, Christopher, Peter	
(72) MOLTZEN, Ejner, Knud	WHITE, James	
BANG-ANDERSEN, Benny	BROWN, Clive	
SMITH, Garrick, Paul	HERON, Andy	
ANDERSEN, Kim	TURNER, Daniel, John	
RUHLAND, Thomas	BOWEN, Rebecca	
PÜSCHL, Ask	(31) 201416197	

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) A46B 9/06	03.09.2004	(51) B01L 3/00
A46B 15/00	25.02.2005	(11) EP2821138
(11) EP1661487	(33) Malaysia	(21) EP13175335.2
(21) EP06002599.6	World Intellectual Property Office (WIPO)	(22) 05.07.2013
(22) 20.12.2002	European Patent Office (EPO)	(54) Flow cell with integrated dry substance
(54) Toothbrush and method for production of such a toothbrush	(47) 11.05.2011	(73) THINXXS MICROTECHNOLOGY AG
(73) Trisa Holding AG	(51) A61K 47/60	(72) Röser, Tina
(72) Strähler, Reto	A61K 38/27	Weber, Lutz
Fischer, Franz	A61P 13/12	(74) ir. F.A. Geurts c.s.
(74) ir. H.A. Witmans c.s.	A61P 43/00	(47) 24.10.2018
(31) 10164336	A61P 5/06	(51) B66B 5/00
(32) 28.12.2001	(11) EP3653227	(11) EP3009389
(33) Germany	(21) EP19214864.1	(21) EP15189890.5
(47) 11.02.2009	(22) 17.11.2015	(22) 15.10.2015
(51) A61K 9/06	(54) NOVEL POLYMERIC HGH PRODRUGS	(54) METHOD FOR SETTING PARAMETERS OF A LIFT ASSEMBLY AND LIFT ASSEMBLY COMPRISING A USER INTERFACE FOR PARAMETERIZATION
A61K 47/10	(73) ASCENDIS PHARMA	(73) K-Solutions GmbH
A61K 47/32	ENDOCRINOLOGY DIVISION A/S	(72) Kollmorgen, Dipl.-Ing. Lars Rudolf
A61K 47/38	(72) Kurpiers, Thomas	(74) mr. ir. J. van Breda c.s.
A61K 31/496	Rasmussen, Grethe Nørskov	(31) 102014114928
A61P 25/18	Hermann, Alina	(32) 15.10.2014
A61P 25/24	Rau, Harald	(33) Germany
(11) EP2841054	Exner, Evelyn	(47) 05.12.2018
(21) EP13728542.5	Jensen, Steen	(51) C09K 8/36
(22) 23.04.2013	Lessmann, Torben	(11) EP2817382
(54) INJECTABLE PREPARATION	Zettler, Joachim	(21) EP13705396.3
(73) Otsuka Pharmaceutical Co., Ltd.	Schubert, Nina	(22) 20.02.2013
(72) HOSHIKA, Yusuke	Wegge, Thomas	(54) COMPOSITION COMPRISING AN ALKOXYLATED AMINE COMPOUND AND A CARBOXYLIC ACID COMPOUND, USE THEREOF IN WATER IN OIL EMULSIONS AND PROCESS USING THE COMPOSITION AS OR AS PART OF A DRILLING FLUID
MATSUDA, Takakuni	Splanemann, Anna	(73) Sasol Performance Chemicals GmbH
KANEKO, Daiki	(74) dr. R.C. van Duijvenbode c.s.	(72) BÖSING, Ludger
(74) ir. W.J.J.M. Kempes	(31) 14193603	NAPIERALA, Heinz
(31) 201361792089 P	(32) 18.11.2014	(74) ir. W.J.J.M. Kempes
201261636938 P	(33) European Patent Office (EPO)	(31) 102012003224
(32) 15.03.2013	(47) 20.01.2021	(32) 20.02.2012
23.04.2012	(51) A61M 15/06	(33) Germany
(33) United States of America	A24F 40/485	(47) 05.04.2017
United States of America	A24F 40/10	(51) C12Q 1/68
(47) 26.06.2019	A61M 11/04	G01N 33/574
(51) A61K 31/505	A61M 21/00	(11) EP2121989
A61P 31/18	A61M 16/00	(21) EP08742061.8
(11) EP1632232	(11) EP2809182	(22) 11.03.2008
(21) EP05108086.9	(21) EP13743051.8	(54) K-RAS MUTATIONS AND ANTI-EGFR ANTIBODY THERAPY
(22) 02.09.2005	(22) 31.01.2013	(73) Amgen Inc.
(54) Salt of 4[[4-[[4-(2-Cyanoethyl)-2,6-dimethylphenyl]amino]-2-Pyrimidinyl]amino]benzotrile	(54) ELECTRONIC SMOKING ARTICLE	(72) FREEMAN, Daniel
(73) Janssen Pharmaceutica NV	(73) Altria Client Services LLC	RADINSKY, Robert
(72) Stevens, Paul, Theodoor, Agnes Vandecruys, Roger, Petrus, Gerebern Peeters, Jozef	(72) TUCKER, Christopher S.	JUAN, Todd
Stappers, Alfred, Elisabeth Copmans, Alex, Herman	KARLES, Georgios	(74) dr. R.C. van Duijvenbode c.s.
(74) ir. W.J.J.M. Kempes	SMITH, Barry S.	(31) 906943 P
(31) 0403578	MISHRA, Munmaya K.	
PCT/EP2004/052028	ROSTAMI, Ali A.	
05101467	LI, San	
(32) 02.09.2004	JORDAN, Geoffrey Brandon	
	LI, Weiling	
	(74) ir. H.A. Witmans c.s.	
	(31) 201261593004 P	
	(32) 31.01.2012	
	(33) United States of America	
	(47) 31.01.2018	

(32) 13.03.2007
(33) United States of America
(47) 22.01.2014

(51) F04D 29/70
 A01K 63/04
 C02F 1/32
(11) EP1766245
(21) EP05747227.6
(22) 03.06.2005
(54) A PUMP UNIT
(73) Exel Industries S.A.
(72) YUNG, Phong Yui
 PATEL, Kaushik, Ishwarbhai

(74) ir. H.J.G. Lips c.s.

(31) 0412983
 639711 P

(32) 10.06.2004
 23.12.2004

(33) United Kingdom
 United States of America

(47) 21.02.2018

SPC

Ingeschreven en verleende certificaten.

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

(21) 301169

(22) 12.04.2022

(11) 301169

(74) A. Rivière

(68) EP3366293

(54) DIHYDRONAPHTHYRIDINES AND
RELATED COMPOUNDS USEFUL
AS KINASE INHIBITORS FOR THE
TREATMENT OF PROLIFERATIVE
DISEASES

(94) 1631

(95) Ripretinib of een farmaceutisch
aanvaardbaar zout daarvan

(93) EU/1/21/1569 24.11.2021

VB1

Rechten waarvoor een verzoek of bezwaarschrift is ingediend conform Octrooiwet 1995 en de Algemene Wet Bestuursrecht.

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

(11) 300677	A61K 9/19	B42D 25/41
(00) 19.04.2022	A61K 38/18	B42D 25/45
(00) Appeal	A61P 25/00	(00) 25/21
(00) AstraZeneca AB	(00) 22/21	23.06.2021
(11) EP1941942	02.06.2021	(11) EP3407756
(51) B01D 53/94	(11) EP3293208	(51) A45D 34/00
B01J 23/44	(51) C08F 2/00	A45D 34/04
(00) 24/21	C08L 23/06	A45D 44/00
16.06.2021	C08L 23/08	(00) 24/21
(11) EP2225110	(00) 24/21	16.06.2021
(51) B42D 15/00	16.06.2021	(11) EP3409828
B42D 25/00	(11) EP3294264	(51) D06F 75/24
(00) 24/21	(51) A61K 8/44	D06F 75/26
16.06.2021	A61K 8/46	(00) 26/21
(11) EP2658939	A61K 8/49	30.06.2021
(51) C09J 103/04	A61K 8/73	(11) EP3424748
(00) 24/21	A61Q 5/06	(51) B60B 3/00
16.06.2021	(00) 25/21	B60B 3/16
(11) EP2906341	23.06.2021	(00) 23/21
(51) B01D 53/62	(11) EP3295808	09.06.2021
B01J 20/18	(51) A23L 27/30	(11) EP3484702
B01J 20/28	A23L 29/30	(51) B32B 5/02
B01J 20/30	(00) 24/21	B32B 5/26
C01B 39/14	16.06.2021	B32B 7/14
C01B 39/20	(11) EP3342786	B32B 27/12
(00) 24/21	(51) A61K 39/395	B32B 27/30
16.06.2021	A61P 35/00	B32B 27/32
(11) EP3127868	C07K 16/28	B32B 7/04
(51) C01F 11/18	C07K 16/30	(00) 24/21
D21H 17/68	C12N 15/02	16.06.2021
D21H 17/70	C12Q 1/02	(11) EP3504441
(00) 24/21	G01N 33/50	(51) F04D 25/08
16.06.2021	G01N 33/574	F04D 27/00
(11) EP3145219	G01N 33/68	F04D 29/42
(51) H04R 25/00	C12Q 1/68	G01F 1/36
(00) 24/21	(00) 25/21	(00) 24/21
16.06.2021	23.06.2021	16.06.2021
(11) EP3255061	(11) EP3372631	(11) EP3523262
(51) A61K 39/00	(51) C08J 9/00	(51) C04B 18/16
A61P 43/00	C08J 9/06	C04B 18/24
C07K 16/28	(00) 24/21	C04B 28/04
A01N 63/00	16.06.2021	(00) 24/21
(00) 24/21	(11) EP3376874	16.06.2021
16.06.2021	(51) A23D 7/00	(11) EP3549555
(11) EP3284458	A23D 7/02	(51) A61B 17/00
(51) A61K 9/00	A23D 7/04	A61B 17/04
A61K 9/20	A23D 7/05	A61F 2/24
A61K 31/19	(00) 24/21	A61L 27/36
A61K 31/192	16.06.2021	A61L 27/50
A61K 45/06	(11) EP3386930	A61F 2/90
A61P 27/16	(51) C03C 3/093	(00) 24/21
A61P 29/00	C03C 3/097	16.06.2021
A61K 47/10	C03C 21/00	(11) EP3596019
(00) 24/21	C03C 23/00	(51) B23K 103/00
16.06.2021	(00) 24/21	C03B 33/02
(11) EP3287140	16.06.2021	C03B 33/09
(51) A61K 9/08	(11) EP3400138	B23K 26/53
	(51) B42D 25/24	(00) 24/21

16.06.2021	16.06.2021
(11) EP3606361	(11) EP3664624
(51) A24C 5/34	(51) A23C 9/12
A24C 5/345	A23C 9/123
G01N 21/952	A23C 9/13
(00) 24/21	A23C 9/142
16.06.2021	A23C 9/15
(11) EP3610827	(00) 24/21
(51) A61K 6/802	16.06.2021
(00) 24/21	(11) EP3679167
16.06.2021	(51) C22C 19/03
(11) EP3616869	C23C 18/50
(51) B29B 9/06	H01L 21/288
B29B 9/12	H01L 23/00
B33Y 10/00	(00) 24/21
B33Y 30/00	16.06.2021
B29C 64/153	
B29C 64/165	
B29C 64/314	
B33Y 40/00	
B33Y 70/00	
(00) 24/21	
16.06.2021	
(11) EP3625321	
(51) C11D 3/20	
C11D 11/00	
C11D 17/00	
(00) 23/21	
09.06.2021	
(11) EP3628605	
(51) B65B 57/00	
B65B 57/02	
B65G 43/04	
B65G 54/02	
G05B 23/02	
(00) 24/21	
16.06.2021	
(11) EP3633260	
(51) B65H 51/10	
B65H 75/44	
F16L 55/00	
F16L 55/18	
F16L 55/26	
F16L 55/30	
F16L 55/46	
F16L 55/48	
F16L 101/30	
G02B 23/24	
G03B 37/00	
(00) 26/21	
30.06.2021	
(11) EP3641996	
(51) B07B 4/02	
B07B 9/02	
B07B 11/02	
B07B 11/06	
B27N 1/00	
B27N 3/14	
B27N 3/18	
C01B 33/20	
(00) 24/21	
16.06.2021	
(11) EP3643104	
(51) G01S 13/46	
G01S 13/76	
H04W 24/00	
(00) 24/21	

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) EP2275509	B44C 5/04
(51) C09K 5/04	F16B 2/22
C10M 171/00	F16B 5/00
(00) 20/20	F16B 5/06
13.05.2020	(11) EP3042646
(11) EP2326208	(51) A61K 9/00
(51) A46B 15/00	A61K 31/215
A61C 17/22	A61K 31/535
A61C 19/04	A61K 31/542
(11) EP2506669	A61K 31/5575
(51) H05B 6/06	A61K 45/06
(00) 33/17	(00) 12/18
18.08.2017	14.03.2018
(11) EP2652752	(11) EP3066964
(51) H01B 3/56	(51) A47J 31/44
(00) 33/16	(11) EP3241663
17.08.2016	(51) B29C 51/02
(11) EP2688365	B29C 51/22
(51) H05B 6/06	B29C 51/26
H05B 6/12	B29C 51/46
(11) EP2692254	B29L 31/00
(51) A24B 13/00	(00) 24/19
(00) 03/20	12.06.2019
15.01.2020	(11) EP3277590
(11) EP2840867	(51) B65D 1/30
(51) H05B 6/06	(00) 14/20
(11) EP2870095	01.04.2020
(51) B65H 19/12	(11) EP3601060
B65H 26/00	(51) B65B 1/06
(00) 16/17	B65B 1/34
19.04.2017	B65B 31/02
(11) EP2877146	G01G 13/06
(51) A61K 8/04	G01G 15/00
A61K 8/34	G01G 17/00
A61K 8/41	G01G 21/23
A61Q 5/12	(00) 39/21
(11) EP2904052	29.09.2021
(51) C09C 1/00	
C09D 5/36	
(00) 21/18	
16.05.2018	
(11) EP2937493	
(51) E04G 15/06	
(11) EP2971069	
(51) G06F 19/22	
C12Q 1/6869	
(00) 34/19	
21.08.2019	
(11) EP2999722	
(51) C08F 210/06	
C08J 5/18	
C08L 23/14	
(00) 28/19	
10.07.2019	
(11) EP3015281	
(51) B44C 1/28	

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

	C12N 15/113
(11) 2020764	A61K 31/47
(00) 04.03.2022	(11) EP2856845
(51) B63B 27/08	(51) H05B 37/02
E21B 25/18	(11) EP2893812
E21B 49/02	(00) 10.03.2022
(00) Established	(51) A23B 7/00
(11) 2021329	A23B 7/022
(00) 11.03.2022	(00) New licence registration
(51) A61B 5/00	(11) EP2993620
A61B 6/08	(00) 04.03.2022
A61B 8/08	(51) G01B 11/00
A61B 5/06	G06K 9/32
A61B 5/107	E21B 47/00
A61B 17/225	G06T 7/00
A61B 17/34	(00) Established
A61M 5/158	(11) EP3032283
A61M 5/20	(00) 04.03.2022
A61M 5/42	(51) G01V 1/02
A61M 25/01	(00) Established
A61M 25/06	(11) EP3097210
(00) Established	(51) C12Q 1/6816
(11) 2022350	C12Q 1/6834
(00) 11.03.2022	C12Q 1/6869
(51) A61B 5/00	C12N 9/00
A61B 5/15	(11) EP3207521
A61B 5/153	(51) G06T 7/00
A61B 17/34	G06K 9/62
A61B 34/30	G06V 10/52
A61B 34/32	(11) EP3209502
A61B 90/11	(51) B42D 25/23
A61M 5/32	B42D 25/333
A61M 5/42	B42D 25/24
A61M 5/46	B42D 25/378
(00) Established	B42D 25/425
(11) 2022351	B42D 25/351
(00) 11.03.2022	B42D 25/328
(51) A61B 8/00	B42D 25/355
A61B 8/08	B42D 25/47
(00) Established	(11) EP3472392
(11) 2025944	(00) 04.03.2022
(00) 17.03.2022	(51) E02D 1/02
(51) A47J 27/21	E21B 49/00
(11) 2026210	G01N 15/08
(00) 04.03.2022	(00) Established
(51) G01S 19/07	(11) EP3568347
(00) Established	(00) 04.03.2022
(11) EP1993809	(51) B63B 21/66
(51) B29C 55/28	B63B 27/36
B29C 71/02	(00) Established
B32B 27/08	(11) EP3607238
B29L 9/00	(00) 04.03.2022
(11) EP2748192	(51) F17D 5/02
(51) C07K 14/82	F17D 5/06
A61K 31/404	(00) Established
A61K 31/4412	
A61K 31/444	
A61K 31/513	
A61K 31/517	
C12Q 1/6886	
C12N 9/14	

VRV

Verval of nietigverklaring.

Contains data concerning lapse or annulment.

(11) 1020386	(00) Patent Expired	(00) Patent Expired
(00) 15.04.2022	(11) EP1380282	(11) EP1399781
(00) Patent Expired	(00) 19.04.2022	(00) 18.04.2022
(11) 1020387	(00) Patent Expired	(00) Patent Expired
(00) 15.04.2022	(11) EP1381435	(11) EP1412431
(00) Patent Expired	(00) 17.04.2022	(00) 16.04.2022
(11) 1020399	(00) Patent Expired	(00) Patent Expired
(00) 16.04.2022	(11) EP1381517	(11) EP1495420
(00) Patent Expired	(00) 17.04.2022	(00) 17.04.2022
(11) 1020405	(00) Patent Expired	(00) Patent Expired
(00) 16.04.2022	(11) EP1381822	(11) EP1505066
(00) Patent Expired	(00) 17.04.2022	(00) 19.04.2022
(11) 1020409	(00) Patent Expired	(00) Patent Expired
(00) 17.04.2022	(11) EP1385498	(11) EP1578903
(00) Patent Expired	(00) 18.04.2022	(00) 17.04.2022
(11) 1020420	(00) Patent Expired	(00) Patent Expired
(00) 18.04.2022	(11) EP1385695	(11) EP1790346
(00) Patent Expired	(00) 19.04.2022	(00) 15.04.2022
(11) 2026681	(00) Patent Expired	(00) Patent Expired
(00) 03.03.2022	(11) EP1385934	(11) EP1798877
(00) Application Withdrawn	(00) 16.04.2022	(00) 15.04.2022
(11) 300416	(00) Patent Expired	(00) Patent Expired
(00) 15.04.2022	(11) EP1386044	(11) EP1815737
(00) SPC Expired	(00) 17.04.2022	(00) 13.12.2021
(11) EP1251081	(00) Patent Expired	(00) European Patent got Revoked
(00) 18.04.2022	(11) EP1386236	(11) EP1900364
(00) Patent Expired	(00) 18.04.2022	(00) 18.04.2022
(11) EP1251475	(00) Patent Expired	(00) Patent Expired
(00) 19.04.2022	(11) EP1387802	(11) EP1928643
(00) Patent Expired	(00) 16.04.2022	(00) 15.12.2021
(11) EP1253153	(00) Patent Expired	(00) EPV Ceased Effect
(00) 17.04.2022	(11) EP1387988	(11) EP2029217
(00) Patent Expired	(00) 19.04.2022	(00) 15.12.2021
(11) EP1260321	(00) Patent Expired	(00) EPV Ceased Effect
(00) 17.04.2022	(11) EP1389215	(11) EP2066743
(00) Patent Expired	(00) 15.04.2022	(00) 15.12.2021
(11) EP1262934	(00) Patent Expired	(00) EPV Ceased Effect
(00) 17.04.2022	(11) EP1389247	(11) EP2070315
(00) Patent Expired	(00) 18.04.2022	(00) 22.02.2022
(11) EP1270833	(00) Patent Expired	(00) European Patent got Revoked
(00) 17.04.2022	(11) EP1390129	(11) EP2077902
(00) Patent Expired	(00) 17.04.2022	(00) 10.03.2022
(11) EP1271680	(00) Patent Expired	(00) European Patent got Revoked
(00) 17.04.2022	(11) EP1390779	(11) EP2128246
(00) Patent Expired	(00) 17.04.2022	(00) 19.04.2022
(11) EP1278029	(00) Patent Expired	(00) Patent Expired
(00) 19.04.2022	(11) EP1393218	(11) EP2141921
(00) Patent Expired	(00) 18.04.2022	(00) 15.12.2021
(11) EP1379219	(00) Patent Expired	(00) EPV Ceased Effect
(00) 17.04.2022	(11) EP1393386	(11) EP2178946
(00) Patent Expired	(00) 18.04.2022	(00) 15.12.2021
(11) EP1379254	(00) Patent Expired	(00) European Patent got Revoked
(00) 15.04.2022	(11) EP1395811	(11) EP2253410
(00) Patent Expired	(00) 17.04.2022	(00) 15.12.2021
(11) EP1379706	(00) Patent Expired	(00) EPV Ceased Effect
(00) 16.04.2022	(11) EP1397403	(11) EP2276942
(00) Patent Expired	(00) 19.04.2022	(00) 15.12.2021
(11) EP1380138	(00) Patent Expired	(00) EPV Ceased Effect
(00) 17.04.2022	(11) EP1397614	(11) EP2283431
	(00) 18.04.2022	(00) 15.12.2021

(00) EPV Ceased Effect	(00) European Patent got Revoked	(00) EPV Ceased Effect
(11) EP2283917	(11) EP2429434	(11) EP2603377
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2286898	(11) EP2459310	(11) EP2605727
(00) 15.02.2022	(00) 15.12.2021	(00) 15.12.2021
(00) European Patent got Revoked	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2293411	(11) EP2460348	(11) EP2624756
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2296299	(11) EP2460817	(11) EP2628493
(00) 15.04.2022	(00) 03.02.2002	(00) 15.12.2021
(00) Patent Expired	(00) European Patent got Revoked	(00) EPV Ceased Effect
(11) EP2307056	(11) EP2474790	(11) EP2629828
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2315629	(11) EP2475987	(11) EP2630270
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2320214	(11) EP2492163	(11) EP2630981
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2322631	(11) EP2495556	(11) EP2637122
(00) 19.04.2022	(00) 15.12.2021	(00) 15.12.2021
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2325199	(11) EP2495863	(11) EP2641402
(00) 23.11.2021	(00) 15.12.2021	(00) 15.12.2021
(00) European Patent got Revoked	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2341362	(11) EP2514651	(11) EP2642664
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2344836	(11) EP2517639	(11) EP2651182
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2348587	(11) EP2532292	(11) EP2660644
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2348955	(11) EP2537557	(11) EP2661802
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2358307	(11) EP2539691	(11) EP2681615
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2358309	(11) EP2539810	(11) EP2682154
(00) 02.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) European Patent got Revoked	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2363279	(11) EP2551724	(11) EP2686052
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2364013	(11) EP2556885	(11) EP2689398
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2366772	(11) EP2561625	(11) EP2700167
(00) 16.04.2022	(00) 15.12.2021	(00) 15.12.2021
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2385449	(11) EP2568988	(11) EP2703923
(00) 15.12.2021	(00) 11.02.2022	(00) 15.12.2021
(00) EPV Ceased Effect	(00) European Patent got Revoked	(00) EPV Ceased Effect
(11) EP2405250	(11) EP2593619	(11) EP2705094
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2411557	(11) EP2594697	(11) EP2709869
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2427527	(11) EP2603310	(11) EP2709908
(00) 25.01.2022	(00) 15.12.2021	(00) 15.12.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2711455	(11) EP2817872	(11) EP2889604
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2712716	(11) EP2830473	(11) EP2890104
(00) 15.12.2021	(00) 25.01.2022	(00) 15.12.2021
(00) EPV Ceased Effect	(00) European Patent got Revoked	(00) EPV Ceased Effect
(11) EP2715611	(11) EP2830755	(11) EP2900429
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2719078	(11) EP2833184	(11) EP2901157
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2720428	(11) EP2833848	(11) EP2901224
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2728632	(11) EP2836109	(11) EP2908259
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2740017	(11) EP2838603	(11) EP2908294
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2745093	(11) EP2840693	(11) EP2913801
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2745991	(11) EP2841897	(11) EP2914973
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2753321	(11) EP2843251	(11) EP2918472
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2753702	(11) EP2846913	(11) EP2921730
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2753973	(11) EP2851661	(11) EP2936569
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2761260	(11) EP2852333	(11) EP2937911
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2761970	(11) EP2852651	(11) EP2939404
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2782765	(11) EP2855121	(11) EP2944023
(00) 10.02.2022	(00) 15.12.2021	(00) 15.12.2021
(00) European Patent got Revoked	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2783749	(11) EP2864465	(11) EP2944332
(00) 15.12.2021	(00) 15.12.2021	(00) 19.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) European Patent got Revoked
(11) EP2787010	(11) EP2865874	(11) EP2947463
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2795674	(11) EP2866034	(11) EP2949691
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2805435	(11) EP2869667	(11) EP2955310
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2806900	(11) EP2873691	(11) EP2958018
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2816544	(11) EP2878094	(11) EP2959250
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2816624	(11) EP2888507	(11) EP2963472
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2964096	(11) EP3002671	(11) EP3053338
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2965466	(11) EP3002924	(11) EP3054100
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2966318	(11) EP3009479	(11) EP3054553
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2968465	(11) EP3013148	(11) EP3054615
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2968492	(11) EP3015043	(11) EP3054656
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2969408	(11) EP3020717	(11) EP3055907
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2971533	(11) EP3023258	(11) EP3058563
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2972128	(11) EP3025372	(11) EP3058722
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2972821	(11) EP3029732	(11) EP3059427
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2973514	(11) EP3030198	(11) EP3060507
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2976067	(11) EP3030603	(11) EP3061056
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2976217	(11) EP3038806	(11) EP3062040
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2977889	(11) EP3045122	(11) EP3062962
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2980720	(11) EP3045343	(11) EP3065540
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2981934	(11) EP3047154	(11) EP3066068
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2984480	(11) EP3049318	(11) EP3068064
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2984484	(11) EP3050032	(11) EP3068475
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2991584	(11) EP3050112	(11) EP3073201
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2995925	(11) EP3050151	(11) EP3082992
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2998427	(11) EP3051908	(11) EP3085083
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2998988	(11) EP3051980	(11) EP3089129
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3000547	(11) EP3052787	(11) EP3089131
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3092124	(11) EP3119303	(11) EP3145558
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3095400	(11) EP3119626	(11) EP3146097
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3096728	(11) EP3119631	(11) EP3151189
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3098257	(11) EP3124126	(11) EP3154092
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3098574	(11) EP3124334	(11) EP3154115
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3101392	(11) EP3125291	(11) EP3154524
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3101772	(11) EP3126415	(11) EP3154804
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3103928	(11) EP3126575	(11) EP3155272
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3104017	(11) EP3126857	(11) EP3156385
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3104804	(11) EP3128084	(11) EP3157469
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3105657	(11) EP3129154	(11) EP3157847
(00) 15.12.2021	(00) 15.12.2021	(00) 11.03.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) European Patent got Revoked
(11) EP3106667	(11) EP3131390	(11) EP3159029
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3107384	(11) EP3132000	(11) EP3160302
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3110230	(11) EP3132754	(11) EP3160305
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3110239	(11) EP3133326	(11) EP3160355
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3111998	(11) EP3135465	(11) EP3160606
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3112098	(11) EP3136165	(11) EP3160629
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3114112	(11) EP3137921	(11) EP3163688
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3114453	(11) EP3138731	(11) EP3164216
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3115039	(11) EP3139175	(11) EP3165856
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3116795	(11) EP3142610	(11) EP3165974
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3117588	(11) EP3142961	(11) EP3166236
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3167605	(11) EP3189919	(11) EP3207007
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3169487	(11) EP3191469	(11) EP3208034
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3170288	(11) EP3192982	(11) EP3208803
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3171916	(11) EP3194418	(11) EP3209434
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3173279	(11) EP3194752	(11) EP3210702
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3175270	(11) EP3194790	(11) EP3211289
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3177338	(11) EP3194871	(11) EP3211753
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3178053	(11) EP3194911	(11) EP3212103
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3178198	(11) EP3195377	(11) EP3215261
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3178571	(11) EP3195563	(11) EP3215296
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3182302	(11) EP3196073	(11) EP3215651
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3183065	(11) EP3197157	(11) EP3216055
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3183111	(11) EP3197527	(11) EP3216323
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3183970	(11) EP3201021	(11) EP3217361
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3185825	(11) EP3201026	(11) EP3221321
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3185935	(11) EP3201035	(11) EP3221798
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3186014	(11) EP3202948	(11) EP3222224
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3186065	(11) EP3203916	(11) EP3222246
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3186822	(11) EP3204857	(11) EP3222379
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3187161	(11) EP3205761	(11) EP3222859
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3188118	(11) EP3206142	(11) EP3224165
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3188656	(11) EP3206782	(11) EP3224209
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3224582	(11) EP3244269	(11) EP3266937
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3224801	(11) EP3245557	(11) EP3267449
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3225197	(11) EP3246693	(11) EP3268882
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3226569	(11) EP3248271	(11) EP3269006
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3227601	(11) EP3251722	(11) EP3270144
(00) 15.12.2021	(00) 20.04.2022	(00) 15.12.2021
(00) EPV Ceased Effect	(00) Patent Expired	(00) EPV Ceased Effect
(11) EP3228925	(11) EP3252870	(11) EP3272390
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3229995	(11) EP3253300	(11) EP3273390
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3231337	(11) EP3253384	(11) EP3273658
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3231725	(11) EP3253422	(11) EP3274203
(00) 15.12.2021	(00) 27.10.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) European Patent got Revoked	(00) EPV Ceased Effect
(11) EP3234299	(11) EP3254585	(11) EP3275172
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3234750	(11) EP3256949	(11) EP3275916
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3236021	(11) EP3257097	(11) EP3276043
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3236700	(11) EP3259103	(11) EP3277366
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3236895	(11) EP3260816	(11) EP3277393
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3238232	(11) EP3263085	(11) EP3278088
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3238614	(11) EP3263279	(11) EP3278635
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3240018	(11) EP3263572	(11) EP3278897
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3240605	(11) EP3264254	(11) EP3280668
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3241701	(11) EP3266131	(11) EP3281358
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3242390	(11) EP3266508	(11) EP3282480
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3243154	(11) EP3266823	(11) EP3283011
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3243892	(11) EP3266916	(11) EP3283993
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3284965	(11) EP3302633	(11) EP3315915
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3288337	(11) EP3304010	(11) EP3320620
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3289650	(11) EP3304367	(11) EP3321118
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3289984	(11) EP3305430	(11) EP3321530
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3290362	(11) EP3306157	(11) EP3321550
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3290443	(11) EP3307402	(11) EP3322372
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3290444	(11) EP3307762	(11) EP3322455
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3290986	(11) EP3307790	(11) EP3325341
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3291213	(11) EP3310042	(11) EP3325516
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3291316	(11) EP3310461	(11) EP3327778
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3291372	(11) EP3310986	(11) EP3327994
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3294150	(11) EP3311962	(11) EP3329132
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3294524	(11) EP3312310	(11) EP3330417
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3295114	(11) EP3313344	(11) EP3330958
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3295866	(11) EP3313396	(11) EP3333141
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3296882	(11) EP3313495	(11) EP3333617
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3297182	(11) EP3313654	(11) EP3335250
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3297208	(11) EP3313760	(11) EP3336018
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3297712	(11) EP3313927	(11) EP3336405
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3300284	(11) EP3314263	(11) EP3337579
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3301352	(11) EP3314845	(11) EP3338027
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3302032	(11) EP3315139	(11) EP3338847
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3340982	(11) EP3353914	(11) EP3373540
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3341578	(11) EP3354720	(11) EP3373717
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3342866	(11) EP3356974	(11) EP3376026
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3343200	(11) EP3357927	(11) EP3376524
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3344109	(11) EP3358536	(11) EP3376750
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3344410	(11) EP3358563	(11) EP3376942
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3345015	(11) EP3358564	(11) EP3378052
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3345164	(11) EP3358615	(11) EP3378892
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3345165	(11) EP3359794	(11) EP3381171
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3345174	(11) EP3361868	(11) EP3381653
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3345612	(11) EP3363044	(11) EP3381837
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3345781	(11) EP3363061	(11) EP3382344
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3346746	(11) EP3364627	(11) EP3382450
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3347062	(11) EP3366765	(11) EP3382643
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3350400	(11) EP3368237	(11) EP3385255
(00) 26.05.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3350574	(11) EP3368626	(11) EP3385404
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3351223	(11) EP3368940	(11) EP3385473
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3351720	(11) EP3370059	(11) EP3385657
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3351878	(11) EP3371351	(11) EP3386275
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3352826	(11) EP3371354	(11) EP3389175
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3352949	(11) EP3372394	(11) EP3392546
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3352967	(11) EP3373442	(11) EP3392784
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3393234	(11) EP3408270	(11) EP3418062
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3394511	(11) EP3408715	(11) EP3419675
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3394949	(11) EP3409751	(11) EP3420442
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3395410	(11) EP3409817	(11) EP3421067
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3395607	(11) EP3410303	(11) EP3421232
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3395837	(11) EP3411205	(11) EP3422033
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3396352	(11) EP3411876	(11) EP3422837
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3396794	(11) EP3412251	(11) EP3423191
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3396839	(11) EP3412905	(11) EP3423330
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3398345	(11) EP3412974	(11) EP3424220
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3398397	(11) EP3413152	(11) EP3425961
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3399709	(11) EP3413184	(11) EP3426535
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3399728	(11) EP3413403	(11) EP3426617
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3401021	(11) EP3414931	(11) EP3426700
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3402214	(11) EP3415668	(11) EP3427503
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3403026	(11) EP3415920	(11) EP3427979
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3404209	(11) EP3415932	(11) EP3428538
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3404769	(11) EP3416006	(11) EP3428678
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3405908	(11) EP3416253	(11) EP3429102
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3406006	(11) EP3416804	(11) EP3429475
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3407233	(11) EP3417757	(11) EP3430959
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3408160	(11) EP3417925	(11) EP3431933
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3433226	(11) EP3445159	(11) EP3458710
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3433838	(11) EP3445689	(11) EP3459195
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3434240	(11) EP3446665	(11) EP3459946
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3434537	(11) EP3447165	(11) EP3460129
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3435406	(11) EP3447618	(11) EP3460137
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3435557	(11) EP3449394	(11) EP3460224
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3436221	(11) EP3449572	(11) EP3460547
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3436368	(11) EP3449699	(11) EP3461113
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3437524	(11) EP3450289	(11) EP3461177
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3438132	(11) EP3450767	(11) EP3461379
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3438166	(11) EP3450948	(11) EP3461789
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3439176	(11) EP3451099	(11) EP3462232
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3439206	(11) EP3451392	(11) EP3462754
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3441392	(11) EP3451698	(11) EP3462826
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3441678	(11) EP3451827	(11) EP3464204
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3441901	(11) EP3451933	(11) EP3464742
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3443443	(11) EP3452464	(11) EP3466300
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3443536	(11) EP3452476	(11) EP3466905
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3443610	(11) EP3453567	(11) EP3467374
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3443637	(11) EP3455096	(11) EP3467440
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3444562	(11) EP3455830	(11) EP3467651
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3444842	(11) EP3456580	(11) EP3467867
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3468649	(11) EP3478020	(11) EP3494713
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3469677	(11) EP3479027	(11) EP3496734
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3469818	(11) EP3479585	(11) EP3497351
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3469931	(11) EP3479597	(11) EP3500489
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3470532	(11) EP3480041	(11) EP3500658
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3471006	(11) EP3480274	(11) EP3501253
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3472501	(11) EP3481591	(11) EP3501278
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3472978	(11) EP3482871	(11) EP3502535
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3473174	(11) EP3483358	(11) EP3502721
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3474107	(11) EP3483532	(11) EP3503631
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3474344	(11) EP3485259	(11) EP3504119
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3474591	(11) EP3486976	(11) EP3504481
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3474860	(11) EP3488190	(11) EP3504537
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3475099	(11) EP3488713	(11) EP3504758
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3475502	(11) EP3489565	(11) EP3505074
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3475509	(11) EP3490465	(11) EP3505110
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3475510	(11) EP3491494	(11) EP3505426
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3475669	(11) EP3491864	(11) EP3505915
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3476829	(11) EP3492439	(11) EP3506070
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3476910	(11) EP3493511	(11) EP3506899
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3477154	(11) EP3493581	(11) EP3507083
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3477645	(11) EP3494687	(11) EP3507407
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3507651	(11) EP3516408	(11) EP3524915
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3508349	(11) EP3518384	(11) EP3525270
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3509492	(11) EP3518530	(11) EP3525448
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3509544	(11) EP3518548	(11) EP3526093
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3509875	(11) EP3518986	(11) EP3526219
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3510043	(11) EP3519257	(11) EP3527423
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3510343	(11) EP3519483	(11) EP3527612
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3510506	(11) EP3520032	(11) EP3527936
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3510951	(11) EP3521364	(11) EP3528006
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3511469	(11) EP3521795	(11) EP3528039
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3511970	(11) EP3522265	(11) EP3528549
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3512373	(11) EP3522347	(11) EP3529547
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3512630	(11) EP3522432	(11) EP3529657
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3512964	(11) EP3522646	(11) EP3529853
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3514176	(11) EP3522933	(11) EP3530206
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3514446	(11) EP3523292	(11) EP3530268
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3514608	(11) EP3523579	(11) EP3531332
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3514955	(11) EP3523602	(11) EP3531436
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3515098	(11) EP3524029	(11) EP3531930
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3515439	(11) EP3524040	(11) EP3533928
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3515791	(11) EP3524219	(11) EP3534003
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3515812	(11) EP3524430	(11) EP3535015
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3535041	(11) EP3546911	(11) EP3563963
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3535243	(11) EP3549742	(11) EP3564024
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3535418	(11) EP3550617	(11) EP3564065
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3536591	(11) EP3551859	(11) EP3565070
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3537180	(11) EP3553318	(11) EP3565270
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3537673	(11) EP3557437	(11) EP3565741
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3538717	(11) EP3557709	(11) EP3566576
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3539284	(11) EP3557900	(11) EP3566850
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3541380	(11) EP3558681	(11) EP3567746
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3542098	(11) EP3558693	(11) EP3568369
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3542489	(11) EP3558812	(11) EP3568974
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3543396	(11) EP3559092	(11) EP3569014
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3543835	(11) EP3559626	(11) EP3569184
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3543960	(11) EP3560392	(11) EP3569252
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3544005	(11) EP3560793	(11) EP3569301
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3545152	(11) EP3561427	(11) EP3569498
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3546414	(11) EP3561433	(11) EP3570511
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3546428	(11) EP3561775	(11) EP3571866
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3546606	(11) EP3562060	(11) EP3572060
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3546656	(11) EP3562083	(11) EP3572481
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3546726	(11) EP3562738	(11) EP3572592
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3546865	(11) EP3563689	(11) EP3573097
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3573503	(11) EP3585565	(11) EP3595560
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3573915	(11) EP3585584	(11) EP3595693
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3574005	(11) EP3585607	(11) EP3596312
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3575059	(11) EP3585683	(11) EP3597135
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3575564	(11) EP3586601	(11) EP3597478
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3576816	(11) EP3587621	(11) EP3597876
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3578634	(11) EP3587786	(11) EP3598112
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3578822	(11) EP3588010	(11) EP3598835
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3578825	(11) EP3588741	(11) EP3599060
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3578971	(11) EP3589524	(11) EP3599966
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3579328	(11) EP3590813	(11) EP3600978
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3579447	(11) EP3591578	(11) EP3600979
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3579836	(11) EP3591613	(11) EP3601287
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3580035	(11) EP3591620	(11) EP3602144
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3580646	(11) EP3591770	(11) EP3603729
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3580944	(11) EP3592064	(11) EP3603906
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3580955	(11) EP3592543	(11) EP3605327
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3581964	(11) EP3593420	(11) EP3605571
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3583046	(11) EP3593856	(11) EP3606029
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3583396	(11) EP3594020	(11) EP3606249
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3583656	(11) EP3594400	(11) EP3606558
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3584250	(11) EP3594415	(11) EP3607166
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3607699	(11) EP3613828	(11) EP3624516
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3608075	(11) EP3614165	(11) EP3624984
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3608107	(11) EP3614403	(11) EP3625665
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3608289	(11) EP3614738	(11) EP3625775
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3608588	(11) EP3614751	(11) EP3625780
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3609205	(11) EP3615946	(11) EP3626495
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3609722	(11) EP3616559	(11) EP3626986
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3609727	(11) EP3617015	(11) EP3627049
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3609738	(11) EP3617522	(11) EP3627184
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3610145	(11) EP3618186	(11) EP3627775
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3610923	(11) EP3618366	(11) EP3628820
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3610998	(11) EP3618474	(11) EP3629404
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3611014	(11) EP3618550	(11) EP3630400
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3611066	(11) EP3619104	(11) EP3630620
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3612252	(11) EP3619885	(11) EP3632167
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3612496	(11) EP3620038	(11) EP3632790
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3612536	(11) EP3620675	(11) EP3633011
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3612644	(11) EP3621857	(11) EP3633173
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3613416	(11) EP3621891	(11) EP3633329
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3613642	(11) EP3622253	(11) EP3633451
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3613651	(11) EP3623192	(11) EP3633734
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3613659	(11) EP3623501	(11) EP3633809
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3633902	(11) EP3641042	(11) EP3648997
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3634003	(11) EP3641457	(11) EP3649430
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3634729	(11) EP3642570	(11) EP3650799
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3634875	(11) EP3643056	(11) EP3650953
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3634974	(11) EP3643141	(11) EP3651915
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3635238	(11) EP3643342	(11) EP3652437
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3635261	(11) EP3643371	(11) EP3654336
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3635282	(11) EP3643409	(11) EP3654516
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3637160	(11) EP3643844	(11) EP3655612
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3637184	(11) EP3644131	(11) EP3655818
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3637368	(11) EP3644148	(11) EP3656931
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3637693	(11) EP3644501	(11) EP3658387
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3637734	(11) EP3646093	(11) EP3658760
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3637879	(11) EP3646526	(11) EP3659320
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3638659	(11) EP3646554	(11) EP3659351
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3639190	(11) EP3646709	(11) EP3659929
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3639362	(11) EP3647695	(11) EP3659977
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3639780	(11) EP3647821	(11) EP3660289
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3640204	(11) EP3648159	(11) EP3661226
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3640250	(11) EP3648203	(11) EP3661297
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3640754	(11) EP3648298	(11) EP3661607
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3641028	(11) EP3648524	(11) EP3662123
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3662218	(11) EP3680044	(11) EP3688965
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3664549	(11) EP3680453	(11) EP3689523
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3665111	(11) EP3680852	(11) EP3689719
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3667767	(11) EP3681286	(11) EP3689867
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3668044	(11) EP3682814	(11) EP3689959
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3668472	(11) EP3682913	(11) EP3690001
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3669075	(11) EP3682923	(11) EP3690096
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3669627	(11) EP3682935	(11) EP3690103
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3670101	(11) EP3683556	(11) EP3690171
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3670945	(11) EP3683980	(11) EP3691774
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3671209	(11) EP3684023	(11) EP3691892
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3672021	(11) EP3685128	(11) EP3692138
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3672943	(11) EP3685496	(11) EP3693336
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3673618	(11) EP3685719	(11) EP3693878
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3673759	(11) EP3686403	(11) EP3693932
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3674944	(11) EP3687133	(11) EP3693966
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3675385	(11) EP3687203	(11) EP3694101
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3676451	(11) EP3687460	(11) EP3694648
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3676514	(11) EP3687782	(11) EP3694681
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3677756	(11) EP3688243	(11) EP3695119
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3678867	(11) EP3688512	(11) EP3695165
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3679155	(11) EP3688928	(11) EP3696089
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3697613	(11) EP3706976	(11) EP3714962
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3697788	(11) EP3707532	(11) EP3715334
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3698828	(11) EP3707633	(11) EP3715532
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3698990	(11) EP3707834	(11) EP3715566
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3699091	(11) EP3708314	(11) EP3715662
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3700857	(11) EP3708824	(11) EP3716781
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3701188	(11) EP3708900	(11) EP3717626
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3702258	(11) EP3709166	(11) EP3717816
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3702670	(11) EP3709327	(11) EP3718191
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3703998	(11) EP3710817	(11) EP3718208
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3704000	(11) EP3711505	(11) EP3718406
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3704082	(11) EP3711644	(11) EP3719434
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3704620	(11) EP3711966	(11) EP3719462
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3704975	(11) EP3712019	(11) EP3719573
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3705004	(11) EP3712029	(11) EP3720265
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3705219	(11) EP3712069	(11) EP3721313
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3705245	(11) EP3712317	(11) EP3722055
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3705406	(11) EP3712359	(11) EP3722128
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3705681	(11) EP3713927	(11) EP3722253
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3705825	(11) EP3714074	(11) EP3722734
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3706343	(11) EP3714079	(11) EP3724410
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3706599	(11) EP3714954	(11) EP3724591
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3724698	(11) EP3740775	(11) EP3752397
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3725366	(11) EP3741290	(11) EP3753007
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3725690	(11) EP3741686	(11) EP3754694
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3725691	(11) EP3742645	(11) EP3754944
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3726098	(11) EP3743294	(11) EP3754998
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3726183	(11) EP3743295	(11) EP3755580
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3726980	(11) EP3743305	(11) EP3755770
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3727118	(11) EP3743357	(11) EP3756923
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3727822	(11) EP3744576	(11) EP3756959
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3727894	(11) EP3744599	(11) EP3756984
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3727932	(11) EP3744633	(11) EP3757709
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3728799	(11) EP3744904	(11) EP3761567
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3729670	(11) EP3746639	(11) EP3761609
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3729740	(11) EP3747701	(11) EP3763063
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3730506	(11) EP3748784	(11) EP3763475
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3731143	(11) EP3748972	(11) EP3763574
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3736454	(11) EP3749920	(11) EP3764615
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3737066	(11) EP3749922	(11) EP3765724
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3737812	(11) EP3750746	(11) EP3766677
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3737919	(11) EP3751282	(11) EP3767132
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3739418	(11) EP3751384	(11) EP3769016
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3740739	(11) EP3751973	(11) EP3769026
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3769504	(11) EP3783780	(11) EP3838439
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3770467	(11) EP3784942	(11) EP3838835
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3771233	(11) EP3786034	(11) EP3840915
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3771288	(11) EP3787866	(11) EP3846440
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3771293	(11) EP3789246	(11) EP3847713
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3771502	(11) EP3792668	(11) EP3848111
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3772084	(11) EP3793789	(11) EP3852205
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3772127	(11) EP3793874	(11) EP3865402
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3772237	(11) EP3797007	(11) EP3879811
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3772674	(11) EP3800351	(11) EP3894871
(00) 15.12.2021	(00) 15.12.2021	(00) 15.12.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3773241	(11) EP3800452	
(00) 15.12.2021	(00) 15.12.2021	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3774441	(11) EP3801271	
(00) 15.12.2021	(00) 15.12.2021	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3775056	(11) EP3804420	
(00) 15.12.2021	(00) 15.12.2021	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3775309	(11) EP3807044	
(00) 15.12.2021	(00) 15.12.2021	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3776211	(11) EP3809211	
(00) 15.12.2021	(00) 15.12.2021	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3776786	(11) EP3810357	
(00) 15.12.2021	(00) 15.12.2021	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3779100	(11) EP3813487	
(00) 15.12.2021	(00) 15.12.2021	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3781399	(11) EP3813606	
(00) 15.12.2021	(00) 15.12.2021	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3782033	(11) EP3814119	
(00) 15.12.2021	(00) 15.12.2021	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3782879	(11) EP3816706	
(00) 15.12.2021	(00) 15.12.2021	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3783069	(11) EP3817213	
(00) 15.12.2021	(00) 15.12.2021	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3783311	(11) EP3821044	
(00) 15.12.2021	(00) 15.12.2021	

VRB

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

- (11) EP1608925
 - (00) 26.01.2020
 - (00) Proceedings Interruption: Legal
prevention (Rule 142(1)(b))
 - (51) D21F 3/02
F26B 13/28
-

CO

Ingeschreven overdrachten.

Contains data concerning registered assignments or change of owners.

(71) mu-Drop B.V.	(11) EP1583907	(51) G03G 15/08
(73) mu-Drop B.V.	(00) 21.03.2022	(00) Merge
(11) 2012570	(51) B63B 35/44	(71) OKI ELECTRIC INDUSTRY CO., LTD.
(00) 18.03.2022	F03D 1/00	(73) OKI ELECTRIC INDUSTRY CO., LTD.
(51) A61F 9/00	F03D 11/04	(11) EP1640298
A61J 1/06	(00) Assignment	(00) 08.03.2022
A61M 35/00	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(51) B41J 13/00
B65D 1/09	(73) OKI ELECTRIC INDUSTRY CO., LTD.	B41J 13/10
B65D 35/24	(11) EP1420456	B65H 3/44
B65D 47/18	(00) 08.03.2022	(00) Merge
(00) Assignment	(51) H01L 27/15	(71) OKI ELECTRIC INDUSTRY CO., LTD.
(71) AMPCO METAL S.A.	(00) Merge	(73) OKI ELECTRIC INDUSTRY CO., LTD.
(73) AMPCO METAL S.A.	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(11) EP1560078
(11) 2008298	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(00) 08.03.2022
(00) 23.03.2022	(11) EP1441261	(51) B65D 41/46
(51) B25B 13/04	(00) 08.03.2022	G03G 15/08
B25B 13/06	(51) G03G 15/00	(00) Merge
B25B 13/08	(00) Merge	(71) Advanced Oncotherapy PLC
B25B 13/10	(71) Wolfspeed, Inc.	(73) Advanced Oncotherapy PLC
B25B 13/58	(73) Wolfspeed, Inc.	(11) EP1847160
B25B 19/00	(11) EP1502303	(00) 09.03.2022
(00) Assignment	(00) 11.03.2022	(51) H05H 9/04
(71) Svitzer A/S	(51) H01L 29/205	H05H 13/00
(73) Svitzer A/S	H01L 29/778	(00) Assignment
(11) 2004687	H01L 29/868	(71) OKI ELECTRIC INDUSTRY CO., LTD.
(00) 08.03.2022	H01L 31/0304	(73) OKI ELECTRIC INDUSTRY CO., LTD.
(51) B63B 35/68	H01L 33/00	(11) EP1635404
(00) Assignment	(00) Change of owner(s) name	(00) 08.03.2022
(71) OKI ELECTRIC INDUSTRY CO., LTD.	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(51) H01L 25/075
(73) OKI ELECTRIC INDUSTRY CO., LTD.	(73) OKI ELECTRIC INDUSTRY CO., LTD.	H01L 25/16
(11) EP1367459	(11) EP1389536	H01L 33/00
(00) 08.03.2022	(00) 08.03.2022	H01L 33/40
(51) G03G 15/08	(51) B41J 13/00	H01L 33/62
G03G 21/12	G03G 15/23	(00) Merge
(00) Merge	(00) Merge	(71) COMPAGNIE GENERALE DES
(71) OKI ELECTRIC INDUSTRY CO., LTD.	(71) OKI ELECTRIC INDUSTRY CO., LTD.	ETABLISSEMENTS MICHELIN
(73) OKI ELECTRIC INDUSTRY CO., LTD.	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(73) COMPAGNIE GENERALE DES
(11) EP1380430	(11) EP1435570	ETABLISSEMENTS MICHELIN
(00) 08.03.2022	(00) 08.03.2022	(11) EP1925539
(51) B41J 2/21	(51) G06F 3/12	(00) 23.03.2022
B41J 2/41	G06F 9/44	(51) B62D 55/24
(00) Merge	G06F 17/30	(00) Assignment
(71) OKI ELECTRIC INDUSTRY CO., LTD.	(00) Merge	(71) OKI ELECTRIC INDUSTRY CO., LTD.
(73) OKI ELECTRIC INDUSTRY CO., LTD.	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(73) OKI ELECTRIC INDUSTRY CO., LTD.
(11) EP1418624	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(11) EP1840671
(00) 08.03.2022	(11) EP1431909	(00) 08.03.2022
(51) B41J 2/45	(00) 08.03.2022	(51) G03G 15/08
H01L 27/15	(51) G06F 3/12	G03G 21/16
(00) Merge	G06F 13/38	(00) Merge
(71) VIVO MOBILE COMMUNICATION CO., LTD.	G06K 15/00	(71) Leviat GmbH
(73) VIVO MOBILE COMMUNICATION CO., LTD.	(00) Merge	(73) Leviat GmbH
(11) EP1527655	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(11) EP1892344
(00) 16.03.2022	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(00) 16.03.2022
(51) H04S 3/00	(11) EP1480437	(51) E04B 1/00
H04S 5/02	(00) 08.03.2022	(00) Merge
(00) Assignment	(51) H04N 1/00	(71) OKI ELECTRIC INDUSTRY CO., LTD.
(71) Vestas Wind Systems A/S	(00) Merge	(73) OKI ELECTRIC INDUSTRY CO., LTD.
(73) Vestas Wind Systems A/S	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(11) EP1746467
	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(00) 08.03.2022
	(11) EP1531368	(51) G03G 21/12
	(00) 08.03.2022	(00) Merge

(71) OKI ELECTRIC INDUSTRY CO., LTD.	(00) Change of Legal Entity	(00) Merge
(73) OKI ELECTRIC INDUSTRY CO., LTD.	(71) Fricke GmbH	(71) OKI ELECTRIC INDUSTRY CO., LTD.
(11) EP1731973	(73) KME Germany GmbH	(73) OKI ELECTRIC INDUSTRY CO., LTD.
(00) 08.03.2022	(11) EP1920850	(11) EP2085829
(51) G03G 15/08	(00) 21.03.2022	(00) 08.03.2022
(00) Merge	(51) B05B 15/08	(51) G03G 15/08
(71) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN	B05D 3/02	(00) Merge
(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN	B05D 5/06	(71) OKI ELECTRIC INDUSTRY CO., LTD.
(11) EP2036704	B05D 7/14	(73) OKI ELECTRIC INDUSTRY CO., LTD.
(00) 23.03.2022	B05D 7/16	(11) EP1840970
(51) B29D 30/02	B05D 7/26	(00) 08.03.2022
B60C 7/00	(00) Assignment	(51) B41J 2/45
B60C 19/08	(71) Apotex Inc.	H01L 27/15
(00) Assignment	(73) Apotex Inc.	(00) Merge
(71) OKI ELECTRIC INDUSTRY CO., LTD.	(11) EP2025310	(71) VIVO MOBILE COMMUNICATION CO., LTD.
(73) OKI ELECTRIC INDUSTRY CO., LTD.	(00) 16.03.2022	(73) VIVO MOBILE COMMUNICATION CO., LTD.
(11) EP1768002	(51) A61F 13/00	(11) EP2002692
(00) 08.03.2022	(00) Assignment	(00) 16.03.2022
(51) G03G 15/08	(71) Advanced Oncotherapy PLC	(51) H04S 5/00
(00) Merge	(73) Advanced Oncotherapy PLC	(00) Assignment
(71) VIVO MOBILE COMMUNICATION CO., LTD.	(11) EP2106678	(71) FL Technology GmbH
(73) VIVO MOBILE COMMUNICATION CO., LTD.	(00) 09.03.2022	(73) FL Technology GmbH
(11) EP1878307	(51) A61N 5/01	(11) EP2165406
(00) 16.03.2022	H05H 7/22	(00) 09.03.2022
(51) G10L 11/00	H05H 9/00	(51) H02K 41/02
H04S 7/00	(00) Assignment	H02K 41/025
(00) Assignment	(71) OKI ELECTRIC INDUSTRY CO., LTD.	H02K 41/03
(71) Thomson Licensing	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(00) Assignment
(73) Thomson Licensing	(11) EP1972458	(71) Aker Carbon Capture Norway AS
(11) EP1946501	(00) 08.03.2022	(73) Aker Carbon Capture Norway AS
(00) 11.03.2022	(51) B41J 32/02	(11) EP2089138
(51) H04L 12/56	(00) Merge	(00) 17.03.2022
H04L 29/06	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(51) B01D 53/14
(00) Assignment	(73) OKI ELECTRIC INDUSTRY CO., LTD.	B01D 53/18
(71) CellCarta NV	(11) EP1835721	C01B 31/20
(73) CellCarta NV	(00) 08.03.2022	(00) Assignment
(11) EP1913360	(51) G06K 15/12	(71) mu-Drop B.V.
(00) 22.03.2022	H04N 1/40	(73) mu-Drop B.V.
(51) B01L 3/00	H04N 1/405	(11) EP2349146
B65D 51/00	(00) Merge	(00) 18.03.2022
G01N 1/31	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(51) A61F 9/00
(00) Change of owner(s) name	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(00) Assignment
(71) KME Germany GmbH	(11) EP2042935	(71) OKI ELECTRIC INDUSTRY CO., LTD.
(73) KME Germany GmbH	(00) 08.03.2022	(73) OKI ELECTRIC INDUSTRY CO., LTD.
(11) EP1920850	(51) G03G 15/00	(11) EP2104004
(00) 21.03.2022	G03G 15/01	(00) 08.03.2022
(51) B05B 15/08	(00) Merge	(51) G03G 15/32
B05D 3/02	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(00) Merge
B05D 5/06	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(71) Aker Carbon Capture Norway AS
B05D 7/14	(11) EP1821154	(73) Aker Carbon Capture Norway AS
B05D 7/16	(00) 08.03.2022	(11) EP2089139
B05D 7/26	(51) B65H 1/04	(00) 17.03.2022
(00) Change of owner(s) name	B65H 1/26	(51) B01D 53/14
(71) KME Germany GmbH	G03G 15/00	B01D 53/18
(73) KME Germany GmbH	(00) Merge	C01B 31/20
(11) EP1920850	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(00) Assignment
(00) 21.03.2022	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(71) SIIICO TECHNOLOGY CO., LTD.
(51) B05B 15/08	(11) EP2083332	(73) SIIICO TECHNOLOGY CO., LTD.
B05D 3/02	(00) 08.03.2022	(11) EP2113355
B05D 5/06	(51) G03G 15/08	(00) 10.03.2022
B05D 7/14	(00) Merge	(51) B29B 7/00
B05D 7/16	(71) OKI ELECTRIC INDUSTRY CO., LTD.	B29B 7/16
B05D 7/26	(73) OKI ELECTRIC INDUSTRY CO., LTD.	B29B 7/44
	(11) EP1837191	B29C 45/46
	(00) 08.03.2022	B29C 45/53
	(51) B41J 3/407	
	B41J 11/00	

B29C 45/58	(00) Demerger	(00) Merge
B29C 47/36	(71) Reuter GmbH & Co. KG	(71) OKI ELECTRIC INDUSTRY CO., LTD.
B29C 47/58	(73) Reuter GmbH & Co. KG	(73) OKI ELECTRIC INDUSTRY CO., LTD.
F04C 2/344	(11) EP2868779	(11) EP1895368
(00) Assignment	(00) 14.03.2022	(00) 08.03.2022
(71) OKI ELECTRIC INDUSTRY CO., LTD.	(51) C25F 1/02	(51) G03G 15/08
(73) OKI ELECTRIC INDUSTRY CO., LTD.	C25F 3/16	(00) Merge
(11) EP2426560	C25F 7/00	(71) Aker Carbon Capture Norway AS
(00) 08.03.2022	(00) Assignment	(73) Aker Carbon Capture Norway AS
(51) G03G 15/08	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(11) EP2405989
(00) Merge	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(00) 17.03.2022
(71) Aker Carbon Capture Norway AS	(11) EP2216689	(51) B01D 53/14
(73) Aker Carbon Capture Norway AS	(00) 08.03.2022	(00) Assignment
(11) EP2131943	(51) G03G 15/08	(71) OKI ELECTRIC INDUSTRY CO., LTD.
(00) 17.03.2022	G03G 21/18	(73) OKI ELECTRIC INDUSTRY CO., LTD.
(51) B01D 53/14	(00) Merge	(11) EP1699091
(00) Assignment	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(00) 08.03.2022
(71) Industriële Handelsmaatschappij	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(51) G03G 15/04
Spijkerman B.V.	(11) EP1487191	G03G 15/32
Allinq Mobile B.V.	(00) 08.03.2022	H01L 23/00
(73) Allinq Mobile B.V.	(51) H04N 1/40	H01L 27/15
Industriële Handelsmaatschappij	(00) Merge	H01L 27/32
Spijkerman B.V.	(71) OKI ELECTRIC INDUSTRY CO., LTD.	H01L 33/00
(11) EP2431532	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(00) Merge
(00) 08.03.2022	(11) EP2237112	(71) Vestas Wind Systems A/S
(51) E02D 27/42	(00) 08.03.2022	(73) Vestas Wind Systems A/S
E04H 12/10	(51) G03G 15/08	(11) EP2630307
H01Q 1/12	(00) Merge	(00) 21.03.2022
(00) Change of owner(s) name	(71) ITALCEMENTI S.p.A.	(51) E02D 27/42
(71) Aker Carbon Capture Norway AS	(73) ITALCEMENTI S.p.A.	E04H 12/34
(73) Aker Carbon Capture Norway AS	(11) EP2935146	(00) Assignment
(11) EP2200731	(00) 09.03.2022	(71) Vestas Wind Systems A/S
(00) 17.03.2022	(51) C04B 7/32	(73) Vestas Wind Systems A/S
(51) B01D 53/14	C04B 28/04	(11) EP2556242
(00) Assignment	C04B 28/06	(00) 21.03.2022
(71) OKI ELECTRIC INDUSTRY CO., LTD.	C04B 28/16	(51) B63B 35/00
(73) OKI ELECTRIC INDUSTRY CO., LTD.	C04B 111/70	F03D 1/00
(11) EP2141022	C04B 111/76	G06Q 10/00
(00) 08.03.2022	(00) Assignment	(00) Assignment
(51) B41J 2/45	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(71) Ola Electric Mobility B.V.
H01L 21/78	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(73) Ola Electric Mobility B.V.
H01L 27/15	(11) EP2290464	(11) 2017515
(00) Merge	(00) 08.03.2022	(00) 11.03.2022
(71) Aker Carbon Capture Norway AS	(51) G03G 15/08	(51) B62K 11/10
(73) Aker Carbon Capture Norway AS	(00) Merge	B62K 19/16
(11) EP2445611	(71) OKI ELECTRIC INDUSTRY CO., LTD.	B62K 19/08
(00) 17.03.2022	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(00) Assignment
(51) B01D 53/14	(11) EP2305477	(71) FUJIFILM Healthcare Corporation
B01D 53/62	(00) 08.03.2022	(73) FUJIFILM Healthcare Corporation
(00) Assignment	(51) B41J 2/21	(11) EP2471458
(71) VIVO MOBILE COMMUNICATION CO., LTD.	B41J 2/41	(00) 09.03.2022
(73) VIVO MOBILE COMMUNICATION CO., LTD.	(00) Merge	(51) A61B 6/00
(11) EP2636036	(71) OKI ELECTRIC INDUSTRY CO., LTD.	A61B 6/10
(00) 16.03.2022	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(00) Assignment
(51) H04R 5/02	(11) EP2328176	(71) Vestas Wind Systems A/S
H04S 3/00	(00) 08.03.2022	(73) Vestas Wind Systems A/S
G10L 19/008	(51) G02B 3/00	(11) EP3004636
(00) Assignment	H01L 27/15	(00) 21.03.2022
(71) HULKA S.r.l.	H01L 33/58	(51) F03D 7/02
(73) HULKA S.r.l.	(00) Merge	(00) Assignment
(11) EP2334186	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(71) Aker Carbon Capture Norway AS
(00) 14.03.2022	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(73) Aker Carbon Capture Norway AS
(51) A01N 49/00	(11) EP1582938	(11) EP2729233
A01N 55/10	(00) 08.03.2022	(00) 17.03.2022
A01P 7/00	(51) G03G 15/08	(51) B01D 53/14
	G03G 21/10	(00) Assignment
	G03G 21/12	(71) Aker Carbon Capture Norway AS

(73) Aker Carbon Capture Norway AS	(51) G02B 3/00	(00) Assignment
(11) EP2941517	G02B 27/01	(71) Ecoplant Europe I BV
(00) 17.03.2022	H01L 25/075	(73) Ecoplant Europe I BV
(51) B01D 53/14	H01L 33/58	(11) 2019040
B65D 90/04	(00) Merge	(00) 16.03.2022
B65D 90/50	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(51) H02S 40/42
E02D 19/00	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(00) Assignment
E04B 1/70	(11) EP1959313	(71) OKI ELECTRIC INDUSTRY CO., LTD.
E04H 7/18	(00) 08.03.2022	(73) OKI ELECTRIC INDUSTRY CO., LTD.
(00) Assignment	(51) G03G 15/08	(11) EP1968116
(71) OKI ELECTRIC INDUSTRY CO., LTD.	(00) Merge	(00) 08.03.2022
(73) OKI ELECTRIC INDUSTRY CO., LTD.	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(51) H01L 25/075
(11) EP2267557	(73) OKI ELECTRIC INDUSTRY CO., LTD.	H01L 51/00
(00) 08.03.2022	(11) EP2615050	H01L 33/20
(51) G03G 21/10	(00) 08.03.2022	H01L 33/64
G03G 21/18	(51) B65H 29/12	(00) Merge
(00) Merge	B65H 29/52	(71) OKI ELECTRIC INDUSTRY CO., LTD.
(71) OKI ELECTRIC INDUSTRY CO., LTD.	G03G 15/00	(73) OKI ELECTRIC INDUSTRY CO., LTD.
(73) OKI ELECTRIC INDUSTRY CO., LTD.	G03G 15/20	(11) EP1569047
(11) EP2272677	(00) Merge	(00) 08.03.2022
(00) 08.03.2022	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(51) G03G 15/20
(51) B41J 2/45	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(00) Merge
H01L 27/15	(11) EP1515367	(71) Aker Carbon Capture Norway AS
H01L 33/00	(00) 08.03.2022	(73) Aker Carbon Capture Norway AS
(00) Merge	(51) B41J 2/45	(11) EP2928583
(71) Wolfspeed, Inc.	H01L 27/15	(00) 17.03.2022
(73) Wolfspeed, Inc.	(00) Merge	(51) B01D 53/14
(11) EP2261959	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(00) Assignment
(00) 11.03.2022	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(71) OKI ELECTRIC INDUSTRY CO., LTD.
(51) H01L 21/265	(11) EP2026141	(73) OKI ELECTRIC INDUSTRY CO., LTD.
H01L 21/335	(00) 08.03.2022	(11) EP2933107
(00) Change of owner(s) name	(51) G03G 15/08	(00) 08.03.2022
(71) OKI ELECTRIC INDUSTRY CO., LTD.	(00) Merge	(51) B41J 2/01
(73) OKI ELECTRIC INDUSTRY CO., LTD.	(71) Brama Systems B.V.	B41J 29/377
(11) EP2610910	(73) Brama Systems B.V.	(00) Merge
(00) 08.03.2022	(11) 2018694	(71) Vestas Wind Systems A/S
(51) B41J 2/45	(00) 18.03.2022	(73) Vestas Wind Systems A/S
H01L 27/15	(51) H04L 9/32	(11) EP2691649
(00) Merge	H04L 29/06	(00) 21.03.2022
(71) Ola Electric Mobility B.V.	(00) Assignment	(51) F03D 80/80
(73) Ola Electric Mobility B.V.	(71) Vestas Wind Systems A/S	(00) Assignment
(11) 2018466	(73) Vestas Wind Systems A/S	(71) Anison Therapeutics Oy
(00) 11.03.2022	(11) EP2616670	(73) Anison Therapeutics Oy
(51) B62J 99/00	(00) 21.03.2022	(11) EP2895162
B62K 23/02	(51) F03D 1/00	(00) 23.03.2022
H01H 13/85	F03D 1/06	(51) A61K 9/107
(00) Assignment	(00) Assignment	A61K 9/48
(71) OKI ELECTRIC INDUSTRY CO., LTD.	(71) Wolfspeed, Inc.	A61K 31/365
(73) OKI ELECTRIC INDUSTRY CO., LTD.	(73) Wolfspeed, Inc.	A61P 31/20
(11) EP2762982	(11) EP2690653	A61P 35/00
(00) 08.03.2022	(00) 11.03.2022	(00) Assignment
(51) G03G 15/00	(51) H01L 21/265	(71) VIVO MOBILE COMMUNICATION CO., LTD.
G03G 15/08	H01L 21/335	(73) VIVO MOBILE COMMUNICATION CO., LTD.
G03G 21/16	H01L 29/20	(11) EP1771146
G03G 21/18	(00) Change of owner(s) name	(00) 16.03.2022
H05K 13/00	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(51) H04L 29/06
(00) Merge	(73) OKI ELECTRIC INDUSTRY CO., LTD.	H04N 5/04
(71) OKI ELECTRIC INDUSTRY CO., LTD.	(11) EP2110713	(00) Assignment
(73) OKI ELECTRIC INDUSTRY CO., LTD.	(00) 08.03.2022	(71) Vivus LLC
(11) EP2110713	(51) H04N 5/74	(73) Vivus LLC
(00) 08.03.2022	H04N 9/31	(11) EP2317997
(51) G03G 15/08	(00) Merge	(00) 18.03.2022
(00) Merge	(71) mu-Drop B.V.	(51) A61K 9/16
(71) OKI ELECTRIC INDUSTRY CO., LTD.	(73) mu-Drop B.V.	A61K 9/48
(73) OKI ELECTRIC INDUSTRY CO., LTD.	(11) 2019093	A61K 9/50
(11) EP2544233	(00) 18.03.2022	
(00) 08.03.2022	(51) B65B 9/12	

A61K 31/00	(00) 21.03.2022	(00) 18.03.2022
A61K 31/135	(51) C22C 9/04	(51) A61B 17/11
A61K 31/137	(00) Change of Legal Entity	A61F 2/06
A61K 31/35	(71) Fricke GmbH	A61F 2/82
A61K 31/357	(73) KME Germany GmbH	A61F 2/07
A61K 31/7048	(11) EP2906733	A61F 2/852
A61K 47/38	(00) 21.03.2022	(00) Assignment
A61P 3/04	(51) C22C 9/04	(71) Virbac S.A.
(00) Change of Legal Entity	(00) Assignment	(73) VIRBAC
(71) OKI ELECTRIC INDUSTRY CO., LTD.	(71) Ecolab USA Inc.	(11) EP2225206
(73) OKI ELECTRIC INDUSTRY CO., LTD.	(73) Ecolab USA Inc.	(00) 10.03.2022
(11) EP2479619	(11) EP2240013	(51) A01N 37/22
(00) 08.03.2022	(00) 23.03.2022	A01N 43/40
(51) G03G 15/32	(51) A01N 25/02	C07C 237/42
(00) Merge	A01N 33/02	C07D 213/60
(71) Aker Carbon Capture Norway AS	A01N 33/12	(00) Assignment
(73) Aker Carbon Capture Norway AS	A01P 1/00	(71) OKI ELECTRIC INDUSTRY CO., LTD.
(11) EP2729232	(00) Assignment	(73) OKI ELECTRIC INDUSTRY CO., LTD.
(00) 17.03.2022	(71) Leviat GmbH	(11) EP2573624
(51) B01D 53/14	(73) Leviat GmbH	(00) 08.03.2022
B01D 53/18	(11) EP3258022	(51) G03G 15/00
B32B 13/12	(00) 16.03.2022	(00) Merge
B32B 15/085	(51) E04B 1/41	(71) OKI ELECTRIC INDUSTRY CO., LTD.
C09K 15/08	E21D 11/08	(73) OKI ELECTRIC INDUSTRY CO., LTD.
F16L 58/10	(00) Merge	(11) EP1927898
(00) Assignment	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(00) 08.03.2022
(71) WATERDIAM FRANCE	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(51) G03G 15/08
(73) WATERDIAM FRANCE	(11) EP2381320	G03G 21/10
(11) EP2893812	(00) 08.03.2022	G03G 21/12
(00) 10.03.2022	(51) G03G 15/04	(00) Merge
(51) A23B 7/00	G03G 15/32	(71) OKI ELECTRIC INDUSTRY CO., LTD.
A23B 7/022	(00) Merge	(73) OKI ELECTRIC INDUSTRY CO., LTD.
(00) Assignment	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(11) EP2871528
(71) OKI ELECTRIC INDUSTRY CO., LTD.	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(00) 08.03.2022
(73) OKI ELECTRIC INDUSTRY CO., LTD.	(11) EP1632820	(51) G03G 15/02
(11) EP1434108	(00) 08.03.2022	G03G 15/16
(00) 08.03.2022	(51) G03G 15/08	(00) Merge
(51) G03G 15/08	(00) Merge	(71) Vestas Wind Systems A/S
(00) Merge	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(73) Vestas Wind Systems A/S
(71) KME Germany GmbH	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(11) EP2882960
(73) KME Germany GmbH	(11) EP2979876	(00) 21.03.2022
(11) EP2906733	(00) 08.03.2022	(51) F03D 7/02
(00) 21.03.2022	(51) B41J 2/01	(00) Assignment
(51) C22C 9/04	B41J 2/17	(71) Rolling Wireless Co., Ltd.
(00) Change of owner(s) name	B41J 2/175	(73) Rolling Wireless Co., Ltd.
(71) OKI ELECTRIC INDUSTRY CO., LTD.	B41J 11/00	(11) EP1579653
(73) OKI ELECTRIC INDUSTRY CO., LTD.	B41J 29/13	(00) 11.03.2022
(11) EP3153928	B41J 29/377	(51) H04L 29/06
(00) 08.03.2022	(00) Merge	(00) Assignment
(51) G03G 15/00	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(71) Japan Lifeline, Co., Ltd.
(00) Merge	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(73) Japan Lifeline, Co., Ltd.
(71) Digital Tags Finland Oy	(11) EP2322995	(11) EP2785277
(73) Digital Tags Finland Oy	(00) 08.03.2022	(00) 18.03.2022
(11) EP2810541	(51) G03G 15/08	(51) A61F 2/07
(00) 23.03.2022	(00) Merge	A61F 2/82
(51) B05B 1/30	(71) OKI ELECTRIC INDUSTRY CO., LTD.	A61F 2/95
B05B 5/14	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(00) Assignment
B05B 5/16	(11) EP2933108	(71) VIRBAC
B05B 17/06	(00) 08.03.2022	(73) VIRBAC
H05K 1/03	(51) B41J 2/01	(11) EP2225206
H05K 3/10	B41J 2/21	(00) 10.03.2022
H05K 3/12	B41J 19/14	(51) A01N 37/22
H05K 3/14	B41J 29/393	A01N 43/40
(00) Assignment	(00) Merge	C07C 237/42
(71) KME Germany GmbH	(71) Japan Lifeline, Co., Ltd.	C07D 213/60
(73) KME Germany GmbH	(73) Japan Lifeline, Co., Ltd.	(00) Change of Legal Entity
(11) EP2906733	(11) EP2729095	(71) OKI ELECTRIC INDUSTRY CO., LTD.

(73) OKI ELECTRIC INDUSTRY CO., LTD.	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(51) F03D 80/60
(11) EP3088193	(11) EP2570860	F03D 80/80
(00) 08.03.2022	(00) 08.03.2022	(00) Assignment
(51) B41J 15/04	(51) G03G 21/16	(71) Vestas Wind Systems A/S
B65H 18/26	G03G 21/18	(73) Vestas Wind Systems A/S
B65H 23/188	(00) Merge	(11) EP3039192
B65H 23/195	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(00) 21.03.2022
B65H 23/198	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(51) E02B 17/00
B65H 26/04	(11) EP3244265	E02B 17/02
(00) Merge	(00) 08.03.2022	E02D 7/00
(71) KaVo Dental GmbH	(51) G03G 15/08	E02D 7/02
(73) KaVo Dental GmbH	G03G 21/16	E02D 13/04
(11) EP2995274	(00) Merge	E02D 17/00
(00) 14.03.2022	(71) mu-Drop B.V.	E02D 27/12
(51) A61C 1/00	(73) mu-Drop B.V.	E02D 27/16
A61C 1/12	(11) 2024745	E02D 27/42
A61C 1/14	(00) 18.03.2022	E02D 27/52
(00) Assignment	(51) B65B 9/12	(00) Assignment
(71) OKI ELECTRIC INDUSTRY CO., LTD.	B65B 3/02	(71) OKI ELECTRIC INDUSTRY CO., LTD.
(73) OKI ELECTRIC INDUSTRY CO., LTD.	B65B 9/20	(73) OKI ELECTRIC INDUSTRY CO., LTD.
(11) EP3147714	(00) Assignment	(11) EP2525260
(00) 08.03.2022	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(00) 08.03.2022
(51) G03G 15/00	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(51) G03G 15/00
G03G 15/01	(11) EP2938056	(00) Merge
(00) Merge	(00) 08.03.2022	(71) Leviat GmbH
(71) OKI ELECTRIC INDUSTRY CO., LTD.	(51) H04N 1/00	(73) Leviat GmbH
(73) OKI ELECTRIC INDUSTRY CO., LTD.	(00) Merge	(11) EP2937481
(11) EP2677417	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(00) 16.03.2022
(00) 08.03.2022	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(51) E04B 1/00
(51) G06F 3/12	(11) EP2998796	(00) Merge
(00) Merge	(00) 08.03.2022	(71) OKI ELECTRIC INDUSTRY CO., LTD.
(71) OKI ELECTRIC INDUSTRY CO., LTD.	(51) G03G 15/06	(73) OKI ELECTRIC INDUSTRY CO., LTD.
(73) OKI ELECTRIC INDUSTRY CO., LTD.	(00) Merge	(11) EP2829923
(11) EP1394627	(71) Vestas Wind Systems A/S	(00) 08.03.2022
(00) 08.03.2022	(73) Vestas Wind Systems A/S	(51) G03G 21/16
(51) G03G 15/08	(11) EP3237750	(00) Merge
(00) Merge	(00) 21.03.2022	(71) Digital Tags Finland Oy
(71) Digital Tags Finland Oy	(51) B63B 35/00	(73) Digital Tags Finland Oy
(73) Digital Tags Finland Oy	F03D 13/40	(11) EP2643254
(11) EP2810540	(00) Assignment	(00) 23.03.2022
(00) 23.03.2022	(71) UD TRUCKS CORPORATION	(51) B65H 75/18
(51) H05K 1/03	(73) UD TRUCKS CORPORATION	G06K 19/077
H05K 3/10	(11) EP3070809	(00) Assignment
H05K 3/12	(00) 17.03.2022	(71) Vestas Wind Systems A/S
(00) Assignment	(51) H02J 7/00	(73) Vestas Wind Systems A/S
(71) FUJIFILM Healthcare Corporation	B60L 3/00	(11) EP2673499
(73) FUJIFILM Healthcare Corporation	B60L 50/50	(00) 21.03.2022
(11) EP2000096	(00) Assignment	(51) F03D 13/20
(00) 09.03.2022	(71) Digital Tags Finland Oy	F03D 80/50
(51) G01S 7/52	(73) Digital Tags Finland Oy	F03D 80/60
G01S 15/89	(11) EP2298045	(00) Assignment
(00) Assignment	(00) 23.03.2022	(71) Leviat GmbH
(71) OKI ELECTRIC INDUSTRY CO., LTD.	(51) C23C 24/10	(73) Leviat GmbH
(73) OKI ELECTRIC INDUSTRY CO., LTD.	C23C 26/00	(11) EP2937492
(11) EP2405307	H05K 1/03	(00) 16.03.2022
(00) 08.03.2022	H05K 3/12	(51) E04B 1/38
(51) G03G 15/08	(00) Assignment	E04B 1/41
(00) Merge	(71) OKI ELECTRIC INDUSTRY CO., LTD.	E04F 13/08
(71) OKI ELECTRIC INDUSTRY CO., LTD.	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(00) Merge
(73) OKI ELECTRIC INDUSTRY CO., LTD.	(11) EP2098919	(71) Vestas Wind Systems A/S
(11) EP3264191	(00) 08.03.2022	(73) Vestas Wind Systems A/S
(00) 08.03.2022	(51) G03G 15/20	(11) EP3204638
(51) G03G 15/08	(00) Merge	(00) 21.03.2022
G03G 21/16	(71) Vestas Wind Systems A/S	(51) F03D 1/00
G03G 21/18	(73) Vestas Wind Systems A/S	F03D 13/00
(00) Merge	(11) EP3104003	F03D 13/20
(71) OKI ELECTRIC INDUSTRY CO., LTD.	(00) 21.03.2022	(00) Assignment

(71) OKI ELECTRIC INDUSTRY CO., LTD.	(73) HULKA S.r.l.	(00) 11.03.2022
(73) OKI ELECTRIC INDUSTRY CO., LTD.	(11) EP2994172	(51) H01L 29/778
(11) EP2511770	(00) 14.03.2022	(00) Change of owner(s) name
(00) 08.03.2022	(51) A61K 9/00	(71) Leviat GmbH
(51) G03G 15/04	A61K 9/70	(73) Leviat GmbH
(00) Merge	A61K 31/355	(11) EP3081708
(71) ADVANCED INNERGY LTD	A61L 15/26	(00) 16.03.2022
(73) ADVANCED INNERGY LTD	A61L 15/44	(51) E04B 1/41
(11) EP3303460	A61K 47/34	F16B 37/04
(00) 23.03.2022	(00) Demerger	(00) Merge
(51) C08J 9/00	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(71) OKI ELECTRIC INDUSTRY CO., LTD.
C08J 9/32	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(73) OKI ELECTRIC INDUSTRY CO., LTD.
C08K 5/521	(11) EP1526574	(11) EP2287912
C08L 61/10	(00) 08.03.2022	(00) 08.03.2022
(00) Change of owner(s) name	(51) B41J 2/45	(51) H01L 27/15
(71) Digital Tags Finland Oy	H01L 21/683	H01L 33/62
(73) Digital Tags Finland Oy	H01L 25/075	(00) Merge
(11) EP3254542	H01L 33/00	(71) Sharpfield Holding B.V.
(00) 23.03.2022	(00) Merge	(73) Sharpfield Holding B.V.
(51) B25J 9/16	(71) Institute of Vegetables and Flowers, Shandong Academy of Agricultural Sciences	(11) 2021051
B65G 47/14	(11) 2026261	(00) 22.03.2022
B65G 47/248	(00) 10.03.2022	(51) A61M 5/32
H01L 21/67	(51) C12Q 1/6876	(00) Assignment
H01L 21/68	C12Q 1/6895	(71) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN
H05K 3/12	C12N 15/11	(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN
H05K 3/32	(00) Change of owner(s) name	(11) EP3478485
H05K 13/02	(71) Crane Payment Innovations, Inc.	(00) 23.03.2022
H05K 13/04	(73) Crane Payment Innovations, Inc.	(51) B29D 30/02
H05K 13/08	(11) EP2737459	B29D 30/68
(00) Assignment	(00) 23.03.2022	B29D 30/72
(71) Vestas Wind Systems A/S	(51) G07F 9/00	B60C 19/08
(73) Vestas Wind Systems A/S	G07F 9/02	(00) Assignment
(11) EP2185816	G07F 11/00	(71) OKI ELECTRIC INDUSTRY CO., LTD.
(00) 21.03.2022	G06Q 10/08	(73) OKI ELECTRIC INDUSTRY CO., LTD.
(51) F03D 13/25	(00) Assignment	(11) EP2610687
(00) Assignment	(71) HULKA S.r.l.	(00) 08.03.2022
(71) mu-Drop B.V.	(73) HULKA S.r.l.	(51) G03G 15/20
(73) mu-Drop B.V.	(11) EP3352724	(00) Merge
(11) EP3125839	(00) 14.03.2022	(71) OKI ELECTRIC INDUSTRY CO., LTD.
(00) 18.03.2022	(51) A61K 8/04	(73) OKI ELECTRIC INDUSTRY CO., LTD.
(51) A61F 9/00	A61K 8/37	(11) EP3081990
(00) Assignment	A61K 8/67	(00) 08.03.2022
(71) Leviat GmbH	A61K 8/92	(51) G03G 15/08
(73) Leviat GmbH	(00) Demerger	(00) Merge
(11) EP3081707	(71) ADVANCED INNERGY LTD	(71) UD TRUCKS CORPORATION
(00) 16.03.2022	(73) ADVANCED INNERGY LTD	(73) UD TRUCKS CORPORATION
(51) E04B 1/41	(11) EP3120067	(11) EP3392108
F16B 37/04	(00) 23.03.2022	(00) 17.03.2022
(00) Merge	(51) B32B 1/02	(51) B60W 10/06
(71) wks Technik GmbH	B32B 3/06	B60W 10/08
WP Holding GmbH	B32B 3/26	F02B 39/10
(73) wks Technik GmbH	B32B 3/30	F02D 23/00
WP Holding GmbH	B32B 5/22	F02D 23/02
(11) EP3563446	B32B 5/32	F02D 41/00
(00) 21.03.2022	B32B 7/08	B60K 6/24
(51) H01M 10/54	B32B 15/04	B60K 6/485
(00) Change of owner(s) name	B32B 15/08	B60W 30/188
(71) Shanghai Microport Medbot (Group) Co., Ltd.	B32B 15/085	B60W 20/00
(73) Shanghai Microport Medbot (Group) Co., Ltd.	B32B 15/095	B60W 20/10
(11) EP3556314	B32B 15/098	B60W 20/11
(00) 11.03.2022	F16L 59/02	B60W 20/13
(51) B25J 9/10	(00) Change of owner(s) name	(00) Assignment
A61B 34/30	(71) Wolfspeed, Inc.	(71) ADVANCED INNERGY LTD
(00) Change of owner(s) name	(73) Wolfspeed, Inc.	(73) ADVANCED INNERGY LTD
(71) HULKA S.r.l.	(11) EP1900036	(11) EP2150403

(00) 23.03.2022	(51) E04B 1/00	C07D 495/22
(51) B32B 5/18	E04C 5/02	C07D 495/12
B32B 27/42	(00) Merge	C07D 519/00
F16L 59/02	(71) OKI ELECTRIC INDUSTRY CO., LTD.	A61K 31/519
(00) Change of owner(s) name	(73) OKI ELECTRIC INDUSTRY CO., LTD.	A61P 25/00
(71) ARGORNA PHARMACEUTICALS LIMITED	(11) EP3070530	A61P 9/00
(73) ARGORNA PHARMACEUTICALS LIMITED	(00) 08.03.2022	(00) Change of owner(s) name
(11) EP3237619	(51) G03G 15/08	(71) Dart NeuroScience, LLC
(00) 14.03.2022	G03G 21/10	(73) Dart NeuroScience LLC
(51) A61K 48/00	G03G 21/12	(11) EP3489238
A61P 19/02	(00) Merge	(00) 21.03.2022
A61P 29/00	(71) Pouran Vali-Pursche	(51) C07D 471/14
C12N 15/11	(73) Pouran Vali-Pursche	C07D 487/14
C12N 15/113	(11) EP3363405	C07D 491/147
(00) Assignment	(00) 11.03.2022	C07D 495/14
(71) OKI ELECTRIC INDUSTRY CO., LTD.	(51) A61C 7/08	C07D 495/22
(73) OKI ELECTRIC INDUSTRY CO., LTD.	(00) Change of owner(s) name	C07D 495/12
(11) EP2518532	(71) Leviat GmbH	C07D 519/00
(00) 08.03.2022	(73) Leviat GmbH	A61K 31/519
(51) B41J 2/45	(11) EP3214235	A61P 25/00
G02B 3/00	(00) 16.03.2022	A61P 9/00
G02B 13/00	(51) E04B 1/04	(00) Assignment
G03G 15/04	E04B 1/41	(71) Dart NeuroScience, LLC
G03G 15/043	F16B 5/02	(73) Dart NeuroScience LLC
H04N 1/031	F16B 43/00	(11) EP3597649
(00) Merge	(00) Merge	(00) 21.03.2022
(71) DELTA COSWORTH LIMITED	(71) SHENZHEN SMARTSAFE TECH CO., LTD.	(51) A61K 31/519
(73) DELTA COSWORTH LIMITED	(73) SHENZHEN SMARTSAFE TECH CO., LTD.	A61P 25/28
(11) EP3513043	(11) EP3614168	(00) Assignment
(00) 08.03.2022	(00) 21.03.2022	(71) Dart NeuroScience LLC
(51) F01D 15/10	(51) B60W 30/14	(73) Dart NeuroScience LLC
F01D 25/16	G01B 11/27	(11) EP3597649
F02C 6/12	G01B 11/275	(00) 21.03.2022
F02C 7/08	G01S 7/40	(51) A61K 31/519
(00) Change of owner(s) name	B60W 30/12	A61P 25/28
(71) UD TRUCKS CORPORATION	G01S 13/931	(00) Change of owner(s) name
(73) UD TRUCKS CORPORATION	(00) Assignment	(71) HULKA S.r.l.
(11) EP2919370	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(73) HULKA S.r.l.
(00) 17.03.2022	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(11) EP3253383
(51) B60L 50/40	(11) EP2913717	(00) 14.03.2022
B60L 50/60	(00) 08.03.2022	(51) A61K 8/31
(00) Assignment	(51) G03G 15/00	A61K 9/00
(71) Metso Outotec Sweden AB	(00) Merge	A61K 31/355
(73) Metso Outotec Sweden AB	(71) OKI ELECTRIC INDUSTRY CO., LTD.	A61Q 90/00
(11) EP3527425	(73) OKI ELECTRIC INDUSTRY CO., LTD.	A61K 47/44
(00) 23.03.2022	(11) EP1850190	(00) Demerger
(51) B60P 1/28	(00) 08.03.2022	(71) Qrypt, Inc.
(00) Change of owner(s) name	(51) G03G 15/00	(73) Qrypt, Inc.
(71) OKI ELECTRIC INDUSTRY CO., LTD.	G03G 21/16	(11) EP3609116
(73) OKI ELECTRIC INDUSTRY CO., LTD.	G03G 21/18	(00) 11.03.2022
(11) EP2455226	(00) Merge	(51) H04L 9/06
(00) 08.03.2022	(71) Leviat GmbH	H04L 9/08
(51) B41J 31/16	(73) Leviat GmbH	H04L 9/12
B41J 32/02	(11) EP3611307	H04L 9/16
(00) Merge	(00) 16.03.2022	(00) Assignment
(71) OKI ELECTRIC INDUSTRY CO., LTD.	(51) E04B 1/41	(71) Digital Tags Finland Oy
(73) OKI ELECTRIC INDUSTRY CO., LTD.	(00) Merge	(73) Digital Tags Finland Oy
(11) EP2897352	(71) Dart NeuroScience LLC	(11) EP3583052
(00) 08.03.2022	(73) Dart NeuroScience LLC	(00) 23.03.2022
(51) H04N 1/00	(11) EP3489238	(51) B65D 85/10
(00) Merge	(00) 21.03.2022	G06K 19/00
(71) Leviat GmbH	(51) C07D 471/14	(00) Assignment
(73) Leviat GmbH	C07D 487/14	(71) Leviat GmbH
(11) EP2653625	C07D 491/147	(11) EP3348746
(00) 16.03.2022	C07D 495/14	(00) 16.03.2022
		(51) E04C 2/04

E04F 13/08	(71) Ecoplant Europe I BV	(00) Demerger
E04F 13/14	(73) Ecoplant Europe I BV	(71) Leviat GmbH
F16B 5/00	(11) 2023106	(73) Leviat GmbH
F16B 5/02	(00) 16.03.2022	(11) EP3594431
F16B 19/02	(51) F24S 25/65	(00) 16.03.2022
(00) Merge	H02S 20/00	(51) E04G 21/14
(71) Graf Industries S.p.A.	(00) Assignment	B66C 1/66
(73) Graf Industries S.p.A.	(71) Rochal Technologies LLC	(00) Merge
(11) EP3701129	(73) Rochal Technologies LLC	(71) MicroSintesis Inc.
(00) 11.03.2022	(11) EP3283057	(73) MicroSintesis Inc.
(51) F01L 15/16	(00) 08.03.2022	(11) EP2307444
F01B 23/00	(51) A61K 9/14	(00) 17.03.2022
F01L 5/04	A61P 9/00	(51) C07K 4/04
(00) Change of owner(s) name	A61K 35/12	A61K 35/74
(71) HULKA S.r.l.	A61K 47/42	A61K 9/19
(73) HULKA S.r.l.	(00) Assignment	A61P 1/00
(11) EP3122323	(71) Leviat GmbH	A61P 31/04
(00) 14.03.2022	(73) Leviat GmbH	(00) Assignment
(51) A61K 8/06	(11) EP2908014	(71) Technische Universiteit Delft
A61K 8/37	(00) 16.03.2022	(73) Technische Universiteit Delft
A61K 8/67	(51) F16B 1/00	(11) 2023826
A61K 8/73	(00) Merge	(00) 23.03.2022
A61Q 19/00	(71) Wingcopter GmbH	(51) C12N 11/18
A61Q 19/10	(73) Wingcopter GmbH	C12P 7/04
A61K 8/97	(11) EP3634850	C12M 1/00
(00) Demerger	(00) 18.03.2022	C12M 1/40
(71) OKI ELECTRIC INDUSTRY CO., LTD.	(51) G05D 1/08	(00) Assignment
(73) OKI ELECTRIC INDUSTRY CO., LTD.	B64C 29/00	(71) Biohaven Therapeutics Ltd.
(11) EP3196703	(00) Assignment	(73) Biohaven Therapeutics Ltd.
(00) 08.03.2022	(71) Leviat GmbH	(11) EP3458053
(51) B41J 2/45	(73) Leviat GmbH	(00) 15.03.2022
G03G 15/04	(11) EP3388690	(51) A61K 31/428
G03G 15/043	(00) 16.03.2022	C07D 277/82
(00) Merge	(51) F16B 9/02	A61P 35/00
(71) Wolfsped, Inc.	H02G 3/00	(00) Assignment
(73) Wolfsped, Inc.	(00) Merge	(71) OKI ELECTRIC INDUSTRY CO., LTD.
(11) EP2904641	(71) Vestas Wind Systems A/S	(73) OKI ELECTRIC INDUSTRY CO., LTD.
(00) 11.03.2022	(73) Vestas Wind Systems A/S	(11) EP3106313
(51) H01L 23/31	(11) EP3308017	(00) 08.03.2022
H01L 29/778	(00) 21.03.2022	(51) B41J 11/00
(00) Change of owner(s) name	(51) F03D 80/00	B41J 19/20
(71) Leviat GmbH	F03D 80/10	B41J 29/38
(73) Leviat GmbH	(00) Assignment	(00) Merge
(11) EP2998458	(71) SHIRATRONICS, INC.	(71) OKI ELECTRIC INDUSTRY CO., LTD.
(00) 16.03.2022	(73) SHIRATRONICS, INC.	(73) OKI ELECTRIC INDUSTRY CO., LTD.
(51) E04F 13/08	(11) EP3060293	(11) EP3136178
(00) Merge	(00) 18.03.2022	(00) 08.03.2022
(71) OKI ELECTRIC INDUSTRY CO., LTD.	(51) A61N 1/05	(51) G03G 15/00
(73) OKI ELECTRIC INDUSTRY CO., LTD.	A61N 1/378	G03G 21/04
(11) EP2942671	A61N 1/372	(00) Merge
(00) 08.03.2022	A61N 1/375	(71) HULKA S.r.l.
(51) G03G 15/08	A61N 1/36	(73) HULKA S.r.l.
(00) Merge	(00) Assignment	(11) EP3061446
(71) Vestas Wind Systems A/S	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(00) 14.03.2022
(73) Vestas Wind Systems A/S	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(51) A61K 9/08
(11) EP2807373	(11) EP2450752	A61K 9/12
(00) 21.03.2022	(00) 08.03.2022	A61K 31/355
(51) B63B 39/03	(51) G03G 15/08	A61K 47/24
F03D 7/04	(00) Merge	A61P 17/02
F03D 13/25	(71) HULKA S.r.l.	(00) Demerger
(00) Assignment	(73) HULKA S.r.l.	(71) OKI ELECTRIC INDUSTRY CO., LTD.
(71) Leviat GmbH	(11) EP3209294	(73) OKI ELECTRIC INDUSTRY CO., LTD.
(73) Leviat GmbH	(00) 14.03.2022	(11) EP2211386
(11) EP3202991	(51) A61K 9/00	(00) 08.03.2022
(00) 16.03.2022	A61K 31/355	(51) G02B 27/01
(51) E04B 1/00	A61P 11/02	H01L 27/15
(00) Merge	A61K 47/44	H01L 33/60

H01L 33/62	(51) E04B 1/04	(51) G03G 15/08
(00) Merge	E04B 1/41	G03G 21/16
(71) OKI ELECTRIC INDUSTRY CO., LTD.	F16B 5/02	G03G 21/18
(73) OKI ELECTRIC INDUSTRY CO., LTD.	F16B 43/00	(00) Merge
(11) EP2541334	(00) Merge	(71) OKI ELECTRIC INDUSTRY CO., LTD.
(00) 08.03.2022	(71) Leviat GmbH	(73) OKI ELECTRIC INDUSTRY CO., LTD.
(51) G03G 15/08	(73) Leviat GmbH	(11) EP3409501
(00) Merge	(11) EP3348742	(00) 08.03.2022
(71) OKI ELECTRIC INDUSTRY CO., LTD.	(00) 16.03.2022	(51) B41M 5/025
(73) OKI ELECTRIC INDUSTRY CO., LTD.	(51) E04F 13/08	B44C 1/16
(11) EP2746857	(00) Merge	(00) Merge
(00) 08.03.2022	(71) Leviat GmbH	(71) Vestas Wind Systems A/S
(51) G03G 15/00	(73) Leviat GmbH	(73) Vestas Wind Systems A/S
G03G 15/01	(11) EP3385462	(11) EP3504149
(00) Merge	(00) 16.03.2022	(00) 21.03.2022
(71) Carlisle Intangible, LLC	(51) E04B 1/00	(51) B66C 23/18
(73) Carlisle Intangible, LLC	(00) Merge	F03D 80/50
(11) EP3418466	(71) FUJIFILM Healthcare Corporation	(00) Assignment
(00) 11.03.2022	(73) FUJIFILM Healthcare Corporation	(71) Leviat GmbH
(51) E04D 5/10	(11) EP2351520	(73) Leviat GmbH
E04D 13/04	(00) 09.03.2022	(11) EP3130713
C09J 7/24	(51) A61B 5/055	(00) 16.03.2022
B32B 27/30	G01R 33/34	(51) E04B 1/48
E04D 5/12	G01R 33/341	E04G 21/14
(00) Change of owner(s) name	(00) Assignment	(00) Merge
(71) Leviat GmbH	(71) HULKA S.r.l.	(71) OKI ELECTRIC INDUSTRY CO., LTD.
(73) Leviat GmbH	(73) HULKA S.r.l.	(73) OKI ELECTRIC INDUSTRY CO., LTD.
(11) EP3070225	(11) EP3493825	(11) EP3253040
(00) 16.03.2022	(00) 14.03.2022	(00) 08.03.2022
(51) E04B 5/43	(51) A61K 31/355	(51) A61B 5/00
E04C 5/06	A61K 36/53	H04N 1/00
(00) Merge	A61K 36/61	H04N 1/21
(71) Bode - Die Tür GmbH	A61K 36/752	H04N 1/23
(73) Bode - Die Tür GmbH	A61P 17/00	(00) Merge
(11) EP3702234	A61P 31/10	(71) Measurement Specialties, Inc.
(00) 11.03.2022	(00) Demerger	(73) Measurement Specialties, Inc.
(51) B61D 19/00	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(11) EP3353518
B61D 19/02	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(00) 11.03.2022
(00) Change of owner(s) name	(11) EP2492756	(51) G01L 9/00
(71) Leviat GmbH	(00) 08.03.2022	G01L 19/00
(73) Leviat GmbH	(51) G03G 15/08	G01L 19/04
(11) EP3208396	G03G 21/16	G01L 19/14
(00) 16.03.2022	(00) Merge	(00) Merge
(51) E04B 1/41	(71) OKI ELECTRIC INDUSTRY CO., LTD.	(71) Ecoplant Europe I BV
(00) Merge	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(73) Ecoplant Europe I BV
(71) HULKA S.r.l.	(11) EP2990877	(11) EP3635860
(73) HULKA S.r.l.	(00) 08.03.2022	(00) 16.03.2022
(11) EP3171873	(51) G03G 15/08	(51) H02S 40/42
(00) 14.03.2022	G03G 21/18	(00) Assignment
(51) A61K 9/00	(00) Merge	(71) Plant Protection Institute, Jiangxi
A61K 31/355	(71) OKI ELECTRIC INDUSTRY CO., LTD.	Academy of Agricultural Sciences
A61K 45/06	(73) OKI ELECTRIC INDUSTRY CO., LTD.	(73) Plant Protection Institute, Jiangxi
A61K 47/32	(11) EP2610685	Academy of Agricultural Sciences
A61P 11/02	(00) 08.03.2022	(11) 2027942
A61P 37/08	(51) G03G 15/08	(00) 06.03.2022
A61K 47/44	(00) Merge	(51) C12N 1/14
(00) Demerger	(71) Knoll Maschinenbau GmbH	C12N 3/00
(71) Leviat GmbH	(73) Knoll Maschinenbau GmbH	(00) Change of owner(s) name
(73) Leviat GmbH	(11) EP3442743	(71) DGI Group, LLC
(11) EP3153635	(00) 10.03.2022	(73) DGI Group, LLC
(00) 16.03.2022	(51) B23Q 11/10	(11) EP2531124
(51) E04B 1/00	B24B 55/02	(00) 16.03.2022
(00) Merge	(00) Assignment	(51) A61B 17/00
(71) Leviat GmbH	(71) OKI ELECTRIC INDUSTRY CO., LTD.	A61B 17/30
(73) Leviat GmbH	(73) OKI ELECTRIC INDUSTRY CO., LTD.	A61B 18/02
(11) EP3214234	(11) EP3299902	(00) Assignment
(00) 16.03.2022	(00) 08.03.2022	

(71) Crop Research Institute, Shandong
Academy of Agricultural Sciences
(11) 2028746
(00) 22.03.2022
(51) A01D 45/02
(00) Change of owner(s) name

(71) MirZyme Therapeutics Limited
(73) MirZyme Therapeutics Limited
(11) EP3270930
(00) 18.03.2022
(51) A61K 31/7105
G01N 33/50
A61P 9/12
A61P 9/00
(00) Assignment

(71) ADVANCED INNERGY LTD
(73) ADVANCED INNERGY LTD
(11) EP3440392
(00) 23.03.2022
(51) F16L 57/02
E21B 17/01
F16L 1/12
(00) Change of owner(s) name

(71) ADVANCED INNERGY LTD
(73) ADVANCED INNERGY LTD
(11) EP3455531
(00) 23.03.2022
(51) F16L 3/137
F16L 3/237
F16L 9/19
(00) Change of owner(s) name

(71) Momentive Performance Materials
Quartz, Inc.
(73) Momentive Performance Materials
Quartz, Inc.
(11) EP3568378
(00) 21.03.2022
(51) C03C 3/06
A61J 1/06
B65D 1/09
C03B 20/00
A61J 1/14
(00) Assignment

(71) Unica Concepts Ltd
(73) Unica Concepts Ltd
(11) EP3694685
(00) 18.03.2022
(51) B24B 7/18
B24B 41/047
B24B 45/00
E04F 21/24
B24D 7/06
B24D 11/00
B24D 13/14
B24B 7/22
(00) Assignment

(71) Smiths Detection Germany GmbH
(73) Smiths Detection Germany GmbH
(11) EP2989451
(00) 15.03.2022
(51) G01N 23/083
G01T 1/29
(00) Change of owner(s) name

(71) AFITEX INTERNATIONAL
(73) AFITEX INTERNATIONAL
(11) EP3230509
(00) 09.03.2022

TVH

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