



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](http://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**

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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](http://www.rvo.nl/octrooien). The Official Journal contains announcements and other things worth knowing for the benefit of the Netherlands Patent Office and its customers.

### Subscription rates per calendar year:

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

#### *Visiting address:* **Netherlands Patent Office**

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Iban: NL41INGB070500129

BIC: INGBNL2A

<b>Inhoudsopgave</b>	<b>Blz. Content</b>	<b>Page</b>
<b>Rubriek NP1</b> Bevat gegevens betreffende octrooiaanvragen die zijn ingeschreven op grond van de Octrooiwet 1995.	<b>8 Heading NP1</b> Contains data concerning Netherlands patent applications which have been entered in the patent register under the Patents Act 1995.	<b>8</b>
<b>Rubriek NP2</b> Bevat gegevens betreffende ingeschreven en verleende octrooien op grond van de Octrooiwet 1995.	<b>11 Heading NP2</b> Contains data concerning Netherlands patents which have been entered in the patent register under the Patents Act 1995.	<b>11</b>
<b>Rubriek NP3</b> Bevat gegevens betreffende Nederlandse octrooien na gedeeltelijke afstand conform artikel 63 van de Octrooiwet 1995.	<b>16 Heading NP3</b> Contains data concerning Netherlands patents after partial renunciation confirm Article 63 of the Patents Act 1995.	<b>16</b>
<b>Rubriek EP1</b> Bevat gegevens betreffende vertaalde conclusies van Europese octrooiaanvragen.	<b>17 Heading EP1</b> Contains data concerning translations of the conclusions of European patent applications.	<b>17</b>
<b>Rubriek EP2</b> Bevat gegevens betreffende voor Nederland verleende Europese octrooien.	<b>18 Heading EP2</b> Contains data concerning European patents granted for The Netherlands.	<b>18</b>
<b>Rubriek EP3</b> Bevat gegevens betreffende voor Nederland verleende Europese octrooien waarvoor een vertaling is ingediend conform artikel 52 lid 1 of 6 van de Octrooiwet 1995.	<b>275 Heading EP3</b> 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.	<b>275</b>
<b>Rubriek EP4</b> Bevat gegevens betreffende voor Nederland verleende gewijzigde Europese octrooien.	<b>301 Heading EP4</b> Contains data concerning European patents granted in amended form for the Netherlands.	<b>301</b>
<b>Rubriek EP5</b> Bevat gegevens betreffende voor Nederland verleende gewijzigde	<b>302 Heading EP5</b> Contains data concerning European patents granted in amended form for	<b>302</b>

Europese octrooien waarvoor een gewijzigde vertaling is ingediend.	The Netherlands in which an amended translation was filed.	
<b>Rubriek SPC</b> Bevat gegevens betreffende ingeschreven en verleende certificaten	<b>304Heading SPC</b> Contains data concerning applications for- or granted Supplementary Protection Certificates.	304
<b>Rubriek VB1</b> Bevat gegevens betreffende rechten waarvoor een verzoek of bezwaarschrift is ingediend conform de Octrooiwet 1995.	<b>305Heading VB1</b> Contains data concerning requests and notices of opposition under the General administrative law.	305
<b>Rubriek VB2</b> Bevat gegevens betreffende rechten waarin een beslissing is genomen of waarvoor een nieuwheidsrapport is uitgegaan op een verzoek- of bezwaarschrift conform de Octrooiwet 1995.	<b>306Heading VB2</b> 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.	306
<b>Rubriek MED</b> Bevat gegevens betreffende overige mededelingen.	<b>307Heading MED</b> Contains data concerning other communications.	307
<b>Rubriek VRV</b> Bevat gegevens betreffende verval of nietigverklaring.	<b>308Heading VRV</b> Contains data concerning lapse or annulment.	308
<b>Rubriek VRB</b> Bevat gegevens betreffende verbeteringen op eerdere publicaties.	<b>331Heading VRB</b> Contains data concerning corrections on earlier publications.	331
<b>Rubriek CO</b> Bevat gegevens betreffende wijzigingen in het octrooiregister.	<b>332Heading CO</b> Contains data concerning changes in the Netherland patent register.	332
<b>Rubriek TVH</b> Bevat gegevens betreffende topografieën van halfgeleiderproducten.	<b>335Heading TVH</b> Contains data concerning depots of original topographies of semi-conductor products.	335

<b>Rubriek UP1</b> Bevat gegevens over Europese octrooien met geregistreerde eenheidswerking.	<b>336Heading UP1</b> Contains data concerning European patents with registered Unitary Effect.	336
<b>Rubriek UP2</b> Bevat gegevens over Europese octrooien met geregistreerd verzoek ex. artikel 52a (herstel recht op validatie).	<b>340Heading UP2</b> Contains data concerning European patents with registered request ex article 52a (restoration of validation right).	340
<b>Rubriek UP3</b> Bevat gegevens over Europese octrooien met geaccepteerd verzoek ex. artikel 52a (herstel recht op validatie) en complete validatie.	<b>341Heading UP3</b> Contains data concerning European patents with accepted ex article 52a (restoration of validation right) and validation completed.	341
<b>Rubriek UP4</b> Bevat gegevens over Europese octrooien met geaccepteerd verzoek ex. artikel 52a (herstel recht op validatie) en geen complete validatie.	<b>342Heading UP4</b> Contains data concerning European patents with accepted request ex article 52a (restoration of validation right) and incomplete validation.	342
<b>Rubriek UP5</b> Bevat gegevens over Europese octrooien met afgewezen verzoek ex. artikel 52a (herstel recht op validatie).	<b>343Heading UP5</b> Contains data concerning European patents with rejected request ex article 52a (restoration of validation right).	343
<b>Rubriek UP6</b> Bevat gegevens over Europese octrooien met ingetrokken verzoek ex. artikel 52a (herstel recht op validatie).	<b>344Heading UP6</b> Contains data concerning European patents with withdrawn request ex article 52a (restoration of validation right).	344

## Overzicht van Inid codes

### INID CODES

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

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

### INID CODES

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

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

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

## Rubrieken/Headings

### NP1

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

(51) A01G 9/24 F24F 5/00	(54) INTERLOCKING—TYPE PAINTING EASEL	(31) 202210332770.0 (32) 30.03.2022 (33) China
(21) 2031517 (22) 06.04.2022	(71) Peking University (74) ir. W.J.J.M. Kempes	(51) B21D 37/00 B21D 37/04
(54) PROCESS TO REDUCE THE TEMPERATURE IN A GREENHOUSE	(72) Yanqi Liu (41) 25.10.2023	(21) 2034516 (22) 06.04.2023
(71) VAN DER HOEVEN HORTICULTURAL PROJECTS B.V.	(31) 202210326858.1 (32) 30.03.2022 (33) China	(54) Bending tool for connection to a tool exchange device mounted on a robot.
(74) ir. M. Cramwinckel (72) Vincent Martijn Kickert Marcus Gerardus Middeldorp	(51) A61B 8/08 A61B 5/00 A61B 8/00	(71) PMT Szerszámgép Kereskedelmi és Szerviz Zártkörűen Működő Részvénytársaság
(41) 25.10.2023	(21) 2031483 (22) 04.04.2022	(74) drs. W.H.P. Derks (72) János Pekárik István Major Viktor Somodi Edvárd László Koncz
(51) A01K 1/01 (21) 2031528 (22) 07.04.2022	(54) System for screening tissue on the presence of malignant cells	(31) U2200062 (32) 08.04.2022 (33) Hungary
(54) MESTREINIGER, MESTERVERWERKINGSSYSTEEM EN METHODE VOOR REINIGING EN VERWERKING VAN MEST	(71) TELEDYNE DALSA B.V. (74) dr. A. Krebs (72) Gerard Johan den Heeten Ivo Jan Christian Aarninkhof	(41) 25.10.2023
(71) Farm Eco Systems BV (74) ir. J.P.E. Brants (72) Michael Elisabeth Gerard Hensgens Joseph de Roij van Zuijdewijn	(51) A61F 13/15 A61F 13/537 A61F 13/536 A61F 13/505 A61F 13/49 A61F 13/533	(51) B25J 15/02 B25J 15/12 (21) 2034228 (22) 27.02.2023
(41) 30.10.2023	(21) 2031545 (22) 08.04.2022	(54) Software Machine Gripper Based on Hybrid Drive of a Deceleration Motor and Twisted Fiber Artificial Muscle
(51) A21C 9/00 B65G 45/12	(21) 2031488 (22) 04.04.2022	(71) Nanjing University of Information Science and Technology
(21) 2031488 (22) 04.04.2022	(54) Werkwijze en inrichting voor het opvangen van strooisel of schraapsel	(74) ir. W.J.J.M. Kempes (72) Yang Yang Honghui Zhu Sheng Xiang Jia Liu
(54) Werkwijze en inrichting voor het opvangen van strooisel of schraapsel	(71) Radie B.V. (74) ir. M. van der Velden (72) Johannes Josephus Antonius van Blokland	(71) Drylock Technologies N.V. (74) dr. ir. G.J.C. Verdijck c.s. (72) Pieter Hommez Jimena Lazaro Tom Derycke
(41) 30.10.2023	(41) 25.10.2023	(31) 2022103810965 (32) 12.04.2022 (33) China
(51) A23L 7/109 A23L 33/185 A23L 33/19 A23L 29/212	(51) A61F 13/49 A61F 13/514	(51) B33Y 70/00 C08G 69/16
(21) 2034665 (22) 24.04.2023	(21) 2031537 (22) 08.04.2022	(21) 2034355 (22) 16.03.2023
(54) HIGH-NUTRITION RS2 HIGH- RESISTANT STARCH NOODLE AND PREPARATION METHOD THEREOF	(54) Absorbent article with illuminative back sheet	(54) METHOD FOR PREPARING UNIFORM SPHEROIDIZED POLYAMIDE POWDER FOR SELECTIVE LASER PRINTING
(71) Beijing Hai'ai Innovative Food Technology Co., Ltd. (74) dr. T. Wittop Koning PhD (72) Zhenguang Yan Shuwen Deng	(71) Drylock Technologies N.V. (74) dr. ir. G.J.C. Verdijck c.s. (72) Werner Van Ingelgem (41) 27.10.2023	(71) Guizhou Institute of Metallurgy&Chemical Engineering (74) dr. T. Wittop Koning PhD (72) Yin Liang Ying Li Tao Xue Yunfeng Yu Jian Wu Zehong Wu Wenquan Gu Maoyin Sun
(41) 25.10.2023	(51) A61G 5/10 (21) 2034010 (22) 23.01.2023	(41) 25.10.2023 (31) 202210865189.5
(51) A47B 97/04 A47F 5/11 A47B 23/04 A47G 1/16	(54) POWER-ASSISTED DUAL-PURPOSE WHEELCHAIR BED	
(21) 2033615 (22) 25.11.2022	(71) The Second Affiliated Hospital and Yuying Children's Hospital of Wenzhou Medical University (74) ir. M.B. Plaggenborg (72) Yitian Liu (41) 25.10.2023	



(32) 22.07.2022	(21) 1044288	Shandong University
(33) China	(22) 05.04.2022	(74) dr. T. Wittop Koning PhD
(51) B60K 6/44	(54) Inrichting voor het in folie verpakken van	(72) Chuanyi Ma
(21) 2031515	een döner-kebab grillrol	Zhelun Liu
(22) 06.04.2022	(71) A&A Technology B.V.	Shengtao Zhang
(54) A hybrid propulsion system for a vessel	(72) Asghar Nosrati	Zhi Ge
and Method for controlling a hybrid	(41) 25.10.2023	Wentao Zhang
propulsion system for a vessel	(51) C05G 1/00	Yifeng Ling
(71) Wijnne & Barends' Cargadoors- en	B01D 11/02	Wenqiang Ma
Agentuurkantoren B.V.	B01J 19/18	Hongzhi Zhang
(74) ir. H.A. Witmans c.s.	B01J 19/00	(31) 2022103659354
(72) René Baar	C05D 9/02	(32) 08.04.2022
(41) 25.10.2023	C08J 11/16	(33) China
(51) B60R 7/08	(21) 2031504	(51) E03D 1/14
B60N 3/04	(22) 05.04.2022	E03D 5/09
B60R 13/01	(54) REFINING REACTOR	E03D 5/02
(21) 2031480	(71) Rizhao Xuri Composite Material Co., Ltd.	(21) 2034491
(22) 01.04.2022	(74) ir. M.B. Plaggenborg	(22) 03.04.2023
(54) MAT FOR COVERING A CABIN FLOOR	(72) Ran Ding	(54) A CONTROL SYSTEM FOR A FLUSH
(71) DAF Trucks N.V.	Lipeng Ding	TANK MECHANISM FOR RELEASING A
(74) ir. H.A. Witmans c.s.	(41) 25.10.2023	LARGE OR SMALL RINSING VOLUME
(72) Haro van Galen	(51) C12N 5/071	AT THE CHOICE OF THE USER
(41) 25.10.2023	C12N 1/20	(71) DELABIE
(51) B62D 21/02	(21) 2031523	(74) dr. R.C. van Duijvenbode c.s.
B60K 1/04	(22) 06.04.2022	(72) Gérard Delabie
(21) 2031489	(54) CELL CULTURE METHOD OF	(41) 25.10.2023
(22) 04.04.2022	CHLAMYDIA ABORTUS AND USE	(31) FR2203093
(54) A road vehicle	THEREOF	(32) 05.04.2022
(71) DAF Trucks N.V.	(71) LANZHOU VETERINARY RESEARCH	(33) France
(74) ir. H.A. Witmans c.s.	INSTITUTE, CHINESE ACADEMY OF	(51) E04B 7/18
(72) Patrick Quirien Adelheid van der Meer	AGRICULTURAL SCIENCES	H02S 20/23
Roel Lambertus Johannes Kersten	(74) ir. M.B. Plaggenborg	E04D 13/14
(51) B62J 3/04	(72) Zhaocai Li	F24S 25/30
(21) 2031487	Jizhang Zhou	(21) 2031485
(22) 04.04.2022	Ping Liu	(22) 04.04.2022
(54) Bell for attachment to a bicycle handlebar	Donghui Liu	(54) VERBETERD MONTAGE-ANKER VOOR
(71) WIDEK B.V.	(41) 25.10.2023	HET MONTEREN VAN EEN OBJECT
(74) ir. H.Th. van den Heuvel c.s.	(51) C12Q 1/6883	OP EEN DAKCONSTRUCTIE
(72) Piet van de Lagemaat	(21) 2033652	(71) HWA SHOP.NL B.V.
(41) 25.10.2023	(22) 01.12.2022	(74) drs. C.H. Mink-Lindenburg
(51) B62M 6/45	(54) MOLECULAR MARKER FOR GENETIC	(72) Mark Mijnen
B62J 43/13	RESISTANCE OF CHICKEN AVIAN	Bram Mijnen
(21) 2031513	LEUKOSIS VIRUS SUBGROUPS A	(41) 25.10.2023
(22) 05.04.2022	AND K (ALV-A AND ALV-K) AND USE	(51) E04F 21/18
(54) Electric bicycle with control device and	THEREOF	E01C 19/52
communicating external charger device	(71) South China Agricultural University	B65G 7/12
(71) VANMOOF B.V.	(74) ir. W.J.J.M. Kempes	E04G 21/16
(74) ir. H.Th. van den Heuvel c.s.	(72) Xinheng Zhang	(21) 2032697
(72) Ties Jonan Midas Carlier	Yu Nie	(22) 07.08.2022
Job Hendrik Stehmann	Liqin Liao	(54) VERBETERDE WERKWIJZE EN
Jean-Paul Niellissen	Qingmei Xie	APPARATEN VOOR HET MONTEREN
(41) 25.10.2023	Weiguo Chen	VAN GROTE VLOERTEGELS
(51) B65B 5/02	Wenxue Li	(71) Petrus de Leest
B65B 35/10	(41) 25.10.2023	(74) P.J. Pollard B.Eng
B65B 25/02	(31) 202210321583 .2	(72) Petrus de Leest
(21) 1044292	(32) 30.03.2022	(51) E04H 4/06
(22) 06.04.2022	(33) China	(21) 2031486
(54) Inrichting voor het vullen van een	(51) E01D 101/24	(22) 04.04.2022
verpakkingsdoos met een emmer gevuld	E01D 12/00	(54) Swimming pool and movable subfloor
met bijvoorbeeld bloemen	E01C 13/02	system for use in a swimming pool
(71) Rick Petrus de Wit	E01D 19/08	(71) STEENKRACHT B.V.
(72) Rick Petrus de Wit	E01D 4/00	(74) ir. H.Th. van den Heuvel c.s.
(41) 25.10.2023	(21) 2034359	(72) Henricus Johannes Wilhelmus van der
(51) B65B 25/06	(22) 16.03.2023	Steen
A22C 17/00	(54) Energy storage device of solid belly arch	(51) E06B 5/01
B65B 11/02	bridge based on high alumina cement	E06B 3/82
B65B 11/04	and construction method thereof	E06B 3/70
	(71) Shandong High-Speed Group Co., Ltd.	

(21) 2031514	Junxian Liu	(71) Shenzhen Vortex Technology Co., Ltd.
(22) 06.04.2022	Tao Chen	China Automotive Engineering Research Institute Co., Ltd.
(54) Luiksamenstel	Xiaoxue Zhang	(74) ir. W.J.J.M. Kempes
(71) The Gorter Company B.V.	Mengmeng Zhang	(72) Hanjie Zeng
(74) dr. ir. G.J.C. Verdijck c.s.	(31) 202210360047.3	(72) Peiran Li
(72) Bart van Leeuwen	(32) 07.04.2022	(41) 25.10.2023
Sacha Beers	(33) China	
(51) F16B 13/04	(51) G02B 27/00	(51) G07F 11/02
E04G 5/04	G06N 20/00	G07F 11/30
E06C 9/06	G06F 3/01	G07F 11/62
E06C 7/50	(21) 2032145	(21) 2031498
(21) 1044290	(22) 13.06.2022	(22) 05.04.2022
(22) 05.04.2022	(54) DIGITAL SMART GLASSES FOR ENHANCING BRAIN INTELLIGENCE	(54) Verkoopautomaat voor het uitgeven van producten.
(54) Dakrandbeveiliging	(71) Shenzhen BIAI Intelligence Life Technology Co., Ltd.	(71) Simeco Holland B.V.
(71) W.M.A. Klerx	(74) ir. M.B. Plaggenborg	(74) ir. A. Blokland c.s.
(72) W.M.A. Klerx	(72) Taixing Che	(72) Renier Theodorus Elisabeth Marie Simons
(41) 25.10.2023	Xinhang Zhang	(41) 25.10.2023
(51) F16J 15/00	Wen Hu	(51) G09F 17/00
F16J 15/3276	Xiaotao Li	G09F 19/22
(21) 1044289	(31) 202210355439.0	E06B 7/28
(22) 05.04.2022	(32) 06.04.2022	(21) 2031494
(54) ENGAGEABLE AND DISENGAGEABLE SHAFT SEAL ASSEMBLY	(33) China	(22) 04.04.2022
(71) Marflex Holding B.V.	(51) G05B 13/04	(54) SIGN DISPLAY PRODUCT
(72) Jonathan Adrianus Johannes Luksenburg	(21) 2031549	(71) Anand Roy Cats-Djasai
(41) 25.10.2023	(22) 11.04.2022	(74) ir. J.H. de Hoog
(51) G01B 11/06	(54) ITERATIVE FEEDBACK TUNING CONTROL AND ROBUSTNESS OPTIMIZATION METHOD FOR ROTATIONAL INVERTED PENDULUM	(72) Anand Roy Cats-Djasai
B65H 5/02	(71) JIANGNAN UNIVERSITY	(41) 25.10.2023
B29D 30/06	(74) dr. A. Krebs	(51) G16H 10/60
B65G 15/00	(72) Hongfeng Tao	G06F 21/62
B65H 7/14	Zhihe Zhuang	(21) 2031478
B65G 15/42	Longhui Zhou	(22) 01.04.2022
B65G 43/08	Wei Liu	(54) Method for anonymizing an audio data stream
B65H 29/16	Lingzhi Shen	(71) DEO N.V.
G01B 5/00	(41) 30.10.2023	(74) dr. ir. G.J.C. Verdijck c.s.
(21) 2031484	(51) G06F 3/14	(72) Niels Festjens
(22) 04.04.2022	G06F 9/54	Jeroen Willem Rita Dille
(54) Conveyor belt, conveyor, system, method and use of said conveyor belt for conveying a tire component	G06F 3/0354	
(71) VMI Holland B.V.	H04L 9/40	
(74) ir. F.A. Geurts c.s.	(21) 2031499	
(72) Herman Sebastiaan Scherpenhuizen	(22) 05.04.2022	
Mattheus Jacobus Kaagman	(54) INPUT DEVICE SCREEN-SHARE FACILITATION	
Quinten Matthijs Bergmans	(71) Microsoft Technology Licensing, LLC	
(41) 25.10.2023	(74) ir. J.C. Volmer c.s.	
(51) G01L 9/02	(72) Roei Avraham Halokhem	
G01L 9/00	(51) G06F 9/46	
(21) 2033493	(21) 1044276	
(22) 09.11.2022	(22) 04.04.2022	
(54) ENVIRONMENT-FRIENDLY HIGH-TEMPERATURE MELT PRESSURE TRANSMITTER	(54) Remote device driving platform for self service terminals (SST)	
(71) Shanghai Ziasiot Technology Co., Ltd.	(71) GlobalCloudPayments B.V.	
(74) dr. T. Wittop Koning PhD	(72) Alexey Shternshis	
(72) Ying Yu	(41) 25.10.2023	
Hao Wu	(51) G06F 30/23	
(41) 25.10.2023	G06Q 10/04	
(51) G01S 19/20	G06Q 10/06	
(21) 2031892	(21) 2031491	
(22) 17.05.2022	(22) 04.04.2022	
(54) A SATELLITE NAVIGATION RECEIVER	(54) RISK PREDICTION METHOD FOR ABNORMAL NOISE OF AUTOMOBILE SEALING STRIP BASED ON CAE ANALYSIS	
(71) National University of Defense Technology		
(74) ir. M.B. Plaggenborg		
(72) Chengtao Xu		

## NP2

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

(51) A01G 9/24 F24F 5/00	(54) HIGH-NUTRITION RS2 HIGH- RESISTANT STARCH NOODLE AND PREPARATION METHOD THEREOF	(74) dr. ir. G.J.C. Verdijck c.s.
(11) 2031517	(73) Beijing Hai'ai Innovative Food Technology Co., Ltd.	(51) A61F 13/49 A61F 13/514
(47) 25.10.2023	(72) Zhenguang Yan	(11) 2031537
(22) 06.04.2022	(74) Shuwen Deng	(47) 27.10.2023
(54) PROCESS TO REDUCE THE TEMPERATURE IN A GREENHOUSE	(74) dr. T. Wittop Koning PhD	(22) 08.04.2022
(73) VAN DER HOEVEN HORTICULTURAL PROJECTS B.V.	(51) A47B 97/04	(54) Absorbent article with illuminative back sheet
(72) Vincent Martijn Kickert Marcus Gerardus Middeldorp	(51) A47F 5/11 A47B 23/04 A47G 1/16	(73) Drylock Technologies N.V.
(74) ir. M. Cramwinckel	(11) 2033615	(72) Werner Van Ingelgem
(51) A01K 1/01	(47) 25.10.2023	(74) dr. ir. G.J.C. Verdijck c.s.
(11) 2031528	(22) 25.11.2022	(51) A61G 5/10
(47) 30.10.2023	(54) INTERLOCKING—TYPE PAINTING EASEL	(11) 2034010
(22) 07.04.2022	(73) Peking University	(47) 25.10.2023
(54) MESTREINIGER, MESTERVERWERKINGSSYSTEEM EN METHODE VOOR REINIGING EN VERWERKING VAN MEST	(72) Yanqi Liu	(22) 23.01.2023
(73) Farm Eco Systems BV	(74) ir. W.J.J.M. Kempes	(54) POWER-ASSISTED DUAL-PURPOSE WHEELCHAIR BED
(72) Michael Elisabeth Gerard Hensgens Joseph de Roij van Zuidewijn	(31) 202210326858.1	(73) The Second Affiliated Hospital and Yuying Children's Hospital of Wenzhou Medical University
(74) ir. J.P.E. Brants	(32) 30.03.2022	(72) Yitian Liu
(51) A21C 9/00 B65G 45/12	(33) China	(74) ir. M.B. Plaggenborg
(11) 2031488	(51) A47K 13/14	(31) 202210332770.0
(47) 25.10.2023	(11) 2031587	(32) 30.03.2022
(22) 04.04.2022	(47) 30.10.2023	(33) China
(54) Werkwijze en inrichting voor het opvangen van strooisel of schraapsel	(22) 14.04.2022	(51) A61K 31/196 A61K 47/10 A61K 47/32 A61K 47/14 A61K 9/70 A61P 19/02 A61P 21/00 A61P 29/00
(73) Radie B.V.	(54) TOILET SEAT COVER	(11) 2028233
(72) Johannes Josephus Antonius van Blokland	(73) Ricardo Pocai	(47) 25.10.2023
(74) ir. M. van der Velden	(72) Ricardo Pocai	(22) 18.05.2021
(51) A22C 29/00 B07B 1/26	(74) dr. ir. G.J.C. Verdijck c.s.	(54) SLOW-RELEASE MEDICAL PLASTER
(11) 2029212	(31) PCT/BR2021/050155	(73) FIDIA FARMACEUTICI S.p.A.
(47) 30.10.2023	(32) 14.04.2021	(72) Carlo Pizzocaro
(22) 21.09.2021	(33) Brazil	(74) J.M.H. Duyver lic.
(54) EUPHAUSIA SUPERBA SORTING DEVICE	(51) A61B 8/08 A61B 5/00 A61B 8/00	(31) 10202000011686
(73) SHANDONG UNIVERSITY OF TECHNOLOGY	(11) 2031483	(32) 20.05.2020
(72) Lanlan Zhu Jiahuan Li Xiuting Wei Zongmin Wang	(47) 25.10.2023	(33) Italy
(74) ir. W.J.J.M. Kempes	(22) 04.04.2022	(51) A61L 27/18 A61L 27/24 A61L 27/22
(31) 202011049992.9	(54) System for screening tissue on the presence of malignant cells	(11) 2030166
(32) 29.09.2020	(73) TELEDYNE DALSA B.V.	(47) 30.10.2023
(33) China	(72) Gerard Johan den Heeten Ivo Jan Christian Aarninkhof	(22) 16.12.2021
(51) A23L 7/109 A23L 33/185 A23L 33/19 A23L 29/212	(74) dr. A. Krebs	(54) INJECTABLE REGENERATIVE MEDICAL IMPLANT FOR FACIAL REJUVENATION
(11) 2034665	(51) A61F 13/15 A61F 13/537 A61F 13/536 A61F 13/505 A61F 13/49 A61F 13/533	(73) Rafael (Shenzhen) Investment Consulting Co., Ltd.
(47) 25.10.2023	(11) 2031545	(72) Ning Zhang
(22) 24.04.2023	(47) 30.10.2023	(74) ir. M.B. Plaggenborg
	(22) 08.04.2022	(31) 202110503220.6
	(54) Absorbent insert	(32) 10.05.2021
	(73) Drylock Technologies N.V.	(33) China
	(72) Pieter Hommez Jimena Lazaro Tom Derycke	(51) B01J 21/06

B01J 23/843	Jian Wu	(54) Inrichting voor het vullen van een
B01J 35/00	Zehong Wu	verpakkingsdoos met een emmer gevuld
(11) 2030351	Wenquan Gu	met bijvoorbeeld bloemen
(47) 30.10.2023	Maoyin Sun	(73) Rick Petrus de Wit
(22) 29.12.2021	dr. T. Wittop Koning PhD	(72) Rick Petrus de Wit
(54) PHOTOCATALYST AND PREPARATION	(31) 202210865189.5	(51) B65B 25/06
METHOD AND USE THEREOF	(32) 22.07.2022	A22C 17/00
(73) Jilin Jianzhu University	(33) China	B65B 11/02
(72) Yang Li	(51) B60K 6/44	B65B 11/04
Daihua Zhang	(11) 2031515	(11) 1044288
Siwen Li	(47) 25.10.2023	(47) 25.10.2023
Gen Liu	(22) 06.04.2022	(22) 05.04.2022
Yingzi Lin	(54) A hybrid propulsion system for a vessel	(54) Inrichting voor het in folie verpakken van
Yang Zhu	and Method for controlling a hybrid	een döner-kebab grillrol
(74) ir. W.J.J.M. Kempes	propulsion system for a vessel	(73) A&A Technology B.V.
(31) 202111273778.6	(73) Wijnne & Barends' Cargadoors- en	(72) Asghar Nosrati
(32) 29.10.2021	Agentuurkantoren B.V.	(51) B65D 1/46
(33) China	(72) René Baar	B65D 25/14
(51) B09B 3/70	(74) ir. H.A. Witmans c.s.	B65D 77/20
(11) 2034257	(51) B60R 7/08	B65D 65/40
(47) 30.10.2023	B60N 3/04	B65D 1/34
(22) 02.03.2023	B60R 13/01	B65D 1/48
(54) A PORT POLLUTED BOTTOM MUD IN	(11) 2031480	(11) 2029168
SITU REMEDIATION DEVICE AND AN	(47) 25.10.2023	(47) 25.10.2023
APPLICATION	(22) 01.04.2022	(22) 10.09.2021
(73) DALIAN MARITIME UNIVERSITY	(54) MAT FOR COVERING A CABIN FLOOR	(54) CONTAINER FOR FOOD PRODUCTS
(72) Zhaowei Wang	(73) DAF Trucks N.V.	(73) IPACK S.R.L.
(74) dr. R.C. van Duijvenbode c.s.	(72) Haro van Galen	(72) Stefano Ravegnini
(31) 2022114452649	(74) ir. H.A. Witmans c.s.	Luca Saragoni
(32) 18.11.2022	(51) B62D 21/02	(74) J.M.H. Duyver lic.
(33) China	B60K 1/04	(31) 202020000005374
(51) B32B 7/05	(11) 2031489	(32) 24.09.2020
B32B 7/06	(47) 25.10.2023	(33) Italy
B32B 3/26	(22) 04.04.2022	(51) C02F 3/00
B32B 5/02	(54) A road vehicle	C02F 3/30
B32B 5/18	(73) DAF Trucks N.V.	(11) 2030968
B32B 5/24	(72) Patrick Quirien Adelheid van der Meer	(47) 30.10.2023
E04H 5/00	Roel Lambertus Johannes Kersten	(22) 16.02.2022
F25C 3/04	(74) ir. H.A. Witmans c.s.	(54) LOW-CARBON ELECTRODE BIOFILM
B32B 3/06	(51) B62J 3/04	PURIFICATION DEVICE AND METHOD
(11) 2033839	(11) 2031487	(73) Tianjin University
(47) 30.10.2023	(47) 25.10.2023	(72) Yingxin Zhao
(22) 27.12.2022	(22) 04.04.2022	Chenggong Zhang
(54) REUSABLE SNOW STORAGE AND	(54) Bell for attachment to a bicycle handlebar	Jiaojiao Niu
COVERAGE MATERIAL	(73) WIDEK B.V.	Ge Cao
(73) Northwest Institute of Eco-Environment	(72) Piet van de Lagemaat	Zihan Du
and Resources, CAS	(74) ir. H.Th. van den Heuvel c.s.	(74) ir. W.J.J.M. Kempes
(72) Feiteng Wang	(51) B62M 6/45	(51) C05G 1/00
Xiaoying Yue	B62J 43/13	B01D 11/02
Ping Zhou	(11) 2031513	B01J 19/18
(74) drs. C.M.A. Quintelier	(47) 25.10.2023	B01J 19/00
(31) 202211270269.2	(22) 05.04.2022	C05D 9/02
(32) 18.10.2022	(54) Electric bicycle with control device and	C08J 11/16
(33) China	communicating external charger device	(11) 2031504
(51) B33Y 70/00	(73) VANMOOF B.V.	(47) 25.10.2023
C08G 69/16	(72) Ties Jonan Midas Carlier	(22) 05.04.2022
(11) 2034355	Job Hendrik Stehmann	(54) REFINING REACTOR
(47) 25.10.2023	Jean-Paul Niellissen	(73) Rizhao Xuri Composite Material Co., Ltd.
(22) 16.03.2023	(74) ir. H.Th. van den Heuvel c.s.	(72) Ran Ding
(54) METHOD FOR PREPARING UNIFORM	(51) B65B 5/02	Lipeng Ding
SPHEROIDIZED POLYAMIDE POWDER	B65B 35/10	(74) ir. M.B. Plaggenborg
FOR SELECTIVE LASER PRINTING	B65B 25/02	(51) C12N 5/071
(73) Guizhou Institute of Metallurgy&Chemical	(11) 1044292	C12N 1/20
Engineering	(47) 25.10.2023	(11) 2031523
(72) Yin Liang	(22) 06.04.2022	(47) 25.10.2023
Ying Li		(22) 06.04.2022
Tao Xue		
Yunfeng Yu		

(54) CELL CULTURE METHOD OF CHLAMYDIA ABORTUS AND USE THEREOF	(51) E03D 1/14 E03D 5/09 E03D 5/02	E06C 7/50 (11) 1044290 (47) 25.10.2023
(73) LANZHOU VETERINARY RESEARCH INSTITUTE, CHINESE ACADEMY OF AGRICULTURAL SCIENCES	(11) 2034491 (47) 25.10.2023 (22) 03.04.2023	(22) 05.04.2022 (54) Dakrandbeveiliging (73) W.M.A. Klerx
(72) Zhaocai Li Jizhang Zhou Ping Liu Donghui Liu	(54) A CONTROL SYSTEM FOR A FLUSH TANK MECHANISM FOR RELEASING A LARGE OR SMALL RINSING VOLUME AT THE CHOICE OF THE USER	(72) W.M.A. Klerx (51) F16G 3/16 (11) 2031605 (47) 30.10.2023
(74) ir. M.B. Plaggenborg	(73) DELABIE	(22) 15.04.2022
(51) C12Q 1/6883 (11) 2033652 (47) 25.10.2023 (22) 01.12.2022	(72) Gérard Delabie (74) dr. R.C. van Duijvenbode c.s. (31) FR2203093 (32) 05.04.2022	(54) ASSEMBLY DEVICE AND ASSEMBLY METHOD OF BELT IN BELT CONVERTOR (73) Wuhu Aide Transportation Machinery Co., Ltd
(54) MOLECULAR MARKER FOR GENETIC RESISTANCE OF CHICKEN AVIAN LEUKOSIS VIRUS SUBGROUPS A AND K (ALV-A AND ALV-K) AND USE THEREOF	(33) France (51) E04B 7/18 H02S 20/23 E04D 13/14 F24S 25/30	(72) Zhen Jia Yong Zhou Jiurong Yang Kailling Li Shasha Cao Xiaohua Fang Bingjie Cao
(73) South China Agricultural University (72) Xinheng Zhang Yu Nie Liqin Liao Qingmei Xie Weiguo Chen Wenxue Li	(11) 2031485 (47) 25.10.2023 (22) 04.04.2022	
(74) ir. W.J.J.M. Kempes (31) 202210321583 .2 (32) 30.03.2022 (33) China	(54) VERBETERD MONTAGE-ANKER VOOR HET MONTEREN VAN EEN OBJECT OP EEN DAKCONSTRUCTIE (73) HWA SHOP.NL B.V. (72) Mark Mijnen Bram Mijnen (74) drs. C.H. Mink-Lindenburg	(74) dr. R.C. van Duijvenbode c.s. (31) 202111568048.9 (32) 21.12.2021 (33) China (51) F16J 15/00 F16J 15/3276 (11) 1044289 (47) 25.10.2023 (22) 05.04.2022
(51) C30B 7/04 C30B 7/08 (11) 2032095 (47) 30.10.2023 (22) 08.06.2022	(51) E04F 21/18 E01C 19/52 B65G 7/12 E04G 21/16 (11) 2032697 (47) 25.10.2023 (22) 07.08.2022	(54) ENGAGEABLE AND DISENGAGEABLE SHAFT SEAL ASSEMBLY (73) Marflex Holding B.V. (72) Jonathan Adrianus Johannes Luksenburg
(54) METHOD FOR PREPARING LARGE SIZE BETA-TYPE AMMONIUM TETRAMOLYBDATE MONOCRYSTAL PARTICLE	(54) VERBETERDE WERKWIJZE EN APPARATEN VOOR HET MONTEREN VAN GROTE VLOERTEGELS	(51) G01B 11/06 B65H 5/02 B29D 30/06 B65G 15/00 B65H 7/14 B65G 15/42 B65G 43/08 B65H 29/16 G01B 5/00 (11) 2031484 (47) 25.10.2023 (22) 04.04.2022
(73) ZHENGZHOU UNIVERSITY (72) Qingkui Li Jilin He Xiaochao Wu Kaijun Yang Jing Zhang Chengduo Wang	(73) Petrus de Leest (72) Petrus de Leest (74) P.J. Pollard B.Eng	
(74) ir. F.A. Geurts c.s. (31) 202110645674.7 (32) 09.06.2021 (33) China	(51) E04H 4/06 (11) 2031486 (47) 25.10.2023 (22) 04.04.2022	
(51) E02B 15/10 (11) 2032393 (47) 25.10.2023 (22) 06.07.2022	(54) Swimming pool and movable subfloor system for use in a swimming pool (73) STEENKRACHT B.V. (72) Henricus Johannes Wilhelmus van der Steen (74) ir. H.Th. van den Heuvel c.s.	(54) Conveyor belt, conveyor, system, method and use of said conveyor belt for conveying a tire component (73) VMI Holland B.V. (72) Herman Sebastiaan Scherpenhuizen Mattheus Jacobus Kaagman Quinten Mattheijs Bergmans
(54) EXTRACTOR WITH DUAL BUOYANCY SYSTEM	(72) Henricus Johannes Wilhelmus van der Steen	(74) ir. F.A. Geurts c.s.
(73) JIANGSU ZHONGKE JIYE ENVIRONMENTAL TECHNOLOGY CO., LTD	(51) E06B 5/01 E06B 3/82 E06B 3/70 (11) 2031514 (47) 25.10.2023 (22) 06.04.2022	(51) G01L 9/02 G01L 9/00 (11) 2033493 (47) 25.10.2023 (22) 09.11.2022
(72) Jiaqi Hu Jianping Jiang Ying Jiang Weibing Feng	(54) Luiksamenstel (73) The Gorter Company B.V. (72) Bart van Leeuwen Sacha Beers (74) dr. ir. G.J.C. Verdijck c.s.	(54) ENVIRONMENT-FRIENDLY HIGH-TEMPERATURE MELT PRESSURE TRANSMITTER (73) Shanghai Ziasiot Technology Co., Ltd. (72) Ying Yu Hao Wu
(74) drs. C.M.A. Quintelier (31) 202110765695.2 (32) 07.07.2021 (33) China	(51) F16B 13/04 E04G 5/04 E06C 9/06	

(74) dr. T. Wittop Koning PhD	Jing Yu	(51) G06F 30/23
(51) G01L 25/00	Kun Liu	G06Q 10/04
(11) 2031262	(74) ir. W.J.J.M. Kempes	G06Q 10/06
(47) 30.10.2023	(51) G05B 13/04	(11) 2031491
(22) 11.03.2022	(11) 2031549	(47) 25.10.2023
(54) METHOD AND SYSTEM FOR CALIBRATING ONE-DIMENSIONAL FORCE SENSOR FOR LEGGED ROBOT'S LEG	(47) 30.10.2023	(22) 04.04.2022
(73) Yanshan University	(22) 11.04.2022	(54) RISK PREDICTION METHOD FOR ABNORMAL NOISE OF AUTOMOBILE SEALING STRIP BASED ON CAE ANALYSIS
(72) Mingming Wang	(54) ITERATIVE FEEDBACK TUNING CONTROL AND ROBUSTNESS OPTIMIZATION METHOD FOR ROTATIONAL INVERTED PENDULUM	(73) Shenzhen Vortex Technology Co., Ltd. China Automotive Engineering Research Institute Co., Ltd.
Yanhe Song	(73) JIANGNAN UNIVERSITY	(72) Hanjie Zeng
Guoliang Ma	(72) Hongfeng Tao	Peiran Li
Xiangdong Kong	Zhihe Zhuang	(74) ir. W.J.J.M. Kempes
Bin Yu	Longhui Zhou	(51) G07F 11/02
Kaixian Ba	Wei Liu	G07F 11/30
Chunyu Wang	Lingzhi Shen	G07F 11/62
(74) ir. M.B. Plaggenborg	(74) dr. A. Krebs	(11) 2031498
(31) 202110354203.0	(51) G06F 3/14	(47) 25.10.2023
(32) 01.04.2021	G06F 9/54	(22) 05.04.2022
(33) China	G06F 3/0354	(54) Verkoopautomaat voor het uitgeven van producten.
(51) G01N 27/12	H04L 9/40	(73) Simeco Holland B.V.
G01N 33/00	(11) 2031499	(72) Renier Theodorus Elisabeth Marie Simons
(11) 2031437	(47) 25.10.2023	(74) ir. A. Blokland c.s.
(47) 30.10.2023	(22) 05.04.2022	(51) G09F 17/00
(22) 29.03.2022	(54) INPUT DEVICE SCREEN-SHARE FACILITATION	G09F 19/22
(54) CARBON MONOXIDE GAS-SENSITIVE MICRO-CAPSULES, PREPARATION METHOD, AND METHOD FOR IDENTIFYING SOURCE OF IGNITION IN WORKED-OUT SECTION	(73) Microsoft Technology Licensing, LLC	E06B 7/28
(73) Shandong University of Science and Technology	(72) Roei Avraham Halokhem	(11) 2031494
(72) Jinliang Li	(74) ir. J.C. Volmer c.s.	(47) 25.10.2023
Yunfei Zhu	(51) G06F 9/46	(22) 04.04.2022
Lulu Sun	(11) 1044276	(54) Remote device driving platform for self service terminals (SST)
Guansheng Qi	(47) 25.10.2023	(73) Anand Roy Cats-Djasai
Hao Su	(22) 04.04.2022	(72) Anand Roy Cats-Djasai
Wei Lu	(54) Remote device driving platform for self service terminals (SST)	(74) ir. J.H. de Hoog
Mingjun Wang	(73) GlobalCloudPayments B.V.	(51) G16H 10/60
Gang Zhou	(72) Alexey Shternshis	G06F 21/62
Jinhu Li	(51) G06F 16/36	(11) 2031478
Yan Tang	G06F 16/953	(47) 25.10.2023
Zhenglong He	(11) 2030655	(22) 01.04.2022
Biao Kong	(47) 30.10.2023	(54) Method for anonymizing an audio data stream
Xiangming Hu	(22) 21.01.2022	(73) DEO N.V.
Chaohang Xu	(54) METHOD FOR BUILDING MULTI-MODAL BILINGUAL PARALLEL CORPUS OF ARCHITECTURAL ENGINEERING	(72) Niels Festjens
(74) ir. M.B. Plaggenborg	(73) Shandong Jianzhu University	Jeroen Willem Rita Dille
(31) 202110386980.3	(72) Jinling Gao	(74) dr. ir. G.J.C. Verdijck c.s.
(32) 12.04.2021	Mingming Fu	(51) H01S 3/117
(33) China	Haifeng Wang	H01S 3/10
(51) G01N 33/00	Congying Zhang	(11) 2032229
(11) 2030834	Mei Ding	(47) 25.10.2023
(47) 30.10.2023	Jiyun Gao	(22) 21.06.2022
(22) 07.02.2022	(74) ir. M.B. Plaggenborg	(54) A-O Q-SWITCHED SOLID-STATE LASER DEVICE WITH ADJUSTABLE PULSE OUTPUT AND PULSED LASER GENERATION METHOD
(54) DEVICE FOR RAPIDLY DIAGNOSING POTASSIUM NUTRITION OF POTATOES USING PORTABLE POTASSIUM ION METER, AND METHOD FOR RECOMMENDING POTASH FERTILIZER	(51) G06F 30/20	(73) INSTITUTE OF SEMICONDUCTORS, CHINESE ACADEMY OF SCIENCES
(73) Inner Mongolia Agricultural University	(11) 2030421	(72) Hongyang Wang
(72) Nana Wang	(47) 30.10.2023	Zhiyong Dong
Liguo Jia	(22) 04.01.2022	Xuechun Lin
Yonglin Qin	(54) NOVEL TYPHOON FIELD MODEL FOR STORM SURGE SIMULATION	Zhiyan Zhang
Xiaohua Shi	(73) Zhejiang University	Haijun Yu
Mingshou Fan	(72) Zongyu Li	Shusen Zhao
Li Li	Wengang Xiang	(74) ir. H.Th. van den Heuvel c.s.
	Zhilin Sun	(31) 202110754231.1
	Kaixuan Ding	
	(74) ir. W.J.J.M. Kempes	

(32) 02.07.2021

(33) China

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(51) H05B 45/20

F42B 12/38

F41A 33/02

F41A 21/32

H05B 47/115

H05B 47/16

F41G 1/35

(11) 2030027

(47) 30.10.2023

(22) 03.12.2021

(54) MUZZLE FLASH SIMULATOR

(73) Acetk Corp Ltd.

(72) Yung-Hui Chang

(74) ir. A.R. Aalbers

(31) 63/122,484

(32) 08.12.2020

(33) United States of America

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**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) 27.09.2023

(11) EP4249401

(51) B65F 3/00  
B65F 3/04

(71) Ab Närpes Trä & Metall - Oy Närpiön Puu  
ja Metalli

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## EP2

## Voor Nederland verleende Europese octrooien.

## Contains data concerning European patents granted for The Netherlands.

(51) A01B 45/02	Poush, Matthew E.	A01D 45/02
(11) EP3432699	Sidon, Jeffrey S.	A01D 61/02
(21) EP17705336.0	(31) 202016897705	F16G 5/04
(47) 01.11.2023	202063013046 P	F16G 5/20
(87) EP2017052964	(32) 10.06.2020	B65G 15/42
28.09.2017	21.04.2020	(11) EP3878265
(22) 10.02.2017	(33) United States of America	(21) EP21152884.9
(54) GROUND TREATMENT APPARATUS	United States of America	(47) 01.11.2023
(73) Novokraft AG	(51) A01D 34/00	(22) 22.01.2021
(72) HARDMAN, Eric	A01D 34/86	(54) TOOL-CARRYING BELT
BÜHRER, Benjamin	G05D 1/00	(73) ContiTech Antriebssysteme GmbH
(31) 102016105248	G05D 1/02	(72) Freiheit, Philipp
(32) 21.03.2016	(11) EP3954187	Schwefe, Thorsten
(33) Germany	(21) EP20787382.9	(31) 102020203002
(51) A01B 59/06	(47) 01.11.2023	(32) 10.03.2020
A01B 59/00	(87) JP2020015862	(33) Germany
(11) EP4085739	15.10.2020	(51) A01D 41/12
(21) EP22171299.5	(22) 08.04.2020	A01F 12/40
(47) 01.11.2023	(54) MOWER	A01M 21/02
(22) 03.05.2022	(73) KUBOTA CORPORATION	(11) EP3681262
(54) HITCHING SYSTEM FOR AN	(72) KOBAYASHI, Takanori	(21) EP18854892.9
AGRICULTURAL OR INDUSTRIAL	MINAKATA, Yusuke	(47) 01.11.2023
VEHICLE	WATANABE, Sho	(87) CA2018051120
(73) CBM - S.P.A.	(31) 2019075713	14.03.2019
(72) Cornia, Enrico Maria	(32) 11.04.2019	(22) 11.09.2018
(31) 202100011486	(33) Japan	(54) WEED SEED DESTRUCTION
(32) 05.05.2021	(51) A01D 34/10	(73) Tritana Intellectual Property Ltd.
(33) Italy	A01D 34/13	(72) MAYERLE, Dean
(51) A01B 69/04	A01D 34/17	(31) 201862763112 P
A01B 79/00	A01D 34/02	201715701096
A01C 21/00	A01D 34/135	(32) 01.02.2018
A01M 7/00	(11) EP4000368	11.09.2017
A01D 41/127	(21) EP20850793.9	(33) United States of America
A01C 7/08	(47) 01.11.2023	United States of America
G05D 1/02	(87) JP2020020758	(51) A01D 41/14
(11) EP3900511	11.02.2021	A01B 63/00
(21) EP21162352.5	(22) 26.05.2020	(11) EP3675620
(47) 01.11.2023	(54) RECIPROCATING CUTTING BLADE	(21) EP18779848.3
(22) 12.03.2021	DEVICE AND REAPER	(47) 01.11.2023
(54) AGRICULTURAL MACHINE SECTION	(73) Yamabiko Corporation	(87) US2018049184
CONTROL	(72) SHIMIZU, Kunio	07.03.2019
(73) Deere & Company	(31) 2019146470	(22) 31.08.2018
(72) Liu, Qiang R.	(32) 08.08.2019	(54) METHOD AND SYSTEM FOR
Dougherty, Patrick C.	(33) Japan	CONTROLLING THE HEIGHT OF
Moody, Michael R.	(51) A01D 34/74	AN AGRICULTURAL IMPLEMENT
Thankappan Pillai, Ajit	(11) EP3794925	RELATIVE TO THE GROUND
(31) 202016852994	(21) EP20196676.9	(73) CNH Industrial Belgium NV
(32) 20.04.2020	(47) 01.11.2023	(72) SEIDERS, Jr., Kenneth
(33) United States of America	(22) 17.09.2020	(31) 201715692014
(51) A01B 76/00	(54) CUTTING DECK LIFTING DEVICE AND	(32) 31.08.2017
A01B 79/00	MOWER HAVING CUTTING DECK	(33) United States of America
A01D 41/127	LIFTING DEVICE	(51) A01D 41/14
(11) EP3900512	(73) Globe (Jiangsu) Co., Ltd.	A01D 57/20
(21) EP21162367.3	(72) WEI, Qunli	A01D 61/00
(47) 01.11.2023	QIU, Xiaolei	A01D 61/02
(22) 12.03.2021	Ji, Qin	B65G 15/44
(54) AGRICULTURAL HARVESTING	SHI, Dongdong	B65G 15/46
MACHINE CONTROL USING MACHINE	(31) 201910874473	(11) EP3659422
LEARNING FOR VARIABLE DELAYS	(32) 17.09.2019	(21) EP18209455.7
(73) Deere & Company	(33) China	(47) 01.11.2023
(72) Davis, Michael	(51) A01D 34/83	(22) 30.11.2018

(54) CONNECTING ELEMENT FOR ATTACHING CLEATS ON A CONVEYOR BELT	(32) 23.04.2019 20.09.2018	(22) 27.02.2015
(73) Noltewerk GmbH & Co. KG	(33) Netherlands	(54) COMPOSITIONS AND METHODS FOR PERONOSPORA RESISTANCE IN SPINACH
(72) NOLTE, Nils	(51) A01G 31/00	(73) Seminis Vegetable Seeds, Inc.
(51) A01F 15/08	(11) EP3454644	(72) Brugmans, Bart Willem
A01D 69/06	(21) EP16810470.1	Meeuwsen, John
(11) EP3646719	(47) 01.11.2023	Nooyen, Claudia
(21) EP18204222.6	(87) IB2016056753	(31) 201461945675 P
(47) 01.11.2023	16.11.2017	(32) 27.02.2014
(22) 02.11.2018	(22) 09.11.2016	(33) United States of America
(54) AN AGRICULTURAL BALING MACHINE	(54) NEW SUBSTRATE FOR HYDROPONIC OR SOILLESS CULTIVATION	(51) A01K 3/00
(73) CNH Industrial Belgium NV	(73) ALLERA, Caterina	(11) EP3430893
(72) BONTE, Xavier G.J.M.	MASELLA, Enrico	(21) EP18184628.8
DEMON, Frederik	(72) ALLERA, Caterina	(47) 01.11.2023
(51) A01G 3/00	MASELLA, Enrico	(22) 20.07.2018
A01G 23/06	(31) 6002016	(54) ARRANGEMENT FOR PREVENTING THE PASSAGE OF ANIMALS
A01D 34/43	(32) 09.05.2016	(73) Faß, Frank
(11) EP4014714	(33) Switzerland	(72) Faß, Frank
(21) EP21214908.2	(51) A01G 31/04	(31) 202017003897 U
(47) 01.11.2023	A01G 20/20	(32) 22.07.2017
(22) 15.12.2021	(11) EP3416475	(33) Germany
(54) IMPROVED FORESTRY SHREDDER AND RADIO-CONTROLLED VEHICLE	(21) EP17707958.9	(51) A01K 7/02
(73) MDB SRL	(47) 01.11.2023	C02F 1/32
(72) DI BIASE, Mario	(87) IB2017050854	(11) EP3649853
(31) 202000030902	24.08.2017	(21) EP19198174.5
202000030896	(22) 16.02.2017	(47) 01.11.2023
202000030887	(54) SYSTEM FOR GROWING VEGETATION	(22) 19.09.2019
202000030878	(73) BENNAMANN SERVICES LTD	(54) A LIQUID DISPENSER FOR ANIMALS
(32) 15.12.2020	(72) MANN, Christopher	(73) LG ELECTRONICS INC.
15.12.2020	BENNETT, Michael	(72) YOO, Hyunsun
15.12.2020	JENKINS, Derek William Kenneth	CHUN, Jaehung
15.12.2020	BRADSHAW, Thomas William	EUN, Yousook
(33) Italy	HERITAGE, Matthew Charles Seabrook	KIM, Joogyoom
Italy	(31) 201662295893 P	KIM, Sungkyung
Italy	(32) 16.02.2016	KIM, Myongsun
Italy	(33) United States of America	(31) 20180133061
(51) A01G 9/04	(51) A01H 1/06	201862733393 P
A01G 27/02	C12N 9/10	(32) 01.11.2018
(11) EP3581020	A01H 1/04	19.09.2018
(21) EP19178968.4	C12Q 1/6895	(33) Korea (Republic)
(47) 01.11.2023	A01H 6/38	United States of America
(22) 07.06.2019	A01H 5/02	(51) A01K 7/02
(54) ASSEMBLY COMPRISING A FLOWERPOT AND A LIQUID RESERVOIR	A01H 5/12	C02F 1/32
(73) A.J.M. de Koning Beheer B.V.	C12N 15/82	(11) EP3626067
(72) DE KONING, Adrianus Johannes Maria	(11) EP3747263	(21) EP19198195.0
(31) 2021104	(21) EP20178625.8	(47) 01.11.2023
(32) 12.06.2018	(47) 01.11.2023	(22) 19.09.2019
(33) Netherlands	(22) 05.06.2020	(54) A LIQUID DISPENSER FOR ANIMALS
(51) A01G 9/24	(54) NEW PLANTS HAVING A WHITE FOLIAGE PHENOTYPE	(73) LG Electronics Inc.
(11) EP3852512	(73) Klemm & Sohn GmbH & Co. KG	(72) Youn, Jekwang
(21) EP19829325.0	(72) Vilperte, Vinicius	Kim, Youngdon
(47) 01.11.2023	Debener, Thomas	Yoo, Hyunsun
(87) NL2019050613	Boehm, Robert	Chun, Jaehung
26.03.2020	Dohm, Andrea	Eun, Yousook
(22) 18.09.2019	von Tubeuf, Guido	Kim, Joogyoom
(54) A GREENHOUSE HAVING A CLIMATE CONTROL SYSTEM AND CLIMATE CONTROL SYSTEM FOR CONTROLLING THE GREENHOUSE CLIMATE IN THE GROWING AREA	Ulrich, Sander	Kim, Sungkyung
(73) VDB B.V.	(31) PCT/EP2019/064735	Kim, Myongsun
(72) VAN DEN BERG, Bart Jan	(32) 05.06.2019	(31) 20190088431
(31) 2022992	(33) World Intellectual Property Office (WIPO)	20190088430
2021676	(51) A01H 5/12	20190075692
	A01H 1/04	20190070281
	C12Q 1/68	20190070282
	(11) EP2912940	20190070284
	(21) EP15156928.2	20190070278
	(47) 01.11.2023	201862733393 P
		(32) 22.07.2019

22.07.2019	(72) CANDINI, Stefano	(21) EP21185654.7
25.06.2019	(31) 201700132165	(47) 01.11.2023
13.06.2019	(32) 20.11.2017	(22) 14.07.2021
13.06.2019	(33) Italy	(54) AGRICULTURAL DEVICE FOR
13.06.2019	(51) A01M 1/22	SPREADING A PUMPABLE MEDIUM
13.06.2019	A01M 1/24	OVER AGRICULTURAL LAND USING
19.09.2018	A01M 29/34	A SPREADER ARM AND METHOD OF
(33) Korea (Republic)	A01M 29/24	ADJUSTING A WORKING WIDTH OF A
Korea (Republic)	(11) EP4042865	VEHICLE PROVIDED WITH SUCH AN
Korea (Republic)	(21) EP22154019.8	AGRICULTURAL DEVICE
Korea (Republic)	(47) 01.11.2023	(73) Bomech B.V.
Korea (Republic)	(22) 28.01.2022	(72) SCHURINK, Gerard Johannes
Korea (Republic)	(54) ANTI-INSECT BARRIER AND METHOD	HOEK, Johannes Bernardus Maria
Korea (Republic)	FOR CONTROLLING INSECTS	(31) 102020118643
United States of America	(73) Einde Processierups B.V.	(32) 15.07.2020
(51) A01K 13/00	(72) VERNHOUT, Peter Paul	(33) Germany
(11) EP3855906	VERNHOUT, Daniel	(51) A01N 25/00
(21) EP19864984.0	MÜLLER, Kasper Henri	A01N 25/30
(47) 01.11.2023	(31) 2027550	A01N 25/16
(87) KR2019012619	(32) 12.02.2021	A01N 53/00
02.04.2020	(33) Netherlands	A01P 7/00
(22) 27.09.2019	(51) A01M 7/00	(11) EP3051944
(54) PET BATH	(11) EP3804515	(21) EP14790850.3
(73) LG Electronics Inc.	(21) EP20196870.8	(47) 01.11.2023
(72) WOO, Sangwoo	(47) 01.11.2023	(87) US2014058340
KIM, Minchul	(22) 18.09.2020	02.04.2015
KIM, Kyungrae	(54) AGRICULTURAL DISTRIBUTOR,	(22) 30.09.2014
CHOI, Sungbong	PREFERABLY A FIELD SPRAYER OR A	(54) METHOD OF DELIVERING AN
(31) 20180116665	PNEUMATIC FERTILIZER SPREADER	AGRICULTURALLY ACTIVE
(32) 29.09.2018	(73) HORSCH LEEB Application Systems	INGREDIENT
(33) Korea (Republic)	GmbH	(73) FMC Corporation
(51) A01K 61/95	(72) HIRTHAMMER, Daniel	(72) MARTIN, Timothy, M.
(11) EP3923709	(31) 102019127305	GRANT, Shawn
(21) EP20708216.5	(32) 10.10.2019	DESTEFANO, Neil
(47) 01.11.2023	(33) Germany	PRESTEGORD, Adam
(87) NO2020050032	(51) A01M 7/00	HARPER, Michael
20.08.2020	(11) EP3791717	(31) 201361893003 P
(22) 11.02.2020	(21) EP20192335.6	201361891729 P
(54) OBSERVATION SYSTEM COMPRISING	(47) 01.11.2023	201361884369 P
A SUBMERGED OBSERVATION UNIT	(22) 24.08.2020	(32) 18.10.2013
FOR A FISH TANK	(54) AGRICULTURAL DISTRIBUTOR,	16.10.2013
(73) Stingray Marine Solutions AS	PREFERABLY A FIELD SPRAYER OR A	30.09.2013
(72) BECK, Esben	FERTILIZER SPREADER	(33) United States of America
RØDSETH, Geir Inge	(73) HORSCH LEEB Application Systems	United States of America
(31) 20190203	GmbH	United States of America
(32) 13.02.2019	(72) LEEB, Theodor	(51) A01N 43/04
(33) Norway	(31) 102019123113	A61K 31/7088
(51) A01K 67/033	(32) 28.08.2019	A61K 35/76
(11) EP3772276	(33) Germany	A61K 38/17
(21) EP19382692.2	(51) A01M 7/00	A61K 39/00
(47) 01.11.2023	(11) EP3804516	A61K 48/00
(22) 06.08.2019	(21) EP20199314.4	C12N 15/86
(54) INSECT REARING BOX	(47) 01.11.2023	C12N 15/62
(73) Alternative Gene Expressions, S.L.	(22) 30.09.2020	A61K 35/00
(72) MARTÍNEZ ESCRIBANO, José Ángel	(54) AGRICULTURAL DISTRIBUTOR,	A61K 38/00
CID FERNÁNDEZ, Miguel	PREFERABLY A FIELD SPRAYER OR A	C07K 14/47
REYTOR SAAVEDRA, Edel	FERTILIZER SPREADER	A61P 25/14
ALVARADO FRADUA, Carmen	(73) HORSCH LEEB Application Systems	(11) EP4011206
MORENO DALTON, Romy	GmbH	(21) EP21207721.8
(51) A01K 97/02	(72) Hirthammer, Daniel	(47) 01.11.2023
(11) EP3713408	(31) 102019127301	(22) 21.06.2017
(21) EP18815819.0	(32) 10.10.2019	(54) MODIFIED DYSTROPHIN PROTEINS
(47) 01.11.2023	(33) Germany	(73) The Curators of the University of Missouri
(87) IT2018050221	(51) A01M 7/00	(72) DUAN, Dongsheng
23.05.2019	A01B 73/06	LAI, Yi
(22) 15.11.2018	A01C 23/00	ZHAO, Junling
(54) BAIT DISPENSING DEVICE	(11) EP3939426	YUE, Yongping
(73) FG Devab S.r.l		(31) 201662367559 P

201662357865 P	(11) EP3915383	(73) Purac Biochem B.V.
201662352927 P	(21) EP21175634.1	(72) ORLOVIC, Marija
(32) 27.07.2016	(47) 01.11.2023	ROOZEN, Lambertus Henricus Elisabeth
01.07.2016	(22) 25.05.2021	(31) 20150170
21.06.2016	(54) SCHNITZEL FLATTENING MACHINE	(32) 03.01.2020
(33) United States of America	(73) Völkl, Franz Xaver	(33) European Patent Office (EPO)
United States of America	(72) Völkl, Franz Xaver	(51) A23C 19/055
United States of America	(31) 102020114060	A23L 5/44
(51) A01N 43/40	(32) 26.05.2020	A23C 19/05
A01N 43/653	(33) Germany	(11) EP4186370
A01P 3/00	(51) A22C 11/10	(21) EP21210909.4
(11) EP3177145	(11) EP4088581	(47) 01.11.2023
(21) EP15829370.4	(21) EP22172975.9	(22) 26.11.2021
(47) 01.11.2023	(47) 01.11.2023	(54) CAROTENOID COLORING
(87) US2015044383	(22) 12.05.2022	COMPOSITION FOR CHEESE
11.02.2016	(54) SEPARATING DEVICE FOR	PRODUCTS
(22) 08.08.2015	SEPARATING PORTIONS OF	(73) Oterra A/S
(54) SYNERGISTIC FUNGICIDAL	ELONGATED CASINGS FILLED WITH	(72) Goury, Laura
MIXTURES FOR FUNGAL CONTROL IN	FOOD MATERIAL AND RELATED	Drelon, Marie
CEREALS	METHOD	Mazet, Remi
(73) Corteva Agriscience LLC	(73) VEMAG Maschinenbau GmbH	(51) A23F 3/16
(72) SCHULZ, Thomas	(72) Knodel, Peter	A23F 5/24
(31) 201462035198 P	(31) 102021112517	A23L 2/52
(32) 08.08.2014	(32) 12.05.2021	A23L 2/70
(33) United States of America	(33) Germany	A23L 2/62
(51) A01N 43/80	(51) A22C 21/00	A23L 2/02
A01N 43/56	A22B 7/00	A23L 2/06
A01N 33/18	(11) EP3508066	(11) EP3881681
A01N 37/22	(21) EP18150129.7	(21) EP19885058.8
A01N 43/10	(47) 01.11.2023	(47) 01.11.2023
A01N 25/04	(22) 03.01.2018	(87) JP2019036080
A01P 13/00	(54) ARRANGEMENT AND METHOD FOR	22.05.2020
(11) EP3160230	PROCESSING POULTRY	(22) 13.09.2019
(21) EP15730498.1	(73) BAADER Food Systems Denmark A/S	(54) CHITOSAN-CONTAINING BEVERAGE
(47) 01.11.2023	(72) Nielsen, Karsten	(73) Suntory Holdings Limited
(87) EP2015063813	Kjeldsen, Poul	(72) SHIMADA, Yoshiaki
30.12.2015	(51) A22C 29/00	YOSHIDA, Atsushi
(22) 19.06.2015	A22C 29/04	OSADA, Tomoya
(54) FORMULATION OF CLOMAZONE	B23K 26/08	TAMURA, Hiroshi
HAVING REDUCED VOLATILITY	B41M 5/24	FURUIKE, Tetsuya
(73) BASF SE	B23K 103/00	KOMOTO, Daiki
(72) STEINBRENNER, Ulrich	(11) EP2796049	(31) 2018214070
SCHAEFER, Ansgar	(21) EP14165086.1	(32) 14.11.2018
MORAN PUENTE, Diana Westfalia	(47) 01.11.2023	(33) Japan
HENKES, Steffen	(22) 17.04.2014	(51) A23G 1/00
(31) 14173983	(54) Packaging line with means for marking	A23G 1/12
(32) 25.06.2014	molluscs and corresponding method	A23G 1/16
(33) European Patent Office (EPO)	(73) Speciales Gillardeau	(11) EP3915388
(51) A01N 45/02	(72) Gillardeau, Véronique	(21) EP21175755.4
A01N 37/44	Gillardeau, Thierry	(47) 01.11.2023
A01P 3/00	(31) 1353654	(22) 25.05.2021
(11) EP3614845	(32) 22.04.2013	(54) CONCHING ARRANGEMENT
(21) EP18790004.8	(33) France	(73) Hamburg Dresdner Maschinenfabriken
(47) 01.11.2023	(51) A23B 4/20	Verwaltungsgesellschaft mbH
(87) IB2018052794	A23L 3/3508	(72) Lohmüller, Tobias
01.11.2018	A23L 13/40	(31) 102020113943
(22) 23.04.2018	A23P 20/10	(32) 25.05.2020
(54) FUNGICIDAL COMBINATIONS	A23P 20/18	(33) Germany
(73) UPL Ltd	A23L 2/44	(51) A23G 1/40
(72) FABRI, Carlos, Eduardo	(11) EP4084618	A23G 3/42
SHROFF, Rajju, Devidas	(21) EP20839356.1	A23G 4/10
SHROFF, Jaidev, Rajnikant	(47) 01.11.2023	A23L 29/212
SHROFF, Vikram, Rajnikant	(87) EP2020087997	(11) EP3681304
(31) 201731014965	08.07.2021	(21) EP18779933.3
(32) 27.04.2017	(22) 29.12.2020	(47) 01.11.2023
(33) India	(54) POWDER COMPRISING LACTATE-	(87) US2018050838
(51) A22C 7/00	COATED PARTICLES AND METHOD	21.03.2019
A22C 9/00	FOR THE PREPARATION THEREOF	(22) 13.09.2018

(54) CHEWY CONFECTIONERY PRODUCT	(21) EP19161098.9	A23K 50/60
(73) Wm. Wrigley Jr. Company	(47) 01.11.2023	A23K 50/75
(72) HAVRANEK, Jiri	(22) 14.08.2013	(11) EP3973789
JINDRICH, Josef	(54) SYSTEM FOR THE PREPARATION OF	(21) EP19930035.1
KASPAROVA, Katerina	COOLED EDIBLE PRODUCTS	(47) 01.11.2023
BARON, Jiri	(73) Solo Gelato Ltd.	(87) CN2019088053
(31) 201762558929 P	(72) BETH HALACHMI, Barak	26.11.2020
(32) 15.09.2017	(51) A23G 9/08	(22) 23.05.2019
(33) United States of America	A23G 9/12	(54) FEED COMPOSITION COMPRISING
(51) A23G 3/28	A23G 9/22	HEXAHYDRO- $\beta$ -ACID COMPONENT
A21C 15/00	(11) EP3682743	COMPOUNDS AND APPLICATION
(11) EP3890503	(21) EP20151032.8	THEREOF
(21) EP19802234.5	(47) 01.11.2023	(73) ANIPHA TECHNOLOGIES PTY LTD
(47) 01.11.2023	(22) 09.01.2020	(72) PENG, Xianfeng
(87) FR2019000149	(54) WHIPPING DEVICE AND MACHINE	(51) A23K 40/30
09.04.2020	FOR PRODUCING AND STORING ICE	A23K 10/16
(22) 26.09.2019	CREAMS AND SIMILAR PRODUCTS	A23K 20/111
(54) INTERCHANGEABLE PIPING MULTI-	COMPRISING SAID WHIPPING DEVICE	A23K 20/142
TUBE	(73) Frigomat S.r.l.	A23K 20/26
(73) Lemercier, Michel	(72) SOFFIENTINI, Paolo	C07K 14/195
(72) Lemercier, Michel	(31) 201900000711	C07K 14/32
(31) 1801053	(32) 17.01.2019	C07K 14/335
(32) 04.10.2018	(33) Italy	(11) EP3766361
(33) France	(51) A23G 9/44	(21) EP19767918.6
(51) A23G 4/08	A23G 9/48	(47) 01.11.2023
A23G 4/06	A23G 9/50	(87) JP2019011162
(11) EP3355708	(11) EP3509429	19.09.2019
(21) EP16852691.1	(21) EP17761887.3	(22) 18.03.2019
(47) 01.11.2023	(47) 01.11.2023	(54) ANIMAL FEED ADDITIVE AND ANIMAL
(87) US2016054707	(87) EP2017072305	FEED
06.04.2017	15.03.2018	(73) AJINOMOTO CO., INC.
(22) 30.09.2016	(22) 06.09.2017	(72) UEHARA Akinori
(54) CHEWING GUMS WITH CROSS-	(54) A FROZEN CONFECTIONERY	NAKAGAWA Kazuki
LINKED HYDROCOLLOIDS AND	PRODUCT	MAEKAWA Mayumi
COUPLING AGENTS	(73) Unilever IP Holdings B.V.	(31) 2018049060
(73) Wm. Wrigley Jr. Company	(72) DEEPADUNG, Duangporn	(32) 16.03.2018
(72) LIU, Jingping	MANOPAKARAT, Visit	(33) Japan
(31) 201562235354 P	SIHA, Oraphan	(51) A23K 50/42
(32) 30.09.2015	SMITH, Alistair, David	A23K 10/20
(33) United States of America	(31) 16188320	A23K 10/30
(51) A23G 9/00	(32) 12.09.2016	(11) EP4027802
A23G 9/08	(33) European Patent Office (EPO)	(21) EP19772796.9
A23G 9/28	(51) A23J 3/14	(47) 01.11.2023
F25C 5/12	A23J 3/16	(87) GB2019052555
A23G 9/16	A23J 3/18	18.03.2021
A23G 9/22	A23J 3/22	(22) 12.09.2019
A23G 9/30	A23J 3/26	(54) DRY PET FOOD MANUFACTURING
A23G 9/12	(11) EP4003048	METHOD
(11) EP3589134	(21) EP20743654.4	(73) Cambrian Investco Limited
(21) EP19755514.7	(47) 01.11.2023	(72) DAVIES, Jonathan
(47) 01.11.2023	(87) EP2020070287	(31) 201912950
(87) US2019029862	04.02.2021	(32) 09.09.2019
07.11.2019	(22) 17.07.2020	(33) United Kingdom
(22) 30.04.2019	(54) PROCESS FOR MANUFACTURING A	(51) A23L 7/161
(54) DOOR AND BAFFLE INTERFACE	FORMED MEAT ANALOGUE PRODUCT	C08L 3/02
ASSEMBLY FOR FROZEN DESSERT	(73) Société des Produits Nestlé S.A.	(11) EP3897196
MACHINES	(72) SHAMAILA, Mawele	(21) EP19827643.8
(73) Taylor Commercial Foodservice, LLC	GADDIPATI, Sanyasi	(47) 01.11.2023
(72) BUSH, Mark, E.	SOMERVILLE, Jeremy	(87) EP2019084402
MATZ, Nathan	ERLE, Ulrich Johannes	25.06.2020
(31) 201862665764 P	(31) 201962880981 P	(22) 10.12.2019
(32) 02.05.2018	(32) 31.07.2019	(54) USE OF EXPANDED AND
(33) United States of America	(33) United States of America	HYDROPHOBIC POPCORN TO
(51) A23G 9/04	(51) A23K 20/105	PRODUCE THREE-DIMENSIONAL
A23G 9/30	A23K 20/195	SHAPED PARTS
A23G 9/28	C07C 49/713	(73) Georg-August-Universität Göttingen
A23G 9/22	A23K 20/111	(72) EURING, Markus
(11) EP3513659	A23K 40/30	KHARAZIPOUR, Alireza

(31) 102018132738	(11) EP3850953	(72) NAGAI, Atsushi
(32) 18.12.2018	(21) EP20212527.4	KOBAYASHI, Kei
(33) Germany	(47) 01.11.2023	CHIDA, Hiroyuki
(51) A23L 13/00	(22) 12.06.2017	MORI, Kazuo
A22C 7/00	(54) NUTRITION TO REDUCE THE RISK OF	OTAKI, Hiroshi
A47J 27/20	ALLERGY	(31) 2014190245
B65B 25/22	(73) N.V. Nutricia	(32) 18.09.2014
(11) EP3508072	(72) Wopereis, Harm Johannes	(33) Japan
(21) EP19150011.5	Knol, Jan	(51) A24B 3/18
(47) 01.11.2023	(31) 16174039	A24B 15/16
(22) 02.01.2019	(32) 10.06.2016	(11) EP3200624
(54) METHOD FOR COOKING A HAM AND	(33) European Patent Office (EPO)	(21) EP15790270.1
DEVICE THAT IS USABLE IN SAID	(51) A23L 33/12	(47) 01.11.2023
METHOD	A23L 33/00	(87) IB2015057428
(73) VE.MA.C. Societa' A Responsabilita'	(11) EP4061152	07.04.2016
Limitata	(21) EP20810967.8	(22) 28.09.2015
(72) COSTANTINI, Maurizio	(47) 01.11.2023	(54) RECOVERY OF TOBACCO
VEZZALI, Franco	(87) EP2020083047	CONSTITUENTS FROM PROCESSING
MALAGOLI, Uliano	27.05.2021	(73) Philip Morris Products S.A.
(31) 201800000573	(22) 23.11.2020	(72) BESSO, Clement
(32) 05.01.2018	(54) INFANT FORMULA FOR REDUCING	(31) 201462057580 P
(33) Italy	THE RISK OF DEVELOPING NON-	14187195
(51) A23L 13/00	ALCOHOLIC FATTY LIVER DISEASE	(32) 30.09.2014
A23L 13/70	(73) N.V. Nutricia	30.09.2014
A23L 13/40	(72) KODDE, Francina Dorothea	(33) United States of America
A23D 9/02	RAKSHANDEHROO, Maryam	European Patent Office (EPO)
C11C 3/10	VAN DER BEEK, Eline Marleen	(51) A24C 5/18
(11) EP3582629	OOSTERVEER, Maaïke Hélène	A24D 3/02
(21) EP18704252.8	(31) 19211021	(11) EP3687316
(47) 01.11.2023	(32) 22.11.2019	(21) EP18783555.8
(87) EP2018053688	(33) European Patent Office (EPO)	(47) 01.11.2023
23.08.2018	(51) A23L 33/135	(87) GB2018052784
(22) 14.02.2018	A23L 29/00	04.04.2019
(54) MARINADE	A23L 19/00	(22) 28.09.2018
(73) Bunge Loders Croklaan B.V.	A61K 35/745	(54) SHAPING A TOBACCO INDUSTRY
(72) DE LIMA, Christopher Mark	A61K 35/747	PRODUCT
MA, Jun	A61K 36/22	(73) British American Tobacco (Investments)
THERON, Karin Alicia	(11) EP3970512	Limited
(31) 17275019	(21) EP21196774.0	(72) WHIFFEN, Samuel
(32) 15.02.2017	(47) 01.11.2023	BRICE, Thomas
(33) European Patent Office (EPO)	(22) 15.09.2021	RICHARDSON, John
(51) A23L 27/00	(54) PROBIOTIC FRUIT COMPOSITION	KALJURA, Karl
A23J 3/14	AND METHOD OF PREPARING A	LE ROUX, Gerhard
A23J 3/34	PROBIOTIC FRUIT COMPOSITION	HERHOLDT, Arnold
(11) EP4161291	(73) Döhler GmbH	(31) 201715923
(21) EP22761549.9	(72) Penning, Björn	(32) 29.09.2017
(47) 01.11.2023	Bick, Annette	(33) United Kingdom
(87) EP2022072326	Foltz, Martin	(51) A24C 5/32
16.02.2023	Reeg, Laura	A24F 47/00
(22) 09.08.2022	Smerz, Alexander	A24F 40/80
(54) FLAVORING COMPOSITIONS FOR	(31) 102020124073	(11) EP3979843
TASTE IMPROVEMENT	(32) 16.09.2020	(21) EP20733493.9
(73) Symrise AG	(33) Germany	(47) 01.11.2023
(72) KIEFL, Johannes	(51) A24B 3/04	(87) EP2020067560
LIEBIG, Margit	A24B 1/02	30.12.2020
HARMS, Christoph	A24B 3/12	(22) 23.06.2020
WIEBUSCH, Rebecca	A24B 13/00	(54) SYSTEM AND METHOD FOR TESTING
SOMERS, Tom	A24B 15/10	A HEATING SYSTEM FOR USE IN AN
LEY, Jakob Peter	(11) EP3172974	AEROSOL
(31) PCT/EP2021/072252	(21) EP15842178.4	(73) Philip Morris Products S.A.
(32) 10.08.2021	(47) 01.11.2023	(72) BATISTA, Rui, Nuno
(33) World Intellectual Property Office (WIPO)	(87) JP2015076028	CALI, Ricardo
(51) A23L 33/00	24.03.2016	LÖB, Andreas
A61K 35/742	(22) 14.09.2015	BREMAN, Lambert, Wijnand
C12Q 1/04	(54) METHOD OF MANUFACTURING	(31) 19183451
C12Q 1/06	TOBACCO RAW MATERIAL AND ORAL	(32) 28.06.2019
A23L 33/135	TOBACCO PRODUCT	(33) European Patent Office (EPO)
A23L 33/21	(73) Japan Tobacco Inc.	(51) A24D 1/02

A24D 1/20	DEMOPOULOS, James	(32) 10.01.2020
A24D 3/02	(31) 201615042868	20.09.2019
A24D 3/06	(32) 12.02.2016	(33) China
A24D 3/10	(33) United States of America	China
A24D 3/14	(51) A24F 40/40	(51) A24F 40/42
D04H 1/425	(11) EP3829360	A24F 40/10
D04H 1/4258	(21) EP19745173.5	A61M 11/04
D04H 1/492	(47) 01.11.2023	A61M 15/06
A24D 3/17	(87) EP2019070762	A24F 40/40
(11) EP4132303	06.02.2020	(11) EP3871526
(21) EP21733956.3	(22) 01.08.2019	(21) EP18937655.1
(47) 01.11.2023	(54) SYSTEM COMPRISING AEROSOL-	(47) 01.11.2023
(87) EP2021066102	GENERATING DEVICE AND ADAPTER	(87) JP2018046757
22.12.2022	ELEMENT	30.04.2020
(22) 15.06.2021	(73) Philip Morris Products S.A.	(22) 19.12.2018
(54) HYDROENTANGLED FILTER	(72) ACCONCIA, Federica	(54) ATOMIZATION UNIT AND NON-
MATERIAL FOR SMOKING ARTICLES	PRESTIA, Ivan	COMBUSTION-TYPE INHALER
HAVING IMPROVED EXPANSION	(31) 18187101	(73) Japan Tobacco Inc.
BEHAVIOUR	(32) 02.08.2018	(72) YAMADA, Manabu
(73) Delfortgroup AG	(33) European Patent Office (EPO)	MATSUDA, Kentaro
(72) VOLGGER, Dietmar	(51) A24F 40/40	ODA, Takashi
BACHMANN, Stefan	(11) EP4029389	SHEN, Pifa
(51) A24F 9/04	(21) EP21218010.3	(31) 201811255598
A24F 40/85	(47) 01.11.2023	(32) 26.10.2018
(11) EP4030938	(22) 28.12.2021	(33) China
(21) EP20771877.6	(54) ATOMIZER AND ELECTRONIC	(51) A24F 40/42
(47) 01.11.2023	ATOMIZING DEVICE HAVING THE	A24F 40/30
(87) EP2020076054	SAME	A24D 3/06
25.03.2021	(73) Jiangmen Moore Technology., Ltd	A61M 11/04
(22) 17.09.2020	(72) ZHOU, Weidong	A61M 15/06
(54) CLEANING TOOL WITH ADDITIONAL	LU, Fengwen	A24F 40/10
CLEANING ELEMENTS FOR AN	WANG, Min	(11) EP3512367
AEROSOL-GENERATING DEVICE	ZHU, Xiaolan	(21) EP17780009.1
(73) Philip Morris Products, S.A.	(31) 202023303669 U	(47) 01.11.2023
(72) BOLOGNA, Matteo	(32) 30.12.2020	(87) EP2017072814
CARIGNANI, Ferdinando	(33) China	22.03.2018
(31) 19198518	(51) A24F 40/40	(22) 12.09.2017
(32) 20.09.2019	A24F 40/20	(54) RECEPTACLE SECTION
(33) European Patent Office (EPO)	(11) EP3801087	(73) Nicoventures Trading Limited
(51) A24F 15/00	(21) EP19728696.6	(72) HEPWORTH, Richard
(11) EP3709827	(47) 01.11.2023	DICKENS, Colin
(21) EP19708430.4	(87) EP2019064766	(31) 201615603
(47) 01.11.2023	12.12.2019	(32) 14.09.2016
(87) EP2019054588	(22) 06.06.2019	(33) United Kingdom
06.09.2019	(54) AEROSOL-GENERATING DEVICE	(51) A24F 40/46
(22) 25.02.2019	(73) Philip Morris Products S.A.	A24F 40/10
(54) METHOD AND DEVICE FOR	(72) DÜMEN, Oguz	(11) EP3813576
DISPENSING AND REMOVING	(31) 18176548	(21) EP19731263.0
SMOKING ARTICLES	(32) 07.06.2018	(47) 01.11.2023
(73) Unsicker, Andreas	(33) European Patent Office (EPO)	(87) EP2019065702
(72) Unsicker, Andreas	(51) A24F 40/40	02.01.2020
(31) 102018104470	A24F 40/42	(22) 14.06.2019
(32) 27.02.2018	A24F 40/485	(54) ATOMISER FOR USE IN ELECTRONIC
(33) Germany	H01M 50/247	CIGARETTE WITH OPTICAL
(51) A24F 15/08	H01M 50/317	VAPORISATION SYSTEM
(11) EP3413729	H01M 50/358	(73) JT International SA
(21) EP17705179.4	(11) EP3794991	(72) SCHMIDLIN, Moritz
(47) 01.11.2023	(21) EP20196849.2	LUSO, Damir
(87) IB2017050722	(47) 01.11.2023	(31) 18179732
17.08.2017	(22) 18.09.2020	(32) 26.06.2018
(22) 09.02.2017	(54) POWER SUPPLY ASSEMBLY,	(33) European Patent Office (EPO)
(54) ADAPTERS FOR REFILLING AN	ATOMIZER, AND ELECTRONIC	(51) A24F 40/46
AEROSOL DELIVERY DEVICE	ATOMIZING DEVICE	A24F 40/70
(73) RAI Strategic Holdings, Inc.	(73) Shenzhen Smoore Technology Limited	(11) EP3720307
(72) DAVIS, Michael F.	(72) YAO, Gaoren	(21) EP18819008.6
PHILLIPS, Percy D.	WU, Juntao	(47) 01.11.2023
ROGERS, James William	(31) 202010025818	(87) EP2018083300
BROWN, Lisa E.	201921568565 U	13.06.2019



(22) 03.12.2018	A24F 40/40	LEE, Seung Won
(54) ELECTRONIC SMOKING DEVICE WITH A HEATING ELEMENT HAVING A MODIFIED SURFACE	(11) EP4190188	HAN, Dae Nam
(73) Fontem Ventures B.V.	(21) EP22206868.6	(31) 20200029169
(72) WENSLEY, Martin	(47) 01.11.2023	(32) 09.03.2020
BIEL, Stefan	(22) 11.11.2022	(33) Korea (Republic)
(31) 17205861	(54) VAPORIZER AND ELECTRONIC VAPORIZATION DEVICE	(51) A24F 40/60
(32) 07.12.2017	(73) Shenzhen Smoore Technology Limited	A24F 40/53
(33) European Patent Office (EPO)	(72) LIAO, Junfeng	A24F 40/20
(51) A24F 40/465	LAN, Zhanggui	(11) EP3941262
A24F 40/51	WEN, Zhihua	(21) EP20715705.8
A24F 40/20	(31) 202122862028 U	(47) 01.11.2023
(11) EP3982775	(32) 19.11.2021	(87) EP2020056790
(21) EP20731112.7	(33) China	01.10.2020
(47) 01.11.2023	(51) A24F 40/51	(22) 13.03.2020
(87) EP2020066172	A24F 40/485	(54) SMOKING SUBSTITUTE SYSTEM
17.12.2020	A61M 15/06	(73) Imperial Tobacco Limited
(22) 11.06.2020	(11) EP3323305	(72) FERRIE, Kate
(54) AEROSOL-GENERATING DEVICE WITH OPTICAL MEANS FOR STATE DETECTION	(21) EP16830075.4	SHENTON, Ross
(73) Philip Morris Products S.A.	(47) 01.11.2023	LORD, Chris
(72) FURSA, Oleg	(87) JP2016050699	BENYEZZAR, Med
(31) 19405008	02.02.2017	LOMAS, Pete
(32) 14.06.2019	(22) 12.01.2016	(31) 19020162
(33) European Patent Office (EPO)	(54) NON-COMBUSTION-TYPE FLAVOR INHALER	(32) 22.03.2019
(51) A24F 40/465	(73) Japan Tobacco Inc.	(33) European Patent Office (EPO)
A24F 40/53	(72) TAKEUCHI, Manabu	(51) A24F 40/70
A24F 40/57	NAKANO, Takuma	B21F 3/04
(11) EP4000433	YAMADA, Manabu	(11) EP3880383
(21) EP20928055.1	(31) PCT/JP2015/071346	(21) EP19809569.7
(47) 01.11.2023	(32) 28.07.2015	(47) 01.11.2023
(87) CN2020118484	(33) World Intellectual Property Office (WIPO)	(87) GB2019053240
31.03.2022	(51) A24F 40/51	22.05.2020
(22) 28.09.2020	A24F 40/60	(22) 15.11.2019
(54) SMOKE GENERATING DEVICE FOR INDUCTION HEATING IN FOLDING AIR CHANNEL	A24F 40/65	(54) VAPE TOOL AND VAPE TOOL KIT FOR MAKING VAPING COILS
(73) China Tobacco Yunnan Industrial Co., Ltd	A61M 11/04	(73) Graph-X Ltd
(72) WU, Jun	A61M 15/06	(72) SHEPPARD, Christopher
LI, Tinghua	(11) EP3784077	DRINKWATER, Benjamin
LI, Shoubo	(21) EP19721356.4	(31) 201818614
ZHU, Donglai	(47) 01.11.2023	(32) 15.11.2018
ZHANG, Xia	(87) GB2019051162	(33) United Kingdom
GONG, Xiaowei	31.10.2019	(51) A24F 47/00
HAN, Yi	(22) 26.04.2019	(11) EP3672429
ZHAO, Wei	(54) ELECTRONIC AEROSOL PROVISION SYSTEM	(21) EP17758212.9
HONG, Liu	(73) Nicovertures Trading Limited	(47) 01.11.2023
YOU, Junheng	(72) KERSEY, Robert	(87) EP2017071977
LIAO, Xiaoxiang	MOLONEY, Patrick	28.02.2019
(51) A24F 40/465	BAKER, Darryl	(22) 01.09.2017
A24F 40/60	(31) 201806826	(54) AEROSOL-GENERATING SYSTEM WITH CHARGING DEVICE
A24F 40/20	(32) 26.04.2018	(73) Philip Morris Products S.A.
(11) EP3864985	(33) United Kingdom	(72) HOLZHERR, Raphael
(21) EP21165908.1	(51) A24F 40/53	LEE, Hankak
(47) 01.11.2023	A24F 40/10	(31) 17187602
(22) 05.06.2015	A24F 40/20	(32) 23.08.2017
(54) ELECTRONIC VAPOUR INHALERS	A24F 40/30	(33) European Patent Office (EPO)
(73) JT International SA	(11) EP3905911	(51) A24F 47/00
(72) GILL, Mark	(21) EP20873379.0	H04W 4/029
VANKO, Daniel	(47) 01.11.2023	H04W 4/80
BRVENIK, Lubos	(87) KR2020018874	A61M 15/06
(31) 201411488	16.09.2021	G01S 5/00
(32) 27.06.2014	(22) 22.12.2020	G01S 5/18
(33) United Kingdom	(54) AN AEROSOL GENERATING APPARATUS AND A METHOD FOR CONTROLLING THE SAME	A24F 40/65
(51) A24F 40/485	(73) KT & G Corporation	G06F 16/29
A24F 40/10	(72) KIM, Yong Hwan	(11) EP4136994
	YOON, Sung Wook	(21) EP22201053.0
		(47) 01.11.2023
		(22) 18.12.2018

(54) APPARATUS FOR LOCATING AN AEROSOL GENERATION DEVICE	(73) NFM AS	(22) 28.01.2022
(73) JT International SA	(72) HVESSEER, Thomas LACH, Michal	(54) HYPOALLERGENIC FOOTWEAR AND METHOD FOR PREVENTING ALLERGIC CONTACT DERMATITIS ACD
(72) Estripeau, Frederic Claude Hervé	(31) 20191369	(73) Binar S.r.l.
(31) 17208194	(32) 18.11.2019	(72) BIANCHI, Enio Angelo
(32) 18.12.2017	(33) Norway	(31) 202100002126
(33) European Patent Office (EPO)	(51) A42B 3/14	(32) 02.02.2021
(51) A41D 1/04	(11) EP3864988	(33) Italy
A41D 27/28	(21) EP21155333.4	(51) A43B 7/14
A44B 19/24	(47) 01.11.2023	A43C 1/00
(11) EP4104695	(22) 04.02.2021	A43B 23/02
(21) EP22178573.6	(54) RATCHET ASSEMBLY FOR PROTECTIVE HEADGEAR	A43C 11/14
(47) 01.11.2023	(73) Honeywell International Inc.	B33Y 80/00
(22) 13.06.2022	(72) PASALA, Surya	A43C 7/00
(54) VENTILATING PROTECTIVE JACKET	(31) 202011006628	A43B 23/00
(73) UAB It Is Future	(32) 15.02.2020	B33Y 40/00
(72) PODERIS, Vytas	(33) India	A43C 1/04
(31) 2021531	(51) A42B 3/28	A43B 23/24
(32) 15.06.2021	A42B 3/04	A43C 11/16
(33) Lithuania	A62B 9/04	(11) EP3386333
(51) A41D 13/00	F16L 37/00	(21) EP16820409.7
B63B 34/26	(11) EP3541479	(47) 01.11.2023
(11) EP3358973	(21) EP17872619.6	(87) US2016065181
(21) EP16788037.6	(47) 01.11.2023	15.06.2017
(47) 01.11.2023	(87) US2017062287	(22) 06.12.2016
(87) EP2016074060	24.05.2018	(54) TUNNEL SPRING STRUCTURES
13.04.2017	(22) 17.11.2017	(73) Nike Innovate C.V.
(22) 07.10.2016	(54) HYDRATION AND AIR COOLING SYSTEM	(72) GUEST, Stefan E.
(54) A SEALING ARRANGEMENT FOR GARMENTS	(73) Rainmaker Solutions, Inc.	HOLMES, Matthew J.
(73) SI Tech AB	(72) JAEGER, Eduard Albert	STERMAN, Yoav
(72) AXELSSON, Jonas	STAHL, Robert Gregory	(31) 201562263923 P
(31) 15189155	BOWLES, Jacob Timm	201562263891 P
(32) 09.10.2015	(31) 201715813157	201562263898 P
(33) European Patent Office (EPO)	201662423430 P	201562263834 P
(51) A41D 13/002	(32) 15.11.2017	201562263916 P
A41D 31/102	17.11.2016	(32) 07.12.2015
A41D 31/12	(33) United States of America	07.12.2015
(11) EP3684211	United States of America	07.12.2015
(21) EP18766277.0	(51) A43B 1/10	07.12.2015
(47) 01.11.2023	A43B 3/02	07.12.2015
(87) EP2018075002	A43B 13/18	(33) United States of America
28.03.2019	A43B 7/12	United States of America
(22) 17.09.2018	A43B 7/14	United States of America
(54) VAPOR-PERMEABLE INSERT FOR ITEMS OF CLOTHING AND ACCESSORIES, ITEM OF CLOTHING AND ACCESSORIES WITH SAID INSERT	B29D 35/00	United States of America
(73) Geox S.p.A.	(11) EP3945919	United States of America
(72) POLEGATO MORETTI, Mario	(21) EP20718726.1	(51) A43B 13/22
BRUNO, Marco	(47) 01.11.2023	A63B 60/08
RAMPIN, Michele	(87) GB2020050856	A63B 71/14
(31) 201700104874	08.10.2020	A43B 13/12
(32) 20.09.2017	(22) 31.03.2020	A41D 13/00
(33) Italy	(54) A METHOD OF FORMING AN ITEM OF FOOTWEAR AND AN ITEM OF FOOTWEAR	A41D 19/00
(51) A42B 3/00	(73) FITFLOP LIMITED	A63B 102/02
A42B 3/04	(72) LILLEY, Kim	A63B 102/18
A42B 3/06	(31) 201904702	A63B 102/32
F41H 1/04	(32) 03.04.2019	C08L 9/00
(11) EP4061171	(33) United Kingdom	A63B 53/14
(21) EP20804266.3	(51) A43B 7/00	(11) EP3922123
(47) 01.11.2023	A43B 7/12	(21) EP19917543.1
(87) EP2020081625	A61K 9/00	(47) 01.11.2023
27.05.2021	A61P 17/00	(87) JP2019008674
(22) 10.11.2020	A61P 31/04	10.09.2020
(54) HELMET AND ASSOCIATED EQUIPMENT	(11) EP4035552	(22) 05.03.2019
	(21) EP22153975.2	(54) ANTI-SLIP MEMBER FOR ARTICLE OF EQUIPMENT OR SPORT GEAR, ARTICLE OF EQUIPMENT, AND ARTICLE OF SPORT GEAR
	(47) 01.11.2023	

(73) ASICS Corporation	(21) EP21163657.6	F21V 33/00
(72) NISHI, Toshiaki	(47) 01.11.2023	(11) EP3527105
(51) A44B 18/00	(22) 19.03.2021	(21) EP19157138.9
C08L 67/02	(54) DEVICE FOR HAIR WASHING	(47) 01.11.2023
C08L 101/16	(73) Semplice-Mente S.r.l.s.	(22) 14.02.2019
(11) EP3949791	(72) FONTANA, Giorgio	(54) COMPACT MIRROR
(21) EP20779978.4	(31) 202000013534	(73) Simplehuman, LLC
(47) 01.11.2023	(32) 08.06.2020	(72) Yang, Frank
(87) JP2020013591	(33) Italy	Chang, Di-Fong
01.10.2020	(51) A45D 33/00	Cohen, Guy
(22) 26.03.2020	A45D 34/04	(31) 201862640147 P
(54) BIODEGRADABLE HOOK-TYPE	(11) EP3241458	201862630788 P
MOLDED SURFACE FASTENER WITH	(21) EP17167115.9	(32) 08.03.2018
OUTSTANDING MOLDABILITY	(47) 01.11.2023	14.02.2018
(73) Kuraray Fastening Co., Ltd.	(22) 19.04.2017	(33) United States of America
Kuraray Co., Ltd.	(54) AN APPLICATOR OF AN EYE MAKE-UP	United States of America
(72) KOGA, Nobuhiro	PRODUCT	(51) A46B 3/14
ONO, Satoru	(73) Chromavis S.p.A.	A46B 5/00
IDE, Junya	(72) BOVERA, Luisella	A46B 7/04
FUJISAWA, Yoshikatsu	GINELLI, Cristina	A46B 9/02
(31) 2019062679	GHILARDI, Roberta	(11) EP4014788
(32) 28.03.2019	(31) UA20163134	(21) EP21194457.4
(33) Japan	(32) 04.05.2016	(47) 01.11.2023
(51) A44C 5/14	(33) Italy	(22) 02.09.2021
A44C 9/02	(51) A45D 34/04	(54) ERGONOMIC POLE AND MODULAR
(11) EP3718429	(11) EP2635167	HEAD CLEANING IMPLEMENT
(21) EP19167058.7	(21) EP11837668.0	(73) Unger Marketing International, LLC
(47) 01.11.2023	(47) 01.11.2023	(72) Buckley, James M.
(22) 03.04.2019	(87) IL2011000858	(31) 202017126936
(54) INSERT FOR A WATCH STRAP	10.05.2012	(32) 18.12.2020
(73) Omega SA	(22) 03.11.2011	(33) United States of America
(72) Humbert, Karl	(54) A COSMETIC APPLICATOR WITH	(51) A46B 13/02
(51) A44C 17/02	SPONGE TO ABSORB SUBSTANCE	A61C 17/20
(11) EP3391769	AND TO PREVENT LEAKAGE	A61C 17/22
(21) EP17190048.3	THEREOF	(11) EP3827701
(47) 01.11.2023	(73) Synoia Technologies Ltd	(21) EP19840075.6
(22) 08.09.2017	(72) GEVA, Ziv	(47) 01.11.2023
(54) MAGNIFIED-LOOK DIAMOND	MOFAR, Ayelet	(87) JP2019026307
JEWELRY	LEIZEROVICH, Ofer	30.01.2020
(73) H.K. Designs Inc.	(31) 410374 P	(22) 02.07.2019
(72) DHOLAKIYA, Hasu	(32) 05.11.2010	(54) BRUSH, REPLACEMENT MEMBER
(31) 201715492068	(33) United States of America	FOR BRUSH, AND METHOD FOR
(32) 20.04.2017	(51) A45D 34/04	USING BRUSH
(33) United States of America	A45D 40/26	(73) Kyocera Corporation
(51) A45D 2/00	(11) EP4003091	(72) INAGAKI Tomohiro
A45D 1/04	(21) EP19766061.6	HIDAKA Mizuho
A45D 1/06	(47) 01.11.2023	(31) 2018220592
A45D 1/12	(87) FR2019051884	2018138812
(11) EP3902438	04.02.2021	(32) 26.11.2018
(21) EP19903646.8	(22) 31.07.2019	24.07.2018
(47) 01.11.2023	(54) TWO-PART WRINGING DEVICE	(33) Japan
(87) US2019068569	(73) Société Industrielle de Matières	Japan
02.07.2020	Plastiques	(51) A47B 9/04
(22) 26.12.2019	(72) DE BARDONNECHE, Eric	(11) EP3981288
(54) HAIR STYLER INCLUDING HINGED	(51) A45D 40/00	(21) EP21196387.1
ARMS HAVING TWISTED HAIR	A45D 34/00	(47) 01.11.2023
CONTACT SURFACES	(11) EP4133968	(22) 13.09.2021
(73) Spectrum Brands, Inc.	(21) EP21306111.2	(54) RAISING COLUMN FOR FURNITURE
(72) DEGROOD, Michael John	(47) 01.11.2023	(73) USM U. Schärer Söhne AG
KUZIA, Jay William	(22) 11.08.2021	(72) SCHÄRER, Alexander
(31) 201811611231	(54) SYSTEM FOR PROTECTING A POT	DIENES, Thomas
(32) 27.12.2018	CONTAINING A COSMETIC PRODUCT	ROTH, Bastian
(33) China	(73) Chanel Parfums Beauté	(31) 20200316
(51) A45D 19/04	(72) SEINGIER, Julien	(32) 06.10.2020
A45D 19/10	(51) A45D 42/04	(33) European Patent Office (EPO)
A45D 19/14	A45D 42/10	(51) A47B 88/427
(11) EP3922129	A45C 11/24	(11) EP4021246
		(21) EP20753336.5

(47) 01.11.2023	(31) 202100006467	(31) 201910882253
(87) EP2020072000	(32) 18.03.2021	(32) 18.09.2019
04.03.2021	(33) Italy	(33) China
(22) 05.08.2020	(51) A47C 7/38	(51) A47D 9/04
(54) DEVICE FOR FIXING A DRAWER	(11) EP4029409	(11) EP4027838
(73) Paul Hettich GmbH & Co. KG	(21) EP21206340.8	(21) EP20771287.8
(72) KLAUS, Stefan	(47) 01.11.2023	(47) 01.11.2023
(31) 102019122856	(22) 04.11.2021	(87) EP2020075324
(32) 26.08.2019	(54) ADJUSTMENT DEVICE FOR A	18.03.2021
(33) Germany	HEADREST	(22) 10.09.2020
(51) A47B 88/457	(73) CIAR S.p.A.	(54) DEVICE FOR PRODUCING A
A47B 88/463	(72) CARRERA, Massimo	ROCKING MOTION AT A ROCKER, IN
A47B 88/47	(31) 202021100215 U	PARTICULAR A BABY ROCKER
A47F 10/00	(32) 18.01.2021	(73) 1st Baby GmbH
(11) EP3878313	(33) Germany	(72) REINERS, Hans-Josef
(21) EP21161414.4	(51) A47C 23/04	MATYKA, Dominik
(47) 01.11.2023	A47C 27/00	PAVEL, Christopher
(22) 09.03.2021	(11) EP3500138	(31) 102019124467
(54) FURNITURE AND FURNITURE	(21) EP17841901.6	(32) 11.09.2019
MOVEMENT CONTROL DEVICE	(47) 01.11.2023	(33) Germany
(73) Grass GmbH	(87) US2017046412	(51) A47D 11/00
(72) Martin, Tobias	22.02.2018	A47D 1/00
(31) 202020101296 U	(22) 11.08.2017	A47D 1/04
(32) 10.03.2020	(54) POCKETED SPRING ASSEMBLY	A47D 1/08
(33) Germany	(73) L&P Property Management Company	A47D 13/10
(51) A47B 88/493	(72) JEWETT, Jason	A47D 15/00
(11) EP4044869	RICHMOND, Darrell A.	(11) EP3742933
(21) EP20807496.3	(31) 201715447717	(21) EP19704707.9
(47) 01.11.2023	201662377074 P	(47) 01.11.2023
(87) IB2020059772	(32) 02.03.2017	(87) AT2019060018
22.04.2021	19.08.2016	25.07.2019
(22) 16.10.2020	(33) United States of America	(22) 18.01.2019
(54) TELESCOPIC GUIDE FOR DRAWER	United States of America	(54) PIECE OF MULTIPURPOSE
(73) RONDA S.P.A.	(51) A47C 27/06	FURNITURE
(72) RONDA, Giovanni	A47C 27/12	(73) Lekic-Ninic, Danijela
(31) 201900019184	A47C 21/04	Lekic-Ninic, Marinko
(32) 17.10.2019	A47C 27/14	(72) Lekic-Ninic, Danijela
(33) Italy	A47C 27/15	Lekic-Ninic, Marinko
(51) A47B 88/90	(11) EP3755181	(31) 500482018
(11) EP4103014	(21) EP19756539.3	(32) 22.01.2018
(21) EP21703448.7	(47) 01.11.2023	(33) Austria
(47) 01.11.2023	(87) US2019018961	(51) A47F 1/02
(87) EP2021052681	29.08.2019	A47F 3/02
19.08.2021	(22) 21.02.2019	(11) EP3811825
(22) 04.02.2021	(54) SUPPORT CUSHIONS INCLUDING	(21) EP19204591.2
(54) SIDE PANEL FOR A DRAWER	A POCKETED COIL LAYER WITH	(47) 01.11.2023
(73) Paul Hettich GmbH & Co. KG	A PLURALITY OF FABRIC TYPES	(22) 22.10.2019
(72) KLAUS, Stefan	FOR DIRECTING AIR FLOW, AND	(54) BULK BIN DEVICE
NOSKE, Frank	METHODS FOR CONTROLLING	(73) HL DISPLAY AB
STUFFEL, Andreas	SURFACE TEMPERATURE OF SAME	(72) SJÖBERG, Mårten
TOCKE, Matthias	(73) Sealy Technology, LLC	ERIKSSON, Linda
WEIDLICH, Jürgen	(72) GHANEI, Hamid	(51) A47G 25/28
POPPENDIEK, Sebastian	TAR, Kevin	D06F 89/02
KRÜGER, David	JANSEN, Taylor M.	A47G 25/40
KUHLMANN, Kirsten	EVANS, JR., James Alva	A47G 25/44
(31) 102020103497	(31) 201862633895 P	(11) EP3903650
(32) 11.02.2020	(32) 22.02.2018	(21) EP19909855.9
(33) Germany	(33) United States of America	(47) 01.11.2023
(51) A47C 1/032	(51) A47D 9/00	(87) ES2019070697
A47C 5/04	A47D 9/02	23.07.2020
(11) EP4059381	(11) EP3795038	(22) 14.10.2019
(21) EP22162078.4	(21) EP20196934.2	(54) HANGER-TEMPLATE FOR FOLDING
(47) 01.11.2023	(47) 01.11.2023	AND HANGING ITEMS OF CLOTHING
(22) 15.03.2022	(22) 18.09.2020	(73) Hangfold GmbH
(54) A CHAIR WITH PIVOTING SEAT AND	(54) CHILD CARE APPARATUS	(72) FLORES SANCHEZ, Juan Antonio
BACKREST	(73) Wonderland Switzerland AG	(31) 201930024
(73) Pro-Cord S.p.A.	(72) GUO, Zheng-Wen	(32) 16.01.2019
(72) PIRETTI, Giancarlo	HU, Junjie	

(33) Spain	15.07.2021	(11) EP4003109
(51) A47G 29/14	(22) 11.12.2020	(21) EP20764764.5
A47G 29/16	(54) BEVERAGE EXTRACTING DEVICE	(47) 01.11.2023
A47G 29/12	(73) Bravilor Bonamat BV	(87) IB2020057189
A47G 29/28	(72) BLEIJENDAAL, Luuk	04.02.2021
G07F 17/12	WELKAMP, Merlijn	(22) 30.07.2020
(11) EP3854272	(31) 2024645	(54) SYSTEM AND METHOD FOR
(21) EP21152923.5	(32) 10.01.2020	DISPENSING A BEVERAGE,
(47) 01.11.2023	(33) Netherlands	PREFERABLY ESPRESSO COFFEE,
(22) 22.01.2021	(51) A47J 31/44	WHEREIN THE FILTER-HOLDERS
(54) DEPOSIT BOX FOR INDIVIDUALS	(11) EP3846666	ARE FILLED WITH PREDETERMINED
(73) Kitoko, Assani	(21) EP19759316.3	DOSES
(72) Kitoko, Assani	(47) 01.11.2023	(73) CMA Macchine per caffè S.r.l.
(31) 2000622	(87) EP2019072234	(72) NADALET, Paolo
(32) 22.01.2020	12.03.2020	ZONELLI, Andrea
(33) France	(22) 20.08.2019	(31) 201900013374
(51) A47J 27/62	(54) METHOD AND DEVICE FOR	(32) 30.07.2019
A47J 43/07	PRODUCING MILK-AIR EMULSIONS	(33) Italy
A47J 27/00	(73) Melitta Professional Coffee Solutions	(51) A47J 31/54
(11) EP3827711	GmbH & Co. KG	G05D 23/19
(21) EP20207836.6	(72) DIESTER, Thomas	(11) EP3592185
(47) 01.11.2023	BUCHHOLZ, Bernd	(21) EP18708435.5
(22) 16.11.2020	(31) 102018121567	(47) 01.11.2023
(54) HIGH-SPEED BLENDER	(32) 04.09.2018	(87) EP2018055692
(73) BSH Hausgeräte GmbH	(33) Germany	13.09.2018
(72) Lu, Peng	(51) A47J 31/46	(22) 08.03.2018
Xue, Qingfei	F16K 17/06	(54) BEVERAGE PREPARATION MACHINE
Yuan, Chao	F16K 31/02	AND METHOD FOR THE CONTROL
(31) 201911198167	(11) EP3750459	OF A THERMAL CONDITIONING
(32) 29.11.2019	(21) EP20178648.0	DEVICE OF SUCH A BEVERAGE
(33) China	(47) 01.11.2023	PREPARATION MACHINE
(51) A47J 31/32	(22) 08.06.2020	(73) Société des Produits Nestlé S.A.
A47J 31/18	(54) PROPORTIONAL EMULSION	(72) ARGYRIS, Ioannis
A47J 31/00	VALVE FOR FLUID TREATMENT	GRANGER, Eric
A47J 31/60	MACHINES, IN PARTICULAR FOR THE	(31) 17165487
(11) EP3895586	PRODUCTION AND DELIVERY OF	17160448
(21) EP21178110.9	BEVERAGES	(32) 07.04.2017
(47) 01.11.2023	(73) Dolphin Fluidics S.r.l.	10.03.2017
(22) 07.08.2017	(72) BUTERA, Francesco	(33) European Patent Office (EPO)
(54) EXTRACTION APPARATUS AND	AVOLEDO, Stefano	European Patent Office (EPO)
EXTRACTION METHOD	LUCETTI, Filippo	(51) A47J 37/06
(73) DAITO GIKEN, INC.	(31) 201900008577	(11) EP3518716
(72) Kihara, Kaishun	(32) 11.06.2019	(21) EP17857556.9
Torizu, Taisuke	(33) Italy	(47) 01.11.2023
Noake, Nobuhiro	(51) A47J 31/52	(87) US2017054504
Abe, Kazuhiro	A47J 31/00	05.04.2018
(51) A47J 31/36	(11) EP3609374	(22) 29.09.2017
(11) EP3890571	(21) EP18719466.7	(54) COOKING GRATE WITH ADJUSTABLE
(21) EP19836515.7	(47) 01.11.2023	HEATING CHARACTERISTICS
(47) 01.11.2023	(87) EP2018058967	(73) W.C. Bradley Co.
(87) IB2019060391	18.10.2018	(72) AHMED, Mallik
11.06.2020	(22) 09.04.2018	(31) 201715718225
(22) 03.12.2019	(54) BEVERAGE PREPARATION DEVICE	201662401543 P
(54) MACHINE FOR BEVERAGE	FOR VEHICLE	(32) 28.09.2017
PREPARATION	(73) Société des Produits Nestlé S.A.	29.09.2016
(73) CMA Macchine per caffè S.r.l.	(72) CROZIER, Etienne	(33) United States of America
(72) ZONELLI, Andrea	HOFFET, Adrien	United States of America
(31) 18209878	MAGATTI, Marco	(51) A47J 37/07
(32) 03.12.2018	ROMAND, Damien	(11) EP4011254
(33) European Patent Office (EPO)	THULIEZ, Jean-Luc	(21) EP22151856.6
(51) A47J 31/40	(31) 17165966	(47) 01.11.2023
A47J 31/32	(32) 11.04.2017	(22) 17.05.2018
A47J 31/36	(33) European Patent Office (EPO)	(54) REMOVABLE ELECTRIC GRILL
(11) EP4087448	(51) A47J 31/52	CONTROLLER WITH MOUNT
(21) EP20825016.7	A47J 31/36	(73) Weber-Stephen Products LLC
(47) 01.11.2023	A47J 42/44	(72) Schmeski, Kevin James
(87) NL2020050775	A47J 31/42	(31) 201715600310
	A47J 31/06	(32) 19.05.2017

(33) United States of America	(87) GB2017050499	(47) 01.11.2023
(51) A47J 37/07	31.08.2017	(87) CN2019070829
(11) EP3681356	(22) 24.02.2017	17.10.2019
(21) EP18782885.0	(54) KITCHEN APPLIANCE, FOOD	(22) 08.01.2019
(47) 01.11.2023	PROCESSOR AND SAFETY	(54) ROTARY CONTROL QUICK-
(87) EP2018000433	INTERLOCK ARRANGEMENT	DISMOUNTING HINGE AND TOILET
21.03.2019	(73) Kenwood Limited	COVER PLATE HAVING SAME
(22) 17.09.2018	(72) SEIDLER, Mark	(73) Hoti (Xiamen) Plumbing Inc.
(54) FIRE BASIN	HUNT, Martin	(72) CHEN, Guobin
(73) Kaiser, Thomas	WOODLING, Ben	GUO, Feng
Wassermann, Christian	COX, Jamie	(31) 201810330215
(72) Kaiser, Thomas	WEADEN, Jamie	(32) 13.04.2018
Wassermann, Christian	(31) 201603326	(33) China
(31) 202017004811 U	(32) 25.02.2016	(51) A47K 13/24
(32) 17.09.2017	(33) United Kingdom	E03D 9/00
(33) Germany	(51) A47K 7/00	F15D 1/00
(51) A47J 43/046	(11) EP3909485	(11) EP3487371
A47J 43/08	(21) EP20206763.3	(21) EP17844468.3
(11) EP3884822	(47) 01.11.2023	(47) 01.11.2023
(21) EP20175328.2	(22) 10.11.2020	(87) US2017048558
(47) 01.11.2023	(54) DEVICE FOR HAND CLEANING	01.03.2018
(22) 19.05.2020	(73) Singer, Alexander	(22) 25.08.2017
(54) SYSTEM WITH KITCHEN APPLIANCE	(72) Singer, Alexander	(54) POTTY TRAINING DEVICE
AND DOMESTIC MIXER	(31) 202020102666 U	(73) For Kids By Parents, Inc.
(73) Vorwerk & Co. Interholding GmbH	(32) 12.05.2020	(72) CONRAD III, Joseph
(72) POHL, Stephan	(33) Germany	BRISCOE, Kurt
(31) 20165974	(51) A47K 10/38	(31) 201662379280 P
(32) 26.03.2020	A47K 10/40	(32) 25.08.2016
(33) European Patent Office (EPO)	(11) EP3806704	(33) United States of America
(51) A47J 43/07	(21) EP18734759.6	(51) A47K 13/26
(11) EP3771377	(47) 01.11.2023	(11) EP3360450
(21) EP20183504.8	(87) EP2018065540	(21) EP18155679.6
(47) 01.11.2023	19.12.2019	(47) 01.11.2023
(22) 01.07.2020	(22) 12.06.2018	(22) 08.02.2018
(54) DOMESTIC APPLIANCE WITH AN	(54) SUPPORT SPINDLE ASSEMBLY FOR A	(54) SEAT ASSEMBLY WITH A COUPLING
AUTOMATICALLY ADJUSTABLE	ROLL	DEVICE FOR FIXING THE SEAT
MOTOR AND METHOD FOR	(73) Essity Hygiene and Health Aktiebolag	ASSEMBLY TO A SANITARY FIXTURE
OPERATING A DOMESTIC APPLIANCE	(72) KRAMP, Matthew P.	(73) Sipex Cavagna S.P.A.
(73) BSH Hausgeräte GmbH	WICKER, Nathan J.	(72) CAVAGNA, Livio Francesco Eugenio
(72) Mrak, Peter	ROTE, Scott J.	(31) 201700014760
Berzelak, Matej	WYLEN, David A.	(32) 10.02.2017
Brinovsek, Luka	(51) A47K 11/04	(33) Italy
Lotric, Matjaz	A61G 7/02	(51) A47L 9/04
Zdolsek, Peter	A61G 5/10	A47L 11/40
(31) 102019211293	A61G 5/00	(11) EP4042917
(32) 30.07.2019	A61G 5/12	(21) EP22154110.5
(33) Germany	(11) EP3740108	(47) 01.11.2023
(51) A47J 43/07	(21) EP19701760.1	(22) 28.01.2022
(11) EP4090207	(47) 01.11.2023	(54) CLEANING ASSEMBLY AND
(21) EP21703981.7	(87) DK2019050013	CLEANING APPARATUS
(47) 01.11.2023	25.07.2019	(73) Yunjing Intelligence Innovation
(87) IB2021050213	(22) 15.01.2019	(Shenzhen) Co., Ltd.
22.07.2021	(54) A TOILET CHAIR AND A METHOD	Yunjing Intelligence (Shenzhen) Co., Ltd.
(22) 13.01.2021	FOR AIDING A PERSON IN GETTING	(72) LI, Xingyan
(54) EMULSIFYING TOOL AND MACHINERY	UNDRESSED OR DRESSED BY	AI, Yu
FOR PREPARING FOOD PRODUCTS	MEANS OF A TOILET CHAIR	ZHANG, Junbin
COMPRISING SUCH A TOOL	(73) Dan-Rehab A/S	LIN, Weijing
(73) Malavasi, Giuseppe	(72) HANSEN, Jacob Falck	(31) 202122798800 U
(72) Malavasi, Giuseppe	(31) PA201870297	202120374489 U
(31) 202000000700	PA201870029	(32) 15.11.2021
(32) 16.01.2020	(32) 15.05.2018	10.02.2021
(33) Italy	17.01.2018	(33) China
(51) A47J 43/07	(33) Denmark	China
A47J 44/02	Denmark	(51) A47L 11/283
(11) EP3419486	(51) A47K 13/12	(11) EP3771395
(21) EP17710364.5	A47K 13/26	(21) EP20188611.6
(47) 01.11.2023	(11) EP3804594	(47) 01.11.2023
	(21) EP19784707.2	(22) 30.07.2020

(54) DOCKING APPARATUS FOR MOBILE ROBOT	(73) Granuldisk AB	20.09.2017
(73) LG Electronics Inc.	(72) WALTER, Per	20.09.2017
(72) JANG, Jaewon	BRAMEVIK, Hans	20.09.2017
KIM, Youngbin	(31) 0700194	20.09.2017
LEE, Yeongjae	(32) 26.01.2007	20.09.2017
(31) 20190176629	(33) Sweden	20.09.2017
20190093486	(51) A47L 15/42	20.09.2017
(32) 27.12.2019	(11) EP3673782	20.09.2017
31.07.2019	(21) EP18859446.9	(33) China
(33) Korea (Republic)	(47) 01.11.2023	China
Korea (Republic)	(87) CN2018086013	China
(51) A47L 11/40	28.03.2019	China
(11) EP4042918	(22) 08.05.2018	China
(21) EP22154101.4	(54) DISHWASHER AND BASE ASSEMBLY	China
(47) 01.11.2023	(73) Foshan Shunde Midea Washing	China
(22) 28.01.2022	Appliances Manufacturing Co., Ltd.	China
(54) CLEANING ASSEMBLY AND CLEANING ROBOT	(72) YUAN, Bo	China
(73) Yunjing Intelligence Innovation (Shenzhen) Co., Ltd.	SONG, Xing	China
Yunjing Intelligence (Shenzhen) Co., Ltd.	WU, Shoubao	China
(72) ZHANG, Junbin	XU, Pingping	China
LIN, Weijing	ZHAO, Jianxun	China
LI, Xingyan	ZHAO, Hongtu	China
(31) 202110187167	(31) 201710853313	China
(32) 10.02.2021	201721210524 U	China
(33) China	201710850714	China
(51) A47L 15/00	201721211794 U	China
A47L 15/22	201710850573	China
A47L 15/23	201710849329	China
(11) EP3843601	201710853411	China
(21) EP18762497.8	201710853674	China
(47) 01.11.2023	201710849770	China
(87) EP2018073266	201710849817	China
05.03.2020	201710849809	China
(22) 29.08.2018	201710851330	China
(54) A DISHWASHING MACHINE AND METHOD	201721218294 U	China
(73) Vestel Elektronik Sanayi ve Ticaret A.S.	201721218291 U	(51) A47L 15/50
(72) KARAZOR, Irfan	201710849309	(11) EP3236832
(51) A47L 15/00	201710853679	(21) EP15817785.7
A47L 15/24	201710853354	(47) 01.11.2023
A47L 15/42	201710849897	(87) EP2015079712
(11) EP2964067	201710853646	30.06.2016
(21) EP15700073.8	201721211448 U	(22) 15.12.2015
(47) 01.11.2023	201710853862	(54) DOMESTIC DISHWASHER
(87) EP2015050218	201710850166	(73) BSH Hausgeräte GmbH
16.07.2015	201710853968	(72) GERSTNER, Norbert
(22) 08.01.2015	201710853882	HÖRSCH, Julia
(54) CONVEYOR DISHWASHER COMPRISING A PLURALITY OF PROCESSING ZONES	201721211753 U	ISBILLEN, Ersin
(73) MEIKO Maschinenbau GmbH & Co. KG	201721211842 U	OTT, Thomas
(72) PEUKERT, Thomas	201710850713	STECK, Thomas
SCHERINGER, Stefan	(32) 20.09.2017	WINKLER, Ralf
(31) 102014000448	20.09.2017	(31) 102014226820
(32) 10.01.2014	20.09.2017	(32) 22.12.2014
(33) Germany	20.09.2017	(33) Germany
(51) A47L 15/00	20.09.2017	(51) A47L 15/50
A47L 15/30	20.09.2017	(11) EP3419494
A47L 15/50	20.09.2017	(21) EP16706386.6
(11) EP3162269	20.09.2017	(47) 01.11.2023
(21) EP16194468.1	20.09.2017	(87) EP2016054139
(47) 01.11.2023	20.09.2017	31.08.2017
(22) 23.01.2008	20.09.2017	(22) 26.02.2016
(54) DISHWASHER WITH BASKET DETECTING DEVICE	20.09.2017	(54) DISHWASHER AND CONVEYING SYSTEM THEREFOR
	20.09.2017	(73) Electrolux Appliances Aktiebolag
		(72) HENRIKSEN, Christian
		WICKSTRÖM, Peter
		(51) A61B 1/00
		A61B 1/045
		A61B 1/05

(11) EP3563752	HERMANNSSON, Pétur Gordon	(21) EP18794052.3
(21) EP19180101.8	JENSEN, Søren Greve	(47) 01.11.2023
(47) 01.11.2023	VAN DER POEL, Mike	(87) JP2018017115
(22) 12.05.2016	(31) 18194075	08.11.2018
(54) MEDICAL OBSERVATION DEVICE	(32) 12.09.2018	(22) 27.04.2018
AND A METHOD OF EXPOSURE	(33) European Patent Office (EPO)	(54) METHOD AND DEVICE FOR
CONTROL OF AN IMAGING SECTION	(51) A61B 1/00	EVALUATING LACRIMAL FLUID LAYER
OF A MEDICAL OBSERVATION DEVICE	G06T 7/73	DYNAMICS
(73) Sony Group Corporation	A61B 3/12	(73) Kyoto Prefectural Public University
Sony Olympus Medical Solutions Inc.	A61B 3/13	Corporation
(72) MURAKITA, Masashi	A61B 3/14	Kowa Company, Ltd.
YAMAMOTO, Takahiro	A61B 3/00	(72) YOKOI, Norihiko
(31) 2015139312	(11) EP4051084	YABUSAKI, Katsumi
(32) 13.07.2015	(21) EP20801410.0	(31) 2017090949
(33) Japan	(47) 01.11.2023	(32) 01.05.2017
(51) A61B 1/00	(87) IB2020059958	(33) Japan
A61B 1/06	06.05.2021	(51) A61B 3/10
A61B 1/04	(22) 22.10.2020	(11) EP4188188
(11) EP3727124	(54) SYSTEM AND METHOD OF UTILIZING	(21) EP21754769.4
(21) EP18826721.5	THREE-DIMENSIONAL OVERLAYS	(47) 01.11.2023
(47) 01.11.2023	WITH MEDICAL PROCEDURES	(87) EP2021071167
(87) EP2018086609	(73) Alcon Inc.	03.02.2022
27.06.2019	(72) GUDALO, Aleksander	(22) 28.07.2021
(22) 21.12.2018	(31) 201962927413 P	(54) METHOD FOR DETERMINING
(54) DUAL-MODE ENDOSCOPIC	(32) 29.10.2019	THE NEAR POINT, DETERMINING
CAPSULE WITH IMAGE PROCESSING	(33) United States of America	THE NEAR POINT DISTANCE,
CAPABILITIES	(51) A61B 1/227	DETERMINING A SPHERICAL
(73) Syddansk Universitet	A61B 1/06	REFRACTIVE INDEX AND FOR
Region Syddanmark	A61B 5/107	PRODUCING A SPECTACLE LENS
(72) NADIMI, Esmaeil Shahrak	G01B 11/25	AND CORRESPONDING MOBILE
BAATRUP, Gunnar	G01B 11/245	TERMINALS AND COMPUTER
PEDERSEN, Claus Duedal	A61B 1/00	PROGRAMS
(31) 17210267	A61B 1/05	(73) Carl Zeiss Vision International GmbH
(32) 22.12.2017	(11) EP3403568	(72) WEIMANN, Claudius
(33) European Patent Office (EPO)	(21) EP18170101.2	(31) 20188386
(51) A61B 1/00	(47) 01.11.2023	(32) 29.07.2020
A61B 1/12	(22) 30.03.2011	(33) European Patent Office (EPO)
(11) EP3687366	(54) SCANNING OF CAVITIES WITH	(51) A61B 3/13
(21) EP18765633.5	RESTRICTED ACCESSIBILITY	A61B 3/14
(47) 01.11.2023	(73) 3Shape A/S	A61B 90/00
(87) EP2018074023	(72) VINTHER, Michael	(11) EP3773149
04.04.2019	FISCHER, David	(21) EP19762464.6
(22) 06.09.2018	HOLLENBECK, Karl-Josef	(47) 01.11.2023
(54) METHOD FOR PREPARING AN	VAN DER POEL, Mike	(87) IB2019055112
ENDOSCOPE, WHICH HAS AT LEAST	(31) PA201000264	26.12.2019
ONE CHANNEL, IN A PREPARATION	31888210 P	(22) 18.06.2019
DEVICE	(32) 30.03.2010	(54) AUXILIARY SURGICAL FIELD
(73) Olympus Winter & Ibe GmbH	30.03.2010	VISUALIZATION SYSTEM
(72) CARLSON, Torben	(33) Denmark	(73) Alcon Inc.
VELIC, Ramiza	United States of America	(72) ABT, Niels Alexander
(31) 102017122434	(51) A61B 3/00	(31) 201862687362 P
(32) 27.09.2017	(11) EP3801193	(32) 20.06.2018
(33) Germany	(21) EP19744843.4	(33) United States of America
(51) A61B 1/00	(47) 01.11.2023	(51) A61B 5/00
A61B 1/24	(87) IB2019054557	(11) EP3861925
A61B 1/227	12.12.2019	(21) EP20155560.4
A61C 1/16	(22) 31.05.2019	(47) 01.11.2023
A61C 9/00	(54) SYSTEM AND METHOD FOR	(22) 05.02.2020
(11) EP3849395	AUTOMATIC TORSION CORRECTION	(54) TOILET SEAT WITH A DEVICE FOR
(21) EP19762824.1	IN DIAGNOSTIC OPHTHALMIC	DETECTING VALUES AND METHOD
(47) 01.11.2023	MEASUREMENTS	OF USE THEREOF
(87) EP2019073972	(73) Alcon Inc.	(73) Herbst, Martin
19.03.2020	(72) WITTNEBEL, Michael	(72) Herbst, Martin
(22) 09.09.2019	(31) 201862682242 P	(51) A61B 5/00
(54) SHEATH FOR A TIP OF A SCANNING	(32) 08.06.2018	A61B 5/024
DEVICE AND SYSTEM THEREOF	(33) United States of America	(11) EP3138478
(73) 3Shape A/S	(51) A61B 3/10	(21) EP15306343.3
(72) CHRISTIANSEN, Alexander Bruun	(11) EP3620103	(47) 01.11.2023



(22) 01.09.2015	(51) A61B 5/00	A61B 5/026
(54) A HEART RATE SENSING WEARABLE DEVICE	A61B 5/377	A61B 6/00
(73) Essilor International	A61B 5/378	G16H 50/50
(72) ROUSSEAU, Denis	(11) EP3618708	A61B 6/10
PERRIER, Eric	(21) EP18794787.4	A61B 6/12
(51) A61B 5/00	(47) 01.11.2023	(11) EP3903672
A61B 5/024	(87) AU2018050402	(21) EP21175583.0
A61B 5/11	08.11.2018	(47) 01.11.2023
(11) EP3677171	(22) 02.05.2018	(22) 02.08.2013
(21) EP20150550.0	(54) HEAD MOUNTABLE DEVICE	(54) DEVICES, SYSTEMS, AND METHODS FOR ASSESSING A VESSEL
(47) 01.11.2023	(73) HeadsafeIP Pty Ltd	(73) Philips Image Guided Therapy Corporation
(22) 07.01.2020	(72) COHEN, Adrian John	(72) HATTANGADI, Neil
(54) A METHOD AND APPARATUS FOR DETERMINING SLEEP NEED AND SLEEP PRESSURE BASED ON PHYSIOLOGICAL DATA	(31) 2017901590	HUENNEKENS, Scott R
(73) Firstbeat Analytics OY	(32) 02.05.2017	(31) 201261679673 P
(72) MYLLYMÄKI, Tero	(33) Australia	(32) 03.08.2012
HUJANEN, Wille	(51) A61B 5/00	(33) United States of America
SAALASTI, Sami	A61M 29/00	(51) A61B 5/0205
RUHANEN, Tuukka	A61M 25/01	G01L 1/24
LUUKKO, Perttu	A61M 25/00	(11) EP3263021
TOIVONEN, Johanna	A61M 25/09	(21) EP1586884.1.6
(31) 201962789156 P	(11) EP3512414	(47) 01.11.2023
(32) 07.01.2019	(21) EP17851356.0	(87) CN2015071558
(33) United States of America	(47) 01.11.2023	23.06.2016
(51) A61B 5/00	(87) US2017050802	(22) 26.01.2015
A61B 5/1459	22.03.2018	(54) FIBER SENSING LAYER AND MONITORING SYSTEM THEREOF
(11) EP3727140	(22) 08.09.2017	(73) Huijia Health Life Technology Co., Ltd.
(21) EP18845391.4	(54) INTEGRATED COIL VASCULAR DEVICES	(72) YANG, Shuchen
(47) 01.11.2023	(73) Scientia Vascular, Inc.	(31) 201410775644
(87) US2018067069	(72) SNYDER, Edward, J.	(32) 15.12.2014
27.06.2019	TURNLUND, Todd	(33) China
(22) 21.12.2018	DAVIS, Clark, C.	(51) A61B 5/0215
(54) A COMPACT SYSTEM USED TO DETERMINE TISSUE OR ARTIFACT CHARACTERISTICS	LIPPERT, John, A.	(11) EP2793692
(73) Briteseed, LLC	(31) 201715698553	(21) EP12810290.2
(72) GUNN, Jonathan	201762511605 P	(47) 01.11.2023
MCPHILLIAMY, Steve	201662394633 P	(87) EP2012076582
SUBRAMANIAN, Hariharan	(32) 07.09.2017	27.06.2013
LE ROLLAND, Paul	26.05.2017	(22) 21.12.2012
CHATURVEDI, Amal	14.09.2016	(54) METHOD AND DEVICE FOR MONITORING BLOOD PRESSURE MEASUREMENT BY ARTERIAL CATHETERIZATION OF A PATIENT
GRIDER, Keith, A.	(33) United States of America	(73) Université Grenoble Alpes
GREENE, Daniel, J.	United States of America	Automatisme et Informatique Industrielle
CORRIGAN, Sean	United States of America	(72) GRIMBERT, Francis
MATUSAITIS, Tomas	(51) A61B 5/00	LAVAUULT, Yves
PAPADOPOULOS, Marcus, Stephen	G01N 33/487	(31) 1162302
(31) 201762609746 P	H01M 10/44	(32) 22.12.2011
(32) 22.12.2017	H02J 7/04	(33) France
(33) United States of America	F04B 49/06	(51) A61B 5/0215
(51) A61B 5/00	F04B 51/00	A61B 5/00
A61B 5/25	G01K 13/00	A61B 5/0205
(11) EP3687393	G01N 33/66	A61B 5/1459
(21) EP18789739.2	H01M 10/46	(11) EP3911230
(47) 01.11.2023	(11) EP3145391	(21) EP20707877.5
(87) US2018052803	(21) EP15796515.3	(47) 01.11.2023
04.04.2019	(47) 01.11.2023	(87) US2020013929
(22) 26.09.2018	(87) US2015031979	23.07.2020
(54) DEVICE AND SYSTEM FOR PROVIDING PHYSIOLOGICAL DATA MONITORING OF PATIENTS	26.11.2015	(22) 16.01.2020
(73) Drägerwerk AG & Co. KGaA	(22) 21.05.2015	(54) INTRAVENOUS DEVICE WITH INTEGRATED SENSORS
(72) YOMTOV, Barry	(54) HANDHELD ANALYTE METER WITH RECHARGING CONTROL FOR IMPROVED ANALYTE TESTING	(73) Becton, Dickinson and Company
(31) 201762564104 P	(73) F. Hoffmann-La Roche AG	(72) WILLYBIRO, Kathryn
(32) 27.09.2017	(72) RAMEY, Blaine	BURKHOLZ, Jonathan Karl
(33) United States of America	SIMPSON, Joseph	SPATARO, Joseph
(51) A61B 5/02	(31) 201414285144	MA, Yiping
A61B 5/021	(32) 22.05.2014	
	(33) United States of America	

TRAN, Huy	30.03.2017	(87) IB2020062604
PETERSON, Bart D.	(22) 25.09.2016	12.08.2021
(31) 202016743696	(54) SYSTEM AND METHOD FOR A	(22) 31.12.2020
201962794433 P	BIOSENSOR MONITORING AND	(54) HYBRID APPROACH TO DISTORTION
(32) 15.01.2020	TRACKING BAND	DETECTION
18.01.2019	(73) Trilinear BioVentures, LLC	(73) St. Jude Medical International Holding
(33) United States of America	(72) NEWBERRY, Robert Steven	S.à r.l.
United States of America	(31) 201615275388	(72) FISCHBACH, Adam
(51) A61B 5/0215	201662383313 P	MEYERSON, Scott
A61B 5/00	201662373283 P	(31) 202062971039 P
A61M 25/00	201662312614 P	(32) 06.02.2020
A61M 25/09	201662307375 P	(33) United States of America
(11) EP2938255	201662276934 P	(51) A61B 5/103
(21) EP13869635.6	201514866500	G02C 13/00
(47) 01.11.2023	(32) 24.09.2016	G02C 7/00
(87) US2013076352	02.09.2016	A61B 5/107
03.07.2014	10.08.2016	A61B 5/16
(22) 19.12.2013	24.03.2016	(11) EP3145405
(54) CAPACITIVE INTRAVASCULAR	11.03.2016	(21) EP15728072.8
PRESSURE-SENSING DEVICES	10.01.2016	(47) 01.11.2023
AND ASSOCIATED SYSTEMS AND	25.09.2015	(87) FR2015051316
METHODS	(33) United States of America	26.11.2015
(73) Philips Image Guided Therapy	United States of America	(22) 19.05.2015
Corporation	United States of America	(54) METHOD OF DETERMINING AT LEAST
(72) MILLETT, Bret C.	United States of America	ONE BEHAVIOURAL PARAMETER
(31) 201261747019 P	United States of America	(73) Essilor International
(32) 28.12.2012	United States of America	(72) BARANTON, Konogan
(33) United States of America	United States of America	ESCALIER, Guilhem
(51) A61B 5/024	(51) A61B 5/028	GAYAT, Sébastien
A61B 5/0205	A61B 5/00	(31) 1454548
A61B 5/0535	A61B 18/14	(32) 20.05.2014
A61B 5/08	(11) EP3731747	(33) France
A61B 5/113	(21) EP19768262.8	(51) A61B 5/11
A61B 5/349	(47) 01.11.2023	A61B 5/00
A61B 5/1455	(87) US2019020749	(11) EP4044918
A61B 5/145	19.09.2019	(21) EP20780904.7
A61B 5/366	(22) 05.03.2019	(47) 01.11.2023
A61B 5/00	(54) VARIABLE DENSITY MAPPING	(87) AT2020060343
(11) EP3474739	CATHETER	22.04.2021
(21) EP17736884.2	(73) St. Jude Medical, Cardiology Division,	(22) 24.09.2020
(47) 01.11.2023	Inc.	(54) METHOD FOR DETERMINING THE
(87) EP2017065007	(72) OLSON, Gregory, K.	LOCATION AND POSITION OF A
28.12.2017	(31) 201862642413 P	PERSON'S PELVIS
(22) 20.06.2017	(32) 13.03.2018	(73) Sanlas Holding GmbH
(54) A METHOD AND APPARATUS FOR	(33) United States of America	(72) ZENZMAIER, Cornelia
DETERMINING RESPIRATORY	(51) A61B 5/05	(31) 508952019
INFORMATION FOR A SUBJECT	(11) EP3487403	(32) 16.10.2019
(73) Koninklijke Philips N.V.	(21) EP17835006.2	(33) Austria
(72) BABAEIZADEH, Saeed	(47) 01.11.2023	(51) A61B 5/11
(31) 201662353102 P	(87) US2017043125	A61B 5/00
16179941	01.02.2018	(11) EP4076179
(32) 22.06.2016	(22) 20.07.2017	(21) EP20829186.4
18.07.2016	(54) SYSTEM FOR RADIATION BEAM	(47) 01.11.2023
(33) United States of America	RANGE VERIFICATION USING SONIC	(87) AT2020060472
European Patent Office (EPO)	MEASUREMENTS	24.06.2021
(51) A61B 5/024	(73) Patch, Sarah Kathryn	(22) 16.12.2020
A61B 5/0205	(72) Patch, Sarah Kathryn	(54) METHOD FOR DETERMINING A
A61B 5/11	(31) 201662366613 P	PERSON'S GAIT STEADINESS
A61B 5/00	(32) 25.07.2016	(73) AIT Austrian Institute of Technology
A61B 5/026	(33) United States of America	GmbH
A61B 5/145	(51) A61B 5/06	(72) ZIEGL, Andreas
A61B 5/1455	A61B 34/20	SCHREIER, Günter
A61B 5/08	A61B 5/367	KASTNER, Peter
A61B 5/021	A61B 5/00	(31) 511482019
(11) EP3337394	A61B 17/00	(32) 20.12.2019
(21) EP16849834.3	(11) EP4081112	(33) Austria
(47) 01.11.2023	(21) EP20838634.2	(51) A61B 5/11
(87) US2016053632	(47) 01.11.2023	A61B 5/113

A61B 5/0295	(33) United States of America	IMPEDANCE-INDICATIVE ELECTRICAL
A61B 5/00	United States of America	SIGNALS
(11) EP3826539	(51) A61B 5/16	(73) Biosense Webster (Israel) Ltd.
(21) EP19745588.4	A61B 5/00	(72) GOVARI, Assaf
(47) 01.11.2023	A61B 5/024	(31) 201715689177
(87) EP2019069848	A61B 5/11	(32) 29.08.2017
30.01.2020	A61B 5/0295	(33) United States of America
(22) 23.07.2019	G06V 40/16	(51) A61B 5/287
(54) DEVICE, SYSTEM AND METHOD FOR	A61B 5/02	A61B 5/352
DETECTION OF PULSE OF A SUBJECT	A61B 5/0205	(11) EP3923797
(73) Koninklijke Philips N.V.	A61B 5/0285	(21) EP20735468.9
(72) DELLIMORE, Kiran, Hamilton, J.	A61B 5/021	(47) 01.11.2023
ROCQUE, Mukul, Julius	(11) EP3600018	(87) US2020034222
WIJSHOFF, Ralph, Wilhelm, Christianus,	(21) EP18794415.2	03.12.2020
Gemma, Rosa	(47) 01.11.2023	(22) 22.05.2020
MÜHLSTEFF, Jens	(87) KR2018005066	(54) SYSTEM AND METHOD FOR CARDIAC
(31) 201862703546 P	08.11.2018	MAPPING
(32) 26.07.2018	(22) 02.05.2018	(73) St. Jude Medical, Cardiology Division,
(33) United States of America	(54) DETERMINING ARTERY LOCATION	Inc.
(51) A61B 5/145	USING CAMERA-BASED SENSING	(72) MORGAN, Dennis J.
A61B 5/00	(73) Samsung Electronics Co., Ltd.	DENO, Don C.
A61M 5/142	(72) KHWAJA, Ayesha	DAVIS, Emma K.
(11) EP3598942	YOUNG, James	HARTLEY, Thomas P.
(21) EP19187644.0	WORTHAM, Cody	HAGFORS, Mark
(47) 01.11.2023	SADI, Sajid	(31) 201962852379 P
(22) 22.07.2019	JAIN, Jawahar	(32) 24.05.2019
(54) ELASTIC PHYSIOLOGICAL PATCH	(31) 201815951098	(33) United States of America
(73) Bionime Corporation	201762510579 P	(51) A61B 5/347
(72) HUANG, Chun-Mu	201762500277 P	A61B 5/00
CHEN, Chieh-Hsing	201762492838 P	A61N 1/37
SHEN, Jia-Nan	(32) 11.04.2018	(11) EP4051110
CHANG, Kuan-Lin	24.05.2017	(21) EP20781459.1
(31) 107125993	02.05.2017	(47) 01.11.2023
(32) 27.07.2018	01.05.2017	(87) EP2020076734
(33) Taiwan, Chinese Taipei	(33) United States of America	06.05.2021
(51) A61B 5/145	United States of America	(22) 24.09.2020
F28D 15/00	United States of America	(54) DEVICE AND METHOD FOR
F28D 15/02	United States of America	DETECTING A MEDICALLY ACTIVE
(11) EP3643236	(51) A61B 5/256	IMPLANT IMPLANTED WITHIN A
(21) EP18202381.2	A61B 5/291	PERSON
(47) 01.11.2023	A61B 5/305	(73) Neuroloop GmbH
(22) 24.10.2018	A61B 5/31	(72) PLACHTA, Dennis
(54) AN APPARATUS FOR SENSING	H04R 25/00	KÖNNE, Nils
BIOMETRIC PARAMETERS	(11) EP4059429	(31) 102019216780
(73) Nokia Technologies Oy	(21) EP22162041.2	(32) 30.10.2019
(72) Akshat, Agarwal	(47) 01.11.2023	(33) Germany
O'Connell, Diarmuid	(22) 15.03.2022	(51) A61B 5/361
(51) A61B 5/1455	(54) HEARING AID WITH EAR EEG	A61B 5/00
A61B 5/00	RECORDING	A61N 1/362
(11) EP3923807	(73) Oticon A/S	(11) EP3906855
(21) EP20792780.7	(72) ZHU, Lin	(21) EP21168038.4
(47) 01.11.2023	GUDNASON, Gunnar	(47) 01.11.2023
(87) US2020051866	JALONEN, Seri	(22) 13.04.2021
01.04.2021	LIU, Xiaodong	(54) R-R INTERVAL PATTERN
(22) 21.09.2020	HANSEN, Peter Søren Kirk	RECOGNITION FOR USE IN
(54) PHYSIOLOGICAL MONITORING	(31) 21163402	ARRHYTHMIA DISCRIMINATION
SYSTEM FOR MEASURING OXYGEN	(32) 18.03.2021	(73) Pacesetter, Inc.
SATURATION	(33) European Patent Office (EPO)	(72) BADIE, Nima
(73) Apple Inc.	(51) A61B 5/276	QU, Fujian
(72) VENUGOPAL, Vivek	A61B 5/30	GILL, Jong
BLOCK, Ueyn L.	A61B 5/00	(31) 202117226915
LAND, Brian R.	(11) EP3449816	202063019550 P
MANNHEIMER, Paul D.	(21) EP18191160.3	(32) 09.04.2021
CERUSSI, Albert E.	(47) 01.11.2023	04.05.2020
(31) 202017018850	(22) 28.08.2018	(33) United States of America
201962907445 P	(54) MEDICAL SYSTEM COMPRISING	United States of America
(32) 11.09.2020	A PATCH FOR SIMULTANEOUSLY	(51) A61B 5/369
27.09.2019	SENSING ECG SIGNALS AND	A61B 5/00

(11) EP3415080	STITH, Lane	(22) 18.08.2015
(21) EP17305704.3	(31) 201762544347 P	(54) PORTABLE ULTRASONIC DIAGNOSTIC APPARATUS AND METHOD OF CONTROLLING THE SAME
(47) 01.11.2023	(32) 11.08.2017	(73) Samsung Medison Co., Ltd.
(22) 12.06.2017	(33) United States of America	(72) Jin, Gil-Ju
(54) WEARABLE DEVICE	(51) A61B 8/00	Ahn, Mi Jeoung
(73) DREEM	(11) EP3919003	Kim, Yuri
(72) MERCIER, Hugo	(21) EP19913455.2	(31) 20150075917
SOULET DE BRUGIERE, Quentin	(47) 01.11.2023	201462088014 P
HERRERA, Martin	(87) CN2019073776	(32) 29.05.2015
KERBAUL, Camille	06.08.2020	05.12.2014
EMERICH, Pierre	(22) 29.01.2019	(33) Korea (Republic)
(51) A61B 5/378	(54) ULTRASOUND SCANNING CONTROL METHOD AND SYSTEM, ULTRASOUND SCANNING DEVICE, AND STORAGE MEDIUM	United States of America
(11) EP3430997	(73) Kunshan Imagene Medical Co., Ltd.	(51) A61B 8/08
(21) EP17765600.6	(72) DUAN, Bin	A61B 5/318
(47) 01.11.2023	LI, Jinfu	(11) EP4125609
(87) BR2017050062	XIONG, Linfei	(21) EP21714913.7
21.09.2017	HU, Shujian	(47) 01.11.2023
(22) 17.03.2017	WANG, Yujiao	(87) EP2021058450
(54) MODULAR APPARATUS AND METHOD FOR THE ANALOGOUS SYNCHRONISATION OF ELECTROENCEPHALOGRAMS WITH LUMINOUS EVENTS, OSCILLATORY EVENTS OF ELECTRICAL NATURE, AND MOTOR BEHAVIOUR EVENTS	LI, Shuifan	07.10.2021
(73) Fundação Oswaldo Cruz	(51) A61B 8/00	(22) 31.03.2021
(72) ABRAMOV, Dimitri, Marques	A61B 8/08	(54) MEDICAL SENSING SYSTEM AND POSITIONING METHOD
GALHANONE, Paulo, Ricardo	(11) EP3537980	(73) Koninklijke Philips N.V.
LIMA, Marcos, Antonio, Dias	(21) EP17804125.7	(72) IN 'T GROEN, Robertus, Leonardus, Maria
MARTINS, Carlos, Henrique, Quintanilha	(47) 01.11.2023	GIJSBERS, Gerardus, Henricus, Maria
(31) 102016060109	(87) EP2017079220	ZUO, Fei
(32) 18.03.2016	17.05.2018	JOHNSON, Mark
(33) Brazil	(22) 14.11.2017	CHAKRABARTI, Biswaroop
(51) A61B 6/00	(54) TRIPLE MODE ULTRASOUND IMAGING FOR ANATOMICAL, FUNCTIONAL, AND HEMODYNAMICAL IMAGING	HIWALE, Sujitkumar
(11) EP3375372	(73) Koninklijke Philips N.V.	BERA, Deep
(21) EP18160739.1	(72) VIGNON, Francois Guy Gerard Marie	(31) 20167736
(47) 01.11.2023	HUANG, Sheng-Wen	(32) 02.04.2020
(22) 08.03.2018	SOMPHONE, Oudom	(33) European Patent Office (EPO)
(54) SYSTEM AND METHOD FOR CONVEYING ONE OR MORE PREDICTIVE INDICATORS OF AN IMAGING CONTROL PARAMETER	DIANIS, Scott, William	(51) A61B 8/08
(73) General Electric Company	MELKI, Lea	A61B 8/00
(72) DRIOL, Clemence	(31) 16306484	A61B 8/14
VEROT, Didier Albert	(32) 14.11.2016	A61B 8/06
DESPONDS, Lionel	(33) European Patent Office (EPO)	A61B 5/00
MIAGAT, Julien	(51) A61B 8/00	(11) EP3412213
(31) 201715461932	A61B 18/00	(21) EP16889478.0
(32) 17.03.2017	A61N 7/00	(47) 01.11.2023
(33) United States of America	A61B 17/00	(87) KR2016002317
(51) A61B 6/04	A61N 7/02	10.08.2017
A61B 8/00	(11) EP4059436	(22) 09.03.2016
A61G 13/12	(21) EP20905177.0	(54) METHOD FOR OUTPUTTING SPEED OF OBJECT AND ULTRASONIC DIAGNOSIS DEVICE THEREFOR
A61B 6/00	(47) 01.11.2023	(73) Samsung Medison Co., Ltd.
A61B 8/08	(87) JP2020046296	(72) LEE, Seung-heun
A61B 5/00	01.07.2021	KIM, Kang-sik
G02B 27/01	(22) 11.12.2020	(31) 20160012902
A61B 90/14	(54) ULTRASONIC RADIATION TOOL AND ULTRASONIC DEVICE	(32) 02.02.2016
(11) EP3661422	(73) Kyocera Corporation	(33) Korea (Republic)
(21) EP18765236.7	(72) SATO, Izuru	(51) A61B 8/12
(47) 01.11.2023	TOGO, Makoto	A61B 5/06
(87) US2018046372	(31) 2019232601	(11) EP3215020
14.02.2019	(32) 24.12.2019	(21) EP15856682.8
(22) 10.08.2018	(33) Japan	(47) 01.11.2023
(54) DYNAMIC HEADSET APPARATUS	(51) A61B 8/00	(87) US2015059511
(73) NovaSignal Corp.	G06F 3/147	12.05.2016
(72) ZWIERSTRA, Jan	G06F 1/16	(22) 06.11.2015
DUNLOP, Trevor	(11) EP3811873	(54) SYSTEM FOR TRACKING AND IMAGING A TREATMENT PROBE
	(21) EP20202837.9	(73) Covidien LP
	(47) 01.11.2023	(72) HILL, Morgan L.

LARSON, Eric W. BHARADWAJ, Jeetendra MANKAR, Nikhil P. BEHNKE, Robert J., II LADTKOW, Casey M. DICKHANS, William J. RESCHKE, Arlen J. (31) 201514930900 201462076132 P (32) 03.11.2015 06.11.2014 (33) United States of America United States of America	(11) EP3718483 (21) EP19218577.5 (47) 01.11.2023 (22) 01.02.2017 (54) TISSUE AUGMENTATION SCAFFOLDS FOR USE WITH SOFT TISSUE FIXATION REPAIR SYSTEMS (73) Medos International Sarl (72) SENGUN, Mehmet Ziya WHITTAKER, Gregory R. CLEVELAND, Benjamin BERTI, Stefano DIAB, Tamim PARRISH, William R. THEIS, Reagan A. (31) 201715419360 201662393277 P 201662348548 P 201662289702 P (32) 30.01.2017 12.09.2016 10.06.2016 01.02.2016 (33) United States of America United States of America United States of America United States of America	MATERIAL IN THE VASCULAR SYSTEM OR OTHER ORGANIC CAVITIES (73) Ecole Polytechnique Fédérale de Lausanne (EPFL) (72) SCHMOCKER, Andreas MOSER, Christophe MOSIMANN, Pascal (31) PCT/IB2015/053738 (32) 21.05.2015 (33) World Intellectual Property Office (WIPO) (51) A61B 17/122 A61B 17/128 A61B 17/08 A61B 17/00 A61B 17/29 (11) EP3643255 (21) EP18821275.7 (47) 01.11.2023 (87) JP2018015159 27.12.2018 (22) 11.04.2018 (54) CLIPPING TOOL (73) FUJIFILM Corporation (72) TSUCHIYA Syuji ITOH Koji SUZUKI Issei (31) 2017121184 (32) 21.06.2017 (33) Japan
(51) A61B 10/00 (11) EP4025133 (21) EP20781390.8 (47) 01.11.2023 (87) FR2020000234 11.03.2021 (22) 03.09.2020 (54) BIOLOGICAL FLUID TEST DEVICE, IN PARTICULAR A SALIVA TEST DEVICE (73) Toda Groupe (72) BERROS, Yossi (31) 1909663 (32) 03.09.2019 (33) France	(51) A61B 17/04 A61B 17/58 A61B 17/68 A61B 17/84 A61B 17/56 (11) EP3716865 (21) EP17933461.0 (47) 01.11.2023 (87) US2017064178 06.06.2019 (22) 01.12.2017 (54) EXTRA JOINT STABILIZATION CONSTRUCT (73) Crossroads Extremity Systems, LLC (72) FALLIN, T. Wade TABER, Justin	(51) A61B 17/122 A61B 34/10 A61B 90/00 (11) EP3494903 (21) EP18192544.7 (47) 01.11.2023 (22) 04.09.2018 (54) SPINOUS PROCESS CLAMP (73) Augmedics Ltd. (72) Elimelech, Nissan Messinger, Daniel Wolf, Stuart (31) 201762595598 P (32) 07.12.2017 (33) United States of America
(51) A61B 10/02 A61B 5/00 (11) EP3352677 (21) EP16774829.2 (47) 01.11.2023 (87) US2016053481 30.03.2017 (22) 23.09.2016 (54) BIOPSY DEVICE FOR COHERENT RAMAN IMAGING (73) The Regents of The University of Michigan Invenio Imaging Inc. (72) ORRINGER, Daniel FREUDIGER, Christian TRAUTMAN, Jay KELLY, Andrew (31) 201562232633 P (32) 25.09.2015 (33) United States of America	(51) A61B 17/072 (11) EP3785644 (21) EP20197859.0 (47) 01.11.2023 (22) 11.06.2015 (54) SURGICAL STAPLER WITH CIRCUMFERENTIAL FIRING (73) Applied Medical Resources Corporation (72) HOPKINS, Timothy M PATEL, Atal C GADBERRY, Donald L BECERRA, Matthew M (31) 201462010883 P (32) 11.06.2014 (33) United States of America	(51) A61B 17/16 A61B 17/17 A61B 17/80 (11) EP3868313 (21) EP21157394.4 (47) 01.11.2023 (22) 16.02.2021 (54) DISTAL RADIUS STABILIZATION SYSTEM (73) Globus Medical, Inc. (72) ZINGALIS, Gabrielle EVANS, Peter LANGDALE, Evan DEPAUL, Joseph DAVIS, Barclay DAVISON, Andrew GRAY, Michelle LAIRD, David, Jr. WOLFE, Stephanie (31) 202016795640 (32) 20.02.2020 (33) United States of America
(51) A61B 17/04 A61B 17/06 A61B 17/34 A61B 17/00	(51) A61B 17/12 (11) EP3297547 (21) EP16741131.3 (47) 01.11.2023 (87) IB2016052977 24.11.2016 (22) 20.05.2016 (54) DEVICE FOR INJECTION, PHOTOACTIVATION AND SOLIDIFICATION OF LIQUID EMBOLIC	(51) A61B 17/16

A61B 17/3205	(11) EP3979927	A61B 17/00
B25B 23/14	(21) EP20817983.8	A61B 34/30
A61B 17/32	(47) 01.11.2023	A61B 17/34
A61B 17/34	(87) US2020027692	(11) EP3716869
(11) EP3881780	10.12.2020	(21) EP18897369.7
(21) EP21159776.0	(22) 10.04.2020	(47) 01.11.2023
(47) 01.11.2023	(54) IMPLANT REMOVAL TOOL	(87) US2018066828
(22) 07.09.2017	(73) Simplex Designs, LLC	04.07.2019
(54) TREPINE FOR PERCUTANEOUS	(72) Rivera, Jose S., Jr.	(22) 20.12.2018
LATERAL RECESS RESECTION.	(31) 201916431879	(54) END EFFECTOR AND END EFFECTOR
(73) Vertos Medical, Inc.	(32) 05.06.2019	DRIVE APPARATUS
(72) TRAN, Minh	(33) United States of America	(73) The Board of Regents of the University of
WOODGRIFT, Randel	(51) A61B 17/221	Texas System
CORBETT, James	A61B 90/92	Endoquest Robotics, Inc.
THOMPSON, Phillip	(11) EP3565490	(72) KIM, Daniel H.
LALOR, David P. Jr.	(21) EP18736653.9	SHIN, Dong Suk
(31) 201662384435 P	(47) 01.11.2023	JANG, Taeho
(32) 07.09.2016	(87) US2018013017	PARK, Yongman
(33) United States of America	12.07.2018	LEE, Jeihaan
(51) A61B 17/16	(22) 09.01.2018	KIM, Hongmin
A61B 17/88	(54) ENDOSCOPIC SNARE DEVICE	NAM, Kihoon
A61F 2/46	(73) United States Endoscopy Group, Inc.	HAN, Seokyung
(11) EP4035612	(72) USPENSKI, Alex	(31) 201762612220 P
(21) EP20803625.1	KAYE, Christopher	(32) 29.12.2017
(47) 01.11.2023	MOHAMMADPOUR, Reza	(33) United States of America
(87) ES2020070574	MOORE, Craig	(51) A61B 17/3207
01.04.2021	RANALLO, Cynthia Ann	(11) EP3911256
(22) 25.09.2020	WINSTANLEY, John	(21) EP20709782.5
(54) CHISEL FOR PLACING AN ANCHOR IN	(31) 201762444144 P	(47) 01.11.2023
A VERTEBRA	(32) 09.01.2017	(87) US2020013764
(73) Neos Surgery, S.L.	(33) United States of America	23.07.2020
(72) SERRAHIMA TORNEL, Marc	(51) A61B 17/24	(22) 15.01.2020
LLAS VARGAS, Salvador	A61B 17/32	(54) ATHERECTOMY SYSTEM WITH
RODRIGUEZ ALONSO, Ana	(11) EP3911254	SUPPLY LINE FITMENT
CHICO ROCA, Lluís	(21) EP20702387.0	(73) Boston Scientific Limited
(31) 201931564 U	(47) 01.11.2023	(72) BADADAMATH, Sharath
(32) 27.09.2019	(87) IB2020050314	FARAGO, Laszlo Trent
(33) Spain	23.07.2020	FLURY, Kristi Mae
(51) A61B 17/16	(22) 15.01.2020	(31) 201962792808 P
A61B 90/00	(54) ULTRASONIC SURGICAL IRRIGATION	(32) 15.01.2019
(11) EP3668423	SLEEVE AND RELATED ASSEMBLIES	(33) United States of America
(21) EP18769497.1	(73) Stryker European Operations Limited	(51) A61B 17/3207
(47) 01.11.2023	(72) YAMAMOTO, Masaya	A61B 17/22
(87) IB2018056251	GRAS, Guillaume	A61B 90/00
21.02.2019	OTA, Hidefumi	(11) EP3589220
(22) 17.08.2018	(31) 201962792571 P	(21) EP18761615.6
(54) SURGICAL HANDPIECE FOR	(32) 15.01.2019	(47) 01.11.2023
MEASURING DEPTH OF BORE HOLES	(33) United States of America	(87) US2018020287
AND RELATED ACCESSORIES	(51) A61B 17/285	07.09.2018
(73) Stryker Corporation	A61B 17/16	(22) 28.02.2018
(72) CARUSILLO, Steve	A61B 17/88	(54) DEVICE FOR CENTERING AND
LAMBERT, Trevor J.	A61B 17/28	CROSSING A VASCULAR OCCLUSION
MARIETTA, Joseph O.	(11) EP3454765	(73) Angiosafe, Inc.
PETERS, Stephen	(21) EP17797021.7	(72) THATIPELLI, Mallik
(31) 201815887507	(47) 01.11.2023	(31) 201815905491
201862618134 P	(87) US2017032654	201762465108 P
201762548357 P	16.11.2017	(32) 26.02.2018
201762546760 P	(22) 15.05.2017	28.02.2017
(32) 02.02.2018	(54) TISSUE REMOVAL INSTRUMENT	(33) United States of America
17.01.2018	(73) Paragon 28, Inc.	United States of America
21.08.2017	(72) DACOSTA, Albert	(51) A61B 17/3207
17.08.2017	BONO, Frank, S.	A61B 17/221
(33) United States of America	MAJORS, Benjamin	(11) EP4031029
United States of America	ZAGROCKI BRINKER, Laura	(21) EP20768771.6
United States of America	(31) 201662335741 P	(47) 01.11.2023
United States of America	(32) 13.05.2016	(87) US2020048056
(51) A61B 17/16	(33) United States of America	25.03.2021
A61F 2/46	(51) A61B 17/29	(22) 26.08.2020

(54) DEVICES FOR REMOVING OBSTRUCTING MATERIALS FROM BLOOD VESSELS	(47) 01.11.2023 (87) JP2017008630 07.09.2018	(47) 01.11.2023 (87) EP2016079883 22.06.2017
(73) STRYKER CORPORATION Stryker European Operations Limited	(22) 03.03.2017 (54) OSTEOTOMY ASSISTANCE KIT	(22) 06.12.2016 (54) DEVICES FOR MINIMALLY INVASIVE IMMEDIATE IMPLANT STABILIZATION
(72) LEON-YIP, Garvin	(73) Teijin Nakashima Medical Co., Ltd.	(73) Nexilis AG
(31) 201916576694	(72) GOTO, Makoto	(72) FREI, Christian
(32) 19.09.2019	MURASE, Tsuyoshi	ZIMMERMANN, Simon
(33) United States of America	(51) A61B 17/60	SCHLOTTIG, Falko
(51) A61B 17/34	A61B 17/62	HORST, Martin
A61M 13/00	A61B 17/64	(31) 15199997
A61M 39/10	A61B 17/66	(32) 15.12.2015
(11) EP3810236	(11) EP3773278	(33) European Patent Office (EPO)
(21) EP19822376.0	(21) EP19786016.6	(51) A61B 17/70
(47) 01.11.2023	(47) 01.11.2023	(11) EP3817676
(87) US2019035735	(87) US2019026832	(21) EP19739230.1
26.12.2019	17.10.2019	(47) 01.11.2023
(22) 06.06.2019	(22) 10.04.2019	(87) EP2019067967
(54) SURGICAL GAS DELIVERY DEVICE WITH INTERNAL GASEOUS SEALING MODULE AND FILTERED TUBE SET THEREFOR	(54) IMPROVED DYNAMIZATION DEVICE FOR ORTHOPEDIC FIXATION DEVICE	09.01.2020
(73) CONMED Corporation	(73) Texas Scottish Rite Hospital For Children	(2) 04.07.2019
(72) SILVER, Mikiya	(72) ROSS, John David	(54) DEVICE FOR CORRECTING BONE FRACTURES
AUGELLI, Michael J.	SAMCHUKOV, Mikhail L.	(73) Silony Medical International AG
STEARNS, Ralph	CHERKASHIN, Alexander M.	(72) HEUER, Frank
KANE, Michael J.	BIRCH, John G.	(31) 102018116177
(31) 201816015462	(31) 201815950166	(32) 04.07.2018
(32) 22.06.2018	(32) 10.04.2018	(33) Germany
(33) United States of America	(33) United States of America	(51) A61B 17/70
(51) A61B 17/34	(51) A61B 17/62	A61B 17/72
A61M 25/06	(11) EP3813697	(11) EP3386405
A61M 29/00	(21) EP19825022.7	(21) EP16822323.8
A61M 25/01	(47) 01.11.2023	(47) 01.11.2023
(11) EP3854326	(87) US2019037056	(87) US2016066179
(21) EP18934044.1	02.01.2020	15.06.2017
(47) 01.11.2023	(22) 13.06.2019	(22) 12.12.2016
(87) JP2018035090	(54) EXTERNAL FIXATION CONNECTION ROD WITH FEMALE ATTACHMENT	(54) EXTERNAL ADJUSTMENT DEVICE FOR DISTRACTION DEVICE
26.03.2020	(73) Texas Scottish Rite Hospital For Children	(73) NuVasive Specialized Orthopedics, Inc.
(22) 21.09.2018	(72) SAMCHUKOV, Mikhail L.	(72) CHENG, Shanbao
(54) DILATOR	ROSS, John D.	MOELLER, Michael
(73) ASAH I INTECC CO., LTD.	CHERKASHIN, Alexander M.	SCHWARDT, Jeffrey
(72) FUSEYA Yukihiko	(31) 201816020623	(31) 201662276196 P
TSUZUKU, MARINA	(32) 27.06.2018	201562265430 P
(51) A61B 17/425	(33) United States of America	(32) 07.01.2016
A61B 17/43	(51) A61B 17/62	10.12.2015
A61D 19/04	A61B 17/64	(33) United States of America
C12M 3/00	(11) EP4042957	United States of America
C12M 1/00	(21) EP22166761.1	(51) A61B 17/70
(11) EP3777731	(47) 01.11.2023	A61B 90/00
(21) EP19795918.2	(22) 23.03.2020	(11) EP3949881
(47) 01.11.2023	(54) IMPROVED EXTERNAL FIXATION STRUT	(21) EP20189382.3
(87) ES2019070290	(73) Orthofix S.r.l.	(47) 01.11.2023
07.11.2019	TEXAS SCOTTISH RITE HOSPITAL FOR CHILDREN	(22) 04.08.2020
(22) 03.05.2019	(72) VENTURINI, Daniele	(54) SYSTEM OF A ROD INSERTION DEVICE AND A ROD
(54) OOCYTE-HOLDING PIPETTE FOR SPERM INJECTION METHODS WITHOUT CYTOPLASMIC ASPIRATION	OTTOBONI, Andrea	(73) Biedermann Technologies GmbH & Co. KG
(73) Vergara Alcaide, Francisco	MILANO, Gianluca	(72) BIEDERMANN, Timo
(72) Vergara Alcaide, Francisco	ROSS, John David Jr.	SCHÜNEMANN, Achim
(31) 201830624 U	STANDEFER, Karen Divita	HÄGLE, Tobias
(32) 03.05.2018	SAMCHUKOV, Mikhail	(51) A61B 17/86
(33) Spain	CHERKASHIN, Alexander	A61B 17/80
(51) A61B 17/56	(51) A61B 17/68	A61B 17/84
A61B 17/14	A61C 8/00	A61B 17/88
A61B 17/15	A61B 17/88	A61B 17/064
(11) EP3590450	B29C 65/56	(11) EP3563785
(21) EP17898699.8	(11) EP3389520	(21) EP19179774.5
	(21) EP16808607.2	

(47) 01.11.2023	United States of America	(32) 11.04.2016
(22) 13.07.2016	(51) A61B 18/18	(33) United States of America
(54) BONE PLATES WITH DYNAMIC ELEMENTS	A61B 18/12	(51) A61B 34/00
(73) Crossroads Extremity Systems, LLC	A61B 1/267	A61B 34/30
(72) HOLLIS, Michael Chad	A61B 18/14	A61B 34/35
HARTDEGEN, Vernon Raymond	A61B 1/00	A61B 17/22
SAYGER, Daniel	A61B 17/24	(11) EP2627279
(31) 201562192059 P	A61B 17/32	(21) EP11833036.4
(32) 13.07.2015	A61B 90/00	(47) 01.11.2023
(33) United States of America	A61B 1/018	(87) US2011053642
(51) A61B 17/90	(11) EP3079621	19.04.2012
A61B 17/17	(21) EP14868857.5	(22) 28.09.2011
A61B 17/84	(47) 01.11.2023	(54) OCCLUSION TRAVERSAL ROBOTIC CATHETER SYSTEM
A61F 2/40	(87) US2014069971	(73) Corindus Inc.
(11) EP4076235	18.06.2015	(72) MURPHY, John
(21) EP20820434.7	(22) 12.12.2014	WENDEROW, Tal
(47) 01.11.2023	(54) CATHETER AND HANDLE ASSEMBLY AND SYSTEMS	(31) 393154 P
(87) EP2020085554	(73) Nuvaira, Inc.	(32) 14.10.2010
24.06.2021	(72) HARSHMAN, Scott	(33) United States of America
(22) 10.12.2020	GUNDERSON, Richard C.	(51) A61B 34/00
(54) GLENOID POSITIONING DEVICE	STREETER, John	G02B 21/24
(73) Limacorporate S.p.A.	MAYSE, Martin L.	G02B 7/00
(72) PRESSACCO, Michele	BILITZ, Mark R.	G02B 21/00
DOSSO, Marco	HEIDNER, Matt	A61B 90/20
DELLA VEDOVA, Francesco	MERTENS, Steven P.	(11) EP3178434
(31) 201900024069	WALES, Larry	(21) EP15842643.7
(32) 16.12.2019	(31) 201361915282 P	(47) 01.11.2023
(33) Italy	(32) 12.12.2013	(87) JP2015074897
(51) A61B 18/12	(33) United States of America	24.03.2016
A61B 18/14	(51) A61B 18/18	(22) 01.09.2015
A61B 17/29	H05B 6/70	(54) MEDICAL OBSERVATION DEVICE AND MEDICAL OBSERVATION SYSTEM
A61B 17/32	(11) EP3927268	(73) Sony Olympus Medical Solutions Inc.
A61B 17/00	(21) EP20718518.2	(72) KAMATA, Yoshiyuki
A61B 5/053	(47) 01.11.2023	HIROSE, Kenji
(11) EP3316810	(87) EP2020058840	TAMURA, Shigeru
(21) EP16739615.9	08.10.2020	(31) 2014188108
(47) 01.11.2023	(22) 27.03.2020	(32) 16.09.2014
(87) US2016039223	(54) MICROWAVE APPARATUS AND METHOD	(33) Japan
05.01.2017	(73) Emblation Limited	(51) A61B 34/10
(22) 24.06.2016	(72) MCERLEAN, Eamon	A61B 34/20
(54) SURGICAL SYSTEM WITH USER ADAPTABLE TECHNIQUES BASED ON TISSUE IMPEDANCE	BEALE, Gary	A61B 34/30
(73) Ethicon LLC	JOSHI, Shailesh	A61B 34/00
(72) YATES, David C.	(31) 201904383	(11) EP3902496
DENZINGER, Kristen G.	(32) 29.03.2019	(21) EP19839592.3
HOUSER, Kevin L.	(33) United Kingdom	(47) 01.11.2023
(31) 201615177456	(51) A61B 18/20	(87) US2019067583
201662330669 P	A61B 18/22	02.07.2020
201662279635 P	A61N 5/06	(22) 19.12.2019
201562235260 P	A61B 90/14	(54) SYSTEM FOR SURGICAL PLANNING USING SOFT TISSUE ATTACHMENT POINTS
201562235466 P	(11) EP3824837	(73) MAKO Surgical Corp.
201562235368 P	(21) EP20215244.3	(72) HAMPP, Emily
201562186984 P	(47) 01.11.2023	LIARNO, Sally
(32) 09.06.2016	(22) 11.04.2017	YILDIRIM, Gokce
02.05.2016	(54) SYSTEMS FOR UNATTENDED TREATMENT OF A SUBJECT'S HEAD OR NECK	NADZADI, Mark Ellsworth
15.01.2016	(73) Cynosure, LLC	CLARK, Gavin
30.09.2015	(72) Boll, James	(31) 201862785427 P
30.09.2015	Robert D., McCarthy	(32) 27.12.2018
30.09.2015	Sierra, Rafael Armando	(33) United States of America
30.06.2015	Sutherland, Brian R.	(51) A61B 34/20
(33) United States of America	Cameron, Allan	(11) EP3496623
United States of America	West, Adrian Mark	(21) EP17840310.1
United States of America	Winter, Elizabeth Kneen	(47) 01.11.2023
United States of America	Young, Kevin	(87) US2017046379
United States of America	(31) 201662321141 P	15.02.2018



(22) 10.08.2017	(22) 15.07.2021	A46D 3/04
(54) SURGICAL DEVICE GUIDANCE AND MONITORING SYSTEMS	(54) MEDICAL/DENTAL HANDPIECE	A61C 17/32
(73) Elucent Medical, Inc.	(73) SyACT International, LLC	(11) EP3823554
(72) VAN DER WEIDE, Daniel W.	(72) CHANG, Jeffrey, Wen Wei	(21) EP19749456.0
VAN DER WEIDE, Noah	BRUDER, George	(47) 01.11.2023
RUDIE, Eric N.	KUTTLER, Sergio	(87) NL2019050452
MIEL, David	KISHEN, Anil	23.01.2020
WILKE, Lee G.	(31) 202016931247	(22) 16.07.2019
LEE, Fred T.	(32) 16.07.2020	(54) METHOD OF MANUFACTURING A RECESS WALL LINED WITH BRISTLES FOR A MOUTHPIECE
(31) 201762491887 P	(33) United States of America	(73) Dental Robotics Group B.V.
201662374402 P	(51) A61C 8/00	(72) VAN DIJK, Joppe Gideon
(32) 28.04.2017	(11) EP3711706	SNIJDER, Tim Anton
12.08.2016	(21) EP19163971.5	VAN DE WATER, Thomas
(33) United States of America	(47) 01.11.2023	(31) 2021331
United States of America	(22) 20.03.2019	2021330
(51) A61B 34/20	(54) TOOTH IMPLANT	2021332
A61B 90/00	(73) Walther, Gerd Axel	(32) 17.07.2018
G01R 33/28	(72) Walther, Gerd Axel	17.07.2018
A61B 6/00	(51) A61C 9/00	17.07.2018
G01R 33/483	A61B 5/00	(33) Netherlands
A61B 6/12	(11) EP3986326	Netherlands
A61B 90/50	(21) EP20740147.2	Netherlands
(11) EP4197475	(47) 01.11.2023	(51) A61C 19/06
(21) EP21214965.2	(87) US2020039438	A61C 13/15
(47) 01.11.2023	30.12.2020	(11) EP4013347
(22) 16.12.2021	(22) 24.06.2020	(21) EP20772523.5
(54) TECHNIQUE OF DETERMINING A SCAN REGION TO BE IMAGED BY A MEDICAL IMAGE ACQUISITION DEVICE	(54) METHOD AND SYSTEM FOR GENERATING A DIGITAL THREE-DIMENSIONAL IMAGE OF AN INTRAORAL THREE-DIMENSIONAL SURFACE	(47) 01.11.2023
(73) Stryker European Operations Limited	(73) Align Technology, Inc.	(87) US2020070487
(72) HORNECKER, Patrick	(72) SAPHIER, Ofer	25.03.2021
HERRMANN, Florian	LEVY, Tal	(22) 03.09.2020
(51) A61B 34/30	PELEG, Gal	(54) SYSTEM FOR WHITENING TEETH
A61B 34/37	DAFNA, Eliran	(73) Colgate-Palmolive Company
A61B 34/35	OZEROV, Sergei	(72) STROTMAN, Hallena
G16H 40/40	VERKER, Tal	DAVIES-SMITH, Leighton
(11) EP1753359	MAKMEL, Nir	(31) 201962902800 P
(21) EP05740306.5	ATIYA, Yossef	(32) 19.09.2019
(47) 01.11.2023	(31) 202016910042	(33) United States of America
(87) US2005014414	201962953060 P	(51) A61F 2/06
24.11.2005	201962865878 P	A61L 27/26
(22) 28.04.2005	(32) 23.06.2020	A61L 27/56
(54) TOOL MEMORY-BASED SOFTWARE UPGRADES FOR ROBOTIC SURGERY	(32) 23.12.2019	A61L 27/38
(73) Intuitive Surgical Operations, Inc.	24.06.2019	A61L 27/50
(72) TOTH, Gregory, K.	(33) United States of America	D01D 5/00
SWARUP, Nitish	United States of America	D01F 6/88
NIXON, Tom	United States of America	D06M 15/15
LARKIN, David, Q.	(51) A61C 17/06	(11) EP3512460
COLTON, Steven	B01D 21/00	(21) EP17851603.5
(31) 839727	B01D 21/02	(47) 01.11.2023
(32) 04.05.2004	B01D 21/24	(87) US2017051777
(33) United States of America	(11) EP4041123	22.03.2018
(51) A61C 5/40	(21) EP20803535.2	(22) 15.09.2017
A61C 5/50	(47) 01.11.2023	(54) ENGINEERED BLOOD VESSELS
A61C 1/06	(87) EP2020081276	(73) University Of Kansas
A61C 1/12	14.05.2021	(72) QUINT, Clay
A61C 3/03	(22) 06.11.2020	(31) 201662395703 P
A61C 1/07	(54) DENTAL SEPARATOR	(32) 16.09.2016
A61C 1/08	(73) Pregonzer, Bruno	(33) United States of America
A61C 1/14	(72) Pregonzer, Bruno	(51) A61F 2/07
(11) EP4181817	(31) 509532019	A61F 2/06
(21) EP21752351.3	(32) 08.11.2019	A61F 2/954
(47) 01.11.2023	(33) Austria	A61F 2/848
(87) US2021041722	(51) A61C 17/22	(11) EP3434225
20.01.2022	A46B 9/04	(21) EP18195339.9
	A46D 3/00	(47) 01.11.2023
		(22) 23.06.2010

(54) VASCULAR PROSTHESIS FOR TREATING ANEURYSMS	United States of America	(73) SMed - TA/TD LLC
(73) Endospan Ltd.	United States of America	(72) Nebosky, Paul S.
(72) Shalev, Alon	United States of America	Stalcup, Gregory C.
Benary, Rafi	United States of America	(31) 201514637142
(31) 22107409 P	(51) A61F 2/24	(32) 03.03.2015
21975809 P	(11) EP3210575	(33) United States of America
(32) 28.06.2009	(21) EP16000475.0	(51) A61F 2/44
23.06.2009	(47) 01.11.2023	A61F 2/46
(33) United States of America	(22) 29.02.2016	(11) EP3359084
United States of America	(54) HEART IMPLANT	(21) EP16854572.1
(51) A61F 2/08	(73) coramaze technologies GmbH	(47) 01.11.2023
(11) EP3638151	(72) Niklas, Nathe	(87) US2016056475
(21) EP18739977.9	Scheuermann, Torsten	13.04.2017
(47) 01.11.2023	(51) A61F 2/30	(22) 11.10.2016
(87) US2018036838	A61F 2/40	(54) EXPANDABLE, ADJUSTABLE INTER-
20.12.2018	(11) EP3875061	BODY FUSION DEVICES
(22) 11.06.2018	(21) EP21160317.0	(73) Spectrum Spine IP Holdings, LLC
(54) EXPANDING ANCHOR	(47) 01.11.2023	(72) ROBINSON, James, C.
(73) CONMED Corporation	(22) 02.03.2021	(31) 201562239448 P
(72) KAM, Andrew	(54) GLENOID IMPLANT WITH ANCHOR	(32) 09.10.2015
(31) 201762518245 P	COMPRISING ANTI-ROTATION	(33) United States of America
(32) 12.06.2017	FEATURE	(51) A61F 2/44
(33) United States of America	(73) Howmedica Osteonics Corporation	A61F 2/46
(51) A61F 2/16	(72) TERRILL, Lance N.	A61F 2/30
A61F 2/00	(31) 202062984336 P	(11) EP3795120
A61F 9/00	(32) 03.03.2020	(21) EP19198123.2
A61F 9/007	(33) United States of America	(47) 01.11.2023
(11) EP3801389	(51) A61F 2/38	(22) 18.09.2019
(21) EP19814614.4	A61B 34/30	(54) INTERVERTEBRAL IMPLANT AND
(47) 01.11.2023	A61B 34/37	INSERTION DEVICE THEREFOR
(87) US2019034417	A61B 34/00	(73) Biedermann Technologies GmbH & Co.
12.12.2019	A61B 34/20	KG
(22) 29.05.2019	A61B 90/00	(72) BIEDERMANN, Timo
(54) INTRAOCULAR LENS DELIVERY	(11) EP3508175	(51) A61F 2/44
DEVICE	(21) EP19155391.6	A61F 2/46
(73) Atrion Medical Products, Inc.	(47) 01.11.2023	A61F 2/48
(72) KANNER, Rowland, W.	(22) 19.12.2014	(11) EP3245982
ROBERTS, Brian, A.	(54) FEMORAL COMPONENT FOR BONE	(21) EP17172001.4
COLLINS, Jonathan, David	CONSERVATION	(47) 01.11.2023
(31) 201862680831 P	(73) MAKO Surgical Corp.	(22) 19.05.2017
(32) 05.06.2018	(72) NADZADI, Mark	(54) EXPANDABLE INTERBODY IMPLANT
(33) United States of America	OTTO, Jason	WITH LORDOSIS CORRECTION
(51) A61F 2/24	MISTRY, Amit	(73) Howmedica Osteonics Corp.
(11) EP2408399	(31) 201361921964 P	(72) SHARIFI-MEHR, Amir Ali
(21) EP10753185.7	(32) 30.12.2013	BUCHERT, Oliver
(47) 01.11.2023	(33) United States of America	(31) 201662339459 P
(87) IB2010000833	(51) A61F 2/44	(32) 20.05.2016
23.09.2010	(11) EP3622920	(33) United States of America
(22) 17.03.2010	(21) EP19194180.6	(51) A61F 2/46
(54) HEART VALVE PROSTHESIS WITH	(47) 01.11.2023	A61B 17/02
COLLAPSIBLE VALVE	(22) 28.08.2019	A61F 2/38
(73) Mitrassist Medical Ltd.	(54) EXPANDABLE INTERVERTEBRAL	A61F 2/30
(72) NAOR, Gil	IMPLANT	(11) EP4142656
(31) 227193 P	(73) Globus Medical, Inc.	(21) EP22735926.2
257979 P	(72) MCLAUGHLIN, Colm	(47) 01.11.2023
186100 P	ZAPPACOSTA, Jason	(87) EP2022068385
212459 P	(31) 201816116396	12.01.2023
215944 P	(32) 29.08.2018	(22) 04.07.2022
210255 P	(33) United States of America	(54) TIBIAL TRIAL INSERT SYSTEM
(32) 21.07.2009	(51) A61F 2/44	(73) Aesculap AG
04.11.2009	A61F 2/30	(72) ZOUAGHI, Housseyn
11.06.2009	(11) EP3064175	(31) 21183675
13.04.2009	(21) EP16156901.7	(32) 05.07.2021
12.05.2009	(47) 01.11.2023	(33) European Patent Office (EPO)
17.03.2009	(22) 23.02.2016	(51) A61F 2/50
(33) United States of America	(54) ORTHOPAEDIC IMPLANT WITH	A61F 2/78
United States of America	POROUS STRUCTURAL MEMBER	B29C 64/00

B29C 64/10	(73) Cook Medical Technologies LLC	(33) United States of America
B29C 64/379	(72) Bradway, Ryan C.	United States of America
B29C 64/106	Baxter, Charles L.	United States of America
B29L 31/00	(31) 201562212767 P	<hr/>
B33Y 80/00	(32) 01.09.2015	(51) A61F 5/14
(11) EP3860526	(33) United States of America	A43B 7/14
(21) EP19765698.6	(51) A61F 2/95	A43B 17/00
(47) 01.11.2023	A61M 25/01	(11) EP3512470
(87) EP2019073754	A61M 25/00	(21) EP16777916.4
09.04.2020	A61M 25/09	(47) 01.11.2023
(22) 05.09.2019	A61F 2/04	(87) EP2016072000
(54) METHOD OF PRODUCTION OF AN	A61F 2/07	22.03.2018
ORTHOPEDIC DEVICE	A61F 2/82	(22) 16.09.2016
(73) Ottobock SE & Co. KGaA	A61B 8/00	(54) ORTHOTIC INSERT FOR ALLEVIATING
(72) BAUSE, Ingrid	A61B 8/08	SEVER'S DISEASE
BERTELS, Thomas	A61B 8/12	(73) Solemaids ApS
BETZ, Sebastian	B29C 63/00	(72) ØLLGAARD, Per
BIERBAUM, Sarah	B29C 63/40	<hr/>
BRÜNJES, Lukas	B29K 101/12	(51) A61F 7/00
ENGELBART, Hendryk	B29L 31/00	A61J 3/00
FINKE, Lars Benjamin	(11) EP3852860	A61M 13/00
HILLMANN, Martin	(21) EP19862811.7	(11) EP4134051
MÜLLER, Christian	(47) 01.11.2023	(21) EP22173571.5
(31) 102019114458	(87) US2019051569	(47) 01.11.2023
102018124516	26.03.2020	(22) 16.05.2022
(32) 29.05.2019	(22) 17.09.2019	(54) VAPOUR APPLICATION AND VAPOUR
04.10.2018	(54) METHODS FOR FABRICATING	APPLICATION DEVICES
(33) Germany	MEDICAL DEVICES AND PORTIONS	(73) Haslauer, Paul
Germany	OF MEDICAL DEVICES	(72) Haslauer, Paul
<hr/>	(73) Seigla Medical, Inc.	(31) 503942021
(51) A61F 2/64	(72) OLSON, Ross A.	(32) 19.05.2021
A61F 5/01	KUGLER, Chad J.	(33) Austria
(11) EP3285698	(31) 201916572330	<hr/>
(21) EP16726484.5	201916572307	(51) A61F 9/00
(47) 01.11.2023	201962900645 P	A61K 9/00
(87) EP2016058716	201962899929 P	A61F 9/007
27.10.2016	201862732282 P	(11) EP3785683
(22) 20.04.2016	(32) 16.09.2019	(21) EP20184916.3
(54) HINGE FOR AN ARTICULATION	16.09.2019	(47) 01.11.2023
ORTHOSIS	15.09.2019	(22) 18.05.2010
(73) Wayd, Kurt	13.09.2019	(54) DRUG ELUTING OCULAR IMPLANT
(72) Wayd, Kurt	17.09.2018	(73) Dose Medical Corporation
(31) 503232015	(33) United States of America	(72) HAFFNER, David
(32) 22.04.2015	United States of America	CURRY, Ken
(33) Austria	United States of America	HEITZMANN, Harold
<hr/>	United States of America	APPLEGATE, David
(51) A61F 2/90	United States of America	(31) 26461509 P
(11) EP3618775	United States of America	26459409 P
(21) EP18727076.4	United States of America	26460409 P
(47) 01.11.2023	United States of America	22052709 P
(87) US2018028808	(51) A61F 2/958	17933209 P
08.11.2018	A61M 25/10	(32) 25.11.2009
(22) 23.04.2018	(11) EP2755715	25.11.2009
(54) COLLAPSIBLE MEDICAL DEVICE	(21) EP12768969.3	25.11.2009
HAVING AN OPEN LUMEN	(47) 01.11.2023	25.06.2009
(73) St. Jude Medical, Cardiology Division,	(87) US2012055666	18.05.2009
Inc.	21.03.2013	(33) United States of America
(72) PERSZYK, Brian	(22) 15.09.2012	United States of America
(31) 201762500737 P	(54) CONTROLLABLE INFLATION PROFILE	United States of America
(32) 03.05.2017	BALLOON COVER	United States of America
(33) United States of America	(73) W.L. Gore & Associates, Inc.	United States of America
<hr/>	(72) CAMPBELL, Carey, V.	<hr/>
(51) A61F 2/95	GOEPFRICH, James, L.	(51) A61F 9/00
(11) EP3138534	HEDBERG, Brandon, C.	A61K 9/00
(21) EP16275123.4	TRAPP, Benjamin, M.	A61K 47/02
(47) 01.11.2023	(31) 201213619806	A61P 27/00
(22) 01.09.2016	201213529896	(11) EP3681448
(54) MODULAR HANDLE COMPRISING	201161535864 P	(21) EP18780237.6
A TRIGGER WIRE ACTUATION	(32) 14.09.2012	(47) 01.11.2023
MECHANISM FOR A PROSTHESIS	21.06.2012	(87) IB2018056907
DELIVERY DEVICE	16.09.2011	21.03.2019
		(22) 11.09.2018

(54) DEVICE FOR INTRAOCULAR RELEASE OF A MEDICAMENT	(54) WOUND DRESSING	04.11.2019
(73) Politecnico di Milano	(73) Smith & Nephew plc	(33) United States of America
(72) BOSCHETTI, Federica	(72) BROWNHILL, Varuni Rachindra	United States of America
FERRONI, Marco	GOWANS, John	United States of America
CEREDA, Matteo Giuseppe	HARTWELL, Edward Yerbury	<hr/>
(31) 201700101582	(31) 201462085774 P	(51) A61F 13/475
(32) 12.09.2017	201462013989 P	A61F 13/49
(33) Italy	(32) 01.12.2014	A61F 13/511
<hr/>	18.06.2014	A61F 13/534
(51) A61F 9/007	(33) United States of America	(11) EP3634347
(11) EP3911284	United States of America	(21) EP18722597.4
(21) EP19909769.2	<hr/>	(47) 01.11.2023
(47) 01.11.2023	(51) A61F 13/00	(87) EP2018062392
(87) US2019040538	A61M 1/00	22.11.2018
23.07.2020	A61F 13/02	(22) 14.05.2018
(22) 03.07.2019	A61M 27/00	(54) ABSORBENT ARTICLE WITH
(54) SURGICAL INSTRUMENT FOR	(11) EP3638167	CHANNELS AND METHOD FOR
GONIOTOMY PROCEDURE AND	(21) EP18731060.2	MANUFACTURING THEREOF
METHOD OF MANUFACTURE	(47) 01.11.2023	(73) Drylock Technologies NV
(73) Raico International, LLC	(87) EP2018065396	(72) SMET, Steven
(72) YOKOYAMA, Mitsunobu	20.12.2018	VAN INGELGEM, Werner
(31) 201962792058 P	(22) 11.06.2018	DERYCKE, Tom
(32) 14.01.2019	(54) NEGATIVE PRESSURE WOUND	VERDUYN, Dries
(33) United States of America	THERAPY APPARATUS	(31) 17202006
<hr/>	(73) T.J. Smith and Nephew, Limited	17200847
(51) A61F 9/008	(72) GREENER, Bryan	17198652
A61B 18/22	(31) 201762519762 P	17198368
A61B 17/00	(32) 14.06.2017	17198349
A61B 18/00	(33) United States of America	17196434
(11) EP3836870	<hr/>	17190395
(21) EP19787459.7	(51) A61F 13/02	17183453
(47) 01.11.2023	A61F 13/00	17171110
(87) IB2019058486	(11) EP3975955	(32) 16.11.2017
09.04.2020	(21) EP20727859.9	09.11.2017
(22) 04.10.2019	(47) 01.11.2023	26.10.2017
(54) OCCLUSION SENSING IN	(87) IB2020054836	25.10.2017
OPHTHALMIC LASER PROBES	03.12.2020	25.10.2017
(73) Alcon Inc.	(22) 21.05.2020	13.10.2017
(72) MIRSEPASSI, Alireza	(54) MEDICAL DRESSING FOR SECURING	11.09.2017
SMITH, Ronald T.	A TUBIFORM COMPONENT OF A	27.07.2017
BACHER, Gerald David	MEDICAL DEVICE	15.05.2017
LASSALAS, Bruno	(73) 3M Innovative Properties Co.	(33) European Patent Office (EPO)
KOE, Nikki	(72) SIERACKI, James M.	European Patent Office (EPO)
RICHARDSON, Dean	SCHEIBEL, Krystal J.	European Patent Office (EPO)
(31) 201862742075 P	(31) 201962853192 P	European Patent Office (EPO)
(32) 05.10.2018	(32) 28.05.2019	European Patent Office (EPO)
(33) United States of America	(33) United States of America	European Patent Office (EPO)
<hr/>	<hr/>	European Patent Office (EPO)
(51) A61F 9/04	(51) A61F 13/15	European Patent Office (EPO)
G10K 11/178	A61F 13/49	European Patent Office (EPO)
(11) EP3852704	(11) EP4054497	European Patent Office (EPO)
(21) EP19787347.4	(21) EP20786684.9	European Patent Office (EPO)
(47) 01.11.2023	(47) 01.11.2023	<hr/>
(87) GB2019052654	(87) US2020070568	(51) A61F 13/49
26.03.2020	14.05.2021	A61F 13/496
(22) 20.09.2019	(22) 23.09.2020	A61F 13/514
(54) EAR DEVICE AND EAR-AND-EYE	(54) METHOD FOR BONDING ELASTIC	A61F 13/539
MASK WITH NOISE ATTENUATION	PARTS UNDER TENSION TO AN	A61F 13/513
AND GENERATION	ADVANCING CARRIER	(11) EP3646831
(73) Turner-Fernback, Deborah Carol	(73) The Procter & Gamble Company	(21) EP17928595.2
(72) Turner-Fernback, Deborah Carol	(72) SCHNEIDER, Uwe	(47) 01.11.2023
(31) 201815368	QUADE, Michael, Brian	(87) JP2017036996
(32) 20.09.2018	NAYLOR, Jason, Edward	18.04.2019
(33) United Kingdom	RAYCHECK, Jeromy, Thomas	(22) 12.10.2017
<hr/>	DALAL, Urmish, Popatlal	(54) ABSORBENT ARTICLE
(51) A61F 13/00	WILLHAUS, Keith, Richard	(73) Unicharm Corporation
A61F 13/02	(31) 201962930808 P	(72) FUJII, Keishi
(11) EP3666237	201962930198 P	UEDA, Masumi
(21) EP19215069.6	201962930181 P	<hr/>
(47) 01.11.2023	(32) 05.11.2019	(51) A61F 13/49
(22) 15.06.2015	04.11.2019	A61F 13/537
		A61F 13/494
		A61F 13/53

A61F 13/534	NEWKIRK, David	(33) Switzerland
(11) EP3843681	GRACE, Jason Brennan	(51) A61H 1/02
(21) EP19854887.7	GUTHRIE, Brian	(11) EP3706702
(47) 01.11.2023	MEYER, Eric R.	(21) EP18830518.9
(87) US2019048806	BORGMAN, Darrell L.	(47) 01.11.2023
05.03.2020	JOHANNIGMAN, Nicole	(87) IB2018058580
(22) 29.08.2019	WILLIAMSON, Rachel L.	16.05.2019
(54) ABSORBENT ARTICLE WITH	CHURILLA, Michael	(22) 01.11.2018
ABSORBENT STRIPS	EVANS, James	(54) HAND EXOSKELETON DEVICE
(73) Medline Industries, LP	FRANKLIN, Taylor	(73) Ecole Polytechnique Fédérale de
(72) TALLMAN, Amanda	WAGNER, Catherine Marie	Lausanne (EPFL)
KAIDANTZIS, Stephen	MOORES, Keith	(72) RANDAZZO, Luca
(31) 201816117077	LIN, Katherine	DEL R. MILLÁN, José
(32) 30.08.2018	(31) 201962833389 P	(31) PCT/IB2017/056954
(33) United States of America	(32) 12.04.2019	(32) 07.11.2017
(51) A61F 13/49	(33) United States of America	(33) World Intellectual Property Office (WIPO)
B32B 5/02	(51) A61G 13/00	(51) A61H 1/02
(11) EP3758660	A61G 13/12	(11) EP3049041
(21) EP19708041.9	A61G 15/00	(21) EP14847898.5
(47) 01.11.2023	(11) EP3481359	(47) 01.11.2023
(87) EP2019054416	(21) EP17735167.3	(87) US2014058131
06.09.2019	(47) 01.11.2023	02.04.2015
(22) 22.02.2019	(87) EP2017067076	(22) 29.09.2014
(54) DISPOSABLE INCONTINENCE NAPPY	11.01.2018	(54) MULTI-ACTIVE-AXIS, NON-
HAVING LATERAL SECTIONS AND	(22) 07.07.2017	EXOSKELETAL REHABILITATION
ELASTIC COMPONENT	(54) MOBILISATION MODULE AND	DEVICE
(73) Paul Hartmann AG	MOBILISATION FURNITURE	(73) Barrett Technology, Inc.
(72) GAUSE, Enno	(73) Vibwife AG	(72) TOWNSEND, William, T.
SWEREV, Maximilian	(72) VON SIEBENTHAL, Tobias, Nicolas	WILKINSON, David
KESSELMIEIER, Rüdiger	VON SIEBENTHAL, Sophia, Anna, Bella	JENKO, Alexander
REISEL, Robert	SCHNELL, Pascal, André	LELAND, Julian
BENNING, Heiner	(31) 16178745	ANANTHANARAYANAN, Arvind
BAIER, René	(32) 08.07.2016	PATTON, James
WAGNER, Maximilian	(33) European Patent Office (EPO)	(31) 201361883367 P
KEILHOLZ, Clemens	(51) A61G 13/04	(32) 27.09.2013
SCHMIDT, Dominik	A61G 13/06	(33) United States of America
(31) 102018104539	(11) EP3675791	(51) A61H 21/00
(32) 28.02.2018	(21) EP18769111.8	A61H 23/00
(33) Germany	(47) 01.11.2023	A61B 5/00
(51) A61G 5/10	(87) EP2018073816	E03D 11/13
A61G 7/057	25.04.2019	(11) EP4056161
(11) EP3755296	(22) 05.09.2018	(21) EP21216159.0
(21) EP19760880.5	(54) SURGICAL TABLES	(47) 01.11.2023
(47) 01.11.2023	(73) STERIS Solutions Limited	(22) 14.09.2017
(87) NZ2019050018	(72) CAMPBELL, Julie	(54) A SYSTEM FOR ADAPTIVE
06.09.2019	PORTLOCK, Mark	TREATMENT OF DISORDERS IN THE
(22) 26.02.2019	CLAYTON, Matt	GASTROINTESTINAL TRACT
(54) A SEATING SUPPORT	HINTON, Jeremy	(73) Vibrant Ltd.
(73) Roger Thomas MASCULL and Elizabeth	HARDING, Richard	(72) BEN-TSUR, Lior
Jocelyn MASCULL as Trustees of the RT	(31) 201717123	MOLNAR, Shai
and EJ Family Trust	(32) 18.10.2017	SHABAT, Roni
(72) MASCULL, Bruce Gordon	(33) United Kingdom	LAMPERT, Shalom
(31) 2018900629	(51) A61G 15/14	(31) 201721046328 U
(32) 27.02.2018	B01D 53/64	201616044
(33) Australia	A61M 16/00	(32) 21.08.2017
(51) A61G 7/05	(11) EP4065063	21.09.2016
A47C 27/00	(21) EP20811411.6	(33) China
A61G 7/057	(47) 01.11.2023	United Kingdom
(11) EP3721848	(87) EP2020083718	(51) A61J 1/03
(21) EP20169142.5	03.06.2021	A61J 7/04
(47) 01.11.2023	(22) 27.11.2020	H04B 5/00
(22) 09.04.2020	(54) COLLECTION DEVICE FOR	(11) EP3651717
(54) MATTRESS RETENTION ASSEMBLY	COLLECTING AND SUCTIONING OFF	(21) EP18755706.1
AND RADIO FREQUENCY WELD IN	MERCURY-LOADED AIR	(47) 01.11.2023
SURFACE COVERS	(73) Zehm, Michael	(87) EP2018068304
(73) Hill-Rom Services, Inc.	(72) Zehm, Michael	17.01.2019
(72) BORGMAN, Douglas	(31) 15072019	(22) 05.07.2018
RAMEGOWDA, Jnanasha	(32) 28.11.2019	

(54) MEDICAMENT DISPENSING SYSTEM AND DISPENSING METHOD	20193194	(21) EP21721950.0
(73) Astrazeneca AB	(32) 29.07.2020	(47) 01.11.2023
(72) JONSSON, Fredrik	27.08.2020	(87) EP2021061539
GRADINARSKY, Lubomir	(33) World Intellectual Property Office (WIPO)	11.11.2021
(31) 201711262	European Patent Office (EPO)	(22) 03.05.2021
(32) 13.07.2017	(51) A61K 8/04	(54) AN ANTIPERSPIRANT COMPOSITION
(33) United Kingdom	A61K 8/67	(73) Unilever IP Holdings B.V.
(51) A61J 1/14	A61K 8/64	(72) ALLAHBASH, Shahin
A61J 1/20	A61K 8/97	BARNE, Sameer, Keshav
A61M 39/04	A61K 8/41	(31) 202021019492
G01N 30/18	A61K 8/02	20183171
(11) EP3349713	A45D 44/00	(32) 07.05.2020
(21) EP16847342.9	A45D 44/22	30.06.2020
(47) 01.11.2023	A61Q 19/00	(33) India
(87) US2016052019	(11) EP3530260	European Patent Office (EPO)
23.03.2017	(21) EP17862142.1	(51) A61K 8/34
(22) 15.09.2016	(47) 01.11.2023	A61K 8/92
(54) SEPTUM THAT DECONTAMINATES BY INTERACTION WITH PENETRATING ELEMENT	(87) KR2017010756	A61Q 19/10
(73) Dr. Py Institute LLC	26.04.2018	(11) EP3672565
(72) PY, Daniel	(22) 27.09.2017	(21) EP18829687.5
(31) 201562219035 P	(54) METHOD FOR PREVENTING OXIDATION OF ANTIOXIDANT MATERIAL USING APTAMER, MATERIAL, AND USE THEREOF	(47) 01.11.2023
(32) 15.09.2015	(73) Nexmos Co., Ltd.	(87) US2018065336
(33) United States of America	(72) SON, In Sik	04.07.2019
(51) A61J 1/20	(31) PCT/KR2016/011740	(22) 13.12.2018
A61M 5/178	(32) 19.10.2016	(54) PERSONAL CARE COMPOSITIONS
A61M 5/00	(33) World Intellectual Property Office (WIPO)	(73) Colgate-Palmolive Company
A61J 1/14	(51) A61K 8/25	(72) DEWDNEY, Nadine
A61M 5/32	A45D 40/24	KULKARNI, Pooja
(11) EP3285713	A45D 44/00	BOYKE, Christine
(21) EP16783383.9	A61Q 1/00	LESNIAK, Ewelina
(47) 01.11.2023	A61K 8/73	KOZUBAL, Cheryl
(87) KR2016004072	A61K 8/19	NYARKO, Samuel
27.10.2016	A45D 34/04	JHA, Brajesh
(22) 19.04.2016	A45D 34/00	(31) 201762612328 P
(54) DRUG DELIVERY KIT, AND APPARATUS AND METHOD FOR PREPARING DRUG DELIVERY SYSTEM	A61Q 19/00	(32) 30.12.2017
(73) Tgel Bio Co., Ltd.	A61K 8/81	(33) United States of America
(72) HWANG, Changsoon	A61K 8/29	(51) A61K 8/40
KIM, Sun Jong	A61Q 17/00	A61K 8/362
CHO, Han Weon	A61Q 5/00	A61K 8/34
HAM, Sunhee	A61Q 1/02	A61Q 5/00
CHUNG, Hyesook	A61K 8/34	A61K 8/41
(31) 20150055410	B01F 33/84	A61Q 5/12
(32) 20.04.2015	(11) EP3463260	(11) EP3501489
(33) Korea (Republic)	(21) EP17732768.1	(21) EP17842531.0
(51) A61K 8/02	(47) 01.11.2023	(47) 01.11.2023
A61K 8/26	(87) EP2017063508	(87) CN2017073367
A61K 8/29	07.12.2017	01.03.2018
A61K 8/58	(22) 02.06.2017	(22) 13.02.2017
A61Q 19/02	(54) DISTRIBUTION SYSTEM OF A COSMETIC PRODUCT	(54) METHOD FOR STRENGTHENING AND REPAIRING HAIR, AND KIT THEREFOR
(11) EP4188309	(73) L'OREAL	(73) LIW Patent Company limited by guarantee
(21) EP21751538.6	(72) SAMAIN, Henri	(72) HOFFMANN, Katherina
(47) 01.11.2023	GIRON, Franck	(31) 201610701375
(87) EP2021070871	KERGOSIEN, Guillaume	(32) 22.08.2016
03.02.2022	(31) 1655053	(33) China
(22) 26.07.2021	(32) 02.06.2016	(51) A61K 8/44
(54) COSMETIC MASK FOR IMPROVING APPEARANCE OF SKIN	(33) France	A61K 8/46
(73) Unilever IP Holdings B.V.	(51) A61K 8/25	A61Q 5/02
(72) KULKARNI, Aditi, Jayavant	A61K 8/26	A61Q 5/12
MENG, Sheng	A61K 8/73	A61K 8/02
WASKAR, Princika	A61K 8/86	(11) EP3685819
(31) PCT/CN2020/105518	A61K 8/89	(21) EP20163749.3
	A61Q 15/00	(47) 01.11.2023
	A61K 8/34	(22) 15.12.2015
	(11) EP4146153	(54) SOLID ANHYDROUS COSMETIC COMPOSITION, PREPARATION

PROCESS, COSMETIC TREATMENT PROCESSES AND ASSOCIATED KIT	(32) 02.12.2015	19162908
(73) L'OREAL	(33) European Patent Office (EPO)	(32) 21.08.2019
(72) MATHONNEAU, Estelle	(51) A61K 8/9789	14.03.2019
PLOS, Grégory	A61K 8/60	(33) European Patent Office (EPO)
LEBON-HIPOLITE, Emmanuelle	A61K 36/28	European Patent Office (EPO)
D'ARRAS, Marie-Florence	A61K 36/63	(51) A61K 9/00
KERBOUSSA, Rafik	A61P 13/00	A61K 31/4035
STURLA, Jean-Michel	A61P 9/00	A61K 47/20
(31) 1462896	(11) EP3545947	A61P 17/06
1462911	(21) EP19163863.4	(11) EP3435973
(32) 19.12.2014	(47) 01.11.2023	(21) EP16798570.4
19.12.2014	(22) 19.03.2019	(47) 01.11.2023
(33) France	(54) COMPOSITION FOR THE REDUCTION OF PLASMA LEVELS OF URIC ACID	(87) IN2016000237
France	(73) Neilos S.r.l.	05.10.2017
(51) A61K 8/44	(72) DI MAIO, Umberto	(22) 30.09.2016
A61Q 1/02	(31) 201800003917	(54) APREMILAST PHARMACEUTICAL COMPOSITIONS
A61Q 1/06	(32) 26.03.2018	(73) Sarudbhava Formulations Private Limited
A61Q 1/10	(33) Italy	(72) VENKATA NOOKARAJU
A61K 8/81	(51) A61K 9/00	SREEDHARALA
A61K 8/06	A61K 9/08	(31) 201641011015
A61K 8/42	A61K 9/20	(32) 30.03.2016
(11) EP3723717	A61K 47/18	(33) India
(21) EP18833282.9	A61K 47/22	(51) A61K 9/00
(47) 01.11.2023	A61K 31/7048	A61K 38/18
(87) FR2018053267	A61K 31/198	A61K 38/39
20.06.2019	A61K 31/375	A61K 47/10
(22) 13.12.2018	A61K 31/4415	A61K 47/14
(54) WATER-IN-OIL EMULSION FOR SKIN OR LIP CARE OR MAKEUP	A61K 31/455	A61K 47/18
(73) LVMH Recherche	A61K 31/51	A61K 9/06
(72) BROSSARD, Fabienne	A61K 31/519	A61K 47/32
DE LA POTERIE, Valérie	(11) EP3685825	(11) EP3344229
(31) 1762186	(21) EP19200385.3	(21) EP16778453.7
(32) 14.12.2017	(47) 01.11.2023	(47) 01.11.2023
(33) France	(22) 30.09.2019	(87) IB2016055247
(51) A61K 8/60	(54) ISOQUERCITRIN COMPOSITIONS	09.03.2017
A61Q 5/12	(73) Alps Pharmaceutical Ind. Co., Ltd.	(22) 01.09.2016
(11) EP3934613	(72) KIDA, Hiroaki	(54) TOPICAL ERYTHROPOIETIN FORMULATIONS AND METHODS FOR IMPROVING WOUND HEALING WITH AND COSMETIC USE OF THE FORMULATIONS
(21) EP20705982.5	YAMAGUCHI, Naoto	(73) Remedor Biomed Ltd.
(47) 01.11.2023	ONO, Mitsunori	(72) HAMED, Saher
(87) EP2020054623	(31) 201962796126 P	(31) 201562214618 P
10.09.2020	(32) 24.01.2019	(32) 04.09.2015
(22) 21.02.2020	(33) United States of America	(33) United States of America
(54) RHAMNOLIPIDS AS DEPOSITION AID	(51) A61K 9/00	(51) A61K 9/00
(73) Evonik Operations GmbH	A61K 9/48	A61K 47/10
(72) KLEINEN, Jochen	A61K 9/70	A61K 47/44
BRANDT, Kathrin Daniela	A61K 31/196	A61K 47/24
SCHULZ, Meike	A61K 31/56	A61K 47/12
MUSS, Alina	A61K 31/58	A61K 31/53
(31) 19161191	A61J 3/07	A61P 1/08
(32) 07.03.2019	A61K 47/10	A61P 43/00
(33) European Patent Office (EPO)	A61K 47/32	A61K 47/26
(51) A61K 8/73	A61K 47/36	(11) EP3193830
A61Q 19/00	A61K 47/38	(21) EP15772163.0
A61K 8/97	A61M 31/00	(47) 01.11.2023
(11) EP3383362	(11) EP3937902	(87) US2015051050
(21) EP16805152.2	(21) EP20713215.0	24.03.2016
(47) 01.11.2023	(47) 01.11.2023	(22) 18.09.2015
(87) EP2016079632	(87) EP2020056934	(54) EMULSION FORMULATIONS OF APREPITANT
08.06.2017	17.09.2020	(73) Heron Therapeutics, Inc.
(22) 02.12.2016	(22) 13.03.2020	(72) OTTOBONI, Thomas, B.
(54) SKIN CARE COMPOSITION	(54) PHARMACEUTICAL DOSAGE FORM FOR APPLICATION TO MUCOUS MEMBRANES AND METHODS FOR PRODUCING SAME	HAN, Han
(73) Wild & Natural Ibiza Cosmetics Corp. S.L.	(73) EsoCap AG	(31) 201462052948 P
(72) LANWEHR, Christoph	(72) KRAUSE, Julius	
GARCIA, Alain	(31) 19192961	
(31) 15197494		

(32) 19.09.2014	25.06.2020	(22) 16.09.2016
(33) United States of America	(22) 17.12.2019	(54) COMBINATION OF TOPOISOMERASE- I INHIBITORS WITH IMMUNOTHERAPY IN THE TREATMENT OF CANCER
(51) A61K 9/00	(54) BLOCK COPOLYMER COMPRISING HYDROPHILIC FIRST BLOCK, HYDROPHOBIC SECOND BLOCK, AND	(73) Board of Regents, The University of Texas System
A61K 47/14	FUNCTIONAL GROUP CAPABLE OF	(72) HWU, Patrick
A61K 31/00	SPECIFICALLY BINDING TO THIOL	MCKENZIE, Jodi, A.
(11) EP3720417	(73) GI Cell, Inc.	MBOFUNG, Rina, N.
(21) EP18819291.8	(72) KIM, Won Jong	AMARIA, Rodabe
(47) 01.11.2023	JANG, Dong Hyun	MALU, Shruti
(87) US2018062764	(31) 20180163379	(31) 201562219548 P
13.06.2019	(32) 17.12.2018	(32) 16.09.2015
(22) 28.11.2018	(33) Korea (Republic)	(33) United States of America
(54) TOPICAL EMULSION COMPOSITION CONTAINING NONSTEROIDAL ANTI- INFLAMMATORY DRUG	(51) A61K 9/127	(51) A61K 9/14
(73) Johnson & Johnson Consumer Inc.	A61K 31/00	A61K 9/16
(72) BAGCHI, Saumitra	A61K 47/00	A61K 36/63
HASENMAYER, Donald	A61K 31/519	A61K 36/258
(31) 201762594066 P	A61P 35/00	A61K 36/484
(32) 04.12.2017	A61K 31/517	A61K 36/539
(33) United States of America	A61K 47/02	(11) EP3782609
(51) A61K 9/107	A61K 47/12	(21) EP20176250.7
A61K 47/06	(11) EP3570818	(47) 01.11.2023
A61K 31/436	(21) EP18741815.7	(22) 25.05.2020
A61K 31/573	(47) 01.11.2023	(54) PELLET FORMULATION CONTAINING SINGLE OR COMPLEX HERBAL EXTRACT AT HIGH CONCENTRATION AND MANUFACTURING METHOD
A61P 17/06	(87) SG2018050026	(73) Ku, Tae Hun
A61P 17/10	26.07.2018	(72) KU, Tae Hun
A61P 17/14	(22) 17.01.2018	YOON, Chil-Surk
A61P 17/12	(54) HYPERSTABILIZED LIPOSOMES INCREASE TARGETING OF MITOTIC CELLS	(31) 20190102483
A61P 31/10	(73) Temasek Life Sciences Laboratory Limited	(32) 21.08.2019
A61P 31/04	(72) NG, Chang Zhi Adrian	(33) Korea (Republic)
A61K 9/08	CHEONG, Shen-Yi Ian	(51) A61K 9/14
A61K 31/355	(31) 201762447498 P	A61K 9/20
A61P 17/00	(32) 18.01.2017	A61K 31/192
A61P 17/02	(33) United States of America	A61K 33/12
A61P 17/04	(51) A61K 9/127	B29B 9/06
A61P 29/00	A61K 31/337	B29C 48/00
A61P 31/12	A61P 31/04	B29C 48/05
A61P 37/06	A61P 31/12	B29B 9/00
A61P 37/08	A61P 35/00	(11) EP3256106
A61K 9/00	A61P 43/00	(21) EP16709489.5
(11) EP3311802	(11) EP4218730	(47) 01.11.2023
(21) EP17201124.9	(21) EP23165619.0	(87) GB2016050294
(47) 01.11.2023	(47) 01.11.2023	18.08.2016
(22) 24.05.2012	(22) 02.05.2005	(22) 09.02.2016
(54) TOPICAL PHARMACEUTICAL COMPOSITION BASED ON SEMIFLUORINATED ALKANES	(54) LIPOSOMES USEFUL FOR DRUG DELIVERY	(54) METHOD OF PREPARING AN EXTRUDED COMPOSITION
(73) DermalIQ Therapeutics, Inc.	(73) Ipsen Biopharm Ltd.	(73) Cubic Pharmaceuticals Ltd.
(72) GÜNTHER, Bernhard	(72) HONG, Keelung	Delta Pharmaceuticals Ltd.
THEISINGER, Bastian	DRUMMOND, Daryl, C.	(72) DOUROMIS, Dennis
THEISINGER, Sonja	KIRPOTIN, Dmitri, B.	MANIRUZZAMAN, Mohammed
SCHERER, Dieter	(31) 567921 P	BHATT, Saumil Kiritkumar
(31) 11167732	(32) 03.05.2004	ALI, Anwar
11167552	(33) United States of America	JANGRA, Arun
(32) 26.05.2011	(51) A61K 9/127	(31) 201517833
25.05.2011	A61K 39/395	201502077
(33) European Patent Office (EPO)	A61K 31/4745	(32) 08.10.2015
European Patent Office (EPO)	C07K 16/28	09.02.2015
(51) A61K 9/107	A61P 35/00	(33) United Kingdom
A61K 47/10	A61K 39/00	United Kingdom
A61K 47/34	A61K 9/00	(51) A61K 9/14
C08G 65/325	(11) EP3349731	A61K 9/20
C08G 65/329	(21) EP16847473.2	A61K 31/192
C08G 65/331	(47) 01.11.2023	A61P 29/00
(11) EP3900704	(87) US2016052303	
(21) EP19900252.8	23.03.2017	
(47) 01.11.2023		
(87) KR2019017899		



B29B 9/06	201962955062 P	UETOMO Atsuhiko
B29B 9/12	(32) 31.01.2020	(31) 2014261458
A61K 31/00	31.01.2020	(32) 25.12.2014
B29B 9/00	30.12.2019	(33) Japan
(11) EP3256105	30.12.2019	(51) A61K 9/20
(21) EP16709488.7	(33) United States of America	A61K 9/24
(47) 01.11.2023	United States of America	A61K 31/05
(87) GB2016050293	United States of America	A61K 31/352
18.08.2016	United States of America	(11) EP3920890
(22) 09.02.2016	(51) A61K 9/16	(21) EP20726699.0
(54) METHOD OF PRODUCING A	A61K 9/20	(47) 01.11.2023
GRANULATED COMPOSITION	A61K 31/506	(87) DK2020050100
(73) Cubic Pharmaceuticals Ltd.	A61P 9/00	22.10.2020
Delta Pharmaceuticals Ltd.	(11) EP3383372	(22) 17.04.2020
(72) DOUROUMIS, Dennis	(21) EP16816486.1	(54) AN ORAL CANNABINOID TABLET
MANIRUZZAMAN, Mohammed	(47) 01.11.2023	(73) NordicCan A/S
BHATT, Saumil Kiritkumar	(87) US2016063312	(72) BRUUN, Heidi Ziegler
ALI, Anwar	08.06.2017	BOESEN, Dorte Schackinger
JANGRA, Arun	(22) 22.11.2016	ERIKSEN, Ane
(31) 201517824	(54) SOLID DISPERSIONS COMPRISING A	WITTORFF, Helle
201502073	SGC STIMULATOR	(31) 3040513
(32) 08.10.2015	(73) Cycleron Therapeutics, Inc.	201916386477
09.02.2015	(72) DUNBAR, Craig Anthony	(32) 17.04.2019
(33) United Kingdom	SETHURAMAN, Vasu	17.04.2019
United Kingdom	HASHASH, Ahmad	(33) Canada
(51) A61K 9/16	(31) 201662359440 P	United States of America
(11) EP3773509	201562260910 P	(51) A61K 9/20
(21) EP19716580.6	(32) 07.07.2016	A61K 31/40
(47) 01.11.2023	30.11.2015	(11) EP3691614
(87) IB2019052676	(33) United States of America	(21) EP18788663.5
10.10.2019	United States of America	(47) 01.11.2023
(22) 01.04.2019	(51) A61K 9/16	(87) EP2018025254
(54) SPRAY DRYING PROCESS FOR	A61K 31/519	11.04.2019
LOW ASPECT RATIO PARTICLES	A61K 47/34	(22) 01.10.2018
COMPRISING POLY[(METHYL	A61P 25/18	(54) PHARMACEUTICAL COMPOSITION
METHACRYLATE)-CO-(METHACRYLIC	A61K 9/14	COMPRISING VILDAGLIPTIN AND
ACID)]	A61K 9/19	METHOD OF PREPARATION THEREOF
(73) Capsugel Belgium NV	(11) EP3772354	(73) Pharmathen S.A.
(72) SHEPARD, Kimberly	(21) EP20199849.9	(72) KARAVAS, Evangelos
MORGEN, Michael	(47) 01.11.2023	KOUTRIS, Efthymios
(31) 201862653852 P	(22) 10.04.2012	SAMARA, Vasiliki
(32) 06.04.2018	(54) RISPERIDONE SUSTAINED RELEASE	KOUTRI, Ionna
(33) United States of America	MICROSPHERE COMPOSITION	KALASKANI, Anastasia
(51) A61K 9/16	(73) Geneora Pharma (Shijiazhuang) Co., Ltd.	KAKOURIS, Andreas
A61K 9/20	(72) Sun, Kaoxiang	MPENEKIS, Vasilis
A61K 31/4375	Liang, Rongcai	(31) 20170100466
C07D 471/04	Wang, Qilin	(32) 03.10.2017
A61K 31/00	Wang, Wenyan	(33) Greece
A61P 35/00	Liu, Wanhui	(51) A61K 9/20
C07C 15/00	Li, Youxin	A61K 31/4523
A61K 45/06	(31) 201110102840	A61K 9/16
(11) EP4084778	(32) 25.04.2011	A61K 9/28
(21) EP20845854.7	(33) China	(11) EP3881833
(47) 01.11.2023	(51) A61K 9/20	(21) EP21160939.1
(87) US2020067557	A61K 9/00	(47) 01.11.2023
08.07.2021	(11) EP3238712	(22) 29.06.2016
(22) 30.12.2020	(21) EP15872473.2	(54) IMMEDIATE-RELEASE TABLETS
(54) AMORPHOUS KINASE INHIBITOR	(47) 01.11.2023	CONTAINING A DRUG AND
FORMULATIONS AND METHODS OF	(87) JP2015080342	PROCESSES FOR FORMING THE
USE THEREOF	30.06.2016	TABLETS
(73) Deciphera Pharmaceuticals, LLC	(22) 28.10.2015	(73) Genentech, Inc.
(72) KAUFMAN, Michael, D.	(54) VERY RAPIDLY DISINTEGRATING	(72) KOTHARI, Sanjeev
BONE, Scott	TABLET, AND METHOD FOR	MANTIK, Priscilla
BLOOM, Corey	PRODUCING SAME	MAUERER, Alexander
JORDAN, Fred	(73) Daicel Corporation	REZAEI, Hamid
(31) 202062968724 P	(72) HASHIKAWA Naohiro	(31) 201562186556 P
202062968695 P	OKABAYASHI Tomohito	(32) 30.06.2015
201962955073 P	TAKIGAWA Yoshihisa	(33) United States of America

(51) A61K 9/70 A61K 31/435 A61K 31/4375 A61K 31/4745 A61P 25/14	(54) ESTROGEN RECEPTOR LIGAND TREATMENT FOR NEURODEGENERATIVE DISEASES	A61P 29/00 A61K 47/10 A61K 47/18 A61K 47/38
(11) EP3784237	(73) The Regents of the University of California	(11) EP3568126
(21) EP19792500.1	(72) VOSKUHL, Rhonda R.	(21) EP18704591.9
(47) 01.11.2023	(31) 201462047285 P	(47) 01.11.2023
(87) US2019028900	201462044679 P	(87) IB2018050148
31.10.2019	(32) 08.09.2014	19.07.2018
(22) 24.04.2019	02.09.2014	(22) 10.01.2018
(54) TETRABENAZINE TRANSDERMAL DELIVERY DEVICE	(33) United States of America United States of America	(54) TAPENTADOL NASAL COMPOSITION
(73) Shinkei Therapeutics, Inc.	(51) A61K 31/065	(73) Torrent Pharmaceuticals Limited
(72) BORSADIA, Suresh	A61K 31/198	(72) ABRAHAM, Jaya
PATEL, Kalpana	A61K 31/216	MISHRA, Vivek
TAN, Hock S.	A61K 31/365	MITTAL, Vipul
(31) 201862662456 P	A61K 31/7048	CHAUDHARI, Kiran
(32) 25.04.2018	A61K 33/06	(31) 201721001203
(33) United States of America	A61K 36/19	(32) 11.01.2017
(51) A61K 9/70	A61K 9/20	(33) India
A61K 31/485	A61P 27/16	(51) A61K 31/164
A61K 47/10	A61P 43/00	A61K 31/4468
A61P 25/32	(11) EP3810106	A61K 31/485
A61P 25/36	(21) EP19748947.9	A61P 25/04
A61P 1/00	(47) 01.11.2023	(11) EP3297622
A61P 9/00	(87) IB2019055249	(21) EP16796016.0
A61P 11/00	26.12.2019	(47) 01.11.2023
A61P 17/02	(22) 21.06.2019	(87) IL2016050519
A61P 17/00	(54) COMPOSITION COMPRISING N-ACETYLCYSTEINE AND	24.11.2016
A61P 17/04	ANDROGRAPHOLIDE FOR USE	(22) 17.05.2016
A61P 17/06	IN THE PREVENTION AND/OR	(54) COMBINATIONS OF OXYCODONE
A61P 19/02	TREATMENT OF SENSORINEURAL	AND N-ACYLETHANOLAMINE
A61P 25/00	HEARING LOSS OF THE INNER EAR	PALMITOYLETHANOLAMINE FOR
A61P 25/24	(73) ALERE VITAM S.R.L.	REDUCING OPIOID-ASSOCIATED SIDE
A61P 31/12	(72) SCAPAGNINI, Giovanni	EFFECTS
A61P 35/00	PAVONE, Vito	(73) Scisparc Ltd
A61P 37/02	DAVINELLI, Sergio	(72) SHMULEWITZ, Ascher
(11) EP4051247	WILLCOX, Donald Graig	HABER, Elran
(21) EP20800265.9	(31) 201800006566	BRENER, Ephraim
(47) 01.11.2023	(32) 21.06.2018	(31) 201562164618 P
(87) GB2020052673	(33) Italy	(32) 21.05.2015
06.05.2021	(51) A61K 31/09	(33) United States of America
(22) 22.10.2020	A61P 15/00	(51) A61K 31/194
(54) TRANSDERMAL PATCH	A23L 33/10	A61P 9/10
(73) University of Sunderland	A23L 33/105	A61P 3/06
(72) DODOU, Kalliopi	(11) EP3517107	A61K 31/20
DOOLEY, Philippa	(21) EP17853177.8	A61K 31/22
(31) 201915627	(47) 01.11.2023	A61K 31/366
(32) 28.10.2019	(87) JP2017034361	A61K 31/40
(33) United Kingdom	29.03.2018	A61K 31/405
(51) A61K 31/05	(22) 22.09.2017	A61K 31/47
A61K 31/055	(54) AGENT FOR PREVENTING OR	A61K 31/505
A61K 31/00	AMELIORATING REDUCTION IN	A61P 43/00
A61K 45/06	OVARIAN FUNCTION	(11) EP3270909
A61K 38/21	(73) St. Marianna University School of Medicine	(21) EP16765682.6
A61K 38/13	Partners Co., Ltd.	(47) 01.11.2023
A61K 31/137	Okamoto, Naoki	(87) US2016022694
A61K 31/225	(72) OKAMOTO, Naoki	22.09.2016
C07C 39/42	KAWAMURA, Kazuhiro	(22) 16.03.2016
A61P 25/00	HOSOKAWA, Tadahiho	(54) FIXED DOSE COMBINATIONS
A61P 25/28	(31) 2016187572	COMPRISING ETC1002 AND ONE OR
(11) EP3782616	(32) 26.09.2016	MORE STATINS FOR TREATING OR
(21) EP20186857.7	(33) Japan	REDUCING CARDIOVASCULAR RISK
(47) 01.11.2023	(51) A61K 31/137	(73) Esperion Therapeutics, Inc.
(22) 01.09.2015	A61K 9/00	(72) NEWTON, Roger Schofield
	A61K 9/08	ROSENBERG, Noah Laban
		MACDOUGALL, Diane Elaine
		(31) 201662277403 P
		201562133739 P

(32) 11.01.2016	A61K 45/06	(31) 201910162554
16.03.2015	A61P 21/02	(32) 05.03.2019
(33) United States of America	A61P 25/16	(33) China
United States of America	A61P 25/28	
(51) A61K 31/216	A61P 27/02	(51) A61K 31/439
A61K 31/593	(11) EP3509585	A61K 31/551
A61K 31/353	(21) EP17849385.4	A61P 3/04
A61P 27/14	(47) 01.11.2023	(11) EP3446565
A61K 31/192	(87) US2017050055	(21) EP18198977.3
A61K 45/06	15.03.2018	(47) 01.11.2023
A61P 37/08	(22) 05.09.2017	(22) 23.08.2011
A61K 31/352	(54) TREATMENT OF SYMPTOMS	(54) METHODS FOR TREATING
A61K 36/53	RELATED TO NEURODEGENERATIVE	ANTIPSYCHOTIC-INDUCED WEIGHT
A61K 31/05	DISORDERS THROUGH	GAIN
A61K 9/48	PHARMACOLOGICAL DERMAL	(73) Alkermes Pharma Ireland Limited
A61K 9/20	ACTIVATION OF CRANIAL NERVES	(72) DEEVER, Daniel
A61K 9/24	(73) Glia, LLC	TODTENKOPF, Mark
A61K 36/535	(72) CHANG, Wei-wei	(31) 37612010 P
(11) EP3197556	SAWYER, Kenneth I.	(32) 23.08.2010
(21) EP15791737.8	(31) 201662384458 P	(33) United States of America
(47) 01.11.2023	(32) 07.09.2016	
(87) IB2015057267	(33) United States of America	(51) A61K 31/439
31.03.2016	(51) A61K 31/422	A61P 25/34
(22) 21.09.2015	A61P 35/02	(11) EP3411029
(54) COMPOSITION FOR THE	(11) EP3154536	(21) EP17704814.7
PREVENTION AND/OR TREATMENT	(21) EP15731531.8	(47) 01.11.2023
OF ALLERGY SYMPTOMS	(47) 01.11.2023	(87) GB2017050294
(73) NTC s.r.l.	(87) EP2015062807	10.08.2017
(72) BUSETTI, Cesare	17.12.2015	(22) 06.02.2017
NICCOLAI, Fabrizio	(22) 09.06.2015	(54) SUCCINATE SALT OF CYTISINE AND
ZELASCHI, Daniela	(54) XPO1 ANTAGONIST KPT-251 FOR THE	USE THEREOF
(31) MI20141641	TREATMENT OF MYELOYDYSPLASTIC	(73) Achieve Pharma UK Limited
(32) 22.09.2014	SYNDROME	(72) CLARKE, Anthony
(33) Italy	(73) Institut National de la Santé et de la	STEWART, Richard Allistair
(51) A61K 31/335	Recherche Médicale (INSERM)	WILLIS, Andrew Gareth
A61K 31/353	Fondation Imagine	(31) 201602145
A61K 31/343	Assistance Publique-Hôpitaux de Paris	(32) 05.02.2016
A61K 31/35	(APHP)	(33) United Kingdom
A61P 27/02	Université Paris Cité	(51) A61K 31/44
A61P 17/02	Centre National de la Recherche	A61K 31/506
A61P 9/10	Scientifique (CNRS)	A61K 31/519
A61P 9/00	(72) HERMINE, Olivier	A61K 31/53
A61P 3/04	ARLET, Jean-Benoit	A61K 31/55
A61K 39/395	GUILLEM, Flavia	A61K 31/553
(11) EP3380194	COURTOIS, Genevève	A61P 35/02
(21) EP16869113.7	FONTENAY, Michaela	(11) EP3618828
(47) 01.11.2023	(31) 14305873	(21) EP18727499.8
(87) US2016062851	(32) 10.06.2014	(47) 01.11.2023
01.06.2017	(33) European Patent Office (EPO)	(87) US2018031090
(22) 18.11.2016	(51) A61K 31/43	08.11.2018
(54) COMPOSITION FOR BLOCKING	A61K 31/546	(22) 04.05.2018
ANGIOGENESIS	A61K 31/545	(54) METHODS OF TREATMENT OF
(73) Indiana University Research &	A61K 31/54	MYELOPROLIFERATIVE NEOPLASM
Technology Corporation	A61P 31/04	(73) Memorial Sloan Kettering Cancer Center
(72) CORSON, Timothy William	A61P 31/00	(72) LEVINE, Ross, L.
SULAIMAN, Rania	(11) EP3919059	MCKENNEY, Anna, Sophia
(31) 201562259281 P	(21) EP20766484.8	(31) 201762535146 P
(32) 24.11.2015	(47) 01.11.2023	201762502456 P
(33) United States of America	(87) CN2020076032	(32) 20.07.2017
(51) A61K 31/352	10.09.2020	05.05.2017
A61P 25/00	(22) 20.02.2020	(33) United States of America
A61K 31/57	(54) COMPOSITION FOR TREATING	United States of America
A61K 9/00	CARBAPENEM ANTIBIOTIC-	
A61K 31/164	RESISTANT ACINETOBACTER	(51) A61K 31/445
A61K 31/473	BAUMANNII INFECTION	A61K 31/4985
A61K 31/565	(73) Guangzhou Century Clinical Research	A61P 25/00
A61K 31/568	Co., Ltd	(11) EP3838274
A61K 31/573	(72) SUN, Tianyu	(21) EP20215786.3
		(47) 01.11.2023
		(22) 26.01.2017

(54) PYRIDO[3',4':4,5]PYRROLO[1,2,3-DE]QUINOXALINE DERIVATIVE FOR USE IN THE TREATMENT OF CNS DISORDERS	(11) EP3773589 (21) EP19718531.7 (47) 01.11.2023 (87) US2019025655 10.10.2019	(32) 21.10.2019 (33) United States of America
(73) Intra-Cellular Therapies, Inc.	(22) 03.04.2019	(51) A61K 31/5383 A61K 31/7064 A61P 43/00
(72) LI, Peng YAO, Wei	(54) RET INHIBITOR FOR USE IN TREATING CANCER HAVING A RET ALTERATION	(11) EP4013420 (21) EP20764496.4 (47) 01.11.2023 (87) US2020046060 18.02.2021
(31) 201662440130 P 201662287264 P	(73) Blueprint Medicines Corporation (72) EVANS RAAB, Erica WOLF, Beni B.	(22) 13.08.2020 (54) METHOD OF BLOCKING OR AMELIORATING CYTOKINE RELEASE SYNDROME
(32) 29.12.2016 26.01.2016	(31) 201862741683 P 201862657605 P 201862656297 P 201862652284 P	(73) Rigel Pharmaceuticals, Inc. (72) TAYLOR, Vanessa ISSAKANI, Sarkiz YOUNG, Chi
(33) United States of America United States of America	(32) 05.10.2018 13.04.2018 11.04.2018 03.04.2018	(31) 201962886806 P (32) 14.08.2019 (33) United States of America
(51) A61K 31/445 A61P 13/12	(33) United States of America United States of America United States of America United States of America	(51) A61K 31/5517 A61K 31/573 A61K 9/00 A61P 25/08
(11) EP3630114 (21) EP18733415.6 (47) 01.11.2023 (87) US2018035032 06.12.2018	(51) A61K 31/517 A61K 31/7068 A61K 45/06 A61P 35/00	(11) EP3551189 (21) EP17878604.2 (47) 01.11.2023 (87) US2017065347 14.06.2018
(22) 30.05.2018	(11) EP3175853 (21) EP16203986.1 (47) 01.11.2023 (22) 04.08.2009	(22) 08.12.2017 (54) ALPRAZOLAM FOR USE IN TREATING EPILEPSY
(54) MIGALASTAT FOR TREATING FABRY PATIENTS HAVING RENAL IMPAIRMENT	(54) ANTINEOPLASTIC COMBINATIONS OF NERATINIB AND CAPECITABINE	(73) Alexza Pharmaceuticals, Inc. (72) CASSELLA, James GONG, Lily KAMEMOTO, Edwin S.
(73) Amicus Therapeutics, Inc.	(73) Wyeth LLC (72) WANG, Kenneth ZACHARCHUK, Charles BINLICH, Florence QUINN, Susan	(31) 201762485281 P 201662432353 P (32) 13.04.2017 09.12.2016 (33) United States of America United States of America
(72) CASTELLI, Jeff	(31) 172466 P 85913 P (32) 24.04.2009 04.08.2008	(51) A61K 31/7028 A61P 17/00 A61P 17/02 A61K 8/60 A61Q 19/00 A61K 9/00
(31) 201862626953 P 201762512458 P	(33) United States of America United States of America	(11) EP3522895 (21) EP17777921.2 (47) 01.11.2023 (87) EP2017075406 12.04.2018
(32) 06.02.2018 30.05.2017	(51) A61K 31/5377 A61P 35/00	(22) 05.10.2017 (54) USE OF 6-O-(C8-C20 ALKYL-ESTER) OF 1-O-(C1-C6 ALKYL)-SS-D-GLUCOSIDE AS AGENT FOR REGENERATION AND/OR CELLULAR REPARATION OF THE EPIDERMIS
(33) United States of America United States of America	(11) EP4048278 (21) EP20807558.0 (47) 01.11.2023 (87) US2020056408 29.04.2021	(73) Pierre Fabre Dermo-Cosmétique (72) DAUNES MARION, Sylvie GALLIANO, Marie Florence HERNANDEZ-PIGEON, H�el�ene POIGNY, St�ephane
(51) A61K 31/506 A61K 31/635 A61K 39/395 A61K 45/06 A61P 35/02 C07K 16/28	(22) 20.10.2020	(31) 1659616 (32) 05.10.2016 (33) France
(11) EP3897647 (21) EP19835803.8 (47) 01.11.2023 (87) IB2019061014 25.06.2020	(54) METHODS OF TREATING HEMATOLOGICAL MALIGNANCIES USING 2-(2,6-DIOXOPIPERIDIN-3-YL)-4-((2-FLUORO-4-((3-MORPHOLINOAZETIDIN-1-YL)METHYL)BENZYL)AMINO)ISOINDOLINE-1,3-DIONE	
(22) 18.12.2019	(73) Celgene Corporation	
(54) COMBINATIONS OF A HDM2-P53 INTERACTION INHIBITOR AND A BCL2 INHIBITOR AND THEIR USE FOR TREATING CANCER	(72) ANTON, Maria Soraya, Carrancio BUCHHOLZ, Tonia J. KASIBHATLA, Shailaja LOPEZ-GIRONA, Antonia NARLA, Rama, Krishna POURDEHNAD, Michael	
(73) Novartis AG	(31) 201962924028 P	
(72) GUERREIRO, Nelson HALILOVIC, Ensar JULLION, Astrid MEILLE, Christophe WANG, Youzhen FABRE, Claire		
(31) 201862782735 P 201862782730 P 201862782727 P		
(32) 20.12.2018 20.12.2018 20.12.2018		
(33) United States of America United States of America United States of America		
(51) A61K 31/506 A61K 45/06 A61P 35/04 A61P 35/00		

(51) A61K 31/7048 A61K 36/48 A61P 9/12 A61P 11/12 A61P 11/02 A61P 11/00 A61P 29/00 (11) EP3349748 (21) EP16845822.2 (47) 01.11.2023 (87) IB2016055565 23.03.2017 (22) 17.09.2016 (54) COMPOSITIONS COMPRISING FEENUGREEK EXTRACTS AND METHODS FOR PRODUCING THEM (73) Indus Biotech Private Limited (72) BHASKARAN, Sunil VISHWARAMAN, Mohan (31) 918MU2015 (32) 19.09.2015 (33) India	(33) United States of America United States of America (51) A61K 35/28 C12N 5/0775 C12N 5/02 A61L 27/38 A61P 3/10 A61P 9/00 A61P 17/00 A61P 17/02 A61P 17/14 A61P 27/02 A61P 29/00 A61P 31/04 A61P 37/02 (11) EP3226876 (21) EP15866203.1 (47) 01.11.2023 (87) RU2015000831 09.06.2016 (22) 30.11.2015 (54) STEM CELL CONDITIONED MEDIUM AND USES THEREOF (73) T-helper Cell Technologies LLC (72) SOKOLOV, Anatoliy Andreevich KOLESNIKOVA, Antonina Ivanovna DOVGIL, Andrei Igorevich (31) 2014148251 (32) 01.12.2014 (33) Russian Federation	TAMURA, Ryota (31) 2017223202 (32) 20.11.2017 (33) Japan (51) A61K 35/545 A61P 1/00 A61P 1/16 A61P 5/00 A61P 9/00 A61P 11/00 A61P 13/00 A61P 15/00 A61P 17/00 A61P 25/00 (11) EP3479833 (21) EP17820351.9 (47) 01.11.2023 (87) JP2017024246 04.01.2018 (22) 30.06.2017 (54) PROPHYLACTIC OR THERAPEUTIC AGENT FOR ORGAN FIBROSIS (73) Tohoku University (72) DEZAWA, Mari UNNO, Michiaki YAMAMOTO, Toshihiro SHINDO, Yasuhiro HARA, Hiroto MASUTOMI, Naoya (31) 2016132075 (32) 01.07.2016 (33) Japan
(51) A61K 31/78 C08G 59/17 C08J 7/04 C09D 7/63 (11) EP3824893 (21) EP20214006.7 (47) 01.11.2023 (22) 13.06.2017 (54) CROSSLINKABLE COATING COMPOSITIONS FORMULATED WITH DORMANT CARBAMATE INITIATOR (73) Elementis Specialties, Inc. (72) IJDO, Wouter CHEN, Yanhui DESHMUKH, Prashant GUPTA, Rajni HECK, James, A. HOYTE, Wayne GRAY, Maurice (31) 201662356918 P (32) 30.06.2016 (33) United States of America	(51) A61K 35/42 C12N 5/071 A61K 31/713 A61K 9/00 A61K 9/19 A61K 38/00 A61P 11/00 (11) EP3813858 (21) EP19826230.5 (47) 01.11.2023 (87) US2019039721 02.01.2020 (22) 28.06.2019 (54) THERAPEUTIC LUNG REPAIR BY INHALATION OF LUNG SPHEROID EXOSOMES (73) North Carolina State University (72) DINH, Phuong-Uyen CHENG, Ke (31) 201862691811 P (32) 29.06.2018 (33) United States of America	(51) A61K 35/744 A61K 35/745 A61K 35/747 A23L 33/00 A23L 33/135 A61P 25/22 (11) EP3478306 (21) EP17732952.1 (47) 01.11.2023 (87) EP2017066158 04.01.2018 (22) 29.06.2017 (54) NUTRITIONAL COMPOSITION COMPRISING A PROBIOTIC FOR THE PREVENTION AND/OR TREATMENT OF ANXIETY DISORDERS AND DEPRESSION IN A MAMMAL (73) Société des Produits Nestlé S.A. (72) BLANCHARD, Carine MITCHELL, Ellen, Siobhan NEMBRINI, Chiara SCHNEIDER, Nora (31) 16177649 (32) 01.07.2016 (33) European Patent Office (EPO)
(51) A61K 35/17 A61P 35/00 C07K 14/36 C07K 14/725 C07K 16/28 C12N 5/00 C12N 5/0783 (11) EP3877054 (21) EP19835949.9 (47) 01.11.2023 (87) US2019059946 14.05.2020 (22) 05.11.2019 (54) PROCESS FOR PRODUCING GENETICALLY ENGINEERED T CELLS (73) Juno Therapeutics, Inc. (72) COOPER, Sara COSSETTE, Daniel LARSON, Ryan TEOH, Jeffrey (31) 201962798457 P 201862756571 P (32) 29.01.2019 06.11.2018	(51) A61K 35/545 A61K 31/513 A61P 35/00 (11) EP3714894 (21) EP18878961.4 (47) 01.11.2023 (87) JP2018042629 23.05.2019 (22) 19.11.2018 (54) SUICIDE GENE THERAPEUTIC AGENT FOR BRAIN TUMORS USING PLURIPOTENT STEM CELL (73) Keio University (72) TODA, Masahiro OKANO, Hideyuki MIYOSHI, Hiroyuki	(51) A61K 36/185 A61P 17/16 A61K 31/355 (11) EP3043807 (21) EP14843688.4 (47) 01.11.2023 (87) US2014055657 19.03.2015 (22) 15.09.2014 (54) PREPARATION AND USE OF A COMPOSITION FOR PREVENTION

AND MITIGATION OF THE EFFECTS OF RADIATION	(33) Japan	(22) 21.09.2016
(73) BioVentures, LLC	(51) A61K 38/10	(54) USE OF A CYCLIC TRIPEPTIDE FOR IMPROVING CELLULAR ENERGY METABOLISM
Universidad Tecnica Particular de Loja	C07K 14/35	
United States Department Of Veterans Affairs	C07K 7/00	(73) Assistance Publique - Hôpitaux de Paris
(72) COMPADRE, Cesar	C07K 4/04	Université Paris Cité
BREEN, Philip	A61K 38/16	Institut National de la Santé et de la Recherche Médicale (INSERM)
AYKIN-BURNS, Nukhet	A61K 38/12	Centre National de la Recherche Scientifique
HAUER-JENSEN, Martin	A61K 38/00	(72) WOLF, Jean-Philippe
ENRIQUEZ, Raul G.	A61K 45/06	LOMBÈS, Anne
KHARADE, Sujay	A61P 1/04	BOMSEL, Morgane
MALAGON AVILÉS, Omar	A61P 3/10	(31) 1558899
ORDONEZ, Yadira	A61P 5/50	(32) 21.09.2015
OJEDA, Edgar	A61P 7/00	(33) France
THAKKAR, Shraddha	A61P 7/00	(51) A61K 38/16
PINEDA, E. Nathalie	A61P 43/00	A61K 39/02
JONES, Darin	A61P 19/02	A61K 39/39
(31) 201361877655 P	A61P 27/02	C12N 15/85
(32) 13.09.2013	A61P 33/00	(11) EP3512537
(33) United States of America	A61P 37/02	(21) EP16769929.7
(51) A61K 36/889	(11) EP3568148	(47) 01.11.2023
A61K 45/06	(21) EP18701789.2	(87) EP2016071775
A61K 31/20	(47) 01.11.2023	22.03.2018
A61K 31/202	(87) GB2018050072	(22) 15.09.2016
G01N 33/574	19.07.2018	(54) T-CELL IMMUNOTHERAPY
A23L 33/10	(22) 11.01.2018	(73) Elicera Therapeutics AB
A23L 33/115	(54) MYCOBACTERIA TUBERCULOSIS CHAPERONIN 60.1 PEPTIDES AND USES THEREOF	(72) YU, Di
A23L 33/12	(73) Immune Regulation Limited	ESSAND, Magnus
A23L 33/17	(72) LIGHTFOOT, Andrew	JIN, Chuan
A61K 31/66	COOPER, Nicola	RAMACHANDRAN, Mohanraj
A61K 31/685	(31) 201700557	MA, Jing
A61P 35/02	(32) 12.01.2017	(51) A61K 38/17
A61P 35/00	(33) United Kingdom	A61K 35/618
(11) EP2993980	(51) A61K 38/12	A61K 9/00
(21) EP14794747.7	A61K 38/16	A61K 9/06
(47) 01.11.2023	A61K 38/56	A61K 9/12
(87) US2014037514	C07K 14/415	A61K 9/70
13.11.2014	A61P 37/06	A61K 8/00
(22) 09.05.2014	(11) EP3431095	A61K 8/98
(54) LIPID SCAVENGING IN RAS CANCERS	(21) EP18172126.7	A61K 47/38
(73) Memorial Sloan Kettering Cancer Center	(47) 01.11.2023	A61K 47/10
The Trustees of Princeton University	(22) 21.12.2012	A61K 47/42
(72) RABINOWITZ, Joshua	(54) CYCLOTIDES AS	A61K 47/18
KAMPHORST, Jurre	IMMUNOSUPPRESSIVE AGENTS	A61P 17/00
CROSS, Justin	(73) Medizinische Universität Wien	A61P 17/02
THOMPSON, Craig	Universitätsklinikum Freiburg	A61P 17/04
(31) 201361822095 P	(72) GRUBER, Christian Werner	A61P 17/06
(32) 10.05.2013	GRÜNDEMANN, Carsten	A61P 29/00
(33) United States of America	(31) 12196918	A61P 31/22
(51) A61K 38/00	11195413	(11) EP3326639
A61P 27/02	(32) 13.12.2012	(21) EP15898538.2
A61P 27/04	22.12.2011	(47) 01.11.2023
(11) EP3284475	(33) European Patent Office (EPO)	(87) CN2015084492
(21) EP16780154.7	European Patent Office (EPO)	26.01.2017
(47) 01.11.2023	(51) A61K 38/12	(22) 20.07.2015
(87) JP2016062168	C07K 14/705	(54) MUSSEL ADHESIVE PROTEIN PRODUCT AND APPLICATIONS THEREOF IN SUPPRESSION OF SKIN INFLAMMATIONS
20.10.2016	C07K 5/12	(73) Jiangyin Bengt I. Samuelsson Institute of Life Science Co., Ltd.
(22) 15.04.2016	C07K 7/64	(72) SAMUELSSON, Ingemar, Bengt.
(54) AGENT FOR PREVENTION OR TREATMENT OF CORNEAL DISORDERS	A61P 15/08	GAO, Min
(73) The University of Tokyo	A61K 8/64	(51) A61K 38/20
Senju Pharmaceutical Co., Ltd.	(11) EP3352775	A61K 31/00
(72) USUI, Tomohiko	(21) EP16775555.2	A61K 35/17
YABUTA, Chiho	(47) 01.11.2023	
(31) 2015085010	(87) EP2016072476	
(32) 17.04.2015	30.03.2017	

A61P 37/02	A61K 31/37	(51) A61K 39/395
(11) EP3958887	A61K 31/433	A61P 35/00
(21) EP20720445.4	A61K 31/40	A61P 43/00
(47) 01.11.2023	A61K 31/517	C07K 16/28
(87) EP2020061254	A61K 45/06	C07K 16/46
29.10.2020	C07K 16/40	C12N 15/09
(22) 22.04.2020	C12N 15/15	(11) EP2752200
(54) MEDICAL USES FOR INDUCING OR	C12N 15/86	(21) EP12836146.6
RESTORING IMMUNE TOLERANCE	A61P 9/00	(47) 01.11.2023
(73) Institut National de la Santé et de la	A61P 43/00	(87) JP2012075043
Recherche Médicale (INSERM)	A61K 48/00	04.04.2013
Université Paris Cité	(11) EP3253406	(22) 28.09.2012
Fondation Imagine	(21) EP16747393.3	(54) ANTIGEN-BINDING MOLECULE
Assistance Publique-Hôpitaux de Paris	(47) 01.11.2023	INDUCING IMMUNE RESPONSE TO
(APHP)	(87) US2016016897	TARGET ANTIGEN
(72) ANDRE, Isabelle	11.08.2016	(73) Chugai Seiyaku Kabushiki Kaisha
ZUBER, Julien	(22) 05.02.2016	(72) IGAWA, Tomoyuki
SIX, Emmanuelle	(54) COMPOSITIONS FOR TREATING	MAEDA, Atsuhiko
DELVILLE, Marianne	GRANULOMATOSIS WITH	HARAYA, Kenta
CAVAZZANA, Marina	POLYANGIITIS	TACHIBANA, Tatsuhiko
(31) 19305520	(73) Canem Holdings, LLC	(31) 2011216958
(32) 23.04.2019	(72) Haeberle, Adam	(32) 30.09.2011
(33) European Patent Office (EPO)	(31) 201562112605 P	(33) Japan
(51) A61K 38/39	(32) 05.02.2015	(51) A61K 45/00
A61L 27/22	(33) United States of America	A61K 31/00
A61L 27/36	(51) A61K 39/002	A61P 25/24
A61L 27/26	A61K 39/015	G01N 33/487
A61F 13/02	A61K 39/29	G01N 33/50
A61K 9/70	A61K 39/39	G01N 33/68
A61P 17/02	(11) EP3125929	A61K 31/135
A61L 27/56	(21) EP15713532.8	A61K 31/4015
(11) EP3033099	(47) 01.11.2023	A61K 31/4184
(21) EP14836821.0	(87) EP2015057424	A61K 31/495
(47) 01.11.2023	08.10.2015	A61K 45/06
(87) AU2014050180	(22) 02.04.2015	(11) EP3636281
19.02.2015	(54) NOVEL METHODS FOR INDUCING AN	(21) EP18798176.6
(22) 13.08.2014	IMMUNE RESPONSE	(47) 01.11.2023
(54) REGENERATION OF DAMAGED	(73) GlaxoSmithKline Biologicals S.A.	(87) CN2018086043
TISSUE WITH TROPOELASTIN	(72) BALLOU, William Ripley Jr.	15.11.2018
(73) Allergan Pharmaceuticals International	DIDIERLAURENT, Arnaud, Michel	(22) 08.05.2018
Limited	VAN DER MOST, Robbert, Gerrit	(54) METHOD FOR TREATING
(72) WEISS, Anthony Steven	(31) 201405921	DEPRESSION, AND
(31) 2013903092	(32) 02.04.2014	PHARMACEUTICAL COMPOSITION
(32) 13.08.2013	(33) United Kingdom	(73) Zhejiang University
(33) Australia	(51) A61K 39/12	(72) HU, Hailan
(51) A61K 38/48	A61K 39/00	YANG, Yan
A61P 7/02	A61K 39/23	CUI, Yihui
(11) EP3395359	A61K 39/135	(31) 201710322646
(21) EP16874923.2	A61P 31/00	20171032266
(47) 01.11.2023	A61P 31/20	201710322647
(87) CN2016110448	(11) EP3355915	(32) 09.05.2017
22.06.2017	(21) EP16771050.8	09.05.2017
(22) 16.12.2016	(47) 01.11.2023	09.05.2017
(54) PLASMINOGEN FOR USE IN	(87) US2016051736	(33) China
PREVENTING OR TREATING ACUTE	06.04.2017	China
THROMBOSIS AND CHRONIC	(22) 14.09.2016	China
THROMBOSIS	(54) CANINE PARVOVIRUS (CPV) VIRUS-	(51) A61K 45/06
(73) Talengen International Limited	LIKE PARTICLE (VLP) VACCINES AND	C07D 471/04
(72) LI, Jinan	USES THEREOF	A61P 37/02
(31) PCT/CN2015/097941	(73) Boehringer Ingelheim Animal Health USA	(11) EP3240572
(32) 18.12.2015	Inc.	(21) EP15875975.3
(33) World Intellectual Property Office (WIPO)	(72) DAVID, Frederic	(47) 01.11.2023
(51) A61K 38/55	HANNAS-DJEBBARA, Zahia	(87) US2015066238
A61K 38/06	POULET, Herve	07.07.2016
A61K 38/07	MINKE, Jules, Maarten	(22) 17.12.2015
A61K 38/08	(31) 201562234196 P	(54) BENZAMIDE IMIDAZOPYRAZINE BTK
A61K 38/57	(32) 29.09.2015	INHIBITORS
A61K 31/352	(33) United States of America	(73) Merck Sharp & Dohme LLC

(72) LIU, Jian	United States of America	(11) EP3906066
KOZLOWSKI, Joseph, A.	United States of America	(21) EP20704633.5
ALHASSAN, Abdul-Basit	(51) A61K 47/54	(47) 01.11.2023
BOGA, Sobhana Babu	A61K 45/06	(87) US2020012131
GAO, Xiaolei	A61P 1/16	09.07.2020
GUIADEEN, Deodialsingh	(11) EP3538158	(22) 03.01.2020
WANG, Jyhshing	(21) EP17830003.4	(54) GENE THERAPY CONSTRUCTS FOR
YU, Wensheng	(47) 01.11.2023	TREATING WILSON DISEASE
CAI, Jiaqiang	(87) IB2017001521	(73) Ultragenyx Pharmaceutical Inc.
WANG, Dahai	17.05.2018	(72) LIVINGSTON, Christine
WU, Hao	(22) 10.11.2017	WADSWORTH, Samuel
YANG, Chundao	(54) TREATMENT FOR FIBROSIS	(31) 201962834830 P
LIU, Shilan	(73) Galmed Research and Development Ltd.	201962788324 P
(31) PCT/CN2014/095763	(72) HAYARDENY-NISSIMOIV, Liat	(32) 16.04.2019
(32) 31.12.2014	GORFINE, Tali	04.01.2019
(33) World Intellectual Property Office (WIPO)	BAHARAFF, Allen	(33) United States of America
(51) A61K 47/30	MATO DE LA PAZ, José, M.	United States of America
A61K 9/127	(31) 201762475129 P	(51) A61K 49/00
A61K 39/38	201662420012 P	A61P 35/00
A61K 31/445	201662420017 P	C12Q 1/68
(11) EP2704750	201662420009 P	(11) EP3651807
(21) EP12777664.9	(32) 22.03.2017	(21) EP18832584.9
(47) 01.11.2023	10.11.2016	(47) 01.11.2023
(87) US2012035555	10.11.2016	(87) US2018042177
01.11.2012	10.11.2016	17.01.2019
(22) 27.04.2012	(33) United States of America	(22) 13.07.2018
(54) TOLEROGENIC SYNTHETIC	United States of America	(54) PHOSPHOROTHIOATE-CONJUGATED
NANOCARRIERS FOR ANTIGEN-	United States of America	PEPTIDES AND METHODS OF USING
SPECIFIC DELETION OF T EFFECTOR	United States of America	THE SAME
CELLS	(51) A61K 48/00	(73) City of Hope
(73) Selecta Biosciences, Inc.	C07H 21/04	(72) HERRMANN, Andreas
(72) FRASER, Christopher	C12N 15/11	YU, Hua
KISHIMOTO, Takashi Kei	C12N 15/113	NAGAO, Toshikage
MALDONADO, Roberto, A.	(11) EP3760234	(31) 201762532147 P
(31) 201161531168 P	(21) EP20171780.8	(32) 13.07.2017
201161531204 P	(47) 01.11.2023	(33) United States of America
201161531215 P	(22) 13.09.2004	(51) A61K 49/18
201161531209 P	(54) RNA INTERFERENCE FOR THE	(11) EP2974745
201161531164 P	TREATMENT OF GAIN-OF-FUNCTION	(21) EP15176539.3
201161531180 P	DISORDERS	(47) 01.11.2023
201161531175 P	(73) University of Massachusetts	(22) 13.07.2015
201161531147 P	(72) ARONIN, Neil	(54) METHOD FOR IMMUNE CELL
201161531194 P	ZAMORE, Phillip, D.	TRACKING
201161531153 P	(31) 502678 P	(73) MegaPro Biomedical Co., Ltd.
201161513514 P	(32) 12.09.2003	(72) CHEN, Chih-Lung
201161480946 P	(33) United States of America	HSIEH, Wen-Yuan
(32) 06.09.2011	(51) A61K 48/00	LIN, Chen-Hsuan
06.09.2011	C12N 15/11	WANG, Shian-Jy
06.09.2011	C12N 15/00	(31) 201462024225 P
06.09.2011	A61K 38/00	(32) 14.07.2014
06.09.2011	A61P 9/10	(33) United States of America
06.09.2011	(11) EP3512567	(51) A61L 2/00
06.09.2011	(21) EP17851710.8	(11) EP3238747
06.09.2011	(47) 01.11.2023	(21) EP17168002.8
06.09.2011	(87) US2017052035	(47) 01.11.2023
06.09.2011	22.03.2018	(22) 25.04.2017
29.07.2011	(22) 18.09.2017	(54) METHOD FOR DETECTING MOISTURE
29.04.2011	(54) CELL-SPECIFIC EXPRESSION OF	IN A VACUUM CHAMBER
(33) United States of America	MODRNA	(73) ASP Global Manufacturing GmbH
United States of America	(73) Icahn School of Medicine at Mount Sinai	(72) TRUONG, Doug Vo
United States of America	(72) ZANGI, Lior	MORRISON, Todd
United States of America	MAGADUM, Ajit	(31) 201615139032
United States of America	(31) 201662395701 P	(32) 26.04.2016
United States of America	(32) 16.09.2016	(33) United States of America
United States of America	(33) United States of America	(51) A61L 2/08
United States of America	(51) A61K 48/00	A61L 29/14
United States of America	C12N 15/86	A61M 25/00
United States of America	C12N 9/64	(11) EP3721910



(21) EP20178588.8	(87) IL2019050194	(72) DANIEL, John
(47) 01.11.2023	22.08.2019	GRIFFITHS, Sarah
(22) 20.02.2018	(22) 18.02.2019	BERG, Richard A.
(54) RADIATION ACTIVATED GELS THAT RELEASE FLUIDS AND ASSEMBLIES CONTAINING THE SAME	(54) IMPLANTS WITH ENHANCED SHELL ADHESION	(31) 201662334440 P
(73) Hollister Incorporated	(73) G&G Biotechnology Ltd.	201562220227 P
(72) FARRELL, David J.	(72) GOVREEN-SEGAL, Dael	(32) 10.05.2016
PANESAR, Satwinder S.	DVIR, Haim	17.09.2015
NAUGHTON, Vincent	SCHULTZ, Wesley, Allen	(33) United States of America
O'BRIEN, Daniel E.	(31) 201862631937 P	United States of America
(31) 201762545730 P	(32) 18.02.2018	<hr/>
201762461730 P	(33) United States of America	(51) A61L 27/38
(32) 15.08.2017	(51) A61L 27/18	A61L 27/54
21.02.2017	A61L 27/56	A61P 1/18
(33) United States of America	(11) EP3846864	(11) EP3733219
United States of America	(21) EP18793263.7	(21) EP20182376.2
<hr/>	(47) 01.11.2023	(47) 01.11.2023
(51) A61L 2/10	(87) IB2018056803	(22) 13.03.2014
(11) EP3964240	12.03.2020	(54) METHOD OF TREATING PANCREATIC CONDITIONS BY TRANSPLANTATION OF STEM CELLS INTO BILE DUCT WALLS
(21) EP21181687.1	(22) 06.09.2018	(73) University of North Carolina at Chapel Hill
(47) 01.11.2023	(54) MEDICAL DEVICE FOR USE IN THE REGENERATION OF AN INJURED NERVE	University of Miami
(22) 25.06.2021	(73) Bio-On S.p.A.	Sapienza Universita di Roma
(54) METHODS AND SYSTEMS FOR UV-BASED AIRCRAFT DECONTAMINATION	(72) GEUNA, Stefano	(72) REID, Lola McAdams
(73) The Boeing Company	MONACO, Ilaria	WANG, Yunfang
(72) CHILDRESS, Jamie J.	MATURI, Mirko	GERBER, David, A.
(31) 202117343425	SAETTONI, Paolo	LANZONI, Giacomo
202063044624 P	CIFELLI, Mario	INVERARDI, Luca
(32) 09.06.2021	COMES FRANCHINI, Mauro	DOMINGUEZ-BENDALA, Juan
26.06.2020	<hr/>	ALVARO, Domenico
(33) United States of America	(51) A61L 27/36	CARDINALE, Vincenzo
United States of America	A61L 27/38	GAUDIO, Eugenio
<hr/>	A61L 27/54	CARPINO, Guido
(51) A61L 2/10	A61K 9/133	(31) 201414207191
A61L 2/28	A61P 35/00	201361780644 P
A61L 2/24	A61P 17/02	(32) 12.03.2014
(11) EP3936158	(11) EP3423038	13.03.2013
(21) EP21181600.4	(21) EP17760776.9	(33) United States of America
(47) 01.11.2023	(47) 01.11.2023	United States of America
(22) 24.06.2021	(87) US2017020360	<hr/>
(54) UV EMITTER FOR DISINFECTION OF SPACES	08.09.2017	(51) A61L 27/38
(73) Specialist Health Solutions Limited	(22) 02.03.2017	A61L 27/56
(72) KARITONAS, Tautvydas	(54) MATRIX BOUND NANOVESICLES AND THEIR USE	A61L 27/58
(31) 202010591	(73) University of Pittsburgh- Of the Commonwealth System of Higher Education	A61L 27/26
(32) 09.07.2020	(72) BADYLAK, Stephen, Francis	(11) EP3939628
(33) United Kingdom	HULEIHEL, Luai	(21) EP20210715.7
<hr/>	HUSSEY, George, S.	(47) 01.11.2023
(51) A61L 9/04	NARANJO GUTIERREZ, Juan, Diego	(22) 30.11.2020
(11) EP3675918	(31) 201662302626 P	(54) A READY TO USE BIODEGRADABLE AND BIOCOMPATIBLE CELL-BASED NERVE CONDUIT FOR NERVE INJURY AND A METHOD OF PREPARATION THEREOF
(21) EP18768927.8	(32) 02.03.2016	(73) Datt Life Sciences Private Limited
(47) 01.11.2023	(33) United States of America	(72) Datt, Rajan
(87) FR2018052073	(51) A61L 27/36	Pandey, Siddharth
07.03.2019	A61L 27/56	Meena, Poonam
(22) 17.08.2018	A61L 27/60	Kumar, Mukesh
(54) FRAGRANCE DELIVERY SYSTEM	A61K 35/50	Khatri, Nitin
(73) ScentyS	A61L 15/40	Kumar Nagar, Rakesh
(72) SUISSA, David	A61P 17/02	(31) 202011030484
MARTIN, Laurent	(11) EP3998089	(32) 17.07.2020
(31) 1757976	(21) EP21194007.7	(33) India
(32) 30.08.2017	(47) 01.11.2023	<hr/>
(33) France	(22) 16.09.2016	(51) A61L 27/46
<hr/>	(54) COMPOSITIONS DERIVED FROM PLACENTA AND METHODS OF PRODUCING THE SAME	A61L 27/24
(51) A61L 27/18	(73) Stimlabs LLC	A61L 27/26
A61L 27/52		A61L 27/36
A61L 27/50		A61L 27/50
A61F 2/12		
(11) EP3752097		
(21) EP19753959.6		
(47) 01.11.2023		

A61L 27/54	(72) EHLERT, Hilmar	(11) EP3458127
A61F 2/28	(31) 16189671	(21) EP17724536.2
(11) EP3445413	(32) 20.09.2016	(47) 01.11.2023
(21) EP17786701.7	(33) European Patent Office (EPO)	(87) EP2017061734
(47) 01.11.2023	(51) A61M 1/00	23.11.2017
(87) US2017028802	A61F 5/44	(22) 16.05.2017
26.10.2017	A61G 9/02	(54) MEDICAL DEVICE HAVING AN
(22) 21.04.2017	(11) EP3500316	HYDROPHOBIC FILTER MEMBRANE
(54) AN OSTEOIMPLANT COMPRISING AN	(21) EP17841739.0	AND HAVING A FRONT-SIDE
INSOLUBLE FIBROUS POLYMER	(47) 01.11.2023	SUPPORTING STRUCTURE
(73) Warsaw Orthopedic, Inc.	(87) MY2017000030	THEREFOR
(72) VICKERS, Scott, M.	22.02.2018	(73) Fresenius Medical Care Deutschland
SCIFERT, Jeffrey, L.	(22) 17.08.2017	GmbH
GILLISSEN, Mirian	(54) A SYSTEM FOR COLLECTING URINE	(72) WEIS, Manfred
BILLY, Didier	(73) Singh, Gurmit	LAUER, Martin
(31) 201615135997	(72) Singh, Gurmit	(31) 102016109196
(32) 22.04.2016	(31) PI2016703037	(32) 19.05.2016
(33) United States of America	(32) 19.08.2016	(33) Germany
(51) A61L 28/00	(33) Malaysia	(51) A61M 1/36
A61K 36/232	(51) A61M 1/00	A61M 1/18
A61K 36/30	A61M 3/02	F28D 7/10
A61K 36/185	F04B 43/12	F28F 21/06
(11) EP4104875	(11) EP3610899	(11) EP3100751
(21) EP21893116.0	(21) EP19199460.7	(21) EP15742888.9
(47) 01.11.2023	(47) 01.11.2023	(47) 01.11.2023
(87) CN2021109804	(22) 18.09.2017	(87) JP2015050244
03.11.2022	(54) EXTRACTION AND SUPPLY DEVICE	06.08.2015
(22) 30.07.2021	WITH DRIVE UNIT AND CONNECTION	(22) 07.01.2015
(54) CORROSION-RESISTANT STOMA	PIECE	(54) METHOD FOR MANUFACTURING
LEAKAGE-PROOF PASTE CAPABLE	(73) Medela Holding AG	HEAT EXCHANGER AND HEAT
OF ACHIEVING SELF-REGULATION	(72) EHLERT, Hilmar	EXCHANGER
OF STRENGTH AND PREPARATION	BANNWART, Lukas	(73) Terumo Kabushiki Kaisha
METHOD THEREFOR	(31) 16189674	(72) SAITO, Takashi
(73) ZHENDE MEDICAL CO., LTD.	(32) 20.09.2016	(31) 2014018076
(72) FENG, Lanqi	(33) European Patent Office (EPO)	(32) 31.01.2014
LU, Jianguo	(51) A61M 1/04	(33) Japan
(31) 202110459156	A61B 17/34	(51) A61M 1/38
(32) 27.04.2021	A61M 27/00	A61M 1/34
(33) China	A61M 25/01	(11) EP3593830
(51) A61M 1/00	A61M 25/06	(21) EP19185910.7
(11) EP3622976	A61M 25/00	(47) 01.11.2023
(21) EP19188307.3	A61M 39/24	(22) 12.07.2019
(47) 01.11.2023	(11) EP2992914	(54) SYSTEM AND METHOD OF
(22) 02.11.2011	(21) EP14183555.3	DYNAMICALLY ADJUSTING FLUID
(54) SYSTEMS AND METHODS FOR	(47) 01.11.2023	FLOW RATE IN RESPONSE TO
CONTROLLING OPERATION OF A	(22) 04.09.2014	PRESSURE
REDUCED PRESSURE THERAPY	(54) A transcutaneous device for removal of	(73) Fenwal, Inc.
SYSTEM	fluid from a body	(72) PLANAS, Samantha M.
(73) Smith & Nephew plc	(73) Safeguard Medical Technologies Limited	MEISELMAN, Hannah
(72) ALLEN, Julie	(72) Russell, Malcolm Quentin	(31) 201862697689 P
ASKEM, Ben, Alan	Real, Keith Joseph	(32) 13.07.2018
COLLINSON, Sarah, Jenny	(51) A61M 1/06	(33) United States of America
HUGHEY, Richard	(11) EP4025270	(51) A61M 5/00
NICOLINI, Derek	(21) EP20761289.6	(11) EP3585457
(31) 201161511950 P	(47) 01.11.2023	(21) EP18705652.8
(32) 26.07.2011	(87) EP2020074198	(47) 01.11.2023
(33) United States of America	11.03.2021	(87) EP2018054323
(51) A61M 1/00	(22) 31.08.2020	30.08.2018
(11) EP3515519	(54) ELECTRIC BREAST PUMP	(22) 22.02.2018
(21) EP17769056.7	(73) Koninklijke Philips N.V.	(54) PACKAGING ASSEMBLY
(47) 01.11.2023	(72) HESEN, Robertus, Gerardus, Johannes,	(73) Sanofi
(87) EP2017073466	Antonius	(72) KIETZMANN, Hardy
29.03.2018	(31) 19195099	(31) 17305210
(22) 18.09.2017	(32) 03.09.2019	(32) 24.02.2017
(54) DEVICE FOR SIPHONING BODILY	(33) European Patent Office (EPO)	(33) European Patent Office (EPO)
FLUIDS AND FOR DELIVERING A	(51) A61M 1/30	(51) A61M 5/00
SUBSTANCE	A61M 1/36	A61M 5/178
(73) Medela Holding AG		A61M 5/168

A61K 51/12	MUMPOWER, Mariano	(11) EP3606583
A61M 5/145	GORDON, Danica	(21) EP18718599.6
A61M 5/14	(31) 201762545693 P	(47) 01.11.2023
(11) EP3624873	201662409044 P	(87) FR2018050780
(21) EP18723879.5	(32) 15.08.2017	11.10.2018
(47) 01.11.2023	17.10.2016	(22) 29.03.2018
(87) EP2018063158	(33) United States of America	(54) SYRINGE WITH OPTIMISED CENTRE
22.11.2018	United States of America	OF GRAVITY
(22) 18.05.2018	(51) A61M 5/158	(73) Laboratoires Vivacy
(54) INSTALLATION FOR THE INJECTION	A61M 5/32	(72) HEIM, Ludovic
OF A RADIOACTIVE PRODUCT INTO	A61B 5/15	GANTIN, Denis
A PATIENT AND METHOD FOR THE	A61B 5/153	(31) 1752876
IMPLEMENTATION THEREOF	(11) EP4043048	(32) 04.04.2017
(73) LEMER PAX	(21) EP19948772.9	(33) France
(72) LEMER, Pierre-Marie	(47) 01.11.2023	(51) A61M 5/31
SETOAIN, Xavier	(87) CN2019112210	A61M 5/315
(31) 1754469	15.04.2021	A61B 17/00
(32) 19.05.2017	(22) 21.10.2019	A61M 5/178
(33) France	(54) SAFE EJECTION INTRAVENOUS	(11) EP3439716
(51) A61M 5/14	NEEDLE	(21) EP17715035.6
A61M 5/142	(73) Jiangsu Kangbao Medical Equipment	(47) 01.11.2023
A61M 5/168	Co., Ltd.	(87) US2017024114
(11) EP3407936	(72) LIU, Hui	12.10.2017
(21) EP17704621.6	FAN, Wenbin	(22) 24.03.2017
(47) 01.11.2023	(31) 201910963151	(54) ASPIRATION AND INJECTION DEVICE
(87) US2017015382	(32) 11.10.2019	(73) Allergan, Inc.
03.08.2017	(33) China	(72) MANDAROUX, Bastien
(22) 27.01.2017	(51) A61M 5/178	WU, Shushuo
(54) APPARATUS FOR MONITORING,	A61M 5/20	HUSSEY, Lance
REGULATING, OR CONTROLLING	A61M 5/24	(31) 201662320281 P
FLUID FLOW	A61M 5/315	(32) 08.04.2016
(73) DEKA Products Limited Partnership	(11) EP3630231	(33) United States of America
(72) DALE, James, D.	(21) EP18731686.4	(51) A61M 5/315
FICHERA, Stephen, L.	(47) 01.11.2023	(11) EP3795194
GRAY, Larry	(87) US2018034690	(21) EP20200449.5
KAMEN, Dean	29.11.2018	(47) 01.11.2023
LANIGAN, Matthew	(22) 25.05.2018	(22) 05.02.2013
MORGAN, Frederick	(54) SMART SYRINGE USING NFC	(54) INJECTION DEVICE FOR
VAN DER MERWE, Dirk, A.	COMMUNICATION AND CAPACITANCE	ADMINISTERING OR TRANSPORTING
YOO, Brian, H.	DETECTION	FLUID PRODUCT
(31) 201662341396 P	(73) West Pharmaceutical Services, Inc.	(73) Ypsomed AG
201662288132 P	(72) FAUGHT, Stacy	(72) Burren, Stefan
(32) 25.05.2016	SANTOS, Jorge	Hirschel, Jürg
28.01.2016	(31) 201762511114 P	Moser, Ulrich
(33) United States of America	(32) 25.05.2017	(31) 1772012
United States of America	(33) United States of America	(32) 09.02.2012
(51) A61M 5/145	(51) A61M 5/20	(33) Switzerland
A61M 5/24	A61M 5/32	(51) A61M 11/00
A61M 5/315	A61M 5/24	A24F 47/00
(11) EP3525840	(11) EP3302641	A61M 15/06
(21) EP17791847.1	(21) EP16728650.9	(11) EP3439724
(47) 01.11.2023	(47) 01.11.2023	(21) EP17778789.2
(87) US2017056731	(87) EP2016062452	(47) 01.11.2023
26.04.2018	08.12.2016	(87) IL2017050402
(22) 16.10.2017	(22) 02.06.2016	12.10.2017
(54) FLUID INJECTOR WITH SYRINGE	(54) AUDIBLE INDICATOR FOR A DRUG	(22) 03.04.2017
ENGAGEMENT MECHANISM	DELIVERY DEVICE	(54) A MOBILE INHALER AND A
(73) Bayer Healthcare LLC	(73) Sanofi-Aventis Deutschland GmbH	CONTAINER FOR USING THEREWITH
(72) COWAN, Kevin	(72) MOSEBACH, Carsten	(73) Nexvap SA
SPOHN, Michael	KEMP, Thomas Mark	(72) MARMUR, Abraham
TUCKER, Barry	HODGSON, Louise	LACOUR-GAYET, Philippe
DEDIG, James	TIMMIS, William	LACOUR-GAYET, Julien
JOHNSTON, Gregory	(31) 15170587	NEDIVI, Dror
MCDERMOTT, Michael	(32) 03.06.2015	GUIDETTI, Francesco
BERRY, David	(33) European Patent Office (EPO)	SHPIRO, Zeev
STEEGE, Adam	(51) A61M 5/31	(31) 17155046
LIPFORD, Keith	A61K 31/728	16187618
LARROW, Chet	A61K 9/00	16176635

16163666	(54) PORTABLE THERMOELECTRIC COOLING DEVICE FOR THERAPEUTIC CRANIOCERVICAL HYPOTHERMIA	EACOCK, Graham MURPHY, John
(32) 07.02.2017		(31) 50933 P
07.09.2016		(32) 06.05.2008
28.06.2016	(73) THE REGENTS OF THE UNIVERSITY OF CALIFORNIA	(33) United States of America
04.04.2016		
(33) European Patent Office (EPO)	(72) VERGARA, Julio L.	(51) A61M 25/01
European Patent Office (EPO)	SERRANO CARMONA, Raul	A61M 25/00
European Patent Office (EPO)	RESTREPO, Lucas	A61B 90/96
European Patent Office (EPO)	(31) 201361884932 P	A61B 90/00
(51) A61M 16/00	(32) 30.09.2013	(11) EP3386580
A61M 16/06	(33) United States of America	(21) EP16820436.0
A61M 16/10	(51) A61M 25/00	(47) 01.11.2023
A61M 16/16	(11) EP3972679	(87) US2016065655
A61M 16/12	(21) EP20753615.2	15.06.2017
A61M 16/20	(47) 01.11.2023	(22) 08.12.2016
(11) EP3875134	(87) US2020042869	(54) CATHETER WITH A LUMEN SHAPED AS AN IDENTIFICATION SYMBOL
(21) EP21165439.7	28.01.2021	
(47) 01.11.2023	(22) 21.07.2020	(73) Medtronic Vascular Inc.
(22) 19.06.2015	(54) MULTI-LUMEN CATHETER AND METHOD OF ITS MANUFACTURE	(72) TUOHY, John
(54) PATIENT INTERFACE FOR RESPIRATORY THERAPY	(73) St. Jude Medical, Cardiology Division, Inc.	WARD, Sean
(73) ResMed Pty Ltd	(72) SUTERMEISTER, Derek	(31) 201562265237 P
(72) CREUSOT, David	TEGG, Troy T.	(32) 09.12.2015
HOLLEY, Liam	(31) 201962877499 P	(33) United States of America
KLASEK, Paul Jan	(32) 23.07.2019	(51) A61M 25/06
MALOUF, Gordon Joseph	(33) United States of America	A61M 25/01
SCHINDHELM, Klaus Henry	(51) A61M 25/00	(11) EP3295985
YANG, Quangang	A61M 39/00	(21) EP16796343.8
(31) 201462014225 P	A61M 39/16	(47) 01.11.2023
(32) 19.06.2014	A61M 39/10	(87) JP2016063913
(33) United States of America	F16L 35/00	24.11.2016
(51) A61M 16/00	A61M 25/06	(22) 10.05.2016
A61M 16/20	A61M 25/01	(54) CATHETER ASSEMBLY
A61M 16/08	A61M 39/12	(73) Terumo Kabushiki Kaisha
A61M 16/12	(11) EP3687615	(72) ISHIDA, Masahiro
(11) EP4007628	(21) EP18778730.4	(31) 2015100353
(21) EP20749843.7	(47) 01.11.2023	(32) 15.05.2015
(47) 01.11.2023	(87) US2018049725	(33) Japan
(87) EP2020071292	04.04.2019	(51) A61M 25/06
04.02.2021	(22) 06.09.2018	A61M 25/09
(22) 28.07.2020	(54) PERIPHERAL INTRAVENOUS CATHETERS HAVING FLOW DIVERTING FEATURES	A61M 39/02
(54) RESPIRATORY GAS VALVE ASSEMBLY THROUGH WHICH RESPIRATORY GAS CAN FLOW IN A BIDIRECTIONAL MANNER, AND VENTILATION DEVICE COMPRISING SUCH A VALVE ASSEMBLY	(73) Becton, Dickinson and Company	A61M 39/06
(73) Hamilton Medical AG	(72) BIHLMAIER, Bryan	A61M 39/24
(72) LIPINSKI, Kerstin	BURKHOLZ, Jonathan Karl	(11) EP4051360
DENNEHY, Michael	WANG, Bin	(21) EP20811439.7
HALTNER, Kim	(31) 201715716812	(47) 01.11.2023
(31) 102019121712	(32) 27.09.2017	(87) IB2020060032
102019120869	(33) United States of America	06.05.2021
(32) 12.08.2019	(51) A61M 25/01	(22) 26.10.2020
01.08.2019	A61B 17/00	(54) BIOMEDICAL DEVICE FOR ARTERIAL ACCESS
(33) Germany	A61M 25/09	(73) Medi.Pro S.r.l.
Germany	A61B 34/30	(72) PAPADIA, Gabriele
(51) A61M 19/00	A61B 90/98	(31) 201900019842
A61F 7/00	(11) EP3858416	(32) 28.10.2019
A61N 1/28	(21) EP21160441.8	(33) Italy
A61F 7/02	(47) 01.11.2023	(51) A61M 25/09
(11) EP3052173	(22) 04.05.2009	A61M 25/01
(21) EP14849500.5	(54) CATHETER SYSTEM	(11) EP3723835
(47) 01.11.2023	(73) Corindus, Inc.	(21) EP18888733.5
(87) US2014057276	(72) WENDEROW, Tal	(47) 01.11.2023
02.04.2015	BROMANDER, Thomas	(87) IB2018001571
(22) 24.09.2014	KENNEDY, J. III	20.06.2019
	THOMSON, Stanley O.	(22) 12.12.2018
	TAYLOR, Jon B.	(54) GUIDE WIRE ACTIVATION MECHANISM AND PROXIMAL ACTUATION MECHANISM
	LIGHTCAP, Jeffrey	(73) Rapid Medical Ltd.
		(72) FRIEDMAN, Aharon

<p>GEDULTER, Matan MILLER, Moshe (31) 201762597888 P (32) 12.12.2017 (33) United States of America</p> <hr/> <p>(51) A61M 39/10 A61M 1/00 F16L 19/065 A61M 39/12 (11) EP3117868 (21) EP15002121.0 (47) 01.11.2023 (22) 16.07.2015 (54) CONNECTION DEVICE FOR WOUND CARE AND WOUND CARE KIT (73) Lohmann &amp; Rauscher GmbH (72) Hofstetter, Christoph Herzele, Arno</p> <hr/> <p>(51) A61M 60/148 A61M 60/232 A61M 60/422 A61M 60/523 A61M 60/546 (11) EP3157596 (21) EP15731819.7 (47) 01.11.2023 (87) US2015036430 23.12.2015 (22) 18.06.2015 (54) METHODS AND DEVICES FOR IDENTIFYING SUCTION EVENTS (73) Heartware, Inc. (72) BROWN, Michael C. VOSKOBOYNIKOV, Neil (31) 201462013680 P (32) 18.06.2014 (33) United States of America</p> <hr/> <p>(51) A61M 60/178 A61M 60/216 A61M 60/422 A61M 60/508 A61M 60/81 (11) EP3621669 (21) EP18727621.7 (47) 01.11.2023 (87) US2018032137 15.11.2018 (22) 10.05.2018 (54) THERMAL INTERCONNECT FOR IMPLANTABLE BLOOD PUMP (73) TC1 LLC (72) HANSEN, John Freddy (31) 201762505020 P (32) 11.05.2017 (33) United States of America</p> <hr/> <p>(51) A61M 60/178 A61M 60/232 A61M 60/216 A61M 60/422 A61M 60/538 A61M 60/546 (11) EP4061470 (21) EP20824373.3 (47) 01.11.2023 (87) US2020060661 27.05.2021 (22) 16.11.2020</p>	<p>(54) METHOD TO EXTRACT AND QUANTIFY THE CARDIAC END DIASTOLIC POINT/MITRAL VALVE CLOSING POINT FROM THE HVAD ESTIMATED FLOW WAVEFORM (73) Heartware, Inc. (72) REYES, Carlos VASUDEVAN JALAJA, Neethu Lekshmi (31) 202017095096 201962939158 P (32) 11.11.2020 22.11.2019 (33) United States of America United States of America</p> <hr/> <p>(51) A61N 1/04 (11) EP3673950 (21) EP19217028.0 (47) 01.11.2023 (22) 25.07.2014 (54) ELECTRODE ASSEMBLY HAVING VARIOUS COMMUNICATIVE SOLUTIONS (73) Physio-Control, Inc. (72) JENSEN, Jennifer Goeman HOSS, Jennifer Elaine SMITH, Mitchell A. PETERSON, Kenneth J. NELSON, Maren Louise BELALCAZAR, Andres PIRAINO, Daniel W. KNAPINSKI, John Robert BIELSTEIN, Matthew L. ALBRIGHT, Ethan P. EDWARDS, Jeffery S. TAMURA, Paul S. (31) 201461971488 P 201361858543 P (32) 27.03.2014 25.07.2013 (33) United States of America United States of America</p> <hr/> <p>(51) A61N 1/04 (11) EP3651846 (21) EP18746528.1 (47) 01.11.2023 (87) US2018041658 17.01.2019 (22) 11.07.2018 (54) EXTERNAL DEFIBRILLATION ELECTRODE CONDUCTIVE ELECTROLYTE DISPERSAL PAD (73) Medtronic Inc. (72) CRUTCHFIELD, Randolph E. BAST, Gerard A. CANO, David A. MESIAS, Lisa Anne Harness NORGAARD, Clark B. PORTER, Mark E. SIMS, Jerome II TIMSON, Philip (31) 201715646901 (32) 11.07.2017 (33) United States of America</p> <hr/> <p>(51) A61N 1/05 (11) EP3915631 (21) EP21176233.1 (47) 01.11.2023 (22) 27.05.2021</p>	<p>(54) IMPLANTABLE MEDICAL LEAD WITH MOVEABLE CONDUCTORS (73) Medtronic, Inc. (72) Zweber, Jeffrey Bradley, Joseph Whelan, Vincent Johnson, Ian Skubitz, Sean P. (31) 202016888232 (32) 29.05.2020 (33) United States of America</p> <hr/> <p>(51) A61N 1/05 A61B 17/34 (11) EP3569283 (21) EP18173218.1 (47) 01.11.2023 (22) 18.05.2018 (54) A LEAD PADDLE POSITIONING AND/OR DEPLOYMENT SYSTEM, A LEAD PADDLE AND A STYLET (73) ONWARD Medical N.V. (72) Ganty, Damian Delattre, Vincent</p> <hr/> <p>(51) A61N 1/05 A61N 1/36 A61N 1/372 (11) EP4049711 (21) EP22156488.3 (47) 01.11.2023 (22) 10.08.2018 (54) PARESTHESIA-FREE SPINAL CORD STIMULATION SYSTEM (73) Boston Scientific Neuromodulation Corporation (72) DOAN, Que, T. GU, Jianwen HUERTAS FERNANDEZ, Ismael ESTELLER, Rosana MOFFITT, Michael, A. (31) 201862693543 P 201762544656 P (32) 03.07.2018 11.08.2017 (33) United States of America United States of America</p> <hr/> <p>(51) A61N 1/05 A61N 1/375 (11) EP3689414 (21) EP18859160.6 (47) 01.11.2023 (87) CN2018107398 28.03.2019 (22) 25.09.2018 (54) LEAD-FREE PACEMAKER SYSTEM (73) MICROPORT SOARING CRM (SHANGHAI) CO., LTD. (72) CHENG, Zhijun JANG, Grace Ying Yang WANG, Li SUN, Jiangkai (31) 201710875812 (32) 25.09.2017 (33) China</p> <hr/> <p>(51) A61N 1/36 (11) EP3630271 (21) EP18729201.6 (47) 01.11.2023 (87) IB2018053385</p>
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29.11.2018	(31) 202016846220	A61B 18/00
(22) 15.05.2018	201916510930	A61N 2/00
(54) APPARATUS FOR PROVIDING PAIN RELIEF THERAPY	(32) 10.04.2020	(11) EP4066887
(73) Theranica Bio-Electronics Ltd.	14.07.2019	(21) EP22175037.5
(72) IRONI, Alon	(33) United States of America	(47) 01.11.2023
(31) 201862614613 P	United States of America	(22) 09.04.2020
(31) 201762509108 P	(51) A61N 1/362	(54) DEVICES FOR AESTHETIC TREATMENT OF BIOLOGICAL STRUCTURES BY RADIOFREQUENCY AND MAGNETIC ENERGY
(32) 08.01.2018	A61N 1/37	(73) BTL Medical Solutions a.s.
21.05.2017	A61N 1/375	(72) SCHWARZ,, Tomas
(33) United States of America	A61N 1/39	LANG, Frantisek
United States of America	(11) EP4108293	(31) 201962932259 P
(51) A61N 1/36	(21) EP22168262.8	201962832738 P
(11) EP1937357	(47) 01.11.2023	201962832688 P
(21) EP06780471.6	(22) 13.04.2022	(32) 07.11.2019
(47) 01.11.2023	(54) IMPLANTABLE SYSTEM FOR CONSTANT CURRENT PACING	11.04.2019
(87) IL2006001042	(73) Pacesetter, Inc.	11.04.2019
15.03.2007	(72) SHAHANDEH, Reza	(33) United States of America
(22) 06.09.2006	DAVOUDI, Ninous	United States of America
(54) APPARATUS FOR DELIVERING ELECTRICAL SIGNALS TO A HEART	LEE, Frank	United States of America
(73) IMPULSE DYNAMICS N.V.	DOUDNA, David	
(72) ROUSSO, Benny	CROOK, Jeffery	(51) A61N 5/06
EIZENBERG, Netanel	(31) 202117357966	(11) EP4034232
PRUTCHI, David	(32) 24.06.2021	(21) EP20776183.4
MIKA, Yuval	(33) United States of America	(47) 01.11.2023
SNIR, Yehuda	(51) A61N 1/368	(87) EP2020077118
(31) 714460 P	A61N 1/36	01.04.2021
(32) 06.09.2005	(11) EP3180081	(22) 28.09.2020
(33) United States of America	(21) EP15757068.0	(54) LASER ACUPUNCTURE SYSTEM COMPRISING A HEADREST AND A SUPPORT MEMBER FOR LASER TRANSMITTER HOUSINGS
(51) A61N 1/36	(47) 01.11.2023	(73) BE.TA +
A61N 1/04	(87) US2015045222	(72) MOIGNE, Pascal
A61N 1/05	18.02.2016	RENAULT, Joël
(11) EP3720548	(22) 14.08.2015	(31) 1910623
(21) EP18885503.5	(54) SYSTEMS, METHODS, AND INTERFACES FOR CONFIGURING CARDIAC THERAPY	(32) 26.09.2019
(47) 01.11.2023	(73) Medtronic Inc.	(33) France
(87) US2018063567	(72) GRENZ, Nathan, A.	(51) A61N 5/06
13.06.2019	LAHM, Ryan	C08J 3/28
(22) 03.12.2018	SCHILLING, Eric	C02F 1/30
(54) ELICITING SWALLOWING USING ELECTRICAL STIMULATION APPLIED VIA SURFACE ELECTRODES	SCHOUSEK, Brian	C02F 1/32
(73) MED-EL Elektromedizinische Geraete GmbH	(31) 201514703341	A61L 2/08
(72) LINDENTHALER, Werner	201462037689 P	A61L 2/00
LADURNER, Matthias	(32) 04.05.2015	A61M 1/36
MAYR, Winfried	15.08.2014	A23L 3/28
KRENN, Matthias	(33) United States of America	A23L 3/26
(31) 201762594109 P	United States of America	(11) EP3616751
(32) 04.12.2017	(51) A61N 1/372	(21) EP19204162.2
(33) United States of America	A61N 1/36	(47) 01.11.2023
(51) A61N 1/36	(11) EP3747507	(22) 14.03.2014
A61N 1/04	(21) EP20168726.6	(54) INTERIOR ENERGY-ACTIVATION OF PHOTO-REACTIVE SPECIES INSIDE A MEDIUM OR BODY
A61N 1/05	(47) 01.11.2023	(73) Immunolight, LLC.
A61N 1/06	(22) 30.07.2012	(72) BOURKE, Frederic A. Jr.
A61N 1/18	(54) REMOTE CONTROL OF POWER OR POLARITY SELECTION FOR A NEURAL STIMULATOR	FATHI, Zakaryae
(11) EP3996807	(73) Curonix LLC	WALDER, Harold
(21) EP20840682.7	(72) PERRYMAN, Laura Tyler	BEYER, Wayne F.
(47) 01.11.2023	LARSON, Patrick	(31) 201361792125 P
(87) US2020039424	ANDRESEN, Chad	(32) 15.03.2013
21.01.2021	(31) 201161513397 P	(33) United States of America
(22) 24.06.2020	PCT/US2012/023029	(51) A61N 5/10
(54) SYSTEMS FOR DELIVERING THERAPY USING AN AURICULAR STIMULATION DEVICE	(32) 29.07.2011	(11) EP4019085
(73) Spark Biomedical, Inc.	27.01.2012	(21) EP21213599.0
(72) KHODAPARAST, Navid	(33) United States of America	(47) 01.11.2023
COVALIN, Alejandro	World Intellectual Property Office (WIPO)	(22) 10.12.2021
	(51) A61N 2/02	
	A61B 18/14	

(54) RADIATION THERAPY PLANNING	(54) SURGICALLY POSITIONED NEUTRON FLUX ACTIVATED HIGH ENERGY THERAPEUTIC CHARGED PARTICLE GENERATION SYSTEM	C07K 14/71
(73) Koninklijke Philips N.V.	(73) Westinghouse Electric Company Llc	(11) EP3512873
(72) WEESE, Rolf, Juergen	(72) NELSON, John H.	(21) EP17849543.8
ISOLA, Alfonso, Agatino	HEIBEL, Michael D.	(47) 01.11.2023
BONDAR, Maria, Luiza	(31) 201762545522 P	(87) US2017050521
VIK, Torbjoern	(32) 15.08.2017	15.03.2018
FLAESCHNER, Nick	(33) United States of America	(22) 07.09.2017
WIEGERT, Jens	(51) A61P 11/00	(54) PEPTIDES AND USES THEREOF FOR DIAGNOSING AND TREATING MYASTHENIA GRAVIS
HEESE, Harald, Sepp	C07D 401/04	(73) The Regents of the University of California
(31) 20215273	A61K 31/4439	(72) FAIRCLOUGH, Robert H.
(32) 18.12.2020	(11) EP4046686	TRINH, Vu B.
(33) European Patent Office (EPO)	(21) EP20876972.9	(31) 201662384896 P
(51) A61N 5/10	(47) 01.11.2023	(32) 08.09.2016
A61B 5/055	(87) CN2020121388	(33) United States of America
A61B 5/113	22.04.2021	(51) A61P 35/02
G01R 33/567	(22) 16.10.2020	C07K 16/28
A61M 16/20	(54) SALT TYPES, CRYSTAL FORMS, AND PREPARATION METHODS FOR BENZOPYRAZOLE COMPOUNDS AS RHO KINASE INHIBITORS	(11) EP3615146
(11) EP3160584	(73) Medshine Discovery Inc.	(21) EP18723320.0
(21) EP15729790.4	(72) WU, Lingyun	(47) 01.11.2023
(47) 01.11.2023	XIAO, Zheming	(87) US2018029107
(87) EP2015062942	JIANG, Chunyan	01.11.2018
30.12.2015	LI, Jian	(22) 24.04.2018
(22) 10.06.2015	CHEN, Shuhui	(54) HUMANIZED ANTIGEN-BINDING DOMAINS AGAINST CD19 AND METHODS OF USE
(54) CONTROL OF BREATHING DURING MRI-BASED PROCEDURES	(31) 201910993446	(73) Kite Pharma, Inc.
(73) Elekta AB (PUBL)	(32) 18.10.2019	(72) WILTZIUS, Jed, J.W.
(72) BROWN, Kevin	(33) China	SIEVERS, Stuart, A.
(31) 201411246	(51) A61P 11/06	(31) 201762489258 P
(32) 25.06.2014	A61K 39/395	(32) 24.04.2017
(33) United Kingdom	(11) EP3703818	(33) United States of America
(51) A61N 5/10	(21) EP18799655.8	(51) A62B 1/14
A61B 6/02	(47) 01.11.2023	A62B 35/00
F24F 11/00	(87) US2018058039	(11) EP3626311
F24F 3/16	09.05.2019	(21) EP18209590.1
H04W 4/00	(22) 29.10.2018	(47) 01.11.2023
(11) EP3110506	(54) IL-4R ANTAGONIST FOR USE IN A METHOD FOR TREATING OR PREVENTING ASTHMA	(22) 30.11.2018
(21) EP15755315.7	(73) Sanofi Biotechnology Regeneron Pharmaceuticals, Inc.	(54) FALL PROTECTION DEVICE FOR VERTICAL LIFELINES
(47) 01.11.2023	(72) AMIN, Nikhil	(73) COMERCIAL IGENA, SA
(87) US2015018260	GRAHAM, Neil	(72) CARRÉ, Guillaume
03.09.2015	PIROZZI, Gianluca	VAN ERPS CRAHAY, Paul
(22) 02.03.2015	TEPER, Ariel	(31) 201831433 U
(54) METHOD AND APPARATUS FOR ENSURING AIR QUALITY IN A BUILDING, INCLUDING METHOD AND APPARATUS FOR CONTROLLING A WORKING DEVICE USING A HANDHELD UNIT HAVING SCANNING, NETWORKING, DISPLAY AND INPUT CAPABILITY	(31) 201862742736 P	(32) 21.09.2018
(73) Fipak Research And Development Company	201862647368 P	(33) Spain
(72) HAUVILLE, Stephan	201862710381 P	(51) A62C 2/06
HAUVILLE, Antoine	201762579120 P	F16L 5/04
(31) 201414281416	18305566	(11) EP3698852
201461946292 P	(32) 08.10.2018	(21) EP19158052.1
(32) 19.05.2014	23.03.2018	(47) 01.11.2023
28.02.2014	16.02.2018	(22) 19.02.2019
(33) United States of America	30.10.2017	(54) FIRE PROTECTION DEVICE
United States of America	04.05.2018	(73) Dallmer GmbH & Co. KG
(51) A61N 5/10	(33) United States of America	(72) DALLMER, Johannes
A61K 41/00	United States of America	(51) A62C 4/02
(11) EP3668596	United States of America	(11) EP3512610
(21) EP18845617.2	United States of America	(21) EP17851651.4
(47) 01.11.2023	United States of America	(47) 01.11.2023
(87) US2018046474	European Patent Office (EPO)	(87) US2017051880
21.02.2019	(51) A61P 21/04	22.03.2018
(22) 13.08.2018	A61P 37/06	(22) 15.09.2017
	C07K 14/705	(54) SYSTEM, APPARATUS AND METHOD FOR FLAME ARRESTER
	A61K 38/00	(73) CV Technology, Inc.
		(72) LICHT, Nicholas, P.

KRBEC, Jason, R.	22.12.2017	(54) INTERFACE DISPLAY METHOD AND APPARATUS, AND TERMINAL AND STORAGE MEDIUM
CUDNIK, Robert, V.	22.12.2017	(73) Tencent Technology (Shenzhen) Company Limited
CVETAS, Martin, J.	22.12.2017	(72) XIAO, Hang
(31) 201662395562 P	(33) United States of America	FU, Yuan
(32) 16.09.2016	United States of America	WANG, Zhenfa
(33) United States of America	United States of America	(31) 202010721105
(51) A62C 13/64	United States of America	(32) 24.07.2020
A62C 13/76	United States of America	(33) China
F17C 13/04	United States of America	(51) A63F 13/60
(11) EP3660382	United States of America	A63F 13/5375
(21) EP19210790.2	United States of America	A63F 13/77
(47) 01.11.2023	(51) A63F 13/235	(11) EP3142761
(22) 21.11.2019	A63F 13/214	(21) EP15726960.6
(54) SHUT-OFF VALVE PARTICULARLY FOR PORTABLE WATER EXTINGUISHERS	A63F 13/245	(47) 01.11.2023
(73) BRIDGEPORT S.P.A.	A63F 13/26	(87) EP2015062367
(72) LEO, Leonardo Claudio	H01Q 1/44	10.12.2015
(31) 201800010662	A63H 33/00	(22) 03.06.2015
(32) 28.11.2018	H01R 13/08	(54) GENERATION AND DISTRIBUTION OF IN-GAME TUTORIALS
(33) Italy	H04B 10/114	(73) King.com Limited
(51) A63C 5/06	H04B 5/00	(72) NAVARRO, Alberto Denia
A63C 11/00	H04W 84/18	LARROSA, David Mari
E01H 4/02	H01F 7/06	LAVEDRINE, Alice
(11) EP3750603	H01Q 9/04	(31) 201414300677
(21) EP20177384.3	(11) EP3593406	201414294558
(47) 01.11.2023	(21) EP18763823.4	(32) 10.06.2014
(22) 29.05.2020	(47) 01.11.2023	03.06.2014
(54) CROSS-COUNTRY SKI TRAIL GROOMING DEVICE	(87) CA2018000049	(33) United States of America
(73) Toews, Richard J.	13.09.2018	United States of America
(72) Toews, Richard J.	(22) 05.03.2018	(51) A63F 13/655
(31) 201916439918	(54) INTERACTIVE DIGITAL PLATFORM DEVICE AND METHOD	G06T 13/40
(32) 13.06.2019	(73) Suffuse Inc.	A63F 13/795
(33) United States of America	(72) WILLINGS, Shawn A.	(11) EP3238176
(51) A63F 13/00	CAPPELLETTI, John C.	(21) EP14907837.0
G02B 27/01	BELLINGHAM, Thomas C.	(47) 01.11.2023
G06F 3/01	(31) 201762467382 P	(87) CN2014093596
G06T 17/20	(32) 06.03.2017	16.06.2016
G06T 19/00	(33) United States of America	(22) 11.12.2014
H04N 7/18	(51) A63F 13/24	(54) AVATAR SELECTION MECHANISM
(11) EP3729379	G06F 3/01	(73) Intel Corporation
(21) EP18890400.7	A63H 18/00	(72) ZHANG, Lidan
(47) 01.11.2023	(11) EP3661615	TONG, Xiaofeng
(87) US2018067105	(21) EP18735015.2	DU, Yangzhou
27.06.2019	(47) 01.11.2023	LI, Wenlong
(22) 21.12.2018	(87) US2018035253	SHEN, Xiaolu
(54) MULTI-STAGE BLOCK MESH SIMPLIFICATION	07.02.2019	MORRIS, Margaret E.
(73) Magic Leap, Inc.	(22) 31.05.2018	ANDERSON, Glen J.
(72) MOLYNEAUX, David Geoffrey	(54) CONTROLLER BUTTON HAVING A SIMULATED AXIS OF ROTATION	(51) A63G 25/00
STEINBRÜCKER, Frank Thomas	(73) Microsoft Technology Licensing, LLC	A63G 31/00
WU, Zhongle	(72) SCHMITZ, Aaron	(11) EP3681610
WEI, Xiaolin	GASSOWAY, Gabriel M. R.	(21) EP18779949.9
MIN, Jianyuan	SCHROEDER, Andrew McKinley	(47) 01.11.2023
ZHANG, Yifu	ROBINSON, Jonathan Shea	(87) US2018050923
(31) 201862702749 P	(31) 201715667340	21.03.2019
201862702761 P	(32) 02.08.2017	(22) 13.09.2018
201862702736 P	(33) United States of America	(54) AUTONOMOUS TRANSPORTATION TECHNIQUES
201862702740 P	(51) A63F 13/5372	(73) Universal City Studios LLC
201762609962 P	A63F 13/2145	(72) BLUM, Steven C.
201762610000 P	A63F 13/533	SCHWARTZ, Justin M.
201762609979 P	A63F 13/5378	OLIVER, Christopher
201762609990 P	A63F 13/822	(31) 201762558749 P
(32) 24.07.2018	(11) EP3970819	(32) 14.09.2017
24.07.2018	(21) EP21782868.0	(33) United States of America
24.07.2018	(47) 01.11.2023	(51) A63G 31/00
24.07.2018	(87) CN2021100969	
22.12.2017	27.01.2022	
	(22) 18.06.2021	



G05D 1/02	GØTSKE, Steffen	(11) EP3519073
(11) EP4010100	(31) PA201970613	(21) EP17787695.0
(21) EP20761410.8	(32) 01.10.2019	(47) 01.11.2023
(47) 01.11.2023	(33) Denmark	(87) US2017053382
(87) US2020045456	(51) B01D 11/04	05.04.2018
18.02.2021	G01N 21/3504	(22) 26.09.2017
(22) 07.08.2020	(11) EP3648858	(54) FUNCTIONALIZED POLYOLEFIN
(54) VEHICLE GUIDANCE VIA INFRARED	(21) EP18749032.1	CAPILLARIES FOR OPEN TUBULAR
PROJECTION	(47) 01.11.2023	ION CHROMATOGRAPHY
(73) Universal City Studios LLC	(87) FR2018051659	(73) Board of Regents, University of Texas
(72) JEROMIN, Aaron Chandler	10.01.2019	System
KRAUTHAMER, Akiva Meir	(22) 03.07.2018	Dionex Corporation
(31) 202016986107	(54) DEVICE FOR THE IN SITU	(72) DASGUPTA, Purnendu, K.
201962884943 P	EXTRACTION OF DISSOLVED GAS	HUANG, Weixiong
(32) 05.08.2020	AND CORRESPONDING MEASURING	POHL, Christopher, A.
09.08.2019	APPARATUS	(31) 201615395202
(33) United States of America	(73) Institut Francais de Recherche pour	201662402354 P
United States of America	l'Exploitation de la Mer (IFREMER)	(32) 30.12.2016
(51) A63H 27/08	(72) BIROT, Dominique	30.09.2016
G09F 21/06	RUFFINE, Livio	(33) United States of America
B64C 31/06	RINNERT, Emmanuel	United States of America
(11) EP3613483	PODEUR, Christian	(51) B01D 15/22
(21) EP18788019.0	(31) 1756257	G01N 30/60
(47) 01.11.2023	(32) 03.07.2017	(11) EP3140583
(87) ES2018070312	(33) France	(21) EP14891243.9
25.10.2018	(51) B01D 15/00	(47) 01.11.2023
(22) 18.04.2018	C10G 33/08	(87) US2014037093
(54) FLYING OBJECT AND DEVICE FOR	C10G 33/06	12.11.2015
AERIAL ADVERTISING	C10G 25/02	(22) 07.05.2014
(73) Panainte, Petrica	C02F 101/32	(54) COMPRESSION FITTING WITH
Díaz Ocaña, Aurora	C02F 1/42	COUPLED FERRULE
(72) PANAINTE, Petrica	C02F 1/78	(73) Waters Technologies Corporation
(31) 201730466 U	C02F 1/40	(72) CORMIER, Sylvan
(32) 20.04.2017	C02F 1/28	JOURDREY, Kurt D.
(33) Spain	B01J 41/05	SHREVE, Joshua A.
(51) A63H 33/04	B01J 20/28	(51) B01D 17/02
(11) EP4037792	B01J 20/20	B01D 19/00
(21) EP20775857.4	B01D 61/10	(11) EP3272404
(47) 01.11.2023	B01D 15/36	(21) EP17181757.0
(87) EP2020076257	C02F 1/50	(47) 01.11.2023
08.04.2021	C02F 1/32	(22) 17.07.2017
(22) 21.09.2020	(11) EP3294430	(54) FLUID SEPARATOR
(54) INTERACTIVE TOY	(21) EP16765751.9	(73) Eaton Intelligent Power Limited
(73) LEGO A/S	(47) 01.11.2023	(72) KULKARNI, Aniruddha Mukund
(72) TEZUKA, Takashi	(87) US2016022890	GEORGE, Jubin Tom
MOMOSE, Hiroshi	22.09.2016	SHOWALTER, Stephen
MAKIUCHI, Emi	(22) 17.03.2016	(31) 201611024750
BENNINK, Jonathan B.	(54) HYDROCARBON-IN-WATER	(32) 19.07.2016
TRIER, Jonathan	PURIFICATION ANION-EXCHANGE	(33) India
MA, Benjamin	SYSTEM AND METHOD	(51) B01D 29/21
(31) PA201970608	(73) Donaldson Company, Inc.	B01D 29/58
(32) 30.09.2019	(72) MORAVEC, Davis, B.	B01D 35/153
(33) Denmark	DALLAS, Andrew, J.	B01D 35/16
(51) A63H 33/04	BLOCK, Joseph, M.	(11) EP3666357
A63H 33/08	HAUSER, Bradley, G.	(21) EP19215665.1
A63H 33/00	HALL, Cullen, E.	(47) 01.11.2023
(11) EP4037793	(31) 201562134259 P	(22) 12.12.2019
(21) EP20780174.7	(32) 17.03.2015	(54) FILTER DEVICE, FUNCTIONAL
(47) 01.11.2023	(33) United States of America	SUPPORT AND METHOD OF USING
(87) EP2020076693	(51) B01D 15/20	AN ANNULAR FILTERING ELEMENT
08.04.2021	B01D 15/22	(73) Mahle International GmbH
(22) 24.09.2020	B01D 15/36	(72) HENSINGER, Heiko
(54) TRANSFORMABLE MODULAR TOY	G01N 30/60	LINDENBERG, Matthias
ELEMENT	B01J 39/26	HÄUSSERMANN, Uli
(73) LEGO A/S	B01J 41/20	(31) 102018221768
(72) AINLEY, Timothy Mark	B01J 47/02	(32) 14.12.2018
HERMANN, Troels	B01J 20/32	(33) Germany
HAURUM, Jens Peter	B01J 20/286	(51) B01D 29/21

B01D 35/153	09.03.2017	H01M 8/04119
B01D 35/26	(22) 24.08.2016	(11) EP4028145
B01D 36/00	(54) CERAMIC HONEYCOMB BODIES,	(21) EP20789485.8
(11) EP3843873	HONEYCOMB EXTRUSION DIES, AND	(47) 01.11.2023
(21) EP19758975.7	METHODS OF MAKING CERAMIC	(87) EP2020077190
(47) 01.11.2023	HONEYCOMB BODIES	14.05.2021
(87) EP2019072711	(73) Corning Incorporated	(22) 29.09.2020
05.03.2020	(72) BEALL, Douglas Munroe	(54) POWER-TO-X SYSTEM WITH AN
(22) 26.08.2019	BOOKBINDER, Dana Craig	OPTIMIZED HYDROGEN DRYING AND
(54) FILTER ELEMENT AND FUEL PRE-	BREW, Thomas William	PURIFYING PROCESS
FILTER MODULE	MILLER, Kenneth Richard	(73) Siemens Energy Global GmbH & Co. KG
(73) MANN+HUMMEL GmbH	(31) 201562211981 P	(72) HANNEMANN, Frank
(72) GEORGETTI MARCONDES, Marcos	(32) 31.08.2015	SCHMIED, Stefan
Vicente	(33) United States of America	VOLKMANN, Andreas
DE CARVALHO VESSIO, Bruna	(51) B01D 47/06	(31) 102019217114
ALVES DIAS, Unildison	B23P 15/26	(32) 06.11.2019
PEREIRA, Celio Santos	E04H 5/12	(33) Germany
ALBERTINI, Gilberto	F28F 9/00	(51) B01D 53/047
(31) 201862724201 P	F28F 25/08	B01D 53/22
(32) 29.08.2018	F28F 25/02	F25B 9/04
(33) United States of America	F28F 25/00	B01J 19/14
(51) B01D 29/21	(11) EP3717110	(11) EP3626327
B01D 36/00	(21) EP18882361.1	(21) EP18020452.1
(11) EP4028143	(47) 01.11.2023	(47) 01.11.2023
(21) EP20751518.0	(87) US2018062716	(22) 19.09.2018
(47) 01.11.2023	06.06.2019	(54) INERTISATION METHOD AND
(87) EP2020071857	(22) 28.11.2018	INERTISATION SYSTEM, IN
18.03.2021	(54) MODULAR HEAT EXCHANGE TOWER	PARTICULAR FOR PREVENTING
(22) 04.08.2020	AND METHOD OF ASSEMBLING SAME	FIRES, AND USE OF AN
(54) FLUID-PURIFYING ELEMENT OF A	(73) SPX Cooling Technologies, Inc.	INERTISATION SYSTEM
FLUID-PURIFYING SYSTEM FOR	(72) RASMUSSEN, Eric	(73) Wagner Group GmbH
PURIFYING LIQUID FLUID, FLUID-	DAVISON, Mark	(72) Vroemen, Marc
PURIFYING SYSTEM, AND SEALING	JENKINS, Dustin	(51) B01D 53/06
ELEMENT OF A FLUID-PURIFYING	DALTON, John	B01D 53/26
ELEMENT	(31) 201762593351 P	F24F 3/14
(73) MANN+HUMMEL GmbH	(32) 01.12.2017	F25J 3/00
(72) ROLLE, Arndt-Udo	(33) United States of America	(11) EP3513861
PFLÜGER, Frank	(51) B01D 50/00	(21) EP19152038.6
(31) 102019124432	B01D 47/16	(47) 01.11.2023
(32) 11.09.2019	(11) EP3797853	(22) 16.01.2019
(33) Germany	(21) EP19895480.2	(54) HYBRID LOW DEW POINT
(51) B01D 39/20	(47) 01.11.2023	COMPRESSED AIR DRYER
B01D 46/42	(87) CN2019122739	(73) Ingersoll-Rand Industrial U.S., Inc.
B01J 32/00	18.06.2020	(72) BERGH, Charles John
B01J 35/04	(22) 03.12.2019	(31) 201815873314
F01N 3/022	(54) AIR PURIFIER	(32) 17.01.2018
B01D 46/24	(73) Guangdong Midea White Home	(33) United States of America
F01N 3/24	Appliance Technology Innovation Center	(51) B01D 53/14
(11) EP3932519	Co., Ltd.	(11) EP3661625
(21) EP20855147.3	Midea Group Co., Ltd.	(21) EP18755267.4
(47) 01.11.2023	(72) HAN, Yunqing	(47) 01.11.2023
(87) JP2020029932	PU, Zulin	(87) GB2018052209
25.02.2021	ZHANG, Hui	07.02.2019
(22) 05.08.2020	(31) 201811536593	(22) 02.08.2018
(54) EXHAUST GAS PURIFICATION FILTER	(32) 14.12.2018	(54) C1-C8 CARBOXYLIC ACID SALT
(73) DENSO CORPORATION	(33) China	SOLUTION FOR THE ABSORPTION OF
(72) ASAOKU, Kana	(51) B01D 53/00	CO2
(31) 2019150586	F01K 25/00	(73) C-Capture Ltd.
(32) 20.08.2019	F22B 1/00	(72) BARNES, Douglas
(33) Japan	B01D 53/26	SCHOOLDERMAN, Caspar
(51) B01D 46/24	B01D 53/86	JAKAB, Gergely
B01D 46/00	C01B 3/50	RAYNER, Christopher
B28B 3/26	C25B 1/04	(31) 201712465
B28B 19/00	C25B 9/00	(32) 02.08.2017
(11) EP3344365	H01M 8/04082	(33) United Kingdom
(21) EP16767059.5	H01M 8/0656	(51) B01D 53/14
(47) 01.11.2023	C25B 15/08	B01D 53/18
(87) US2016048345	C25B 15/021	C10K 1/00

(11) EP3666364	(73) SAINT-GOBAIN CENTRE DE RECHERCHES ET D'ETUDES EUROPEEN	05.01.2017
(21) EP18020637.7		(22) 30.06.2016
(47) 01.11.2023		(54) ENGAGEMENT OF GAS CYLINDER WITH GAS DISPENSER
(22) 14.12.2018	(72) VINCENT, Adrien	(73) Coravin, Inc.
(54) METHOD AND DEVICE FOR REGENERATION OF A LOADED SCRUBBING AGENT FROM A GAS SCRUBBING INSTALLATION	SANT, Jérôme	(72) RIDER, Mike
	ROUBIN, Marc	SWEEZEY, Andrew, S.
(73) L'AIR LIQUIDE, SOCIÉTÉ ANONYME POUR L'ÉTUDE ET L'EXPLOITATION DES PROCÉDÉS GEORGES CLAUDE	(31) 1655733	(31) 201514755050
	(32) 20.06.2016	(32) 30.06.2015
(72) Schmidt, Sophia	(33) France	(33) United States of America
Gubinski, Alfred	(51) B01D 63/08	(51) B01F 27/053
Frey, Christian	C12M 1/34	B01F 27/054
Rappold, Dorit	C12M 3/00	A23G 9/28
Corbet, Sharon	C12Q 1/68	A23G 9/52
	A61B 5/15	B01F 27/1123
(51) B01D 53/14	A61B 5/157	B01F 27/1125
B01D 61/42	(11) EP4035762	A23G 9/12
C25B 1/00	(21) EP22150560.5	A23G 9/22
C25B 15/08	(47) 01.11.2023	B01F 27/091
B01D 53/96	(22) 09.09.2016	B01F 27/11
B01D 61/44	(54) DEVICES FOR SAMPLE COLLECTION, STABILIZATION AND PRESERVATION	B01F 27/1143
(11) EP3797854	(73) Drawbridge Health, Inc.	B01F 27/1145
(21) EP20158291.3	(72) JACKSON, Alicia	B01F 27/114
(47) 01.11.2023	CHAPMAN, Rowan	B01F 27/113
(22) 19.02.2020	GLORIKIAN, Harry	B01F 27/921
(54) CARBON DIOXIDE REDUCTION SYSTEM AND CARBON DIOXIDE REDUCTION METHOD	MAICHIN, Diana	B01F 35/22
(73) Mitsubishi Heavy Industries, Ltd.	(31) 201662368817 P	B01F 35/75
(72) TSUJIUCHI, Tatsuya	201662367056 P	B01F 35/92
TAJIMA, Hidehiko	201562260172 P	B01F 27/213
HIRATA, Takuya	201562216312 P	B01F 27/88
HORIZOE, Kouji	(32) 29.07.2016	B01F 35/90
(31) 2019176801	26.07.2016	(11) EP3959991
(32) 27.09.2019	25.11.2015	(21) EP21199250.8
(33) Japan	09.09.2015	(47) 01.11.2023
(51) B01D 53/32	(33) United States of America	(22) 15.01.2021
A61L 9/22	United States of America	(54) RAPIDLY COOLING FOOD AND DRINKS
(11) EP4019113	United States of America	(73) ColdSnap, Corp.
(21) EP20877855.5	United States of America	(72) Fonte, Matthew
(47) 01.11.2023	(51) B01D 71/56	Heymans, John
(87) CN2020114349	B01D 71/58	Fonte, Nicholas
22.04.2021	B01D 61/02	Devaney, Robert
(22) 10.09.2020	B01D 69/02	McGinty, Ian
(54) PURIFICATION DEVICE	B01D 69/12	Weaver, Vincent
(73) Gree Electric Appliances, Inc. of Zhuhai	B01D 71/76	Fichera, Benjamin
(72) CHEN, Huan	(11) EP3603783	(31) 202062961495 P
HU, Zhentao	(21) EP18771521.4	(32) 15.01.2020
LU, Yaozhen	(47) 01.11.2023	(33) United States of America
HOU, Xuedan	(87) KR2018003414	(51) B01J 8/18
(31) 201910992209	27.09.2018	C08F 2/34
(32) 17.10.2019	(22) 23.03.2018	B01J 8/44
(33) China	(54) ACID-RESISTANT NANO-SEPARATION MEMBRANE HAVING ENHANCED FLOW RATE, AND METHOD FOR MANUFACTURING SAME	(11) EP3231506
(51) B01D 63/06	(73) Toray Advanced Materials Korea Inc.	(21) EP15868513.1
B01D 67/00	(72) SHIN, Hong Sub	(47) 01.11.2023
B01D 69/06	JUNG, Yong Doo	(87) CN2015096863
B01D 71/02	(31) 20170037649	16.06.2016
(11) EP3471863	(32) 24.03.2017	(22) 09.12.2015
(21) EP17740055.3	(33) Korea (Republic)	(54) OLEFIN POLYMERIZATION APPARATUS AND OLEFIN POLYMERIZATION PROCESS
(47) 01.11.2023	(51) B01F 23/2361	(73) China Petroleum&Chemical Corporation
(87) FR2017051600	B67B 7/86	Zhejiang University
28.12.2017	B67D 1/04	(72) WANG, Jingdai
(22) 19.06.2017	(11) EP3317002	WU, Wenqing
(54) FILTERS COMPRISING BETA-SIC-BASED SEPARATION LAYERS	(21) EP16741192.5	YANG, Yongrong
	(47) 01.11.2023	HAN, Guodong
	(87) US2016040261	HUANG, Zhengliang
		SUN, Jingyuan

WANG, Xiaofei	(33) United Kingdom	PHILLIPS, Paul Richard
FAN, Xiaoqiang	(51) B01J 20/04	REID, Stuart David
DU, Huanjun	B01J 20/20	(31) 201161565774 P
JIANG, Binbo	B01J 20/28	(32) 01.12.2011
LIAO, Zuwei	B01J 20/32	(33) United States of America
YANG, Yao	B01J 37/02	(51) B01L 3/00
(31) 201410748891	(11) EP3812038	G01N 35/10
201410748898	(21) EP18908060.9	(11) EP3347129
(32) 09.12.2014	(47) 01.11.2023	(21) EP16770826.2
09.12.2014	(87) CL2018000022	(47) 01.11.2023
(33) China	06.09.2019	(87) US2016050631
China	(22) 22.06.2018	16.03.2017
(51) B01J 8/34	(54) MULTILAYER ABSORBENT FILTERING	(22) 08.09.2016
B01J 8/00	ITEM; METHOD FOR OBTAINING SAID	(54) SYSTEM AND METHOD FLUID
B01J 19/32	ITEM; AND USE OF SAME	INTERFACE TO RECEIVE REMOVABLE
C10G 11/18	(73) Comercializadora Innvento S.A.	CONTAINER
(11) EP3651892	(72) ARAYA LAZO, Igor Francisco	(73) Life Technologies Corporation
(21) EP18831642.6	(51) B01J 21/04	(72) ROSWECH, Todd
(47) 01.11.2023	B01J 23/96	SCHULTZ, Jonathan
(87) US2018041906	B01J 29/068	HO, Chun
17.01.2019	B01J 35/10	(31) 201562216098 P
(22) 12.07.2018	B01J 37/18	(32) 09.09.2015
(54) DEVICE FOR GAS SOLIDS FLUIDIZED	B01J 38/02	(33) United States of America
SYSTEM TO ENHANCE STRIPPING	B01J 38/10	(51) B01L 3/02
(73) Technip Process Technology, Inc.	B01J 38/12	(11) EP3453455
(72) MALLER, Alexander	C07C 5/333	(21) EP17189875.2
GBORDZOE, Eusebius Anku	B01J 23/62	(47) 01.11.2023
(31) 201715649729	B01J 37/02	(22) 07.09.2017
(32) 14.07.2017	B01J 35/00	(54) METHOD AND APPARATUS FOR
(33) United States of America	B01J 37/08	SINGLE PARTICLE DEPOSITION
(51) B01J 13/10	(11) EP3623045	(73) Scienion GmbH
A61K 8/04	(21) EP18797926.5	(72) TOURNIAIRE, Guilhem Arnaud
B01J 13/12	(47) 01.11.2023	BERTHUY, Ophélie Isabelle
B01J 13/16	(87) KR2018000514	ATZENI, Gianluigi
B01J 13/20	15.11.2018	MONJARET, François
C11D 3/50	(22) 11.01.2018	CANTLON-BRUCE, Joshua
B01J 13/14	(54) DEHYDROGENATION CATALYST	GLAVATSKYI, Illia
(11) EP3478403	FOR LINEAR CHAIN LIGHT	(51) B02C 13/286
(21) EP17732947.1	HYDROCARBONS WITH HIGH	B02C 18/22
(47) 01.11.2023	REGENERATION EFFICIENCY	B02C 18/14
(87) EP2017066116	(73) Heesung Catalysts Corporation	(11) EP4137234
04.01.2018	(72) HAN, Hyun-sik	(21) EP22185729.5
(22) 29.06.2017	YOO, Young-san	(47) 01.11.2023
(54) A CONSUMER PRODUCT	KIM, Ho-dong	(22) 19.07.2022
COMPRISING CORE-COMPOSITE	CHOI, Hyun A	(54) CRUSHING DEVICE WITH FEED
SHELL MICROCAPSULES	(31) 20170058603	ROLLER
(73) Firmenich SA	(32) 11.05.2017	(73) Vecoplan AG
(72) DARDELLE, Gregory	(33) Korea (Republic)	(72) Baldus, Martin
(31) 16177050	(51) B01J 29/76	Lepack, Bastian
(32) 30.06.2016	B01J 29/72	Menzel, Stefan
(33) European Patent Office (EPO)	B01J 29/74	(31) 102021121235
(51) B01J 19/00	B01J 29/78	(32) 16.08.2021
B01J 19/24	B01D 53/94	(33) Germany
C10G 2/00	B01J 37/02	(51) B02C 17/18
(11) EP3164206	B01D 53/86	(11) EP3377229
(21) EP15736021.5	B01J 29/85	(21) EP16867367.1
(47) 01.11.2023	(11) EP2785452	(47) 01.11.2023
(87) GB2015051922	(21) EP12795840.3	(87) US2016063432
07.01.2016	(47) 01.11.2023	26.05.2017
(22) 01.07.2015	(87) GB2012052957	(22) 22.11.2016
(54) CATALYTIC REACTORS COMPRISING	06.06.2013	(54) PULP LIFTER
DISTRIBUTED TEMPERATURE	(22) 30.11.2012	(73) Eems Holding LLC
SENSORS	(54) CATALYST FOR TREATING EXHAUST	(72) LATCHIREDDI, Sanjeeva
(73) Compact GTL plc	GAS	LATCHIREDDI, Seethapathi Rao
(72) BONNER, Christopher William	(73) Johnson Matthey Public Limited	(31) 201562258465 P
DANNATT, Benjamin	Company	(32) 22.11.2015
(31) 201412000	(72) CHANDLER, Guy Richard	(33) United States of America
(32) 04.07.2014	GREEN, Alexander Nicholas Michael	

(51) B03B 9/04 B03B 9/06 C22B 7/00	Sotzny, Steffen Tandler, Daniel Berndt, Tobias	759356 P (32) 24.10.2006 17.01.2006
(11) EP3548192 (21) EP17876354.6 (47) 01.11.2023 (87) US2017063812 07.06.2018	Geiger, Andreas (31) 102017122492 (32) 27.09.2017 (33) Germany	(33) United States of America United States of America
(22) 29.11.2017 (54) METHODS AND SYSTEMS FOR POLISHING AND RECOVERING ALUMINUM FROM A WASTE MATERIAL	(51) B05B 12/14 B05B 7/00 B05B 7/04 B05B 7/16 G05D 11/13 B29B 7/74 B29B 7/76 B05B 12/00 B05B 12/08 B05B 12/10	(51) B06B 1/06 A61B 8/00 H10N 30/088 H10N 30/072 H10N 30/20 (11) EP3344147 (21) EP16843099.9 (47) 01.11.2023 (87) US2016050171 09.03.2017 (22) 02.09.2016 (54) ULTRASOUND TRANSDUCER ASSEMBLY
(73) Valerio, Thomas, A. (72) Valerio, Thomas, A. (31) 201762506329 P 201662427793 P (32) 15.05.2017 29.11.2016	(11) EP3655168 (21) EP18752361.8 (47) 01.11.2023 (87) US2018043181 24.01.2019	(73) Fujifilm Sonosite, Inc. (72) LI, Wei FREY, Gregg HSU, Simon (31) 201562214185 P (32) 03.09.2015 (33) United States of America
(33) United States of America United States of America	(22) 20.07.2018 (54) SYSTEMS AND METHODS FOR IMPROVED CONTROL OF IMPINGEMENT MIXING	(51) B07B 1/18 B07B 1/42 (11) EP3268137 (21) EP16709397.0 (47) 01.11.2023 (87) EP2016055099 15.09.2016 (22) 10.03.2016 (54) SCREENING SYSTEM, EDDY- CURRENT SCREENING MACHINE, AND USE OF A SCREENING SYSTEM OR OF AN EDDY-CURRENT SCREENING MACHINE
(51) B05B 5/00 (11) EP3946751 (21) EP20722772.9 (47) 01.11.2023 (87) US2020026556 08.10.2020 (22) 03.04.2020 (54) MOUNTING OF EXTERNAL CHARGING PROBE ON ELECTROSTATIC SPRAY GUN	(73) Carlisle Fluid Technologies, Inc. (72) DONALDSON, Eric Julius (31) 201816040537 201762535817 P (32) 19.07.2018 21.07.2017 (33) United States of America United States of America	(51) B07B 1/18 B07B 1/42 (11) EP3268137 (21) EP16709397.0 (47) 01.11.2023 (87) EP2016055099 15.09.2016 (22) 10.03.2016 (54) SCREENING SYSTEM, EDDY- CURRENT SCREENING MACHINE, AND USE OF A SCREENING SYSTEM OR OF AN EDDY-CURRENT SCREENING MACHINE
(73) Graco Minnesota Inc. (72) STECH, Amelia, J. MCCLINE, Elisa, J. (31) 201962829996 P (32) 05.04.2019 (33) United States of America	(51) B05C 5/02 B25J 9/00 (11) EP2837430 (21) EP14172557.2 (47) 01.11.2023 (22) 16.06.2014 (54) HIGH-VISCOSITY SEALANT APPLICATION SYSTEM	(73) Telsonic Holding AG (72) SOLENTHALER, Peter SUTTER, Reto (31) PCT/EP2015/197213 PCT/EP2015/065093 PCT/EP2015/054936 (32) 01.12.2015 02.07.2015 10.03.2015 (33) World Intellectual Property Office (WIPO) World Intellectual Property Office (WIPO) World Intellectual Property Office (WIPO)
(51) B05B 5/025 B05B 5/10 A61M 11/00 (11) EP3753637 (21) EP20175939.6 (47) 01.11.2023 (22) 04.09.2015 (54) ELECTROSTATIC FLUID DELIVERY SYSTEM	(73) The Boeing Company (72) Keener, Steven Glenn Logan, Trent Rob (31) 201313964713 (32) 12.08.2013 (33) United States of America	(51) B07B 1/46 B07B 13/18 (11) EP3883699 (21) EP19818474.9 (47) 01.11.2023 (87) US2019062794 28.05.2020 (22) 22.11.2019 (54) METHOD AND SYSTEM FOR VOLUME FLOW MEASUREMENT
(73) Octet Medical, Inc. (72) WRIGHT, Clifford (31) 201462046140 P (32) 04.09.2014 (33) United States of America	(51) B05D 3/00 B05D 5/06 B41M 3/14 B41F 13/10 B41F 13/18 G02B 5/08 B41M 3/00 (11) EP3663007 (21) EP19201718.4 (47) 01.11.2023 (22) 16.01.2007 (54) APPARATUS FOR ORIENTING MAGNETIC FLAKES	(32) 02.07.2015 10.03.2015 (33) World Intellectual Property Office (WIPO) World Intellectual Property Office (WIPO) World Intellectual Property Office (WIPO)
(51) B05B 12/04 B05B 1/30 H01F 7/18 B05B 13/04 (11) EP3974066 (21) EP21202407.9 (47) 01.11.2023 (22) 20.09.2018 (54) APPLICATOR WITH AN INTEGRATED CONTROL CIRCUIT	(73) Viavi Solutions Inc. (72) RAKSHA, Vladimir P HOLMAN, Jay M COOMBS, Paul G MARKANTES, Charles T PHILLIPS, Roger W (31) 552219	(51) B07B 1/46 B07B 13/18 (11) EP3883699 (21) EP19818474.9 (47) 01.11.2023 (87) US2019062794 28.05.2020 (22) 22.11.2019 (54) METHOD AND SYSTEM FOR VOLUME FLOW MEASUREMENT
(73) Dürr Systems AG (72) Fritz, Hans-Georg Wöhr, Benjamin Kleiner, Marcus Bubek, Moritz Beyl, Timo Herre, Frank	(73) J.M. Canty Inc. (72) O'BRIEN, Paul J. CANTY, Thomas M. (31) 201862770763 P (32) 22.11.2018 (33) United States of America	(31) 201862770763 P (32) 22.11.2018 (33) United States of America
		(51) B07C 5/36 (11) EP4000754

(21) EP20208208.7	(73) Sidel S.p.A.	(72) PAWELSKI, Hartmut
(47) 01.11.2023	(72) Berzaghi, Claudio	BODE, Thorsten
(22) 17.11.2020	Belviglieri, Alessandro	SCHELLMANN, Markus
(54) MOBILE SORTING UNIT AND METHOD	(51) B09B 3/00	VOGD, Matthias
(73) BEUMER Group A/S	C02F 11/00	(31) 102020203076
(72) Staun, Jorgen	C02F 11/18	(32) 11.03.2020
Piculell, Mads Dahlerup	C05F 7/00	(33) Germany
Skyum, Henrik Frank	C05F 9/00	(51) B21C 47/04
(51) B08B 3/02	(11) EP3737513	B21C 47/06
B64D 1/18	(21) EP18701210.9	B21C 47/34
F03D 80/55	(47) 01.11.2023	B65H 18/26
(11) EP3587265	(87) GB2018050079	(11) EP4019158
(21) EP18764802.7	18.07.2019	(21) EP20216982.7
(47) 01.11.2023	(22) 12.01.2018	(47) 01.11.2023
(87) ES2018070142	(54) A SOIL REMEDIANT AND ITS METHOD	(22) 23.12.2020
13.09.2018	OF PRODUCTION	(54) REEL DEVICE FOR LARGE
(22) 24.02.2018	(73) Agri-Tech Organic Solutions Limited	THICKNESS RANGE OF METAL
(54) AIR-TRANSPORTABLE DEVICE FOR	(72) DREW, Bruce Michael	STRIPS
PROJECTING PRESSURISED LIQUID	SEVERWRIGHT, Robert Anthony	(73) Primetals Technologies Austria GmbH
(73) Abellán Salmerón, Antoni	YOUNG, Robert Leslie	(72) Bischoff, Matthias
(72) Abellán Salmerón, Antoni	CURD, Richard	Hofer, Roland
(31) 201730243	WRIGHT, Roger Benfield	Neumüller, Mathias
(32) 24.02.2017	(51) B09B 3/70	Ostheimer, Pascal
(33) Spain	(11) EP4159334	Salzmann, Christoph
(51) B08B 7/00	(21) EP21200082.2	Schwinghammer, Jan
B29C 70/68	(47) 01.11.2023	(51) B21C 51/00
(11) EP3417953	(22) 30.09.2021	B21F 3/00
(21) EP18171999.8	(54) METHOD FOR PURIFYING SOILS	B21F 11/00
(47) 01.11.2023	POLLUTED WITH CALCIUM SULPHATE	B21F 35/00
(22) 14.05.2018	(73) GBAV Gesellschaft für Boden- und	H01R 43/28
(54) NUTPLATE PREPARATION LASER	Abfallverwertung mbH	H02G 1/12
SYSTEM	(72) Schmidt, Andreas	B21D 7/16
(73) Lockheed Martin Corporation	(51) B09C 1/10	G01N 21/952
(72) COLEMAN, David Haynes	A01G 22/00	(11) EP3965973
MITCHELL, Caroline Rebecca	C02F 3/32	(21) EP20726005.0
STODDARD, Michael Bryan	C02F 11/00	(47) 01.11.2023
TWADDLE, Steven E.	C02F 11/02	(87) EP2020062727
(31) 201715631001	C02F 101/20	12.11.2020
(32) 23.06.2017	(11) EP4037848	(22) 07.05.2020
(33) United States of America	(21) EP20780243.0	(54) FORMING MACHINE AND METHOD
(51) B08B 9/32	(47) 01.11.2023	FOR PRODUCING BENT PARTS FROM
B08B 9/28	(87) EP2020077598	AN INSULATED ELONGATE MATERIAL
A61L 2/20	08.04.2021	HAVING STRIPPED ENDS
A61L 2/22	(22) 01.10.2020	(73) WAFIOS Aktiengesellschaft
B67C 7/00	(54) USE OF A PHYTOEXTRACTION	(72) KALKAU, Volker
(11) EP3199489	COMPOSITION IN THE EXTRACTION	(31) 102019111940
(21) EP15844366.3	OF AT LEAST ONE HEAVY METAL	(32) 08.05.2019
(47) 01.11.2023	PRESENT IN A SOIL AND METHOD	(33) Germany
(87) JP2015076726	FOR PHYTOEXTRACTION OF SOIL	(51) B21D 5/02
31.03.2016	CONTAMINATED BY AT LEAST	(11) EP4039384
(22) 18.09.2015	ONE HEAVY METAL USING A	(21) EP20871154.9
(54) CARBONATED BEVERAGE FILLING	PHYTOEXTRACTION COMPOSITION.	(47) 01.11.2023
METHOD AND DEVICE	(73) Biomed	(87) JP2020036791
(73) Dai Nippon Printing Co., Ltd.	(72) GIFU, Patricia	08.04.2021
(72) YAMASHITA, Toru	VINCENT, Ludovic	(22) 29.09.2020
HAYAKAWA, Atsushi	(31) 1911013	(54) PUNCH DIE WITH EAR PORTION, AND
MIYAWAKI, Takuma	(32) 04.10.2019	METHOD FOR OPERATING SAME
SUGA, Yusuke	(33) France	(73) Amada Co., Ltd.
(31) 2014194747	(51) B21B 13/14	(72) HAYASHI, Shiro
(32) 25.09.2014	(11) EP4117834	OYAMADA, Nobuo
(33) Japan	(21) EP21702984.2	ONAGI, Yousuke
(51) B08B 9/34	(47) 01.11.2023	(31) 2019182635
(11) EP3825016	(87) EP2021052254	(32) 03.10.2019
(21) EP19210257.2	16.09.2021	(33) Japan
(47) 01.11.2023	(22) 01.02.2021	(51) B21D 7/022
(22) 20.11.2019	(54) ROLL STAND FOR ROLLING A METAL	B21D 7/08
(54) FLUID CONVEYING SYSTEM FOR A	STRIP	B21D 11/12
WASHING MACHINE	(73) SMS Group GmbH	B21F 1/00

(11) EP3921097	KURODA, Ryo	(33) Japan
(21) EP20707843.7	(31) 2015111436	(51) B21F 15/04
(47) 01.11.2023	(32) 01.06.2015	B21F 27/02
(87) IT2020050020	(33) Japan	B64F 5/00
13.08.2020	(51) B21D 22/28	B64G 1/22
(22) 05.02.2020	B21D 51/38	B64G 1/40
(54) MACHINE FOR WORKING BARS	(11) EP4028182	D04C 5/02
AND CORRESPONDING WORKING	(21) EP20785838.2	D04C 5/04
METHOD	(47) 01.11.2023	D04C 5/06
(73) M.E.P. Macchine Elettroniche Piegatrici	(87) IB2020058368	B21F 33/00
S.p.A.	18.03.2021	(11) EP4121229
(72) DEL FABRO, Giorgio	(22) 09.09.2020	(21) EP21713724.9
(31) 201900001631	(54) METHOD FOR PRODUCING AN EASY-	(47) 01.11.2023
(32) 05.02.2019	OPEN LID FOR A CONTAINER, AND AN	(87) FI2021050185
(33) Italy	EASY-OPEN LID FOR A CONTAINER	23.09.2021
(51) B21D 22/20	(73) Trivium Packaging Group Netherlands	(22) 15.03.2021
C23C 2/12	B.V.	(54) DEVICE FOR MANUFACTURING A
C23C 2/28	(72) VAN JAARSVELD, Hein	WEAVE
C23C 2/40	TIELBEKE, Gerard	(73) Aurora Propulsion Technologies Oy
C23C 28/02	WOESTEFELD, Jeffry	(72) HELIÖ, Matti
B21D 22/02	(31) 19196289	YLI-OPAS, Perttu
C22C 38/02	(32) 09.09.2019	LAITINEN, Jaakko
C22C 38/06	(33) European Patent Office (EPO)	TAKALA, Roope
C22C 38/24	(51) B21D 37/12	(31) 20205268
C21D 7/13	B21D 39/04	(32) 16.03.2020
C21D 9/46	F16L 33/00	(33) Finland
C22C 38/08	(11) EP4048458	(51) B21J 15/02
(11) EP3611288	(21) EP21759021.5	B21J 15/10
(21) EP18915788.6	(47) 01.11.2023	B21J 15/22
(47) 01.11.2023	(87) CZ2021050068	(11) EP3519123
(87) CN2018124145	30.12.2021	(21) EP17781370.6
31.10.2019	(22) 22.06.2021	(47) 01.11.2023
(22) 27.12.2018	(54) DEVICE FOR CRIMPING THE END	(87) US2017054481
(54) HOT STAMPED COMPONENT, PRE-	CONNECTOR ON A HOSE OR PIPE	05.04.2018
COATED STEEL PLATE FOR HOT	(73) MSV SYSTEMS CZ s.r.o.	(22) 29.09.2017
STAMPING, AND HOT STAMPING	(72) TICHY, David	(54) PORTABLE HYDRAULIC POWER TOOL
PROCESS	KREJCIK, Miroslav	(73) Apex Brands, Inc.
(73) Ironovation Materials Technology Co.,	(31) 20200036	(72) DUGENNE, Christophe
Ltd.	(32) 25.06.2020	DELANOUE, Romain
(72) Yi. Hongliang	(33) Czech Republic	(31) 201662402329 P
CHANG, Zhiyuan	(51) B21D 41/04	(32) 30.09.2016
LIU, Zhaoyuan	E04C 3/06	(33) United States of America
YANG, Dapeng	(11) EP3774108	(51) B22D 5/02
XIONG, Xiaochuan	(21) EP19716865.1	B22D 5/00
(31) 201810401259	(47) 01.11.2023	B22D 17/26
(32) 28.04.2018	(87) EP2019058518	B29C 33/22
(33) China	10.10.2019	B29C 45/64
(51) B21D 22/26	(22) 04.04.2019	B29C 45/66
B21D 5/01	(54) STRUT AND METHOD OF	B29C 49/36
B21D 22/02	MANUFACTURING A STRUT	(11) EP3383566
B21D 22/20	(73) Hydro Extruded Solutions AS	(21) EP16871669.4
B21D 24/16	(72) LIST CLAUSEN, Edvin	(47) 01.11.2023
B21D 53/88	PEDERSEN, Carsten	(87) US2016064826
(11) EP3305429	(31) 1850381	08.06.2017
(21) EP16803397.5	(32) 05.04.2018	(22) 02.12.2016
(47) 01.11.2023	(33) Sweden	(54) DIE CASTING MOLD AND CAROUSEL
(87) JP2016066238	(51) B21F 3/04	(73) Farmer Mold And Machine Works, Inc.
08.12.2016	(11) EP4066959	(72) GILMOUR, James
(22) 01.06.2016	(21) EP22158071.5	SCHIANO, John
(54) PRESS MOLDED PRODUCT, PRESS	(47) 01.11.2023	GOODMAN, John
MOLDING METHOD, AND PRESS	(22) 22.02.2022	EMERSON, Ron
MOLDING DEVICE	(54) SPRING FORMING MACHINE	(31) 201562262754 P
(73) Nippon Steel Corporation	(73) ASAHI-SEIKI MANUFACTURING CO.,	(32) 03.12.2015
(72) TANAKA, Yasuharu	LTD.	(33) United States of America
OGAWA, Misao	(72) OBAYASHI, Eiji	(51) B22D 19/14
MIYAGI, Takashi	FUKATSU, Ryota	F27B 1/22
ASO, Toshimitsu	(31) 2021056575	F27B 1/24
TANOUE, Hiroyuki	(32) 30.03.2021	F27D 1/00

F27D 1/04	(73) Proterial, Ltd.	(54) LAYER-SELECTIVE EXPOSURE IN
F27D 9/00	(72) OHATA Takumi	THE OVERHANG REGION IN ADDITIVE
B22D 19/08	HATTORI Toshiyuki	MANUFACTURING
F27D 1/06	(31) 2018015990	(73) TRUMPF Laser-und Systemtechnik
F27D 1/08	(32) 31.01.2018	GmbH
(11) EP3417225	(33) Japan	(72) MAURER, Dominik
(21) EP17752614.2	(51) B22F 3/15	SPIEGELHALDER, Roland
(47) 01.11.2023	B22F 7/06	(31) 102017126624
(87) CA2017050215	B22D 25/02	(32) 13.11.2017
24.08.2017	B22F 5/00	(33) Germany
(22) 17.02.2017	B22F 7/08	(51) B22F 7/02
(54) WEAR RESISTANT COMPOSITE	F04D 29/02	C22C 33/02
MATERIAL AND METHOD OF	F04D 29/28	B22F 1/00
MANUFACTURING A COOLING	(11) EP3148733	B22F 3/105
ELEMENT	(21) EP15726120.7	B22F 1/05
(73) Hatch Ltd.	(47) 01.11.2023	B22F 10/20
(72) JASTRZEBSKI, Maciej Urban	(87) EP2015061903	B22F 10/28
SHAW, John Andrew Ferguson	03.12.2015	B22F 10/34
CAMERON, Ian Archibald	(22) 28.05.2015	(11) EP3046704
RUDGE, David Henry	(54) METHOD OF MANUFACTURING A	(21) EP14771830.8
PONOMAR, Andriy	COMPONENT OF A TURBOMACHINE	(47) 01.11.2023
PONOMAR, Volodymyr	(73) Nuovo Pignone Tecnologie - S.r.l.	(87) EP2014069603
VICKRESS, Dustin Alexander	(72) MASI, Gabriele	26.03.2015
(31) 201662296944 P	BELLACCI, Michelangelo	(22) 15.09.2014
(32) 18.02.2016	CAPPUCCINI, Filippo	(54) METAL POWDER FOR POWDER-
(33) United States of America	IOZZELLI, Federico	BASED PRODUCTION PROCESSES
(51) B22F 3/105	(31) CO20140017	AND METHOD FOR PRODUCTION
B33Y 10/00	(32) 30.05.2014	OF A METALLIC COMPONENT FROM
B33Y 30/00	(33) Italy	METAL POWDER
(11) EP3554749	(51) B22F 3/22	(73) ThyssenKrupp Steel Europe AG
(21) EP17880406.8	C04B 35/48	(72) FECHTE-HEINEN, Rainer
(47) 01.11.2023	C04B 35/56	MAYER, Stefan
(87) US2017063874	C04B 35/584	OFFERGELD, Andreas
21.06.2018	C04B 35/634	PATBERG, Lothar
(22) 30.11.2017	C08L 23/08	COTT, Andreas
(54) ADDITIVE MANUFACTURING	(11) EP3563950	(31) 102013110417
SYSTEMS AND METHODS	(21) EP18170805.8	(32) 20.09.2013
(73) General Electric Company	(47) 01.11.2023	(33) Germany
(72) HARDING, Kevin, George	(22) 04.05.2018	(51) B22F 7/06
(31) 201615378116	(54) BINDER FOR INJECTION-MOULDING	H01B 1/02
(32) 14.12.2016	COMPOSITION	H01B 1/22
(33) United States of America	(73) Comadur S.A.	B23K 35/02
(51) B22F 3/15	(72) Cartier, Damien	B22F 1/052
B22F 5/00	Dumain, Jonathan	B22F 1/10
C22C 29/08	(51) B22F 5/10	H01L 23/00
C22C 38/00	B22F 7/00	(11) EP3569329
C22C 38/22	B22F 10/28	(21) EP17891125.1
C22C 38/44	B22F 10/366	(47) 01.11.2023
B22F 7/08	B22F 10/38	(87) JP2017000654
C22C 29/06	B29C 64/153	19.07.2018
C22C 38/02	B29C 64/393	(22) 11.01.2017
C22C 38/40	B33Y 10/00	(54) COPPER PASTE FOR PRESSURELESS
C22C 38/56	B33Y 50/00	BONDING, BONDED BODY AND
C22C 38/04	B33Y 80/00	SEMICONDUCTOR DEVICE
C22C 38/34	C04B 35/622	(73) Resonac Corporation
C22C 38/46	C04B 35/653	(72) NAKAKO, Hideo
B21B 27/03	B22F 5/00	KURAFUCHI, Kazuhiko
C22C 33/02	B22F 10/36	EJIRI, Yoshinori
(11) EP3747564	B33Y 30/00	ISHIKAWA, Dai
(21) EP19747768.0	B33Y 50/02	SUGAMA, Chie
(47) 01.11.2023	(11) EP3710182	KAWANA, Yuki
(87) JP2019003404	(21) EP18765433.0	(51) B22F 9/06
08.08.2019	(47) 01.11.2023	B22F 1/00
(22) 31.01.2019	(87) EP2018073788	B22F 1/062
(54) CEMENTED CARBIDE COMPOSITE	16.05.2019	B22F 1/068
ROLL AND MANUFACTURING	(22) 04.09.2018	B22F 1/08
METHOD OF CEMENTED CARBIDE		B22F 1/16
COMPOSITE ROLL		B23K 26/0622



B23K 26/08	(11) EP3658319	MAKINO, Hiroyasu
B23K 26/38	(21) EP18746927.5	(51) B23B 51/04
C03B 37/026	(47) 01.11.2023	(11) EP3807036
C03B 37/16	(87) EP2018070397	(21) EP19713417.4
G01N 33/531	31.01.2019	(47) 01.11.2023
G01N 33/553	(22) 27.07.2018	(87) EP2019057070
B23K 101/34	(54) CUTTING TOOL AND METHOD FOR	19.12.2019
B23K 103/16	MACHINING A BEARING RACE	(22) 21.03.2019
C22C 1/04	(73) Gühring KG	(54) DEEP HOLE DRILL AND DRILLING
C22C 1/10	(72) HECKEL, Gerd	TOOL HAVING ONE OR MORE
C22C 5/00	HOLLFELDER, Hans-Peter	DEPRESSIONS IN THE CUTTING
(11) EP3632597	THANNER, Jürgen	SURFACE
(21) EP18810273.5	(31) 102017213046	(73) botek Präzisionsbohrtechnik GmbH
(47) 01.11.2023	(32) 28.07.2017	(72) SCHUR, Gotthold
(87) KR2018006062	(33) Germany	(31) 102018114139
06.12.2018	(51) B23B 29/034	(32) 13.06.2018
(22) 29.05.2018	(11) EP3658320	(33) Germany
(54) METHOD FOR PREPARING	(21) EP18746928.3	(51) B23D 49/10
NONSPHERICAL/ASYMMETRIC	(47) 01.11.2023	B23D 51/10
MICROPARTICLES BY USING GLASS-	(87) EP2018070400	(11) EP3765226
COATED FINE WIRE	31.01.2019	(21) EP19767627.3
(73) University - Industry Cooperation Group	(22) 27.07.2018	(47) 01.11.2023
of Kyung Hee University	(54) CUTTING TOOL COMPRISING AN	(87) US2019018701
(72) PARK, Wook	ADJUSTING DEVICE	19.09.2019
SONG, Suk Heung	(73) Gühring KG	(22) 20.02.2019
(31) 20180053133	(72) HECKEL, Gerd	(54) BLADE CLAMP FOR POWER TOOL,
20170066405	HOLLFELDER, Hans-Peter	RECIPROCATING POWER TOOL, AND
(32) 09.05.2018	THANNER, Jürgen	METHOD OF OPERATING SUCH A
29.05.2017	(31) 102017213063	BLADE CLAMP
(33) Korea (Republic)	(32) 28.07.2017	(73) Milwaukee Electric Tool Corporation
Korea (Republic)	(33) Germany	(72) WYLER, Andrew R.
(51) B22F 12/46	(51) B23B 31/165	(31) 201862643851 P
B22F 10/28	B23B 31/28	(32) 16.03.2018
B29C 64/393	B23B 31/40	(33) United States of America
B33Y 30/00	(11) EP3672748	(51) B23D 49/10
B33Y 50/02	(21) EP18766113.7	B23D 59/04
G01K 11/125	(47) 01.11.2023	B23D 51/00
B22F 10/32	(87) AT2018050018	B27B 19/09
B22F 10/38	28.02.2019	B23Q 11/12
B22F 12/44	(22) 23.08.2018	(11) EP3903978
B22F 12/90	(54) DEVICE FOR CLAMPING A	(21) EP19903389.5
(11) EP3310510	WORKPIECE	(47) 01.11.2023
(21) EP16724417.7	(73) MOST Technik GmbH	(87) JP2019046791
(47) 01.11.2023	(72) MOSER, Friedrich	02.07.2020
(87) EP2016061565	(31) 507122017	(22) 29.11.2019
22.12.2016	(32) 25.08.2017	(54) WORKING MACHINE
(22) 23.05.2016	(33) Austria	(73) Koki Holdings Co., Ltd.
(54) APPARATUS FOR ADDITIVE	(51) B23B 51/00	(72) NAKANO Ryosuke
MANUFACTURING HAVING A	(11) EP3656494	YOKOYAMA Yoshikazu
MEASURING DEVICE	(21) EP19193507.1	INUI Ken
(73) Airbus Defence and Space GmbH	(47) 01.11.2023	(31) 2018248284
(72) ENGEL, Franz	(22) 26.08.2019	(32) 28.12.2018
NICK, Andreas	(54) STEP DRILL	(33) Japan
REHM, Wolfgang	(73) Heller Tools GmbH	(51) B23K 1/00
WEIMER, Christian	(72) LAMPE, Rainer	B23K 35/26
(31) 102015007790	(31) 202018106720 U	B23K 20/02
(32) 19.06.2015	(32) 26.11.2018	H05K 3/34
(33) Germany	(33) Germany	B23K 101/38
(51) B23B 27/04	(51) B23B 51/02	(11) EP3167992
B23B 29/04	(11) EP3680047	(21) EP16187779.0
(11) EP3939723	(21) EP17924021.3	(47) 01.11.2023
(21) EP20186277.8	(47) 01.11.2023	(22) 08.09.2016
(47) 01.11.2023	(87) JP2017032266	(54) LEAD SOLDER JOINT STRUCTURE
(22) 16.07.2020	14.03.2019	AND MANUFACTURING METHOD
(54) TURNING TOOL	(22) 07.09.2017	THEREOF
(73) WALTER AG	(54) DRILL	(73) NEC Space Technologies, Ltd.
(72) WÜTZ, Michael	(73) OSG Corporation	(72) OGAWA, Bunsuke
(51) B23B 29/034	(72) YAMAMOTO, Takahiro	(31) 2016154442

2015179112	(32) 05.08.2016 11.09.2015	(33) Japan Japan	(54) SENSOR-BASED POWER CONTROLS FOR A WELDING SYSTEM	(33) United States of America
(51) B23K 3/047 B23K 1/00 B23K 3/03 B23K 101/36	(11) EP3666439 (21) EP18843223.1 (47) 01.11.2023 (87) JP2018029550 14.02.2019 (22) 07.08.2018	(73) Hakko Corporation (72) MATSUZAKI, Kenji NAKAMURA, Kenta TAKEUCHI, Hitoshi (31) 2018131639 201762543797 P (32) 11.07.2018 10.08.2017 (33) Japan United States of America	(73) Illinois Tool Works Inc. (72) DENIS, Marc Lee HSU, Christopher (31) 201414516281 (32) 16.10.2014 (33) United States of America	(51) B23K 10/00 (11) EP2613905 (21) EP11758329.4 (47) 01.11.2023 (87) US2011050997 15.03.2012 (22) 09.09.2011
(51) B23K 9/02 B23K 9/127	(11) EP3981536 (21) EP21197443.1 (47) 01.11.2023 (22) 17.09.2021	(54) ARC-TRACKING WELDING METHOD AND WELDING DEVICE (73) Kabushiki Kaisha Kobe Seiko Sho (Kobe Steel, Ltd.) (72) NISHIDA, Yoshiharu ONE, Tsutomu FUJII, Tatsuya (31) 2020171920 (32) 12.10.2020 (33) Japan	(51) B23K 9/095 B23K 9/10 B23K 9/26 H01H 1/34 B23K 10/00 (11) EP3549706 (21) EP19166758.3 (47) 01.11.2023 (22) 02.04.2019	(54) FORWARD FLOW, HIGH ACCESS CONSUMABLES FOR A PLASMA ARC CUTTING TORCH (73) Hypertherm, Inc. (72) SHIPULSKI, Michael E. SANDERS, Nicholas A. JASON, Jay L. MATHER, Jonathan TWAROG, Peter J. (31) 878512 (32) 09.09.2010 (33) United States of America
(51) B23K 9/095 B23K 9/073 B23K 9/12	(11) EP3184227 (21) EP15834443.2 (47) 01.11.2023 (87) JP2015071673 25.02.2016 (22) 30.07.2015	(73) Daihen Corporation (72) IDE, Akihiro (31) 2014165785 (32) 18.08.2014 (33) Japan	(54) AUTOMATIC IDENTIFICATION OF COMPONENTS FOR WELDING AND CUTTING TORCHES (73) The ESAB Group Inc. (72) EWING, Frederic DOUGHERTY, Maximilian NADLER, Michael (31) 201815947258 (32) 06.04.2018 (33) United States of America	(51) B23K 11/00 B23K 11/16 B23K 11/30 B23K 11/11 B23K 11/18 B23K 101/32 B23K 101/38 B23K 103/10 B23K 101/34 B23K 11/36 (11) EP3086897 (21) EP14873299.3 (47) 01.11.2023 (87) US2014058202 02.07.2015 (22) 30.09.2014
(51) B23K 9/095 B23K 9/10	(11) EP3206826 (21) EP15745076.8 (47) 01.11.2023 (87) US2015041462 21.04.2016 (22) 22.07.2015	(54) ARC-TRACKING WELDING METHOD AND WELDING DEVICE (73) Kabushiki Kaisha Kobe Seiko Sho (Kobe Steel, Ltd.) (72) NISHIDA, Yoshiharu ONE, Tsutomu FUJII, Tatsuya (31) 2020171920 (32) 12.10.2020 (33) Japan	(72) ESKANDARI, Neda PARNIAN, Neda MOOSAVIMEHR, Ehsan ABDOLLAHI, Abdolreza LOWSON, Mark (31) 201862628009 P (32) 08.02.2018 (33) United States of America	(54) WELDING ASSEMBLY AND METHOD (73) Innovative Weld Solutions Ltd. (72) ANANTHANARAYANAN, Venkatasubramanian (31) 201414225641 201314140362 (32) 26.03.2014 24.12.2013 (33) United States of America United States of America
(51) B23K 9/095 B23K 9/10	(11) EP3206826 (21) EP15745076.8 (47) 01.11.2023 (87) US2015041462 21.04.2016 (22) 22.07.2015	(54) ARC-TRACKING WELDING METHOD AND WELDING DEVICE (73) Daihen Corporation (72) IDE, Akihiro (31) 2014165785 (32) 18.08.2014 (33) Japan	(54) METHOD FOR SEAM TRACKING IN PIPE WELDING (73) Novarc Technologies Inc. (72) ESKANDARI, Neda PARNIAN, Neda MOOSAVIMEHR, Ehsan ABDOLLAHI, Abdolreza LOWSON, Mark (31) 201862628009 P (32) 08.02.2018 (33) United States of America	(51) B23K 11/00 B23K 20/02 F16B 4/00 B23P 11/00 B23K 11/16 B21K 25/00 B23K 20/227 (11) EP3769893 (21) EP19771465.2 (47) 01.11.2023 (87) JP2019011669 26.09.2019 (22) 20.03.2019
(51) B23K 9/095 B23K 9/10	(11) EP3206826 (21) EP15745076.8 (47) 01.11.2023 (87) US2015041462 21.04.2016 (22) 22.07.2015	(54) ARC-TRACKING WELDING METHOD AND WELDING DEVICE (73) Daihen Corporation (72) IDE, Akihiro (31) 2014165785 (32) 18.08.2014 (33) Japan	(54) SYSTEM UTILIZING A DISTRIBUTED POWER BUS (73) Illinois Tool Works Inc. (72) BUNKER, Thomas A. MANTHE, Alan A. SALSICH, Anthony V. MADSEN, Michael David ALBRECHT, Bruce Patrick (31) 201213538835 (32) 29.06.2012	(54) METHOD FOR MANUFACTURING A JOINED MEMBER (73) Origin Company, Limited (72) HAYASHI, Toshihiko SUZUKI, Motofumi (31) 2018056159 (32) 23.03.2018 (33) Japan
(51) B23K 9/095 B23K 9/10	(11) EP3206826 (21) EP15745076.8 (47) 01.11.2023 (87) US2015041462 21.04.2016 (22) 22.07.2015	(54) ARC-TRACKING WELDING METHOD AND WELDING DEVICE (73) Daihen Corporation (72) IDE, Akihiro (31) 2014165785 (32) 18.08.2014 (33) Japan	(54) SYSTEM UTILIZING A DISTRIBUTED POWER BUS (73) Illinois Tool Works Inc. (72) BUNKER, Thomas A. MANTHE, Alan A. SALSICH, Anthony V. MADSEN, Michael David ALBRECHT, Bruce Patrick (31) 201213538835 (32) 29.06.2012	(51) B23K 26/046

G02B 7/08	(31) 20168254	(54) GAS-SHIELDED ARC WELDING WIRE AND GAS-SHIELDED ARC WELDING METHOD
B23K 26/06	(32) 06.04.2020	
G02B 15/14	(33) European Patent Office (EPO)	
G02B 19/00	(51) B23K 26/342	(73) Kabushiki Kaisha Kobe Seiko Sho (Kobe Steel, Ltd.)
G02B 27/09	B29C 33/38	
(11) EP3850413	B23K 26/144	(72) IKAI, Kazuya
(21) EP19762951.2	B23P 15/24	IKEDA, Tetsunao
(47) 01.11.2023	B29C 33/42	(31) 2017240614
(87) EP2019073428	B23K 103/04	(32) 15.12.2017
19.03.2020	B23K 103/14	(33) Japan
(22) 03.09.2019	B23K 103/18	
(54) APPARATUS AND METHOD FOR FOCUS ADJUSTMENT FOR A MATERIAL PROCESSING DEVICE, AND DEVICE FOR LASER MATERIAL PROCESSING	B23K 103/00	(51) B23K 37/02
(73) JENOPTIK Optical Systems GmbH	(11) EP3819067	B23K 37/00
(72) WERSCHNIK, Jan	(21) EP19830646.6	B23K 9/127
FRANZ, Stefan	(47) 01.11.2023	B62D 55/30
ESSELBACH, Achmed	(87) JP2019026331	(11) EP3685958
(31) 102019106443	09.01.2020	(21) EP19832267.9
102018007212	(22) 02.07.2019	(47) 01.11.2023
(32) 13.03.2019	(54) METHOD OF MANUFACTURING A MEMBER	(87) CN2019095300
10.09.2018	(73) Proterial, Ltd.	11.06.2020
(33) Germany	(72) KUNITOMO, Kenichiro	(22) 09.07.2019
Germany	KOSEKI, Shuho	(54) CRAWLING WELDING ROBOT AND CONTROL METHOD THEREOF
(51) B23K 26/06	SHIRATORI, Hiroshi	(73) Beijing Bo Tsing Tech Co., Ltd
B23K 26/00	KAWANAKA, Hirotsugu	(72) FENG, Xiaobing
B23K 26/08	(31) 2018128913	PAN, Jiluan
(11) EP2849915	(32) 06.07.2018	GAO, Lisheng
(21) EP13791156.6	(33) Japan	PAN, Baiwa
(47) 01.11.2023	(51) B23K 26/36	DUAN, Ruimin
(87) US2013041365	B23K 26/00	LI, Hailong
21.11.2013	B23K 26/082	(31) 201811496503
(22) 16.05.2013	B23P 17/00	(32) 07.12.2018
(54) CIRCUMSCRIBING DEFECTS IN OPTICAL DEVICES	G05B 19/404	(33) China
(73) View, Inc.	B23K 26/38	
(72) MARTIN, Todd	(11) EP3766628	(51) B23P 6/00
(31) 201261649184 P	(21) EP19766960.9	B29C 73/04
(32) 18.05.2012	(47) 01.11.2023	F01D 5/00
(33) United States of America	(87) JP2019008525	F01D 5/14
(51) B23K 26/0622	19.09.2019	F01D 5/28
B23K 26/082	(22) 05.03.2019	B29L 31/08
B23K 26/362	(54) CUT-PROCESSING MACHINE AND CUT-PROCESSING METHOD	(11) EP4159361
B44C 1/22	(73) Amada Co., Ltd.	(21) EP22192729.6
(11) EP4046741	(72) NAGAYAMA, Takehiro	(47) 01.11.2023
(21) EP21158746.4	KANNO, Kazuhiro	(22) 30.08.2022
(47) 01.11.2023	(31) 2018044115	(54) METHOD OF METAL WORK REPAIR IN HYBRID COMPOSITE BLADES
(22) 23.02.2021	(32) 12.03.2018	(73) Rolls-Royce plc
(54) METHOD FOR LASER MACHINING OF A TIMEPIECE COMPONENT	(33) Japan	(72) Vadugappatty Srinivasan, Dharun
(73) DM Surfaces SA	(51) B23K 35/30	Idapalapati, Sridhar
(72) SPECHT, Tristan	B23K 9/16	(31) 202113817
GIL VILLALBA, Abel	B23K 9/173	(32) 28.09.2021
FAVRE, Raynald	B23K 9/23	(33) United Kingdom
(51) B23K 26/08	B23K 35/368	
(11) EP4106944	C22C 38/00	(51) B23P 15/00
(21) EP21706312.2	C22C 38/02	H01R 13/523
(47) 01.11.2023	C22C 38/04	H01R 13/633
(87) EP2021054528	C22C 38/44	H01R 43/18
14.10.2021	C22C 38/46	(11) EP4031321
(22) 24.02.2021	C22C 38/48	(21) EP20780954.2
(54) LASER MACHINING TOOL	C22C 38/58	(47) 01.11.2023
(73) Bystronic Laser AG	(11) EP3725456	(87) EP2020075634
(72) BÜRGI, Fabian	(21) EP18887929.0	25.03.2021
BERGAMIN, Marco	(47) 01.11.2023	(22) 14.09.2020
KÄHR, Christian	(87) JP2018044049	(54) SUBSEA CONNECTOR HANDLE AND ITS MANUFACTURING METHOD
	20.06.2019	(73) Siemens Energy Global GmbH & Co. KG
	(22) 29.11.2018	(72) COX, Thomas
		PRIDMORE, James
		SMITH, Jean-Pierre
		(31) 201913607
		(32) 20.09.2019

(33) United Kingdom	(33) Italy	19.01.2018
(51) B23Q 1/03	(51) B25B 21/02	(33) United Kingdom
(11) EP4066988	B25B 23/147	United Kingdom
(21) EP22163671.5	(11) EP3362225	(51) B25G 3/32
(47) 01.11.2023	(21) EP16778253.1	B26B 5/00
(22) 22.03.2022	(47) 01.11.2023	(11) EP4035838
(54) WORKPIECE LOCKING SYSTEM	(87) EP2016072712	(21) EP21216414.9
(73) C.M.S. S.p.A.	20.04.2017	(47) 01.11.2023
(72) RATTI, Federico	(22) 23.09.2016	(22) 21.12.2021
(31) 202100008150	(54) PULSE TOOL	(54) HANDLE OF ASSEMBLY TOOL
(32) 01.04.2021	(73) Atlas Copco Industrial Technique AB	WITH AN ADJUSTABLE CENTER OF
(33) Italy	(72) ASPLUND, Daniel, Per, Erik	GRAVITY
(51) B23Q 1/70	(31) 1551333	(73) Jiminox Limited
B23B 29/034	(32) 15.10.2015	(72) KWOK, Ngok Wing Jimmy
B23Q 27/00	(33) Sweden	(31) 202110122992
B23Q 5/34	(51) B25B 23/10	(32) 29.01.2021
(11) EP3426434	(11) EP3566813	(33) China
(21) EP17708846.5	(21) EP19167960.4	(51) B25H 3/02
(47) 01.11.2023	(47) 01.11.2023	(11) EP3623112
(87) EP2017055744	(22) 08.04.2019	(21) EP19191675.8
14.09.2017	(54) SCREW HEAD HOLDER FOR A HAND-	(47) 01.11.2023
(22) 10.03.2017	HELD SCREWING TOOL	(22) 14.08.2019
(54) TOOL SPINDLE	(73) Friedrich Duss Maschinenfabrik GmbH &	(54) STORAGE DEVICE AND METHOD FOR
(73) Niles-Simmons-Hegenscheidt GmbH	Co.	ITS USE
(72) KOCHSIEK, Adolf	(72) Dannenmann, Lars	(73) TANOS GmbH Verpacken Ordnen
(31) 16159864	Nothacker, Frank	Präsentieren
(32) 11.03.2016	(31) 102018205847	(72) Bunnik, Edwin
(33) European Patent Office (EPO)	(32) 17.04.2018	Kuhls, Timo
(51) B23Q 3/15	(33) Germany	(31) 102018215669
H01F 7/02	(51) B25F 5/02	(32) 14.09.2018
H01F 7/04	(11) EP3623111	(33) Germany
B21D 43/24	(21) EP19194846.2	(51) B25J 3/04
B23Q 3/154	(47) 01.11.2023	B25J 9/00
B66C 1/04	(22) 02.09.2019	B25J 13/08
(11) EP3746261	(54) HAND-HELD ELECTRIC APPLIANCE	G05B 19/418
(21) EP19743276.8	WITH A DISPLACEABLE HANDLE	B21J 15/10
(47) 01.11.2023	(73) Vorwerk & Co. Interholding GmbH	B23Q 9/00
(87) US2019015541	(72) Arnold, Hans-Peter	(11) EP3359342
01.08.2019	Büning, Thomas	(21) EP16854075.5
(22) 29.01.2019	Fleczok, Benjamin	(47) 01.11.2023
(54) MAGNETIC LIFTING DEVICE HAVING	Frielinghaus, Robert	(87) US2016053096
POLE SHOES WITH SPACED APART	Hillen, Lorenz	13.04.2017
PROJECTIONS	Holz, Christian	(22) 22.09.2016
(73) Magswitch Technology, Inc.	Isenberg, Gerhard	(54) SYSTEM AND METHOD FOR
(72) MORTON, David H.	Mosebach, Andrej	SELF-CONTAINED MODULAR
SQUILLACE, Thomas D.	Ortmann, Roman	MANUFACTURING DEVICE HAVING
KARP, Paul J.	Schmitz, Kevin	NESTED CONTROLLERS
(31) 201862623407 P	Vitz, Fabian	(73) Airbus Robotics LLC
(32) 29.01.2018	van Teeffelen, Niklas	(72) FADLOVICH, Chace, Howard
(33) United States of America	Hackert, Georg	BROWN, Robert, Allen
(51) B23Q 3/155	Helmich, Martin	WHALEN-ROBINSON, David, James
B23D 35/00	(31) 102018121740	WOOGERD, Michael, Gary
B25J 5/02	(32) 06.09.2018	DAVIS, Eric, J.
(11) EP4028211	(33) Germany	(31) 201514876564
(21) EP20786587.4	(51) B25F 5/02	(32) 06.10.2015
(47) 01.11.2023	B23Q 11/00	(33) United States of America
(87) IB2020058324	(11) EP3530411	(51) B25J 5/00
18.03.2021	(21) EP19151629.3	B65G 1/137
(22) 08.09.2020	(47) 01.11.2023	G06Q 50/30
(54) AUTOMATED SYSTEM FOR	(22) 14.01.2019	G06Q 50/28
COMPOSING OR DISASSEMBLING A	(54) DOCKING STATION	(11) EP3525146
CUTTING FORMATION	(73) Black & Decker Inc.	(21) EP18205099.7
(73) Faspar S.p.A.	(72) LAUER, Arthur	(47) 01.11.2023
(72) AIME, Paolo Ottavio	ROMPEL, Markus	(22) 08.09.2014
AIME, Maddalena Lucia	CACCHIOTTI, Ricky	(54) AUTONOMOUS MOBILE PICKING
(31) 201900015875	(31) 201806482	(73) Dematic Corp.
(32) 09.09.2019	201800849	(72) Berghorn, David M.
	(32) 20.04.2018	Hunter, Todd S.

Khodl, Michael S. (31) 201361875341 P (32) 09.09.2013 (33) United States of America	(73) Prodrive Technologies Innovation Services B.V. (72) VAN DER KANT, Tom Adrianus Henricus MEESSEN, Koen Joseph	(47) 01.11.2023 (22) 22.06.2022 (54) MOUNTING AND DISMOUNTING SUPPORT MECHANISM FOR A WORKPIECE HOLDING DEVICE OF A WORKPIECE CONVEYING APPARATUS
(51) B25J 9/00 B25J 9/06 B25J 9/10 (11) EP4037874 (21) EP20797847.9 (47) 01.11.2023 (87) IB2020059049 08.04.2021 (22) 28.09.2020 (54) KINEMATIC CHAIN TO ASSIST FLEXION-EXTENSION OF A JOINT (73) Scuola Superiore di Studi Universitari e di Perfezionamento Sant'Anna (72) VITIELLO, Nicola BALDONI, Andrea CREA, Simona SCALAMOGNA, Antonio FIUMALBI, Tommaso (31) 201900017558 (32) 30.09.2019 (33) Italy	(31) 19208647 (32) 12.11.2019 (33) European Patent Office (EPO) (51) B25J 9/02 B28B 1/00 E04B 1/35 E04G 21/04 E04F 21/08 B25J 11/00 B33Y 30/00 (11) EP3733354 (21) EP19784817.9 (47) 01.11.2023 (87) ES2019070247 17.10.2019 (22) 10.04.2019 (54) ROBOTIZED CONSTRUCTION SYSTEM AND CORRESPONDING METHOD FOR FABRICATING A BUILDUNG (73) Evolution Construction System, S.L. (72) LORENZO PELLICO, Daniel (31) 201830358 (32) 10.04.2018 (33) Spain	(47) 01.11.2023 (22) 22.06.2022 (54) MOUNTING AND DISMOUNTING SUPPORT MECHANISM FOR A WORKPIECE HOLDING DEVICE OF A WORKPIECE CONVEYING APPARATUS (73) Aida Engineering, Ltd. (72) TAKEDA, Keisuke (31) 2021112062 (32) 06.07.2021 (33) Japan (51) B25J 15/04 B25J 19/00 (11) EP3797943 (21) EP20194120.0 (47) 01.11.2023 (22) 02.09.2020 (54) HANDLING INSTALLATION (73) J. Schmalz GmbH (72) Kübler, Patrick Markovits Hoopii, Sven Sacha, Michael (31) 102019125915 (32) 26.09.2019 (33) Germany
(51) B25J 9/00 B25J 13/02 G05B 19/421 G05B 19/427 (11) EP3541582 (21) EP17791572.5 (47) 01.11.2023 (87) EP2017001195 24.05.2018 (22) 10.10.2017 (54) HANDHELD ROBOT OPERATING DEVICE, ASSOCIATED COUPLING APPARATUS, ROBOT, AND METHOD (73) KUKA Deutschland GmbH (72) RIEDEL, Martin (31) 102016222675 (32) 17.11.2016 (33) Germany	(31) 201830358 (32) 10.04.2018 (33) Spain (51) B25J 11/00 G09B 5/12 (11) EP3563986 (21) EP17887623.1 (47) 01.11.2023 (87) CN2017119107 05.07.2018 (22) 27.12.2017 (54) ROBOT, SERVER AND MAN-MACHINE INTERACTION METHOD (73) Huawei Technologies Co., Ltd. (72) SUN, Wenhua FU, Jiali LIAO, Heng ZHANG, Huimin (31) 201611267452 (32) 31.12.2016 (33) China	(31) 102019125915 (32) 26.09.2019 (33) Germany (51) B25J 19/00 (11) EP4164842 (21) EP21724423.5 (47) 01.11.2023 (87) US2021027512 23.12.2021 (22) 15.04.2021 (54) COLLABORATIVE ROBOT LINE MANAGEMENT SYSTEM (73) Raytheon Company (72) GRELLA, Joseph E. (31) 202016903291 (32) 16.06.2020 (33) United States of America
(51) B25J 9/00 B25J 21/00 B25J 19/02 B07C 5/342 B25J 15/06 (11) EP3677388 (21) EP19217223.7 (47) 01.11.2023 (22) 17.12.2019 (54) SUCTION UNIT FOR A ROBOTIC SORTER (73) Bollegraaf Patents and Brands B.V. (72) Hogervorst, Wouter Hendrik Vogelaar, Johannes Sijbrand (31) 2022319 (32) 28.12.2018 (33) Netherlands	(31) 201611267452 (32) 31.12.2016 (33) China (51) B25J 15/00 B25J 11/00 B25J 15/02 (11) EP3718712 (21) EP20167020.5 (47) 01.11.2023 (22) 31.03.2020 (54) VARIABLE ADAPTATION GRIPPING SYSTEM (73) MEC S.r.l. Gilli, Walter Pisetta, Remo (72) GILLI, Walter PISETTA, Remo BALDESSARI, Claudio (31) 201900005096 (32) 04.04.2019 (33) Italy	(51) B25J 19/00 B25J 15/04 (11) EP3946846 (21) EP20723621.7 (47) 01.11.2023 (87) US2020026617 08.10.2020 (22) 03.04.2020 (54) TOOL INTERCHANGE FOR A SUBMERSIBLE REMOTE OPERATED VEHICLE AND CORRESPONDING METHOD (73) FMC Technologies, Inc. (72) CORRELL, Richard Brian KLASSEN, William P. KLEPPINGER, Clayton Paul LANGLEY, Philip David SCHMALJOHANN, Justin Daniel BOSLER, Ryan Mitchell KESLING, William Dawson ADE, Chris Alexander (31) 201916376622 (32) 05.04.2019 (33) United States of America
(51) B25J 9/00 B60L 53/00 (11) EP3822043 (21) EP19212770.2 (47) 01.11.2023 (22) 02.12.2019 (54) MANIPULATOR FOR HANDSFREE CHARGING ELECTRIC VEHICLES	(51) B25J 15/04 (11) EP4116047 (21) EP22180411.5	(51) B26B 1/04 (11) EP3790713 (21) EP19732732.3 (47) 01.11.2023

(87) IB2019053885 14.11.2019	(54) BREAD SLICER WITH A SUPPORT FOR SLICES	(33) Italy Italy
(22) 10.05.2019	(73) JAC S.A.	(51) B28B 11/00
(54) FOLDING MACHETE	(72) VAN CAUWENBERGHE, Baudouin	B28B 11/04
(73) Fiskars Brands, Inc.	(31) 202005636	B05C 19/04
(72) HUNT, Patrick	(32) 12.09.2020	G01F 13/00
PRINCE, Jordan	(33) Belgium	B05C 19/06
(31) 201862670364 P	(51) B27K 5/00	B05B 7/14
(32) 11.05.2018	B27K 3/08	(11) EP3875235
(33) United States of America	B27K 3/15	(21) EP21160231.3
(51) B26B 19/14	(11) EP3656520	(47) 01.11.2023
(11) EP4135944	(21) EP19219690.5	(22) 02.03.2021
(21) EP21717097.6	(47) 01.11.2023	(54) DECORATIVE POWDER DISPENSER FOR THE DECORATION OF CERAMIC ARTICLES
(47) 01.11.2023	(22) 07.12.2016	(73) FIMEC 2 S.R.L.
(87) EP2021059481	(54) METHOD FOR PARTIAL DELIGNIFICATION AND FILLING OF A LIGNOCELLULOSIC MATERIAL, AND COMPOSITE MATERIAL STRUCTURE OBTAINED BY SAID METHOD	(72) Serpagli, Paolo
21.10.2021	(73) SAS Woodoo	(31) 202000004294
(22) 13.04.2021	(72) BOITOUZET, Timothée	(32) 02.03.2020
(54) REDUCING SOUND PRODUCTION IN A HAIR-CUTTING UNIT COMPRISING AN EXTERNAL CUTTING MEMBER AND A ROTATABLE INTERNAL CUTTING MEMBER	(31) 1561953	(33) Italy
(73) Koninklijke Philips N.V.	(32) 07.12.2015	(51) B28B 13/02
(72) KLASEBOER, Gerrit	(33) France	B28B 1/30
VAN TIJUM, Redmer	(51) B27N 3/00	B28B 5/00
(31) 20169374	C09J 161/34	B07B 1/28
(32) 14.04.2020	C09J 179/02	B07B 13/11
(33) European Patent Office (EPO)	D04H 1/4209	B07B 13/16
(51) B26B 19/38	D04H 1/4218	B28B 5/02
A45D 27/29	D04H 1/587	B28B 1/16
(11) EP3691845	D04H 1/645	B27N 3/14
(21) EP18808553.4	(11) EP3774244	B27N 3/10
(47) 01.11.2023	(21) EP19713474.5	B07B 1/46
(87) US2018052483	(47) 01.11.2023	B07B 1/48
11.04.2019	(87) EP2019057802	B07B 13/18
(22) 24.09.2018	03.10.2019	(11) EP3708322
(54) SURFACE-MOUNTABLE RAZOR HOLDER	(22) 27.03.2019	(21) EP18897814.2
(73) Edgewell Personal Care Brands, LLC	(54) METHOD OF MANUFACTURING A COMPOSITE PRODUCT	(47) 01.11.2023
(72) ATLASON, Hlynur Vagn	(73) Knauf Insulation SPRL	(87) JP2018047668
BRAVMAN, Jason	(72) HAMPSON, Carl	04.07.2019
GOOLEY, Georgina	CALLAGHAN, Oliver	(22) 25.12.2018
(31) 201762567031 P	(31) 201804907	(54) BUILDING MATERIAL PRODUCTION APPARATUS AND BUILDING MATERIAL PRODUCTION METHOD
(32) 02.10.2017	(32) 27.03.2018	(73) Nichiha Corporation
(33) United States of America	(33) United Kingdom	(72) IKEDA , Satoshi
(51) B26D 1/16	(51) B28B 1/00	YOSHIDA , Kazuhisa
B26D 3/16	B28B 3/02	NISHIOKA , Hidenori
B26D 7/12	B28B 5/02	SUGIMOTO , Akihiro
(11) EP4065320	B28B 13/02	(31) 2017252530
(21) EP20816320.4	B30B 5/06	(32) 27.12.2017
(47) 01.11.2023	B30B 15/30	(33) Japan
(87) IT2020050275	(11) EP3894155	(51) B29B 9/08
03.06.2021	(21) EP19805510.5	B29B 17/00
(22) 11.11.2020	(47) 01.11.2023	B30B 11/28
(54) CUTTING MACHINE FOR TRANSVERSELY CUTTING LOGS OF PAPER	(87) IB2019060214	(11) EP3463782
(73) Futura S.p.A.	18.06.2020	(21) EP17739308.9
(72) BETTI, Gabriele	(22) 27.11.2019	(47) 01.11.2023
GUARINI, Ciro	(54) MACHINE FOR DRY DECORATION OF TILES	(87) IB2017053061
(31) 201900022044	(73) System Ceramics S.p.A.	30.11.2017
(32) 25.11.2019	(72) VACCARI, Paolo	(22) 24.05.2017
(33) Italy	GOZZI, Franco	(54) COMPACTOR
(51) B26D 7/32	STEFANI, Franco	(73) Websphere IT & Soft Solutions SRL
(11) EP3967465	(31) 201900012948	(72) GAMBERINI, Maria Giovanna
(21) EP21196234.5	201800010925	(31) UA20164301
(47) 01.11.2023	(32) 25.07.2019	(32) 24.05.2016
(22) 13.09.2021	10.12.2018	(33) Italy
		(51) B29B 11/16
		B32B 15/08
		H05K 1/03

(11) EP3045283	DANJOURBARA, Kazutoshi	(22) 26.11.2020
(21) EP14842952.5	SAITOH, Takeshi	(54) A USE OF AN ENDLESS BELT AS
(47) 01.11.2023	HASHIMOTO, Shintaro	CARRIER BELT OR PROCESS BELT
(87) JP2014070742	(31) 2017063975	(73) Berndorf Band GmbH
12.03.2015	(32) 28.03.2017	(72) SIMMEL, Johannes Günther
(22) 06.08.2014	(33) Japan	(31) 510332019
(54) PREPREG, METAL FOIL-CLAD	(51) B29B 15/12	(32) 27.11.2019
LAMINATE, AND PRINTED WIRING	B29K 105/14	(33) Austria
BOARD	(11) EP3858570	(51) B29C 44/12
(73) Mitsubishi Gas Chemical Company, Inc.	(21) EP19865361.0	B32B 27/08
(72) HAMAJIMA, Tomoki	(47) 01.11.2023	B32B 3/30
ITO, Meguru	(87) JP2019036971	B32B 27/20
SHIGA, Eisuke	02.04.2020	B32B 27/30
KATO, Yoshihiro	(22) 20.09.2019	B32B 27/32
(31) 2014028381	(54) MOLDING METHOD AND MOLDING	B32B 27/34
2013186307	DEVICE FOR COMPOSITE SHEET	B32B 27/36
(32) 18.02.2014	(73) Fukui Prefectural Government	B32B 27/40
09.09.2013	(72) KAWABE, Kazumasa	F25D 23/06
(33) Japan	YAMADA, Kohei	(11) EP3944943
Japan	KONDO, Keiichi	(21) EP21181182.3
(51) B29B 13/06	IYO, Hirofumi	(47) 01.11.2023
B29B 13/00	KAECHE, Shin	(22) 23.06.2021
B29B 9/16	(31) 2018179668	(54) LINER FOR A HOUSEHOLD
F26B 5/08	(32) 26.09.2018	APPLIANCE HAVING NATURAL FIBERS
F26B 17/24	(33) Japan	(73) Whirlpool Corporation
(11) EP2331308	(51) B29C 33/30	(72) Khizar, Muhammad
(21) EP09812178.3	B29D 99/00	(31) 202016939431
(47) 01.11.2023	B29C 70/44	(32) 27.07.2020
(87) US2009055769	B29C 70/30	(33) United States of America
11.03.2010	B29L 31/08	(51) B29C 44/18
(22) 02.09.2009	(11) EP3890936	B29C 44/32
(54) DRYER SYSTEM WITH IMPROVED	(21) EP19817954.1	B29C 44/60
THROUGHPUT	(47) 01.11.2023	E06B 9/06
(73) Gala Industries, Inc.	(87) DK2019050379	B29K 75/00
(72) AARON, Charles, E.	11.06.2020	B29L 31/00
BOOTHE, Duane, A.	(22) 05.12.2019	(11) EP4098421
LINKENHOKER, John, M.	(54) A WIND TURBINE BLADE BODY	(21) EP22175593.7
MORRIS, Kerry, P.	MANUFACTURING METHOD	(47) 01.11.2023
HANNAH, Samuel, F.	(73) VESTAS WIND SYSTEMS A/S	(22) 26.05.2022
SMITH, Wayne, L.	(72) SMITH, Jonathan	(54) LINE AND METHOD FOR PRODUCING
WENRICH, Tomas, C.	(31) PA201870800	SLATS FOR ROLLER SHUTTERS
(31) 552163	(32) 06.12.2018	(73) Dallan S.p.A.
219192 P	(33) Denmark	(72) DALLAN, Andrea
112320 P	(51) B29C 35/02	(31) 202100014165
93588 P	B29D 24/00	(32) 31.05.2021
(32) 01.09.2009	H01Q 21/00	(33) Italy
22.06.2009	B29C 35/04	(51) B29C 44/18
07.11.2008	B29L 31/60	B29C 44/34
02.09.2008	(11) EP2803461	B29C 44/60
(33) United States of America	(21) EP14167650.2	F25D 23/06
United States of America	(47) 01.11.2023	(11) EP3278949
United States of America	(22) 09.05.2014	(21) EP17183942.6
United States of America	(54) Thermal curing of cell-based structural	(47) 01.11.2023
(51) B29B 15/12	arrays	(22) 31.07.2017
B29C 70/06	(73) The Boeing Company	(54) METHOD AND APPARATUS FOR
B29C 70/50	(72) Hafenrichter, Joseph L.	FOAMING A HOLLOW BODY
(11) EP3603918	Marshall, Joseph A. IV	(73) Cannon S.p.A.
(21) EP18776135.8	(31) 201313896012	(72) Volpato, Marco
(47) 01.11.2023	(32) 16.05.2013	Corti, Maurizio
(87) JP2018012843	(33) United States of America	Zampini, Samuele
04.10.2018	(51) B29C 41/28	(31) 201600080835
(22) 28.03.2018	F16G 1/20	(32) 01.08.2016
(54) METHOD FOR PRODUCING AN FRP	B21D 53/14	(33) Italy
PRECURSOR FOR A PRINTED WIRING	(11) EP4065332	(51) B29C 45/26
BOARD	(21) EP20829181.5	B29C 33/30
(73) Resonac Corporation	(47) 01.11.2023	F16C 29/02
(72) SASAKI, Ryohta	(87) AT2020060420	(11) EP4100226
NAKAMURA, Yukio	03.06.2021	(21) EP21704238.1

(47) 01.11.2023	RITCHIE, Robert L.	(72) SCHMIDT, Joachim
(87) EP2021052922	SCHNEE, Shawn J.	SCHNETZER, Roland
12.08.2021	(31) 201862734927 P	(51) B29C 49/42
(22) 08.02.2021	(32) 21.09.2018	B29L 31/00
(54) BEARING FOR LINEAR GUIDE RAIL	(33) United States of America	(11) EP3912798
(73) LEGO A/S	(51) B29C 48/31	(21) EP20908464.9
(72) SKOVBY, Klaus	B29C 48/25	(47) 01.11.2023
(31) PA202070076	B29C 48/08	(87) CN2020089393
(32) 06.02.2020	B29C 48/92	30.09.2021
(33) Denmark	(11) EP3687760	(22) 09.05.2020
(51) B29C 45/26	(21) EP18793080.5	(54) DIRECTIONAL HANDLE BLANK
B29C 45/36	(47) 01.11.2023	FEEDING MECHANISM HAVING
B60J 1/16	(87) US2018053005	BOTTLE HANDLE BLANK AND
B29C 45/33	04.04.2019	DIRECTIONAL BLANK FEEDING
B29D 23/00	(22) 27.09.2018	METHOD
(11) EP4013594	(54) A DIE WITH A MODULAR	(73) Guangzhou Tech-Long Packaging
(21) EP20744067.8	ADJUSTMENT SYSTEM AND A	Machinery Co., Ltd
(47) 01.11.2023	MODULAR ADJUSTMENT SYSTEM	(72) DENG, Zhijun
(87) EP2020071343	(73) Nordson Corporation	ZOU, Daqun
18.02.2021	(72) PITSCH, Dale	SONG, Kuiwei
(22) 29.07.2020	DUDLEY, Mike	LI, Dong
(54) GUIDE RAIL, DEVICE AND METHOD	REETZ, Kerry	(31) 202010207155
FOR INJECTION-MOULDING THIS	(31) 201816122591	(32) 23.03.2020
RAIL	201762565091 P	(33) China
(73) Cooper-Standard France	(32) 05.09.2018	(51) B29C 49/58
(72) GARINO, Thierry	28.09.2017	F16K 3/26
(31) 1909216	(33) United States of America	B29C 49/78
(32) 14.08.2019	United States of America	B29C 49/42
(33) France	(51) B29C 48/35	B29C 49/12
(51) B29C 45/33	B29C 48/21	B29C 49/18
B29C 45/44	B29C 48/49	(11) EP3970946
B29C 45/73	B29C 48/88	(21) EP21197228.6
B29C 45/40	B29C 48/14	(47) 01.11.2023
(11) EP4061606	B29C 48/07	(22) 16.09.2021
(21) EP20829674.9	B29D 30/06	(54) FLUID FLOW CONTROL DEVICE
(47) 01.11.2023	B29K 7/00	(73) Norgren AG
(87) IB2020062194	B29C 48/305	(72) Schmid, Daniel
01.07.2021	B29C 48/87	(31) 102020124284
(22) 18.12.2020	(11) EP3853001	(32) 17.09.2020
(54) SABER-LIKE ELEMENT FOR	(21) EP19790659.7	(33) Germany
THERMOPLASTIC MOLDS	(47) 01.11.2023	(51) B29C 49/68
(73) ADM S.r.l.	(87) FR2019052164	B29C 49/64
(72) DI MAIO, Antonio	26.03.2020	B29C 49/06
(31) 201900025219	(22) 17.09.2019	B29K 67/00
(32) 23.12.2019	(54) COEXTRUSION MACHINE FOR	B29L 31/00
(33) Italy	ELASTOMERIC COMPOUNDS, AND	B29C 49/78
(51) B29C 45/73	METHOD FOR MANUFACTURING A	(11) EP4072824
B29C 45/56	PROFILED ELEMENT STRIP	(21) EP20816532.4
B29C 45/17	(73) COMPAGNIE GENERALE DES	(47) 01.11.2023
B29C 45/18	ETABLISSEMENTS MICHELIN	(87) EP2020084866
B29C 45/53	(72) OUGIER, Christophe	17.06.2021
B29C 45/27	HINC, Henri	(22) 07.12.2020
B29C 44/58	JAUNET, Nicolas	(54) DEVICE AND METHOD FOR THE
B29C 44/42	LETOCART, Arnaud	THERMAL CONDITIONING OF
B29K 105/00	(31) 1858522	PREFORMS
(11) EP3852998	(32) 20.09.2018	(73) Sidel Participations
(21) EP19782858.5	(33) France	(72) PASQUIER, Hervé
(47) 01.11.2023	(51) B29C 49/42	FEVRE, Sébastien
(87) US2019052289	B29C 49/06	(31) 1914131
26.03.2020	B29K 67/00	(32) 11.12.2019
(22) 20.09.2019	B29L 31/00	(33) France
(54) MOLDING SYSTEM AND METHOD	F16K 31/122	(51) B29C 51/08
(73) NIKE Innovate C.V.	(11) EP4082750	B29C 51/10
(72) BAGHDADI, Hossein A.	(21) EP21171204.7	B29C 51/26
MUTH, Joseph Thomas	(47) 01.11.2023	B29C 49/42
TUTMARK, Bradley C.	(22) 29.04.2021	B29C 51/30
HANSON, III, H. Kenneth	(54) FIXTURE OF A BLOWING DEVICE	B29K 67/00
LUMPKIN, Danny David	(73) Eugen Seitz AG	B29K 23/00



B29L 31/00	(47) 01.11.2023	(11) EP4058266
(11) EP3974153	(87) IB2019060451	(21) EP20800175.0
(21) EP21192410.5	18.06.2020	(47) 01.11.2023
(47) 01.11.2023	(22) 04.12.2019	(87) EP2020081222
(22) 20.08.2021	(54) SYSTEMS AND METHODS FOR	20.05.2021
(54) CODED CONTAINER AND METHOD	PREVENTING OXYGEN INHIBITION OF	(22) 06.11.2020
FOR CODING A CONTAINER	A LIGHT-INITIATED POLYMERIZATION	(54) FDM PRINTED ITEM WITH DOPANT
(73) PACCOR Packaging GmbH	REACTION IN A 3D PRINTING SYSTEM	MATERIAL
(72) SCHÜTTE, Andreas	USING UNIFORM PLANAR SURFACES	(73) Signify Holding B.V.
RULAND, Helmut	(73) IO Tech Group, Ltd.	(72) HIKMET, Rifat Ata Mustafa
LORENZ, Nicolas	(72) ZENOU, Michael	VAN BOMMEL, Ties
(31) 102020125230	GILAN, Ziv	GRUHLKE, Stefan Willi Julius
(32) 28.09.2020	LIPTZ, Daniel	(31) 19209133
(33) Germany	SHAI, Yuval	(32) 14.11.2019
(51) B29C 51/08	(31) 201862777902 P	(33) European Patent Office (EPO)
H01M 10/04	(32) 11.12.2018	(51) B29C 64/129
B29C 51/00	(33) United States of America	B29C 64/268
B29L 31/00	(51) B29C 64/112	B29C 64/277
H01M 50/105	B23K 26/342	B29C 64/393
H01M 10/0525	B23K 26/144	B33Y 10/00
(11) EP4015191	B33Y 30/00	B33Y 30/00
(21) EP20865021.8	B29C 64/209	B33Y 50/02
(47) 01.11.2023	B29C 64/118	(11) EP4106978
(87) KR2020012502	B22F 10/25	(21) EP21713485.7
25.03.2021	B22F 12/53	(47) 01.11.2023
(22) 16.09.2020	B22F 10/32	(87) IT2021050037
(54) POUCH TYPE BATTERY CASE AND	B22F 12/20	26.08.2021
APPARATUS FOR MANUFACTURING	B23K 26/12	(22) 22.02.2021
THE SAME, AND POUCH TYPE	B23K 103/14	(54) METHOD AND APPARATUS FOR
SECONDARY BATTERY	B23K 26/14	ISOTROPIC STEREOLITHOGRAPHIC
(73) LG ENERGY SOLUTION, LTD.	(11) EP3736106	3D PRINTING WITH A VARIABLE
(72) KIM, Hyun Il	(21) EP20170436.8	SPEED AND POWER HYBRID LIGHT
KIM, Sung Hyun	(47) 01.11.2023	SOURCE
LEE, Woo Yong	(22) 20.04.2020	(73) Aextra3 Incorporation
PARK, Ki Hyun	(54) 3D PRINTING HEAD	Zitelli, Gianni
(31) 20190114298	(73) Sotimeco	(72) ZITELLI, Gianni
(32) 17.09.2019	(72) COUSIN, Thierry	(31) 202000003653
(33) Korea (Republic)	GUILLAUD, Nicolas	(32) 21.02.2020
(51) B29C 55/00	(31) 1904734	(33) Italy
B29C 55/12	(32) 06.05.2019	(51) B29C 64/135
B29D 7/01	(33) France	B29C 64/25
B29C 48/00	(51) B29C 64/118	B29C 64/268
B29C 48/08	B29C 48/92	B29C 64/30
B29C 48/92	B29C 48/30	B29C 64/364
B29K 105/04	B29C 48/02	B33Y 10/00
B29K 105/00	B22F 12/00	B33Y 30/00
(11) EP4037889	B22F 10/00	B33Y 40/00
(21) EP20767814.5	B33Y 80/00	B29C 64/153
(47) 01.11.2023	B33Y 70/00	(11) EP3815880
(87) EP2020075143	B33Y 50/02	(21) EP20197123.1
08.04.2021	B33Y 30/00	(47) 01.11.2023
(22) 09.09.2020	B33Y 10/00	(22) 21.09.2020
(54) METHOD OF MANUFACTURING A	B29C 64/393	(54) DRY BEAM PATH
FILM CONTAINING CAVITIES WITH	B29C 64/209	(73) EOS GmbH Electro Optical Systems
DETERMINATION OF STRETCH	B29C 48/00	(72) PERRET, Hans
PROFILES, DENSITY, THICKNESS	B29K 75/00	PATERNOSTER, Stefan
AND/OR POROSITY OF THE FILM	(11) EP4029674	(31) 102019216570
(73) Aleph SAS	(21) EP21152245.3	(32) 28.10.2019
(72) GAUDAEN, Jan	(47) 01.11.2023	(33) Germany
(31) 1910947	(22) 19.01.2021	(51) B29C 64/153
(32) 03.10.2019	(54) ADDITIVE MANUFACTURING METHOD	B22F 10/28
(33) France	(73) Covestro Deutschland AG	B22F 12/42
(51) B29C 64/10	(72) Bontenackels, Christoph	B22F 12/45
B29C 64/264	(51) B29C 64/118	B29C 64/277
B29C 64/364	B33Y 70/00	B33Y 30/00
B33Y 30/00	F21V 8/00	(11) EP3377304
(11) EP3894180	B33Y 10/00	(21) EP16800898.5
(21) EP19832727.2	B33Y 80/00	(47) 01.11.2023

(87) EP2016077227 26.05.2017	(54) APPARATUS AND METHOD FOR MANUFACTURING A THREE- DIMENSIONAL MOULDED ARTICLE	(73) Pregis Innovative Packaging LLC (72) WETSCH, Thomas D. MILCHUCK, Stephen J.
(22) 10.11.2016	(73) dp polar GmbH (72) MATHEA, Hans	(31) 201862630766 P (32) 14.02.2018
(54) DEVICE FOR THE GENERATIVE PRODUCTION OF A THREE- DIMENSIONAL OBJECT	(31) 102019007972 102019007953	(33) United States of America
(73) Concept Laser GmbH (72) HERZOG, Frank	(32) 18.11.2019 17.11.2019	(51) B29C 70/16 B29C 70/44 B29C 70/54 B29K 105/24
(31) 102015119745 (32) 16.11.2015 (33) Germany	(33) Germany Germany	(11) EP3827973 (21) EP20198739.3 (47) 01.11.2023 (22) 28.09.2020
(51) B29C 64/209 B29C 64/295 B29C 64/386 B29C 64/393 B29C 64/118 B33Y 30/00 B33Y 50/00 B29C 64/106	(51) B29C 64/393 B33Y 50/02 (11) EP4051488 (21) EP20781122.5 (47) 01.11.2023 (87) NL2020050590 06.05.2021 (22) 25.09.2020	(54) METHOD FOR MANUFACTURING A PART MADE FROM A COMPOSITE MATERIAL COMPRISING A FIRST AND THEN A SECOND POLYMERISATION
(11) EP3898192 (21) EP19900166.0 (47) 01.11.2023 (87) US2019066779 25.06.2020	(54) METHOD OF DETERMINING PRINTER PROPERTIES OF AN FFF PRINTER	(73) AIRBUS OPERATIONS (S.A.S.) (72) PRIDIE, Jago DUTHILLE, Bertrand (31) 1911796 (32) 22.10.2019 (33) France
(22) 17.12.2019	(73) Ultimaker B.V. (72) VAN MANEN, Rijk (31) 2024127 (32) 31.10.2019 (33) Netherlands	(51) B29C 70/30 B29C 70/48 B29D 99/00 F03D 1/06 B29L 31/08
(54) SYSTEM FOR KINEMATIC-BASED HEATING OF AN ADDITIVE MANUFACTURING PRINT FILAMENT	(51) B29C 65/08 B29C 65/78 B32B 37/06 B32B 38/00 B25J 15/00 B32B 37/18 B32B 38/18 B32B 39/00 B29C 69/00	(11) EP3894190 (21) EP19817956.6 (47) 01.11.2023 (87) DK2019050381 18.06.2020 (22) 09.12.2019
(73) Jabil Inc. (72) KLIMCZAK, Scott RODGERS, Luke BURGESS, Darin	(11) EP3392024 (21) EP18163928.7 (47) 01.11.2023 (22) 26.03.2018	(54) METHOD OF FORMING A WIND TURBINE BLADE SHEAR WEB FLANGE SECTION AND A WIND TURBINE BLADE SHEAR WEB.
(31) 201862782185 P (32) 19.12.2018 (33) United States of America	(54) MULTIFUNCTION END EFFECTOR APPARATUS AND METHODS FOR ASSEMBLING THERMOPLASTIC COMPOSITE ARTICLES	(73) VESTAS WIND SYSTEMS A/S (72) SMITH, Jonathan PRESTON, Robert Charles (31) PA201870803 (32) 10.12.2018 (33) Denmark
(51) B29C 64/386 B33Y 50/00 H05K 3/10 G06T 11/20	(73) The Boeing Company (72) BLOCH, Daniel D. WILKERSON, Randall D. CARTER, Camille D. GREEN, Zachary L. WILLIAMS, Nicole R. MOYES, Eric HICKMAN, Gregory J.S. MARTIN, Scott E.	(51) B29C 70/32 B29C 70/54 B29C 53/56 F01D 25/24 F01D 21/04 F02C 7/04
(11) EP4035871 (21) EP19947100.4 (47) 01.11.2023 (87) JP2019037221 01.04.2021 (22) 24.09.2019	(31) 201715484721 (32) 11.04.2017 (33) United States of America	(11) EP3402657 (21) EP17712183.7 (47) 01.11.2023 (87) FR2017050044 20.07.2017 (22) 09.01.2017
(54) IMAGE PROCESSING DEVICE, IMAGE PROCESSING METHOD, AND PROGRAM	(51) B29C 65/22 B31D 5/00 B29C 65/74 B29C 65/78	(54) DEVICE FOR GUIDING A FIBROUS STRUCTURE ONTO AN IMPREGNATION MANDREL, AND ASSOCIATED IMPREGNATION MANDREL AND WINDING MACHINE
(73) Fuji Corporation (72) TOMINAGA, Ryojiro KAWAJIRI, Akihiro	(11) EP3752342 (21) EP19707659.9 (47) 01.11.2023 (87) US2019018085 22.08.2019 (22) 14.02.2019	(73) Safran Aircraft Engines (72) CAMUS, Erwan MATHON, Richard (31) 1650319 (32) 15.01.2016 (33) France
(51) B29C 64/393 B29C 64/194 B33Y 50/02 B22F 10/66 B22F 10/85 B22F 12/90 B22F 10/38 B22F 10/50 B29C 64/188 B33Y 30/00	(54) DEVICES FOR MANUFACTURING INFLATABLE CUSHIONS TO BE USED AS PACKAGING MATERIAL	
(11) EP4058271 (21) EP20810893.6 (47) 01.11.2023 (87) EP2020082446 20.05.2021 (22) 17.11.2020		

- (51) B29C 70/44  
B32B 5/26  
B32B 3/08  
B29D 99/00  
B64C 5/02  
B64C 1/12  
B29C 43/36  
B64C 1/06  
B64C 1/00  
B32B 3/28  
B29C 43/56  
B29C 43/18  
B29C 43/12  
B32B 3/30  
B32B 5/02  
B29K 105/04  
B29K 105/06  
B29L 31/30  
(11) EP3521002  
(21) EP17855240.2  
(47) 01.11.2023  
(87) JP2017016848  
05.04.2018  
(22) 27.04.2017  
(54) COMPOSITE MATERIAL STRUCTURE AND METHOD FOR MANUFACTURING COMPOSITE MATERIAL STRUCTURE  
(73) Subaru Corporation  
(72) TAJIRI, Keisuke  
HIRAKI, Megumi  
AKIBA, Kousaburou  
TSURUTA, Shigeru  
(31) 2016191211  
(32) 29.09.2016  
(33) Japan
- 
- (51) B29C 70/44  
B64C 3/18  
B29D 99/00  
B64C 1/06  
B29C 65/00  
B29C 70/30  
B29C 70/86  
B33Y 80/00  
B29L 31/30  
(11) EP3835041  
(21) EP20213798.0  
(47) 01.11.2023  
(22) 14.12.2020  
(54) FLYAWAY STRINGER END CAPS  
(73) The Boeing Company  
(72) Parker, Mary LeAnn  
Pham, Khanh Mai  
Carlson, Lisa Christina  
Hanson, Garrett Charles  
(31) 201916712089  
(32) 12.12.2019  
(33) United States of America
- 
- (51) B29C 70/54  
B29C 64/118  
B29C 70/38  
B29C 70/22  
B29C 70/02  
B29B 15/10  
B33Y 70/10  
(11) EP3441212  
(21) EP18174248.7  
(47) 01.11.2023  
(22) 25.05.2018
- (54) ADDITIVE MANUFACTURING FIBER PREFORM ARTICLE  
(73) The Boeing Company  
(72) KOZAR, Michael Patrick  
WILENSKI, Mark Stewart  
HARRISON, Samuel F.  
(31) 201715675244  
(32) 11.08.2017  
(33) United States of America
- 
- (51) B29D 11/00  
G02C 7/02  
(11) EP2848395  
(21) EP14184005.8  
(47) 01.11.2023  
(22) 09.09.2014  
(54) Method for manufacturing spectacle glass semi-finished or finished product.  
(73) Carl Zeiss Vision International GmbH  
(72) Meschenmoser, Ralf  
Winter, Karl-Heinz  
Gorosics, Ralf  
Beeh, Roswitha  
(31) 102013218136  
(32) 11.09.2013  
(33) Germany
- 
- (51) B29D 24/00  
B29C 70/54  
(11) EP3634734  
(21) EP18737146.3  
(47) 01.11.2023  
(87) DK2018050135  
21.02.2019  
(22) 12.06.2018  
(54) A METHOD OF MANUFACTURING COMPOSITE LAMINATE PANEL SUB-ELEMENTS FOR A MODULAR ASSEMBLY STRUCTURE, A METHOD OF ASSEMBLING THE SUB-ELEMENTS, AND A STRUCTURE ASSEMBLED OF THE PANEL SUB-ELEMENTS  
(73) Jupiter Bach A/S  
(72) RAIMUND, Ulrik  
JOHANSEN, Per  
LARSEN, Henrik Gaard  
DE SOUZA, Joshua Redento  
LINDESKOV, Anders Froman  
(31) PA201700449  
(32) 16.08.2017  
(33) Denmark
- 
- (51) B29D 30/00  
G06K 19/077  
(11) EP3962721  
(21) EP20723216.6  
(47) 01.11.2023  
(87) IB2020054095  
12.11.2020  
(22) 30.04.2020  
(54) PROCESSING METHOD FOR INSERTING ELECTRONIC DEVICES THAT ARE SUITABLE FOR COMMUNICATING IN RADIO FREQUENCY INTO RESPECTIVE RUBBER SLEEVES  
(73) Bridgestone Europe NV/SA  
(72) VECCHIONE, Ciro  
DI EGIDIO, Alfonso  
(31) 201900006513
- (32) 03.05.2019  
(33) Italy
- 
- (51) B29D 30/02  
(11) EP4008540  
(21) EP21211074.6  
(47) 01.11.2023  
(22) 29.11.2021  
(54) SYSTEM AND METHOD FOR MANUFACTURING A SUPPORT STRUCTURE  
(73) The Goodyear Tire & Rubber Company  
(72) BYATARAYANAPURA GOPALA, Arun Kumar  
CELIK, Ceyhan  
EDWARDS, Steven Amos  
HOGAN, Michael James  
STOILA, George Michael  
BENZING II, James Alfred  
(31) 202017111741  
(32) 04.12.2020  
(33) United States of America
- 
- (51) B29D 30/38  
B29D 30/40  
B60C 1/00  
B29B 15/12  
D06M 15/263  
D06M 15/55  
D06M 15/693  
D06M 13/395  
C08J 5/06  
C08L 9/02  
C08L 7/00  
(11) EP3655243  
(21) EP17818470.1  
(47) 01.11.2023  
(87) EP2017081766  
24.01.2019  
(22) 07.12.2017  
(54) METHOD FOR PRODUCING A VEHICLE TIRE, VEHICLE TIRE PRODUCED ACCORDING TO THE METHOD, AND USE OF TREATED REINFORCING SUPPORTS  
(73) Continental Reifen Deutschland GmbH  
Kordsa Teknik Tekstil Anonim Sirketi  
(72) KRAMER, Thomas  
NABIH, Nermeen  
SCHUNACK, Michael  
SCHMAUNZ-HIRSCH, Cornelia  
PINTO, Diana  
CEVAHIR, Nacide Nurcin  
SEN, Mustafa Yasin  
FIDAN, Sadettin  
AYYILDIZ, Yucel  
KANYA, Basak  
(31) 102017212455  
(32) 20.07.2017  
(33) Germany
- 
- (51) B29D 99/00  
B29C 70/30  
(11) EP3002117  
(21) EP15187722.2  
(47) 01.11.2023  
(22) 30.09.2015  
(54) COMPOSITE STRUCTURE HAVING REDUCED AREA RADIUS FILLERS AND METHOD OF FORMING THE SAME

(73) The Boeing Company	(51) B30B 11/02	(51) B32B 3/28
(72) DEOBALD, Lyle R.	B30B 15/06	B32B 5/18
RINN, Aaron N.	B22F 3/03	B32B 7/02
SHAN, Ying	(11) EP3645259	B64C 1/00
RAMNATH, Madhavadas	(21) EP18735308.1	B64D 37/02
VETTER, Derek P.	(47) 01.11.2023	B60K 15/03
GRIESS, Kenneth H.	(87) EP2018067682	(11) EP3546207
GRAVES, Michael J.	03.01.2019	(21) EP19164176.0
(31) 201414503368	(22) 29.06.2018	(47) 01.11.2023
(32) 30.09.2014	(54) PLANE PLATE OF A PRESSING TOOL	(22) 20.03.2019
(33) United States of America	(73) GKN Sinter Metals Engineering GmbH	(54) ENERGY ABSORBING COMPOSITE
(51) B29D 99/00	(72) SCHMITT, Rainer	PANELS
B29C 70/34	TEKINES, Hasim	(73) The Boeing Company
F01D 5/14	MAASSEN, Robert	(72) BOLUKBASI, Akif O
F01D 5/28	(31) 102017114455	GLEASON, Timothy R
(11) EP3924176	(32) 29.06.2017	HOLEMANS, Peter
(21) EP20703457.0	(33) Germany	(31) 201815937414
(47) 01.11.2023	(51) B30B 11/02	(32) 27.03.2018
(87) EP2020052781	B30B 15/06	(33) United States of America
20.08.2020	B22F 3/03	(51) B32B 5/02
(22) 04.02.2020	(11) EP3645260	B32B 5/18
(54) A METHOD OF MANUFACTURING A	(21) EP18735309.9	B32B 5/24
COMPOSITE BLADE	(47) 01.11.2023	C08K 3/016
(73) Rolls-Royce plc	(87) EP2018067690	C08K 3/32
(72) MARENGO, Giovanni Antonio	03.01.2019	C08K 3/34
MEE, Kevin	(22) 29.06.2018	C08J 9/36
(31) 201902038	(54) LEVEL PLATE OF A PRESSING TOOL	(11) EP3990278
(32) 14.02.2019	(73) GKN Sinter Metals Engineering GmbH	(21) EP20733018.4
(33) United Kingdom	(72) SCHMITT, Rainer	(47) 01.11.2023
(51) B29D 99/00	TEKINES, Hasim	(87) IB2020055412
F03D 1/06	MAASSEN, Robert	30.12.2020
(11) EP3890954	(31) 102017114458	(22) 09.06.2020
(21) EP19816525.0	(32) 29.06.2017	(54) NONWOVEN FIBROUS WEB
(47) 01.11.2023	(33) Germany	(73) 3M Innovative Properties Company
(87) DK2019050375	(51) B30B 15/08	(72) HA, Heonjoo
11.06.2020	B30B 15/30	WU, Tien Tsung
(22) 02.12.2019	G01B 11/26	SCHULTZ, Nathan E.
(54) IMPROVEMENTS RELATING TO WIND	A61J 3/10	HOFFDAHL, Gerry A.
TURBINE BLADE MANUFACTURE	G01B 21/22	(31) 201962866105 P
(73) VESTAS WIND SYSTEMS A/S	B30B 11/08	(32) 25.06.2019
(72) BECH, Anton	(11) EP3838578	(33) United States of America
(31) PA201870792	(21) EP20213203.1	(51) B32B 5/02
(32) 03.12.2018	(47) 01.11.2023	B32B 27/40
(33) Denmark	(22) 10.12.2020	B32B 27/30
(51) B30B 11/02	(54) DEVICE TO LEVEL A FEEDER	B32B 27/12
B30B 11/26	PLATFORM	B32B 27/08
B30B 15/02	(73) Natoli Engineering Company Inc	E06B 9/24
B22F 3/105	(72) PANCHAL, Mahesh	B32B 15/20
B29C 67/00	PATEL, Pritesh	B32B 15/14
B30B 15/06	DODIA, Vishal	B32B 15/095
B22F 3/03	(31) 201916713251	B32B 15/082
B33Y 80/00	(32) 13.12.2019	B32B 15/08
(11) EP3253566	(33) United States of America	B32B 7/12
(21) EP16702399.3	(51) B30B 15/30	B32B 3/04
(47) 01.11.2023	B30B 11/02	B32B 3/10
(87) EP2016051938	B30B 11/00	B32B 27/20
11.08.2016	(11) EP3900923	B32B 27/36
(22) 29.01.2016	(21) EP20170820.3	E06B 9/262
(54) SHAPE-OPTIMIZED PM TOOL	(47) 01.11.2023	E06B 9/386
COMPONENTS USING CONNECTION	(22) 22.04.2020	(11) EP3357683
TECHNOLOGY	(54) METHOD FOR THE AUTOMATIC	(21) EP18155356.1
(73) GKN Sinter Metals Engineering GmbH	PRODUCTION OF INDIVIDUALIZED	(47) 01.11.2023
(72) SCHMITT, Rainer	TABLETS AND TABLET PRESS FOR	(22) 06.02.2018
TEKINES, Hasim	THE AUTOMATED PRODUCTION OF	(54) ROOM DARKENING MATERIAL AND
SIEGERT, Christian	INDIVIDUALIZED TABLETS	ARCHITECTURAL COVERING MADE
(31) 102015201784	(73) PrivMed X AB	FROM SAME
(32) 02.02.2015	(72) KRAUSE, Ingo	(73) Hunter Douglas Inc.
(33) Germany	MANIGK, Rene	(72) SWISZCZ, Paul G.

DANN, Kevin	(21) EP19773948.5	(73) LG CHEM, LTD.
SIEBENALLER, Mike	(47) 01.11.2023	(72) LEE, Hanna
(31) 201762455189 P	(87) IB2019057970	SEO, Jung Hyun
(32) 06.02.2017	09.04.2020	CHANG, Yeongrae
(33) United States of America	(22) 20.09.2019	KIM, Jaeyoung
(51) B32B 7/12	(54) A PRESS HARDENING METHOD	SONG, Intaek
B32B 15/085	(73) ArcelorMittal	(31) 20190114792
B32B 15/20	(72) DRILLET, Pascal	20180114409
B32B 27/32	GRIGORIEVA, Raisa	(32) 18.09.2019
B32B 27/08	STUREL, Thierry	21.09.2018
B32B 27/10	GEORGES, Cédric	(33) Korea (Republic)
B32B 29/00	NABI, Brahim	Korea (Republic)
B32B 27/34	DUMINICA, Florin	(51) B32B 29/08
B32B 27/30	(31) PCT/IB2018/057719	B31F 1/28
(11) EP4076944	(32) 04.10.2018	B32B 9/04
(21) EP20817234.6	(33) World Intellectual Property Office (WIPO)	D21H 27/40
(47) 01.11.2023	(51) B32B 17/10	D21H 21/34
(87) EP2020083727	C03C 17/34	(11) EP3867062
26.08.2021	C03C 23/00	(21) EP19886433.2
(22) 27.11.2020	B23K 26/38	(47) 01.11.2023
(54) RECYCLABLE PAPER PACKAGING	B32B 27/30	(87) US2019062202
WITH HIGH BARRIER TO WATER	G02B 5/30	28.05.2020
VAPOR AND OXYGEN	(11) EP3915781	(22) 19.11.2019
(73) Constantia Pirk GmbH & Co. KG	(21) EP20745796.1	(54) FIRE SUPPRESSING PLEATED
(72) GREFENSTEIN, Achim	(47) 01.11.2023	PACKAGING PAPER AND METHOD OF
JONES, Dudley	(87) JP2020000957	MANUFACTURING
BÜTTNER, Stefan	30.07.2020	(73) Packaging and Crating Technologies,
(31) 501162020	(22) 15.01.2020	LLC
(32) 18.02.2020	(54) METHOD FOR PRODUCING THIN	(72) MORT, Rodger A., Jr.
(33) Austria	GLASS RESIN LAMINATE PIECE	GETTLE, Guy Leath
(51) B32B 15/01	(73) Nitto Denko Corporation	(31) 201816197616
C21D 1/74	(72) KISHI Atsushi	(32) 21.11.2018
C21D 1/76	MURASHIGE Takeshi	(33) United States of America
C21D 8/02	HIRATA Satoshi	(51) B32B 33/00
C21D 9/46	(31) 2019009313	C08J 5/18
C22C 38/02	(32) 23.01.2019	B05D 7/02
C22C 38/04	(33) Japan	B27N 3/18
C22C 38/06	(51) B32B 17/10	B27N 7/00
C23C 2/02	F21V 8/00	E04F 15/10
C23C 2/06	G02B 5/22	(11) EP3601418
C23C 2/26	(11) EP3439873	(21) EP18777436.9
C23C 2/40	(21) EP17719682.1	(47) 01.11.2023
C23C 2/28	(47) 01.11.2023	(87) CA2018050361
C21D 8/04	(87) GB2017050987	04.10.2018
C21D 6/00	12.10.2017	(22) 26.03.2018
C22C 38/60	(22) 07.04.2017	(54) PROCESS FOR PRODUCTION OF
(11) EP3904552	(54) LIGHT EMITTING DIODE DISPLAY AND	COVERED PANEL
(21) EP19902584.2	INSULATED GLASS UNIT INCLUDING	(73) Clausi, Robert N.
(47) 01.11.2023	THE SAME	Diloreto, Salvatore Anthony
(87) JP2019033080	(73) Pilkington Group Limited	(72) Clausi, Robert N.
02.07.2020	(72) VARANASI, Srikanth	Diloreto, Salvatore Anthony
(22) 23.08.2019	MCSPORRAN, Neil	(31) 201762477147 P
(54) HIGH-STRENGTH HOT-DIP	(31) 201662320138 P	(32) 27.03.2017
GALVANIZED STEEL SHEET AND	(32) 08.04.2016	(33) United States of America
METHOD FOR MANUFACTURING	(33) United States of America	(51) B32B 37/24
SAME	(51) B32B 27/08	B05D 1/26
(73) JFE Steel Corporation	B32B 27/18	B32B 37/06
(72) HASEGAWA, Hiroshi	B32B 27/30	B32B 37/20
NAKAGAITO, Tatsuya	B32B 27/36	B32B 38/06
(31) 2018242710	G02B 5/02	B32B 27/08
(32) 26.12.2018	(11) EP3715111	B41M 1/30
(33) Japan	(21) EP19862127.8	B41M 5/00
(51) B32B 15/01	(47) 01.11.2023	E04F 15/10
C23C 2/26	(87) KR2019012164	(11) EP3659805
C23C 2/28	26.03.2020	(21) EP18209143.9
C21D 1/673	(22) 19.09.2019	(47) 01.11.2023
C21D 1/70	(54) ANTI-GLARE FILM, POLARIZING	(22) 29.11.2018
(11) EP3860848	PLATE, AND DISPLAY DEVICE	

(54) METHOD OF MAKING PLASTIC FLOORING HAVING BACKING	(21) EP21154714.6	(21) EP19795040.5
(73) Lu, Ding Yi	(47) 01.11.2023	(47) 01.11.2023
(72) Lu, Ding Yi	(22) 02.02.2021	(87) FR2019052247
(51) B33Y 10/00	(54) MICROFLUIDIC EJECTION CHIP, HEAD, DISPENSING DEVICE AND METHOD FOR FORMING THE SAME	(22) 02.04.2020
B29C 64/135	(73) Funai Electric Co., Ltd.	(22) 25.09.2019
B33Y 30/00	(72) BERNARD, David L.	(54) INK-JET PRINTING MODULE FOR PRINTING ROBOT, MAGAZINE FOR THESE MODULES, AND INK-JET PRINTING METHOD USING THIS ROBOT
B29C 64/268	WEAVER, Sean T.	(73) Westlake Compounds Holding
B29C 64/282	(31) 202016811778	(72) ELAARAG, Hossam
B29C 64/286	(32) 06.03.2020	ALIAGA, Christophe
(11) EP3877179	(33) United States of America	EL FOUZARI, Mustapha
(21) EP19800963.1	(51) B41J 2/14	AMOUROUX, Nicolas
(47) 01.11.2023	B41J 2/16	(31) 1801014
(87) EP2019080155	H10N 30/00	(32) 28.09.2018
14.05.2020	H10N 30/20	(33) France
(22) 05.11.2019	H10N 30/853	(51) B41J 2/32
(54) METHODS AND APPARATUS FOR TOMOGRAPHIC ADDITIVE MANUFACTURING WITH A SPATIALLY COHERENT LIGHT SOURCE	(11) EP3978252	B41J 13/12
(73) ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE (EPFL)	(21) EP21195972.1	B41J 25/304
(72) LOTERIE, Damien	(47) 01.11.2023	(11) EP3849813
DELROT, Paul	(22) 10.09.2021	(21) EP19858958.2
MOSEER, Christophe	(54) ACTUATOR, LIQUID DISCHARGE HEAD, AND LIQUID DISCHARGE APPARATUS	(47) 01.11.2023
(31) PCT/IB2018/058714	(73) Ricoh Company, Ltd.	(87) IB2019057669
(32) 06.11.2018	(72) Masuda, Toshiaki	19.03.2020
(33) World Intellectual Property Office (WIPO)	(31) 2020165230	(22) 11.09.2019
(51) B41F 27/10	(32) 30.09.2020	(54) PLASTIC CARD PRINTER
B41F 27/02	(33) Japan	(73) Entrust Corporation
B41F 5/24	(51) B41J 2/165	(72) SVENSSON, Scott
(11) EP4048523	B65H 51/20	HOEVE, Bryan
(21) EP20796727.4	B41J 2/175	GALLES, Donald
(47) 01.11.2023	D05B 67/00	(31) 201862729755 P
(87) EP2020079209	B41J 25/00	(32) 11.09.2018
29.04.2021	B41J 11/00	(33) United States of America
(22) 16.10.2020	D06P 5/30	(51) B41J 3/407
(54) LIGHTWEIGHT INTERCHANGEABLE MAGNETIC SLEEVE AND METHOD OF MANUFACTURE THEREOF	D06B 23/30	B41J 11/00
(73) Sandon Global Engraving Technology Limited	D06B 11/00	(11) EP4091821
(72) CARMICHAEL, Gary	D05C 13/02	(21) EP22173902.2
(31) 201915458	D05C 11/24	(47) 01.11.2023
(32) 24.10.2019	D04B 35/36	(22) 17.05.2022
(33) United Kingdom	D04B 35/22	(54) PRINTER AND METHOD FOR ITS' MANUFACTURE
(51) B41J 2/01	B41J 29/17	(73) Seiko Instruments Inc.
B01J 19/12	B41J 3/407	(72) ANDO, Norihisa
B41F 23/04	D06B 13/00	(31) 2021086132
H01L 33/64	(11) EP3867071	(32) 21.05.2021
B41J 11/00	(21) EP19860412.6	(33) Japan
B41J 29/377	(47) 01.11.2023	(51) B41J 3/407
(11) EP3919276	(87) SE2019050806	B41J 11/04
(21) EP20749084.8	19.03.2020	B65C 11/02
(47) 01.11.2023	(22) 28.08.2019	(11) EP4105030
(87) JP2020002999	(54) A METHOD FOR IN-LINE TREATMENT OF A THREAD AND A SYSTEM THEREFORE COMPRISING A TREATMENT UNIT AND A CONTROL UNIT CONFIGURED TO DETERMINE IF A MAINTENANCE SEQUENCE IS NEEDED	(21) EP22189286.2
06.08.2020	(73) COLOREEL GROUP AB	(47) 01.11.2023
(22) 28.01.2020	(72) EKLIND, Martin	(22) 11.09.2020
(54) LIGHT IRRADIATION DEVICE AND PRINTING DEVICE	STABERG, Joakim	(54) LABEL PRINTER
(73) Kyocera Corporation	(31) 1851095	(73) Bizerba SE & Co. KG
(72) MIMA, Takayuki	(32) 15.09.2018	(72) Hirsch, Alexander
(31) 2019014171	(33) Sweden	Haigis, Jörg
(32) 30.01.2019	(51) B41J 2/175	(51) B41J 11/00
(33) Japan	B41J 29/02	B41J 11/46
(51) B41J 2/14	B41J 25/34	(11) EP3974197
B41J 2/16	(11) EP3856524	(21) EP21188058.8
(11) EP3875277		(47) 01.11.2023
		(22) 27.07.2021
		(54) PRINTING APPARATUS
		(73) SCREEN Holdings Co., Ltd.
		(72) Yasuda, Satoshi

Fukui, Kazuki	(87) US2018053473	B42C 19/08
Shiomi, Makoto	11.04.2019	B42C 9/02
(31) 2020158400	(22) 28.09.2018	B42C 7/00
(32) 23.09.2020	(54) FULL COLOR, DIGITALLY PRINTED	(11) EP4101655
(33) Japan	COPY EVIDENT DOCUMENTS	(21) EP22173151.6
(51) B41J 11/00	(73) HAM, LTD.	(47) 01.11.2023
B41J 15/04	(72) WU, Judy	(22) 13.05.2022
B65H 16/02	WOLFE, Gregory	(54) METHOD AND DEVICE FOR FORMING
B65H 19/10	(31) 201762568545 P	A DATA PAGE FOR A BOOK-TYPE
B65H 16/08	(32) 05.10.2017	DOCUMENT
(11) EP3372415	(33) United States of America	(73) Bundesdruckerei GmbH
(21) EP18000208.1	(51) B41M 3/14	(72) Peinze, Franziska
(47) 01.11.2023	B42D 25/29	Radtke, Patrick
(22) 02.03.2018	H04N 1/00	Kuen, Jakob
(54) PRINTING APPARATUS	H04N 1/32	Märtens, Detlef
(73) CANON KABUSHIKI KAISHA	(11) EP3871893	(31) 102021115153
(72) Eiyama, Masato	(21) EP19875254.5	(32) 11.06.2021
Igarashi, Yuki	(47) 01.11.2023	(33) Germany
Kamada, Masashi	(87) KR2019012139	(51) B42D 25/309
Negishi, Masashi	30.04.2020	B42D 25/41
Shinjo, Ryoya	(22) 19.09.2019	B42D 25/435
Kobayashi, Ryo	(54) ANTI-COUNTERFEITING PRINTED	B42D 25/346
Suzuki, Tomohiro	MATERIAL AND MANUFACTURING	(11) EP3792071
Obata, Tsutomu	METHOD THEREFOR	(21) EP20194251.3
(31) 2017046414	(73) Korea Minting, Security Printing & ID	(47) 01.11.2023
(32) 10.03.2017	Card Operating Corp.	(22) 03.09.2020
(33) Japan	(72) OH, Chang Jin	(54) VALUABLE OR SECURITY PRODUCT
(51) B41J 25/308	JEONG, Jong Gap	AND METHOD FOR PRODUCING THE
B41J 3/407	HONG, Gwang Hui	SAME
(11) EP3713767	SON, Hui Seung	(73) Bundesdruckerei GmbH
(21) EP19897528.6	KIM, Hyeon Jun	(72) Siebert, Martin
(47) 01.11.2023	(31) 20180127852	(31) 102019124762
(87) IL2019051389	(32) 25.10.2018	(32) 13.09.2019
25.06.2020	(33) Korea (Republic)	(33) Germany
(22) 19.12.2019	(51) B41M 5/00	(51) B42D 25/324
(54) PRINTING HEAD HEIGHT CONTROL	B41M 7/00	B42D 25/328
(73) Kornit Digital Ltd.	(11) EP3543030	B42D 25/351
(72) MANO, Ilan Shmuel	(21) EP19164665.2	B42D 25/373
YOHANANI NAFTALI, Efraim	(47) 01.11.2023	B42D 25/425
BOOKS, Yinnon	(22) 22.03.2019	B42D 25/445
(31) 201862782353 P	(54) INK JET RECORDING METHOD	(11) EP4035903
(32) 20.12.2018	(73) Seiko Epson Corporation	(21) EP20868863.0
(33) United States of America	(72) OHTA, Hitoshi	(47) 01.11.2023
(51) B41J 29/00	KOSAKA, Mitsuaki	(87) CN2020115557
B41J 2/325	(31) 2018056404	01.04.2021
B41J 11/04	(32) 23.03.2018	(22) 16.09.2020
B41J 29/13	(33) Japan	(54) MULTILAYER BODY OPTICAL ANTI-
(11) EP3689628	(51) B42D 15/00	COUNTERFEITING ELEMENT
(21) EP18862718.6	B44C 1/10	AND MANUFACTURING METHOD
(47) 01.11.2023	G06F 3/12	THEREFOR
(87) JP2018035513	B41M 5/00	(73) Zhongchao Special Security Technology
04.04.2019	(11) EP3857349	Co., Ltd
(22) 25.09.2018	(21) EP19867997.9	China Banknote Printing and Minting
(54) PRINTER	(47) 01.11.2023	Corp.
(73) Sato Holdings Kabushiki Kaisha	(87) IB2019058200	(72) HU, Chunhua
(72) TAKEDA, Yasuhide	02.04.2020	SUN, Kai
SHIMAZAKI, Hirohito	(22) 26.09.2019	ZHANG, Baoli
(31) 2017185375	(54) METHOD OF MANUFACTURING A	ZHU, Jun
(32) 26.09.2017	LAMINATED SHEET HAVING PRINTED	(31) 201910932440
(33) Japan	LAYER AND CORRESPONDING	(32) 29.09.2019
(51) B41M 3/14	SYSTEM	(33) China
B42D 25/29	(73) 3M Innovative Properties Company	(51) B42D 25/324
B42D 25/30	(72) SAITO, Koji	B42D 25/342
B42D 25/40	(31) 2018181397	B42D 25/351
G03G 15/04	(32) 27.09.2018	B42D 25/425
(11) EP3678871	(33) Japan	B42D 25/485
(21) EP18864041.1	(51) B42D 25/24	G02B 3/00
(47) 01.11.2023	B42C 19/02	G02B 27/06

(11) EP4143034	(11) EP3960494	(32) 17.09.2020
(21) EP21723661.1	(21) EP21189805.1	(33) Japan
(47) 01.11.2023	(47) 01.11.2023	(51) B60C 11/00
(87) EP2021061157	(22) 05.08.2021	B60C 1/00
04.11.2021	(54) HEAVY DUTY TIRE	B60C 19/00
(22) 28.04.2021	(73) Sumitomo Rubber Industries, Ltd.	C08K 5/18
(54) METHODS FOR DESIGNING AND	(72) HABA, Toshifumi	C08L 21/00
PRODUCING A SECURITY FEATURE	(31) 2020143714	(11) EP3848209
(73) Koenig & Bauer Banknote Solutions SA	(32) 27.08.2020	(21) EP19864813.1
(72) STEWART, Robert Laird	(33) Japan	(47) 01.11.2023
(31) 202006219	(51) B60C 7/14	(87) JP2019034993
(32) 28.04.2020	(11) EP4046823	02.04.2020
(33) United Kingdom	(21) EP22156211.9	(22) 05.09.2019
(51) B42D 25/405	(47) 01.11.2023	(54) TIRE AND METHOD OF EVALUATING
B42D 25/455	(22) 10.02.2022	TIRE GRIP PERFORMANCE
B42D 25/46	(54) AIRLESS TIRE	(73) Sumitomo Rubber Industries, Ltd.
B42D 25/475	(73) Sumitomo Rubber Industries, Ltd.	(72) MATSUNAGA, Takanobu
(11) EP3974203	(72) YAMANE, Masakatsu	KOMORI, Yoshihiko
(21) EP21198642.7	(31) 2021024583	MIYAZAKI, Tatsuya
(47) 01.11.2023	(32) 18.02.2021	(31) 2018182770
(22) 23.09.2021	(33) Japan	(32) 27.09.2018
(54) DOCUMENT BODY WITH FRONT SIDE	(51) B60C 9/00	(33) Japan
RECOGNITION	(11) EP3898276	(51) B60C 11/00
(73) Bundesdruckerei GmbH	(21) EP19849043.5	B60C 1/00
(72) Peinze, Franziska	(47) 01.11.2023	C08L 9/06
Mathea, Arthur	(87) IB2019061075	C08C 19/22
Muth, Oliver	25.06.2020	C08C 19/25
Trölenberg, Stefan	(22) 19.12.2019	C08F 236/06
(31) 102020211950	(54) TYRE FOR VEHICLE WHEELS	(11) EP3812174
(32) 23.09.2020	(73) Pirelli Tyre S.p.A.	(21) EP20766307.1
(33) Germany	(72) BRIVIO, Paolo	(47) 01.11.2023
(51) B60B 9/12	PARENTE, Rocco	(87) JP2020007791
B60B 17/00	RAMPANA, Barbara	10.09.2020
B60B 9/10	CARACINO, Paola	(22) 26.02.2020
(11) EP3582975	(31) 201800020428	(54) TIRE RUBBER COMPOSITION AND
(21) EP18706972.9	(32) 20.12.2018	PNEUMATIC TIRE
(47) 01.11.2023	(33) Italy	(73) Sumitomo Rubber Industries, Ltd.
(87) EP2018053376	(51) B60C 9/00	(72) ONO, Shuichiro
23.08.2018	D02G 3/04	KATO, Fumiya
(22) 12.02.2018	D02G 3/28	(31) 2019037706
(54) TRACK WHEEL AND ELASTIC BODY	D02G 3/48	(32) 01.03.2019
FOR A TRACK WHEEL OF THIS TYPE	B60C 9/20	(33) Japan
(73) Bochumer Verein Verkehrstechnik GmbH	B60C 9/22	(51) B60C 11/01
(72) MURAWA, Franz	(11) EP3854608	B60C 9/18
SCHULZ, Torben	(21) EP19871981.7	B60C 11/00
(31) 102017103015	(47) 01.11.2023	(11) EP3725554
(32) 15.02.2017	(87) JP2019036695	(21) EP18889155.0
(33) Germany	16.04.2020	(47) 01.11.2023
(51) B60C 1/00	(22) 19.09.2019	(87) JP2018027134
(11) EP3898267	(54) COMPOSITE CORD AND TIRE USING	20.06.2019
(21) EP19848866.0	SAME	(22) 19.07.2018
(47) 01.11.2023	(73) Sumitomo Rubber Industries, Ltd.	(54) HEAVY-DUTY TIRE
(87) FR2019053052	(72) YOSHIZUMI, Takuma	(73) Bridgestone Corporation
25.06.2020	(31) 2018193644	(72) NAKASATO, Reo
(22) 13.12.2019	(32) 12.10.2018	SATO, Taiki
(54) COPOLYMERS OF CONJUGATED	(33) Japan	(31) 2017237699
DIENE AND OF ETHYLENE	(51) B60C 9/20	(32) 12.12.2017
(73) COMPAGNIE GENERALE DES	B60C 19/00	(33) Japan
ETABLISSEMENTS MICHELIN	B60C 9/28	(51) B60C 11/03
(72) LAFAQUIERE, Vincent	(11) EP3970992	(11) EP4015246
MORESO, Emma	(21) EP21194463.2	(21) EP21208399.2
(31) 1873202	(47) 01.11.2023	(47) 01.11.2023
(32) 18.12.2018	(22) 02.09.2021	(22) 16.11.2021
(33) France	(54) MOTORCYCLE TIRE	(54) TIRE WITH TREAD HAVING A
(51) B60C 1/00	(73) Sumitomo Rubber Industries, Ltd.	DESIGNATED MOUNTING DIRECTION
B60C 9/28	(72) KOBORI, Chihiro	(73) Sumitomo Rubber Industries, Ltd.
B60C 11/00	KOBORI, Shuji	(72) NAKANO, Kazuhiro
B60C 11/03	(31) 2020156671	(31) 2020208703



(32) 16.12.2020	United States of America	(22) 21.02.2019
(33) Japan	(51) B60C 15/00	(54) SYSTEM FOR TIRE PERFORMANCE
(51) B60C 11/03	B60C 5/14	ALERTS AND ASSISTED
B60C 11/11	B60C 15/06	REMIEDIATION
(11) EP3795386	(11) EP3736142	(73) ExxonMobil Technology and Engineering
(21) EP19847668.1	(21) EP20168934.6	Company
(47) 01.11.2023	(47) 01.11.2023	(72) KALYANARAMAN, Mohan
(87) JP2019028128	(22) 09.04.2020	STERN, Adam, G.
13.02.2020	(54) MOTORCYCLE TIRE	(31) 201862656409 P
(22) 17.07.2019	(73) Sumitomo Rubber Industries, Ltd.	(32) 12.04.2018
(54) MOTORCYCLE TIRE	(72) OTANI, Masafumi	(33) United States of America
(73) Bridgestone Corporation	(31) 2019089791	(51) B60C 99/00
(72) OKI, Hiroyuki	(32) 10.05.2019	B60C 23/04
HAGIWARA, Kazumasa	(33) Japan	B60C 19/00
(31) 2018150852	(51) B60C 19/00	(11) EP4037922
(32) 09.08.2018	B60L 5/00	(21) EP20796951.0
(33) Japan	H02J 50/12	(47) 01.11.2023
(51) B60C 11/03	H02J 50/50	(87) IT2020050238
B60C 11/12	H02J 7/00	08.04.2021
(11) EP3960503	B60L 50/53	(22) 29.09.2020
(21) EP21186541.5	B60L 53/38	(54) SYSTEM FOR MEASURING THE SLIP
(47) 01.11.2023	B60M 7/00	OF A TYRE WITH RESPECT TO A RIM,
(22) 20.07.2021	(11) EP4005832	ON WHICH SAID TYRE IS MOUNTED,
(54) TIRE	(21) EP20848123.4	AND METHOD THEREOF
(73) Sumitomo Rubber Industries, Ltd.	(47) 01.11.2023	(73) YOKOHAMA TWS SOCIETÀ PER
(72) YAMAMOTO, Tetsuya	(87) JP2020026557	AZIONI
(31) 2020141912	04.02.2021	(72) MANCINELLI, Piero
(32) 25.08.2020	(22) 07.07.2020	EVANGELISTI, Andrea
(33) Japan	(54) SYSTEM FOR SUPPLYING POWER	PIERALICE, Enrico
(51) B60C 11/03	DURING TRAVEL	(31) 201900017498
B60C 11/12	(73) Denso Corporation	(32) 30.09.2019
(11) EP4019283	The University of Tokyo	(33) Italy
(21) EP21212103.2	(72) SUMIYA, Hayato	(51) B60D 1/48
(47) 01.11.2023	TAKAHASHI, Eisuke	(11) EP3592580
(22) 02.12.2021	YAMAGUCHI, Nobuhisa	(21) EP17708799.6
(54) TIRE	TAKAHASHI, Masaya	(47) 01.11.2023
(73) Sumitomo Rubber Industries, Ltd.	FUJIMOTO, Hiroshi	(87) EP2017055151
(72) HAGIHARA, Takashi	SHIMIZU, Osamu	13.09.2018
IKEDA, Ryota	(31) 2019137399	(22) 06.03.2017
FUJIMOTO, Takuya	(32) 26.07.2019	(54) A TOW BAR ASSEMBLY AND A
TAKATSUKI, Daichi	(33) Japan	METHOD FOR MOUNTING A TOW BAR
TATSUTA, Masahiro	(51) B60C 19/08	ASSEMBLY TO A VEHICLE
FUKUDA, Kengo	(11) EP4084971	(73) Brink Towing Systems B.V.
(31) 2021174925	(21) EP20821272.0	(72) KOETSIER, Robert
2020218185	(47) 01.11.2023	LESKENS, Harmen
(32) 26.10.2021	(87) EP2020086115	(51) B60D 1/54
28.12.2020	08.07.2021	(11) EP3736145
(33) Japan	(22) 15.12.2020	(21) EP20172986.0
Japan	(54) A TIRE	(47) 01.11.2023
(51) B60C 13/00	(73) Nokian Renkaat Oyj	(22) 05.05.2020
B60C 15/00	(72) LEPISTÖ, Samu	(54) RETRACTABLE TOWING HOOK
B60C 15/06	HILLMAN, Leo	ARRANGEMENT
(11) EP4005826	OJALA, Jari	(73) Brink Towing Systems B.V.
(21) EP21207496.7	ILOMÄKI, Jouko	(72) EISING, Frederik Jacob
(47) 01.11.2023	HELIN, Sami	BOVENKAMP, Bas Kasper
(22) 10.11.2021	LEHTONEN, Mikko	(31) 1950560
(54) RADIAL TIRE	KULMALA, Jarkko	(32) 09.05.2019
(73) The Goodyear Tire & Rubber Company	HAAPANIEMI, Antero	(33) Sweden
(72) PASSANTE SPACCAPIETRA, Ettore	(31) 19397535	(51) B60D 5/00
MULLER, Philippe Joseph Auguste	(32) 31.12.2019	B62D 47/02
COCCON, Marco Nicolo	(33) European Patent Office (EPO)	F16G 3/16
NAWALE, Vaibhav	(51) B60C 23/04	H02G 3/00
BORTOLET, Lionel Jean-Marie	B60C 23/06	H02G 11/00
(31) 202117476888	(11) EP3774405	B60R 16/02
202063115152 P	(21) EP19710196.7	(11) EP3854614
(32) 16.09.2021	(47) 01.11.2023	(21) EP21152466.5
18.11.2020	(87) US2019018864	(47) 01.11.2023
(33) United States of America	17.10.2019	(22) 20.01.2021

(54) DEVICE FOR SUPPORTING CABLES FOR ARTICULATED VEHICLES	(47) 01.11.2023	F24F 13/08
(73) P.E.I. Protezioni Elaborazioni Industriali S.r.l.	(87) FR2020052049	F24F 13/20
(72) BENEDETTI, Michele	20.05.2021	F24F 13/28
MARDEGAN, Vittorio	(22) 10.11.2020	B01D 46/10
(31) 202000001165	(54) HEATING, VENTILATION AND/OR	(11) EP3683073
(32) 22.01.2020	AIR-CONDITIONING DEVICE FOR A	(21) EP18853715.3
(33) Italy	MOTOR VEHICLE	(47) 01.11.2023
(51) B60G 15/06	(73) VALEO SYSTEMES THERMIQUES	(87) KR2018010652
B60G 17/00	(72) GOUDE, Sébastien	14.03.2019
B60K 5/12	(31) 1912764	(22) 11.09.2018
F16F 9/54	(32) 15.11.2019	(54) PORTABLE AIR PURIFIER
F16F 13/10	(33) France	(73) LG Electronics Inc.
F16F 13/26	(51) B60H 1/00	(72) KU, Myung Jin
F16F 15/00	(11) EP4105046	KIM, Tae Yoon
B60G 13/00	(21) EP21179612.3	HONG, Seong Ho
(11) EP3769982	(47) 01.11.2023	KIM, Juhyun
(21) EP20187123.3	(22) 15.06.2021	KIM, Youngjun
(47) 01.11.2023	(54) THERMAL MANAGEMENT SYSTEM	KIM, Ho-Jung
(22) 22.07.2020	FOR A VEHICLE	JEON, Jongkeon
(54) METHOD OF GENERATING A FORCE FOR THE ACTIVE VIBRATION REDUCTION FOR A TOP SHOCK ABSORBER MOUNT OR FOR AN ENGINE SUSPENSION MOUNT AND VEHICLES	(73) Volvo Car Corporation	KIM, Ji Hyung
(73) DN AUTOMOTIVE ITALY S.R.L.	(72) NILSSON, Ulf	(31) 20180037517
(72) INHWAN, Kim	NIELSEN, Filip	20170116151
GAZZOLI, Gianenrico	(51) B60H 1/00	(32) 30.03.2018
MICHELI, Diego	B60H 1/32	11.09.2017
(31) 201900025024	(11) EP3674115	(33) Korea (Republic)
201900013020	(21) EP19219060.1	Korea (Republic)
(32) 20.12.2019	(47) 01.11.2023	(51) B60H 1/00
26.07.2019	(22) 20.12.2019	B61D 27/00
(33) Italy	(54) METHOD AND SYSTEM FOR	(11) EP3865326
Italy	PRESERVING AUTONOMOUS	(21) EP21157357.1
(51) B60G 17/015	OPERATION OF A TRANSPORT	(47) 01.11.2023
F16F 15/03	CLIMATE CONTROL SYSTEM	(22) 16.02.2021
F16H 25/20	(73) Thermo King LLC	(54) PASSENGER TRANSPORT VEHICLE
F16H 25/22	(72) SCHUMACHER, Ryan Wayne	COMPARTMENT COMPRISING AN AIR
B60G 17/02	SRNEC, Matthew	VENTILATION SYSTEM
F16C 19/54	VANOUS, Michael James	(73) SpeedInnov
F16C 35/077	LEASURE, Mark D	(72) LANDREAUD, Christophe
B60G 11/54	HUBBARD, Wallace Stephen	BERNARD, Alexandre
F16F 13/00	CAREY, Adam B	(31) 2001561
B60G 15/04	(31) 201816235865	(32) 17.02.2020
F16C 35/063	(32) 28.12.2018	(33) France
(11) EP4011658	(33) United States of America	(51) B60H 1/00
(21) EP21751121.1	(51) B60H 1/00	F16L 3/10
(47) 01.11.2023	B60H 1/32	F16L 3/237
(87) JP2021002474	B60K 25/08	F16L 55/035
12.08.2021	F25D 11/00	(11) EP3967530
(22) 25.01.2021	H02J 7/14	(21) EP21196713.8
(54) SUSPENSION DEVICE AND ASSEMBLY METHOD THEREFOR	(11) EP3856551	(47) 01.11.2023
(73) NSK Ltd.	(21) EP19786698.1	(22) 14.09.2021
(72) YAMAMOTO, Shin	(47) 01.11.2023	(54) VEHICLE AIR CONDITIONING
SUSHI, Takahiro	(87) US2019051384	DEVICE HOT WATER PIPE HOLDING
KYO, Cyou	02.04.2020	STRUCTURE
OIKE, Mitsuru	(22) 17.09.2019	(73) Valeo Japan Co., Ltd
SUZUKI, Shunsuke	(54) TRANSPORTATION REFRIGERATION	(72) DUTTA, Soumya
(31) 2020018121	UNIT WITH ENERGY STORAGE	SUZUKI, Yukio
(32) 05.02.2020	SYSTEM AND EXTERNAL DC POWER	(31) 2020153541
(33) Japan	SOURCE	(32) 14.09.2020
(51) B60H 1/00	(73) Carrier Corporation	(33) Japan
(11) EP4058312	(72) SAROKA, Mary D.	(51) B60H 1/00
(21) EP20816293.3	BURCHILL, Jeffrey J.	G01K 1/02
	(31) 201862738682 P	B60K 37/06
	(32) 28.09.2018	G01K 13/02
	(33) United States of America	G01K 13/024
	(51) B60H 1/00	(11) EP3687842
	B60H 3/06	(21) EP18773370.4
	B01D 46/00	(47) 01.11.2023
	B01D 46/42	(87) EP2018074574
	F24F 8/80	04.04.2019

(22) 12.09.2018	(21) EP19197710.7	(72) Ghatti, Chetankumar
(54) DEVICE FOR OPERATING A MOTOR VEHICLE AIR CONDITIONING SYSTEM AND INTERIOR TEMPERATURE SENSOR UNIT FOR SUCH AN AIR CONDITIONING SYSTEM	(47) 01.11.2023	Soffner, Rodrigo
(73) Behr-Hella Thermocontrol GmbH	(22) 17.09.2019	(31) 201916594795
(72) TRAPP, Ralph	(54) WIND DEFLECTOR ASSEMBLY	(32) 07.10.2019
NAGEL, Dirk	(73) Inalfa Roof Systems Group B.V.	(33) United States of America
SCHMIDT, Rüdiger	(72) van Oirschot, Dirk Cornelis Dionisius Maria	(51) B60K 1/04
KUHLHOFF, Bernd		(11) EP4028273
PANKRATZ, Eduard	(51) B60K 1/00	(21) EP20767795.6
(31) 102017122469	B60K 17/16	(47) 01.11.2023
(32) 27.09.2017	B60K 17/02	(87) EP2020074803
(33) Germany	B60K 17/35	18.03.2021
(51) B60H 1/22	(11) EP4041581	(22) 04.09.2020
F24H 3/04	(21) EP20796626.8	(54) POWER SUPPLY ASSEMBLY FOR A MOTOR VEHICLE
H05B 3/50	(47) 01.11.2023	(73) Renault S.A.S.
H05K 1/02	(87) FR2020051728	(72) ARSAC, Benoit
H05K 7/14	15.04.2021	GAUTHIER, Christian, G.
H05B 3/24	(22) 01.10.2020	HERICHER, Laura
(11) EP3727911	(54) POWER TRANSMISSION ASSEMBLY AND VEHICLE COMPRISING SAID ASSEMBLY	LARRABEITI-JAUREGI, Mikel
(21) EP18833462.7	(73) Idee Services	ROUDIER, Sebastien
(47) 01.11.2023	(72) MICHEL, Luc	(31) 1909924
(87) FR2018053172	(31) 1911321	(32) 10.09.2019
27.06.2019	(32) 11.10.2019	(33) France
(22) 10.12.2018	(33) France	(51) B60K 13/02
(54) ELECTRIC HEATING UNIT COMPRISING GROUNDING MEANS	(51) B60K 1/00	F02B 77/11
(73) Valeo Systemes Thermiques	B60L 50/00	F02B 77/13
(72) COUAPEL, Yann	H01M 10/0525	F02M 35/10
GOGMOS, Erwan	H01M 10/0562	F02M 35/16
(31) 1762531	H01M 10/0565	B60R 13/08
(32) 19.12.2017	H01M 50/249	F02M 35/04
(33) France	H01M 50/40	(11) EP3578403
(51) B60J 1/20	H01M 4/133	(21) EP18770196.6
B60J 7/00	H01M 50/229	(47) 01.11.2023
F16C 1/14	H01M 50/291	(87) JP2018003891
(11) EP3687844	H01M 10/0585	27.09.2018
(21) EP18778915.1	H01M 50/112	(22) 06.02.2018
(47) 01.11.2023	H01M 50/121	(54) VEHICLE
(87) EP2018076282	H01M 50/122	(73) Mazda Motor Corporation
04.04.2019	H01M 4/131	(72) KODAMA, Shin
(22) 27.09.2018	H01M 4/587	SHINHAMA, Makoto
(54) ROLLER BLIND FOR VEHICLE ROOF	(11) EP3871912	SUGASAKI, Kenji
(73) Webasto SE	(21) EP20197435.9	OKAMURA, Kazumi
(72) ALBAN, Vasile-Marius	(47) 01.11.2023	YOSHIDA, Ken
WINKLER, Werner	(22) 22.09.2020	(31) 2017058559
ARDELEAN, Constantin	(54) VEHICLE BODY MEMBER HAVING CHARGING AND DISCHARGING FUNCTION	(32) 24.03.2017
POPOVICI, Andrei	(73) HYUNDAI MOTOR COMPANY	(33) Japan
HAAS, Josef	Kia Corporation	(51) B60K 17/04
(31) 102017122496	(72) SONG, Won Ki	F16H 57/04
(32) 27.09.2017	OH, Hee Dae	(11) EP4034406
(33) Germany	KIM, Min Soo	(21) EP19782521.9
(51) B60J 7/02	(31) 20200024671	(47) 01.11.2023
B60J 7/057	(32) 27.02.2020	(87) EP2019076083
(11) EP3795394	(33) Korea (Republic)	01.04.2021
(21) EP19198418.6	(51) B60K 1/00	(22) 26.09.2019
(47) 01.11.2023	F16H 57/02	(54) VEHICLE WHEEL END ARRANGEMENT
(22) 19.09.2019	F16H 57/03	(73) VOLVO TRUCK CORPORATION
(54) A GUIDE RAIL FOR A GUIDE ASSEMBLY FOR AN OPEN-ROOF SYSTEM	F16H 3/089	(72) ZACHRISSON, Jan
(73) Inalfa Roof Systems Group B.V.	B60B 35/12	ÖHRFELDT, Pär
(72) JÜNGLING, Rainer Gerhard	(11) EP3805012	DAGH, Ingemar
NELLEN, Marcel Johan Christiaan	(21) EP20197348.4	(51) B60K 17/24
(51) B60J 7/22	(47) 01.11.2023	F16D 3/38
(11) EP3795397	(22) 22.09.2020	(11) EP4110636
	(54) AXLE ASSEMBLY HAVING AXLE HOUSING	(21) EP21863046.5
	(73) ArvinMeritor Technology, LLC	(47) 01.11.2023
		(87) TR2021051459
		30.06.2022
		(22) 22.12.2021

(54) A CIRCUIT CARRIER FOR CARDAN SHAFTS	(11) EP4065402	(33) China
(73) Tirsan Kardan Sanayi Ve Ticaret Anonim Sirketi	(21) EP20808400.4	(51) B60L 5/08
(72) TARAKÇI, Sedat	(47) 01.11.2023	B60L 5/20
ALDEMİR, Oguzhan	(87) EP2020082526	(11) EP3691929
ISIK, Efe	03.06.2021	(21) EP18792431.1
(31) 202021618	(22) 18.11.2020	(47) 01.11.2023
(32) 24.12.2020	(54) FUNCTIONAL INTERIOR FITTING PART FOR A MOTOR VEHICLE, AND METHOD FOR PRODUCING SUCH A FUNCTIONAL INTERIOR FITTING PART	(87) FR2018052378
(33) Türkiye		11.04.2019
(51) B60K 28/14	(73) Lisa Dräxlmaier GmbH	(22) 27.09.2018
B60W 30/18	(72) FEINEIS, Martin	(54) SYSTEM COMPRISING CONTACT STRIP AND DETECTION CIRCUIT OF A PANTOGRAPH FOR A RAIL VEHICLE, METHOD FOR MONITORING SUCH A STRIP, AND RAIL VEHICLE
B60W 50/14	HERB, Andreas	(73) Faiveley Transport Tours
(11) EP4096955	(31) 102019131783	(72) AUBIN, Philippe
(21) EP20816442.6	(32) 25.11.2019	LAMIDE, Fabrice
(47) 01.11.2023	(33) Germany	(31) 1851284
(87) EP2020083604	(51) B60L 1/00	1851285
05.08.2021	B60L 50/50	1759231
(22) 27.11.2020	(11) EP3634803	1759230
(54) METHOD FOR OPERATING AN ASSISTANCE SYSTEM	(21) EP18746595.0	(32) 15.02.2018
(73) Mercedes-Benz Group AG	(47) 01.11.2023	15.02.2018
(72) HECKMANN, Alexander	(87) EP2018068492	03.10.2017
KOLBE, Uli	07.02.2019	03.10.2017
OLTMANN, Volker	(22) 09.07.2018	(33) France
(31) 102020000593	(54) POWER SUPPLY FOR A RAIL VEHICLE	France
(32) 30.01.2020	(73) Siemens Mobility GmbH	France
(33) Germany	(72) KLIMA, Heinrich	France
(51) B60K 35/00	(31) 102017213306	France
B60K 37/02	(32) 01.08.2017	(51) B60L 5/39
B60W 50/14	(33) Germany	B60L 53/37
B60W 40/105	(51) B60L 1/02	B60L 53/36
B60K 37/06	B60L 3/12	B60L 53/30
(11) EP3571084	B60L 7/22	B60L 53/14
(21) EP18742081.5	B60L 15/20	G05D 1/02
(47) 01.11.2023	B60L 50/53	(11) EP3983255
(87) KR2018000597	B60L 50/61	(21) EP20732569.7
26.07.2018	B60L 3/00	(47) 01.11.2023
(22) 12.01.2018	(11) EP3569440	(87) EP2020066214
(54) USER INTERFACE APPARATUS FOR VEHICLE AND VEHICLE	(21) EP19167482.9	17.12.2020
(73) LG Electronics Inc.	(47) 01.11.2023	(22) 11.06.2020
(72) CHOI, Sunghwan	(22) 05.04.2019	(54) METHOD, CONTROL CIRCUIT AND CONTROL SYSTEM FOR CONTROLLING AN ELECTRICAL POWER COLLECTOR OF A VEHICLE TO COLLECT ELECTRICAL POWER FROM A TRACK LINE OF AN ELECTRIC ROAD SYSTEM
KIM, Ilwan	(54) CONTROL SYSTEM AND METHOD FOR VEHICLES WITH DYNAMIC ELECTRIC BRAKING	(73) Elonroad AB
LEE, Jaeho	(73) Transportation IP Holdings, LLC	(72) ZETHRAEUS, Dan
JUNG, Dukyung	(72) Petrak, Edward Thomas	SÖRENSEN, Andreas
(31) 20170008271	Young, Henry Todd	(31) 1950714
(32) 17.01.2017	Wolff, Jeffrey John	(32) 13.06.2019
(33) Korea (Republic)	(31) 201862663761 P	(33) Sweden
(51) B60K 35/00	(32) 27.04.2018	(51) B60L 53/124
B60R 1/12	(33) United States of America	G01R 33/10
G06F 3/16	(51) B60L 3/00	G01V 3/10
G10L 15/22	B60L 3/04	H02J 50/12
(11) EP4011674	(11) EP4049882	H02J 50/40
(21) EP22163481.9	(21) EP22159017.7	H02J 50/60
(47) 01.11.2023	(47) 01.11.2023	H01F 27/28
(22) 22.03.2022	(22) 25.02.2022	H01F 38/14
(54) METHOD AND APPARATUS FOR CONTROLLING DISPLAY IN A SCREEN PROJECTION SCENARIO, DEVICE AND PROGRAM PRODUCT	(54) VOLTAGE MONITORING METHOD, VOLTAGE MONITORING APPARATUS, AND ELECTRIC VEHICLE	(11) EP2998153
(73) Apollo Intelligent Connectivity (Beijing) Technology Co., Ltd.	(73) Huawei Digital Power Technologies Co., Ltd.	(21) EP15190252.5
(72) LIU, Rong	(72) KONG, Xuejuan	(47) 01.11.2023
(31) 202110412533	ZHAO, Yunwu	(22) 10.09.2012
(32) 16.04.2021	ZHANG, Xing	
(33) China	(31) 202110223125	
(51) B60K 37/06	(32) 26.02.2021	

(54) FOREIGN OBJECT DETECTION IN WIRELESS ENERGY TRANSFER SYSTEMS	(21) EP16733074.5 (47) 01.11.2023 (87) EP2016065003 04.01.2018	(22) 19.07.2021 (54) VEHICLE SEAT (73) MAN Truck & Bus SE (72) Schweitzer, Simon Martin Christian Schropp, Sven Gundelsheimer, Wolfram
(73) WiTricity Corporation	(22) 28.06.2016	(31) 102020120854
(72) VERGHESE, Simon KESLER, Morris, P. HALL, Katherine LOU, Herbert, Toby	(54) METHOD AND DEVICE FOR ESTIMATING A VOLTAGE OF A BATTERY	(32) 07.08.2020
(31) 201161532785 P	(73) Bayerische Motoren Werke Aktiengesellschaft BMW Canada Inc.	(33) Germany
(32) 09.09.2011	(72) SCHWEIGER, Benno FARAG, Mohammed HABIBI, Saeid	(51) B60N 2/56 B60H 1/00
(33) United States of America	(51) B60L 53/14	(11) EP4094980
(51) B60L 53/14 B60L 53/22 B60L 53/24 B60L 53/10	(72) SCHWEIGER, Benno FARAG, Mohammed HABIBI, Saeid	(21) EP22175758.6 (47) 01.11.2023
(11) EP3461679	(51) B60L 58/22	(22) 27.05.2022
(21) EP17204898.5	(11) EP3562703	(54) THERMAL MANAGEMENT SYSTEM AND ELECTRIC VEHICLE
(47) 01.11.2023	(21) EP17828949.2	(73) Huawei Digital Power Technologies Co., Ltd.
(22) 05.01.2018	(47) 01.11.2023	(72) HE, Xiaojing WANG, Yanzhong
(54) ELECTRIC VEHICLE	(87) FR2017053629 05.07.2018	(31) 202110588847
(73) Hyundai Motor Company Kia Corporation	(22) 18.12.2017	(32) 28.05.2021
(72) WOO, Young Lee GYU, Yeong Choe JUNG, Hong Joo DONG, Sup Ahn JIN, Hwan Jung BYEONG, Seob Song SIHUN, Yang	(54) ELECTRICALLY POWERED TRANSPORT SYSTEM	(33) China
(31) 20170092450	(73) Commissariat à l'Energie Atomique et aux Energies Alternatives Metalliance	(51) B60N 2/75 B64D 11/06
(32) 21.07.2017	(72) LOPEZ, Yan	(11) EP3885187
(33) Korea (Republic)	(31) 1663444	(21) EP21164579.1
(51) B60L 53/14 B60L 53/62 B60L 53/302 H01B 7/42 H01R 13/00 B60L 53/16	(32) 28.12.2016	(47) 01.11.2023
(11) EP3632734	(33) France	(22) 24.03.2021
(21) EP19196721.5	(51) B60M 1/34 B60L 5/40 B61L 25/02	(54) ANGULAR ARMREST ADJUSTMENT ASSEMBLY
(47) 01.11.2023	(11) EP4031407	(73) B/E Aerospace, Inc.
(22) 11.09.2019	(21) EP20772279.4	(72) KHACHANE, Yashashree Umakant ACHARYA, Pradeep
(54) CHARGING APPARATUS	(47) 01.11.2023	(31) 202041013000 202017134326
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	(87) EP2020075743 25.03.2021	(32) 25.03.2020 26.12.2020
(72) TSUKAMOTO, Shota	(54) SYSTEM AND METHOD FOR ELECTRICAL FEEDING OF ROAD VEHICLES	(33) India United States of America
(31) 2018189500	(73) Elways AB	(51) B60P 7/10 B60R 9/06 B60R 11/06 B60P 7/08 B60R 11/00
(32) 04.10.2018	(72) ASPLUND, Gunnar	(11) EP3851324
(33) Japan	(31) 1951044	(21) EP20214523.1
(51) B60L 53/24	(32) 16.09.2019	(47) 01.11.2023
(11) EP4032744	(33) Sweden	(22) 16.12.2020
(21) EP22152396.2	(51) B60N 2/00 B60N 2/005 B60N 2/02 B60N 2/01 B60N 2/06 B60N 2/22	(54) TRUCK MOUNTING SYSTEM WITH TWO PIVOTAL A-ARMS
(47) 01.11.2023	(11) EP4026730	(73) Pelican Products, Inc.
(22) 20.01.2022	(21) EP21215376.1	(72) Bossenbroek, Scott Lee Tennant, Robert Clifford Deighton, Kevin John
(54) CHARGING SYSTEM AND ELECTRIC VEHICLE	(47) 01.11.2023	(31) 202016742830
(73) Huawei Digital Power Technologies Co., Ltd.	(22) 17.12.2021	(32) 14.01.2020
(72) Zhang, Xueliang Cheng, Yang	(54) VEHICLE SEAT CONTROL DEVICE	(33) United States of America
(31) 202110083917	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	(51) B60Q 1/00 G03B 21/00 G06F 3/01 G06T 3/00
(32) 21.01.2021	(72) OHNO, Mitsuyoshi TOMITA, Hiroyuki	(11) EP3350018
(33) China	(31) 2021003126	(21) EP16763861.8
(51) B60L 58/10 B60L 58/12 G01R 31/367 H01M 10/48 G01R 31/382	(32) 12.01.2021	(47) 01.11.2023
(11) EP3475712	(33) Japan	(87) EP2016071596 23.03.2017
	(51) B60N 2/06	
	(11) EP3954575	
	(21) EP21186419.4	
	(47) 01.11.2023	

(22) 13.09.2016	YIN, JUNLONG	(72) Herrmann, Andreas
(54) PROJECTION METHOD FOR A MOTOR VEHICLE, FOR PROJECTING AN IMAGE ONTO A PROJECTION SURFACE	(31) 202110378639	Fritz, Daniel
(73) Valeo Vision	(32) 08.04.2021	Goldschmidt, Soenke
(72) MOREL, Xavier	(33) China	
EL IDRISSEI, Hafid	(51) B60Q 1/068	(51) B60Q 1/50
SOMMERSCHUH, Stephan	B60Q 1/076	B60Q 1/56
ALBOU, Pierre	(11) EP3127746	B60R 13/10
(31) 1558592	(21) EP16182707.6	G08G 1/017
(32) 14.09.2015	(47) 01.11.2023	G07B 15/02
(33) France	(22) 04.08.2016	(11) EP3668755
(51) B60Q 1/00	(54) LIGHTING AND/OR SIGNALLING DEVICE OF A MOTOR VEHICLE COMPRISING AT LEAST TWO LIGHTING MODULES	(21) EP18846850.8
H05B 45/46	(73) VALEO VISION	(47) 01.11.2023
(11) EP2874468	(72) TRIPON, Laurent	(87) US2018012664
(21) EP14188826.3	(31) 1557583	21.02.2019
(47) 01.11.2023	(32) 06.08.2015	(22) 05.01.2018
(22) 14.10.2014	(33) France	(54) PARKING ENFORCEMENT MONITORING SYSTEM FOR A DIGITAL LICENSE PLATE
(54) Device for controlling a plurality of LED units, in particular for a motor vehicle	(51) B60Q 1/14	(73) Revivermx, Inc.
(73) VALEO VISION	(11) EP3441262	(72) BATTEN, Dean
(72) Duarte, Marc	(21) EP18187413.2	DUBAL, Prashant
Krick, Sebastian	(47) 01.11.2023	(31) 201762547426 P
(31) 1360009	(22) 06.08.2018	(32) 18.08.2017
(32) 15.10.2013	(54) STEERING COLUMN MODULE FOR A MOTOR VEHICLE WITH A WINGLIKE RACK ON A STEERING COLUMN LEVER, AND MOTOR VEHICLE COMPRISING SUCH A STEERING COLUMN MODULE	(33) United States of America
(33) France	(73) Valeo Schalter und Sensoren GmbH	(51) B60Q 3/30
(51) B60Q 1/04	(72) Mack, Raphael	(11) EP2993084
B60R 13/04	Lipfert, Rainer	(21) EP14183140.4
F21S 41/141	Schmidt, Dirk	(47) 01.11.2023
F21S 41/25	Habodas-Roessel, Katalin	(22) 02.09.2014
F21W 102/00	Mayr, Alexander	(54) Structure of commercial vehicle with a lighting unit for illuminating a storage area
F21S 43/14	Koerner, Frank	(73) Schmitz Cargobull AG
B60R 13/00	Mueller, Stefan	(72) Beelmann, Reinhard
F21S 43/15	(31) 102017118293	(51) B60R 3/02
F21S 43/239	(32) 11.08.2017	B60R 19/48
F21S 43/245	(33) Germany	(11) EP4034426
F21S 43/249	(51) B60Q 1/14	(21) EP20793799.6
F21S 43/20	F21S 41/663	(47) 01.11.2023
(11) EP3853068	(11) EP2477845	(87) IB2020058884
(21) EP19863782.9	(21) EP10728141.2	01.04.2021
(47) 01.11.2023	(47) 01.11.2023	(22) 23.09.2020
(87) US2019051418	(87) EP2010003975	(54) IMPROVED TILTABLE FOOTBOARD SYSTEM FOR HEAVY VEHICLE
26.03.2020	17.03.2011	(73) IVECO S.P.A.
(22) 17.09.2019	(22) 01.07.2010	(72) PACCONI, Angelo
(54) VEHICLE LAMP ASSEMBLY	(54) VEHICLE HEADLIGHT	(31) 201900017003
(73) Flex-N-Gate Advanced Product Development, LLC	(73) Bayerische Motoren Werke Aktiengesellschaft	(32) 23.09.2019
(72) HANSEN, David, Bjarne	(72) WEIL, Christopher	(33) Italy
GEORGE, Ronie	MORGENSTERN, Sebastian	(51) B60R 11/04
(31) 201862732279 P	ERDL, Helmut	B60R 11/00
(32) 17.09.2018	DANNER, Stefan	B60R 11/02
(33) United States of America	(31) 102009041189	(11) EP3902706
(51) B60Q 1/04	(32) 14.09.2009	(21) EP19904924.8
B60R 19/24	(33) Germany	(47) 01.11.2023
(11) EP4070993	(51) B60Q 1/26	(87) US2019068707
(21) EP22166882.5	B60R 1/12	02.07.2020
(47) 01.11.2023	F21S 43/50	(22) 27.12.2019
(22) 06.04.2022	(11) EP3196074	(54) DRIVER ASSIST SYSTEM
(54) FRONT BUMPER SKIN, FRONT BUMPER SIDE MOUNTING STRUCTURE AND ASSEMBLY METHOD THEREOF	(21) EP17159384.1	(73) ZF Active Safety and Electronics US LLC
(73) PSA Automobiles SA	(47) 01.11.2023	(72) HART, Michael A.
(72) WANG, ZI YE	(22) 10.12.2010	HARSH, Shah
LI, BING	(54) LIGHTING MODULE FOR A VEHICLE	(31) 201962906387 P
SUN, WEI	(73) SMR Patents S.à.r.l.	201862785740 P
WANG, HONGRI		(32) 26.09.2019
		28.12.2018
		(33) United States of America
		United States of America

(51) B60R 13/02	(22) 10.02.2016	LU, Yuzhe
(11) EP3912863	(54) SIDE AIR BAG DEVICE FOR VEHICLE	HE, Guangbo
(21) EP21174322.4	(73) Autoliv Development AB	(31) 201910410317
(47) 01.11.2023	(72) KOBAYASHI Yuto	(32) 16.05.2019
(22) 18.05.2021	NAKAJIMA Yutaka	(33) China
(54) MOUNTING SYSTEM AND DEVICE FOR INSTALLING AT LEAST ONE LINING ELEMENT IN A VEHICLE, AND CORRESPONDING VEHICLE	(31) 2015069343	(51) B60R 25/40
(73) SpeedInnov	(32) 30.03.2015	B60R 16/02
(72) COURCIMEAUX, Eric	(33) Japan	B60R 16/03
(31) 2005037	(51) B60R 21/215	G06F 1/3206
(32) 19.05.2020	(11) EP3976425	G06F 1/3287
(33) France	(21) EP20720824.0	H04L 12/12
(51) B60R 13/02	(47) 01.11.2023	H04L 12/40
B60P 7/08	(87) EP2020061303	(11) EP3984838
B62D 65/02	03.12.2020	(21) EP20823582.0
B62D 65/14	(22) 23.04.2020	(47) 01.11.2023
(11) EP4019336	(54) VEHICLE PROVIDED WITH LIGHT PASSENGER AIRBAG FLAPS	(87) JP2020011366
(21) EP21213972.9	(73) Renault s.a.s	17.12.2020
(47) 01.11.2023	(72) CORRE, Jean-Marie	(22) 16.03.2020
(22) 13.12.2021	(31) 1905727	(54) CONTROL DEVICE FOR MOBILE BODY
(54) SELF-UNLOCKING COVER, TRIM COMPONENT AND METHOD FOR MOUNTING A TRIM COMPONENT	(32) 29.05.2019	(73) MAZDA MOTOR CORPORATION
(73) VOLKSWAGEN AG	(33) France	(72) SUENAGA, Shuji
(72) Wahlandt, Felix	(51) B60R 21/2338	(31) 2019110940
Grobe, Michaela	(11) EP4011712	(32) 14.06.2019
(31) 102020216446	(21) EP21188700.5	(33) Japan
(32) 22.12.2020	(47) 01.11.2023	(51) B60R 99/00
(33) Germany	(22) 30.07.2021	B62D 15/02
(51) B60R 21/13	(54) AIRBAG APPARATUS	(11) EP4026743
(11) EP3971043	(73) HYUNDAI MOTOR COMPANY	(21) EP19943852.4
(21) EP21189117.1	Kia Corporation	(47) 01.11.2023
(47) 01.11.2023	(72) CHOI, Jun Yeol	(87) JP2019035199
(22) 02.08.2021	(31) 20200172635	11.03.2021
(54) AGRICULTURAL MACHINE	(32) 10.12.2020	(22) 06.09.2019
(73) CLAAS Selbstfahrende Erntemaschinen GmbH	(33) Korea (Republic)	(54) PARKING ASSISTANCE METHOD AND PARKING ASSISTANCE DEVICE
(72) Bentfeld, Andreas	(51) B60R 21/2338	(73) NISSAN MOTOR Co., Ltd.
Mühlenhoff, Kai	B60R 21/239	(72) SUZUKI, Yasuhiro
Börgermann, Rainer	(11) EP3820744	HIRANO, Yusuke
(31) 102020124720	(21) EP19739229.3	(51) B60S 1/48
(32) 22.09.2020	(47) 01.11.2023	B60S 1/52
(33) Germany	(87) EP2019067951	B60S 1/54
(51) B60R 21/203	16.01.2020	(11) EP3953220
B60R 21/015	(22) 04.07.2019	(21) EP20712283.9
B62D 1/18	(54) AIRBAG MODULE WITH A CONTROLLABLE VENTILATION DEVICE	(47) 01.11.2023
(11) EP3960551	(73) Autoliv Development AB	(87) EP2020057062
(21) EP21201636.4	(72) HELLOT, Laurent	15.10.2020
(47) 01.11.2023	(31) 102018116859	(22) 16.03.2020
(22) 27.03.2020	(32) 12.07.2018	(54) DEVICE FOR SUPPLYING AIR TO A SUCTION SIDE OF A PUMP, COMPONENT UNIT HAVING SUCH A DEVICE AND WIPER SYSTEM
(54) DEVICE FOR MONITORING A STEERING WHEEL POSITION OF A MOTOR VEHICLE	(33) Germany	(73) Valeo Systèmes d'Essuyage
(73) MAN Truck & Bus SE	(51) B60R 25/20	(72) BUSS, Michael
(72) Gerritzen, Ralph	B60R 25/04	FAEHNLE, Felix
Mendler, Hardy	B60R 25/01	SCHOLL, Wolfgang
(31) 102019003711	(11) EP3885204	(31) 102019109457
(32) 25.05.2019	(21) EP20805746.3	(32) 10.04.2019
(33) Germany	(47) 01.11.2023	(33) Germany
(51) B60R 21/207	(87) CN2020083066	(51) B60T 7/04
B60R 21/231	19.11.2020	B60T 8/40
(11) EP3279040	(22) 02.04.2020	B60T 13/68
(21) EP16771906.1	(54) AUTOMOBILE CONTROL METHOD AND DEVICE BASED ON NFC AUTOMOBILE KEY, AUTOMOBILE AND STORAGE MEDIUM	B60T 13/74
(47) 01.11.2023	(73) Guangzhou Xiaopeng Autopilot Technology Co., Ltd.	(11) EP3271221
(87) JP2016053917	(72) LI, Xiangrong	(21) EP15823175.3
06.10.2016	ZHOU, Bo	(47) 01.11.2023
	LIU, Yilin	(87) EP2015081402
		22.09.2016
		(22) 30.12.2015

(54) BRAKE SYSTEM WITH A NEW TYPE OF MUX CONTROL (MUX 2.0), HAVING AN OUTLET VALVE/BRAKE SYSTEM OR AN OUTLET VALVE PER BRAKE CIRCUIT, AND METHOD FOR CONTROLLING PRESSURE	KALLENBACH, Stephan (31) 102018122865 (32) 18.09.2018 (33) Germany	(21) EP18765574.1 (47) 01.11.2023 (87) EP2018072839 27.02.2020
(73) IPGate AG (72) LEIBER, Heinz LEIBER, Thomas	(51) B60T 8/48 B60T 13/74 F16H 25/22 F16H 25/20 (11) EP3490857 (21) EP17835395.9 (47) 01.11.2023 (87) US2017044547 01.02.2018	(22) 24.08.2018 (54) PNEUMATIC BRAKE CONTROL MODULE COMPONENTS (73) ZF CV Systems Europe BV (72) COUPPEE, Ulrich FESZCZUK, Witold GRZESKOWIAK, Adrian HYZOPSKI, Krzysztof SMARDZ, Marek WUJEC, Arkadiusz
(31) 202015107079 U 202015107075 U 202015107072 U (32) 16.03.2015 16.03.2015 16.03.2015 (33) Germany Germany Germany	(22) 28.07.2017 (54) VEHICLE BRAKE SYSTEM HAVING PLUNGER POWER SOURCE (73) ZF Active Safety US Inc. (72) GANZEL, Blaise, J. MALWITZ, Daniel, Ryan CAMPAU, Gregory, P. STARR, Joseph CASSIDY, John CALDWELL, William BRANHAM, Ralph FERGUSON, Tim	(51) B60T 17/00 B01D 53/26 B01D 53/04 (11) EP3038872 (21) EP14840377.7 (47) 01.11.2023 (87) US2014053337 05.03.2015 (22) 29.08.2014 (54) AIR DRYER ASSEMBLY WITH MANIFOLD SYSTEM (73) Haldex Brake Products Corporation (72) ADAMS, Andrew, W. JENKINS, Michael, R.
(51) B60T 7/12 B60T 13/66 (11) EP4093642 (21) EP21700648.5 (47) 01.11.2023 (87) IB2021050414 29.07.2021 (22) 20.01.2021 (54) SYSTEM AND METHOD FOR CONTROLLING THE JERK FOR AN AUTOMATIC VEHICLE	(31) 201615221648 (32) 28.07.2016 (33) United States of America (51) B60T 13/66 B60T 13/68 B60T 17/22 (11) EP3600992 (21) EP18714990.1 (47) 01.11.2023 (87) EP2018056841 27.09.2018 (22) 19.03.2018 (54) ELECTRONICALLY CONTROLLABLE BRAKING SYSTEM AND METHOD FOR CONTROLLING THE ELECTRONICALLY CONTROLLABLE BRAKING SYSTEM	(31) 201314014689 (32) 30.08.2013 (33) United States of America (51) B60T 17/00 B60T 17/04 (11) EP4017770 (21) EP20754200.2 (47) 01.11.2023 (87) EP2020072023 25.02.2021 (22) 05.08.2020 (54) NON-RETURN VALVE DEVICE (73) KNORR-BREMSE Systeme für Nutzfahrzeuge GmbH (72) MOSER, Jürgen (31) 102019122452 (32) 21.08.2019 (33) Germany
(73) IVECO FRANCE S.A.S. (72) SANCHEZ, Francisco (31) 202000000976 (32) 20.01.2020 (33) Italy	(31) 201615221648 (32) 28.07.2016 (33) United States of America (51) B60T 13/66 B60T 13/68 B60T 17/22 (11) EP3600992 (21) EP18714990.1 (47) 01.11.2023 (87) EP2018056841 27.09.2018 (22) 19.03.2018 (54) ELECTRONICALLY CONTROLLABLE BRAKING SYSTEM AND METHOD FOR CONTROLLING THE ELECTRONICALLY CONTROLLABLE BRAKING SYSTEM	(31) 201314014689 (32) 30.08.2013 (33) United States of America (51) B60T 17/00 B60T 17/04 (11) EP4017770 (21) EP20754200.2 (47) 01.11.2023 (87) EP2020072023 25.02.2021 (22) 05.08.2020 (54) NON-RETURN VALVE DEVICE (73) KNORR-BREMSE Systeme für Nutzfahrzeuge GmbH (72) MOSER, Jürgen (31) 102019122452 (32) 21.08.2019 (33) Germany
(51) B60T 7/18 B60T 7/12 G06N 3/04 B60W 30/095 (11) EP3725609 (21) EP18888542.0 (47) 01.11.2023 (87) CN2018120104 20.06.2019 (22) 10.12.2018 (54) CALIBRATING METHOD FOR VEHICLE ANTI-COLLISION PARAMETERS, VEHICLE CONTROLLER AND STORAGE MEDIUM	(31) 201615221648 (32) 28.07.2016 (33) United States of America (51) B60T 13/66 B60T 13/68 B60T 17/22 (11) EP3600993 (21) EP18714991.9 (47) 01.11.2023 (87) EP2018056855 27.09.2018 (22) 19.03.2018 (54) ELECTRONICALLY CONTROLLABLE BRAKE SYSTEM AND METHOD FOR CONTROLLING SAID ELECTRONICALLY CONTROLLABLE BRAKE SYSTEM	(31) 201314014689 (32) 30.08.2013 (33) United States of America (51) B60T 17/00 B60T 17/04 (11) EP4017770 (21) EP20754200.2 (47) 01.11.2023 (87) EP2020072023 25.02.2021 (22) 05.08.2020 (54) NON-RETURN VALVE DEVICE (73) KNORR-BREMSE Systeme für Nutzfahrzeuge GmbH (72) MOSER, Jürgen (31) 102019122452 (32) 21.08.2019 (33) Germany
(73) NIO (Anhui) Holding Co., Ltd. (72) HU, Chuanyuan (31) 201810230110 201711345373 (32) 20.03.2018 15.12.2017 (33) China China	(73) ZF CV Systems Europe BV (72) VAN THIEL, Julian (31) 102017002716 (32) 21.03.2017 (33) Germany (51) B60T 13/66 B60T 13/68 B60T 17/22 (11) EP3600993 (21) EP18714991.9 (47) 01.11.2023 (87) EP2018056855 27.09.2018 (22) 19.03.2018 (54) ELECTRONICALLY CONTROLLABLE BRAKE SYSTEM AND METHOD FOR CONTROLLING SAID ELECTRONICALLY CONTROLLABLE BRAKE SYSTEM	(31) 201314014689 (32) 30.08.2013 (33) United States of America (51) B60T 17/00 B60T 17/04 (11) EP4017770 (21) EP20754200.2 (47) 01.11.2023 (87) EP2020072023 25.02.2021 (22) 05.08.2020 (54) NON-RETURN VALVE DEVICE (73) KNORR-BREMSE Systeme für Nutzfahrzeuge GmbH (72) MOSER, Jürgen (31) 102019122452 (32) 21.08.2019 (33) Germany
(51) B60T 7/22 (11) EP3853085 (21) EP19758945.0 (47) 01.11.2023 (87) EP2019072421 26.03.2020 (22) 22.08.2019 (54) METHOD FOR THE EMERGENCY BRAKING OF AN EGO-VEHICLE AND EMERGENCY BRAKING SYSTEM	(73) ZF CV Systems Europe BV (72) VAN THIEL, Julian (31) 102017002719 (32) 21.03.2017 (33) Germany (51) B60T 15/36 (11) EP3840993	(54) SPRING BRAKE ACTUATOR AND BRAKE RELEASE MECHANISM FOR SUCH SPRING BRAKE ACTUATOR (73) ZF CV Systems Europe BV (72) FRANCUK, Michal SZCZUPŁAK, Lukasz
(73) ZF CV Systems Europe BV (72) DIECKMANN, Thomas	(51) B60T 13/66 B60T 13/68 B60T 17/22 (11) EP3600993 (21) EP18714991.9 (47) 01.11.2023 (87) EP2018056855 27.09.2018 (22) 19.03.2018 (54) ELECTRONICALLY CONTROLLABLE BRAKE SYSTEM AND METHOD FOR CONTROLLING SAID ELECTRONICALLY CONTROLLABLE BRAKE SYSTEM	(51) B60T 17/22 B61L 27/57 (11) EP3919333 (21) EP21177725.5 (47) 01.11.2023 (22) 04.06.2021



(54) INSTALLATION FOR MONITORING A PLURALITY OF VEHICLES AND ASSOCIATED MONITORING METHOD	(87) JP2020028056 28.01.2021 (22) 20.07.2020	(21) EP15718152.0 (47) 01.11.2023 (87) EP2015057357 03.12.2015
(73) ALSTOM Holdings	(54) VEHICLE	(22) 02.04.2015
(72) FUMAROLA, Francesco Paolo	(73) Yamaha Hatsudoki Kabushiki Kaisha	(54) DETERMINING A CRITICAL VEHICLE STATE
(31) 2005889	(72) KIMURA, Yasuto	(73) Volkswagen Aktiengesellschaft
(32) 05.06.2020	MASUDA, Masafumi	(72) PASCHEKA, Patrick
(33) France	(31) PCT/JP2019/028435	(31) 102014210174
(51) B60W 10/02	(32) 19.07.2019	(32) 28.05.2014
B60W 10/06	(33) World Intellectual Property Office (WIPO)	(33) Germany
B60W 10/08	(51) B60W 30/09	(51) B60W 50/00
B60W 30/186	B60T 7/12	B60W 30/10
B60W 20/50	B60W 30/095	G06N 20/00
B60W 30/192	(11) EP3725627	B60W 60/00
B60K 6/387	(21) EP18888943.0	B60W 40/08
B60K 6/48	(47) 01.11.2023	B60W 30/12
(11) EP4114699	(87) CN2018119582	B60W 40/10
(21) EP21707188.5	20.06.2019	B60W 40/12
(47) 01.11.2023	(22) 06.12.2018	B60W 50/029
(87) EP2021053930	(54) METHOD FOR GENERATING VEHICLE CONTROL COMMAND, AND VEHICLE CONTROLLER AND STORAGE	(11) EP3909824
10.09.2021	MEDIUM	(21) EP20783254.4
(22) 18.02.2021	(73) NIO (Anhui) Holding Co., Ltd.	(47) 01.11.2023
(54) METHOD FOR OPERATING A HYBRID DRIVE ASSEMBLY FOR A MOTOR VEHICLE AND CORRESPONDING HYBRID DRIVE ASSEMBLY	(72) HU, Chuanyuan	(87) JP2020009774
(73) Audi AG	(31) 201810230207	08.10.2020
(72) JONUSCHEIT, Michael	201711346063	(22) 06.03.2020
(31) 102020105592	(32) 20.03.2018	(54) VEHICLE TRAVEL CONTROL APPARATUS
(32) 03.03.2020	15.12.2017	(73) MAZDA MOTOR CORPORATION
(33) Germany	(33) China	(72) SAKASHITA Shinsuke
(51) B60W 10/20	China	HORIGOME Daisuke
B60W 40/105	(51) B60W 30/14	ISHIBASHI Masato
B60W 40/107	B60W 30/18	HOJIN Eiichi
B60W 30/04	(11) EP3386826	(31) 2019066763
B60W 30/18	(21) EP16805366.8	(32) 29.03.2019
(11) EP3932762	(47) 01.11.2023	(33) Japan
(21) EP20773954.1	(87) EP2016079118	(51) B61C 9/30
(47) 01.11.2023	15.06.2017	B61F 3/16
(87) CN2020079961	(22) 29.11.2016	B61D 13/00
24.09.2020	(54) SPEED CONTROL SYSTEM FOR CONTROLLING THE SPEED OF A VEHICLE	(11) EP4112413
(22) 18.03.2020	(73) Bayerische Motoren Werke	(21) EP22181266.2
(54) SAFETY MONITORING METHOD AND SYSTEM FOR AUTONOMOUS VEHICLE, AND MOTION CONTROL SYSTEM	Aktiengesellschaft	(47) 01.11.2023
(73) Great Wall Motor Company Limited	(72) KNOLLER, Stefan	(22) 27.06.2022
(72) HE, Lin	(31) 102015225011	(54) BOGIE AND ASSOCIATED RAILWAY VEHICLE
ZHANG, Kai	(32) 11.12.2015	(73) ALSTOM Holdings
ZHEN, Longbao	(33) Germany	(72) FAURE, Ludovic
GE, Jianyong	(51) B60W 40/02	RODET, Alain
WANG, Tianpei	B60W 40/10	BENAI, Cyrille
GAO, Jian	B60W 60/00	(31) 2106917
LU, Ning	B60W 30/095	(32) 28.06.2021
WEI, Songbo	(11) EP4082858	(33) France
ZHANG, Jian	(21) EP21170962.1	(51) B61C 17/00
(31) 201910204323	(47) 01.11.2023	(11) EP4132832
(32) 18.03.2019	(22) 28.04.2021	(21) EP21721877.5
(33) China	(54) METHOD AND APPARATUS FOR AGGREGATING/REPRESENTING AN ENVIRONMENT MODEL FOR A DRIVER ASSISTANCE SYSTEM OF A VEHICLE	(47) 01.11.2023
(51) B60W 20/19	(73) KNORR-BREMSE Systeme für Nutzfahrzeuge GmbH	(87) EP2021060010
B60K 6/46	(72) MAIER, Oliver	04.11.2021
B60W 10/06	NOHL, Andreas	(22) 19.04.2021
B60W 10/08	(51) B60W 40/09	(54) RAIL VEHICLE COMPRISING A COMPRESSOR, AND METHOD FOR OPERATING A RAIL VEHICLE
B60W 50/06	B60W 30/16	(73) Siemens Mobility GmbH
B60W 10/26	(11) EP3148855	(72) STOFF, Helmut
(11) EP4001036		(31) 102020205335
(21) EP20844456.2		(32) 28.04.2020
(47) 01.11.2023		(33) Germany

(51) B61D 1/00	B61D 37/00	(72) LIU, Muqi
(11) EP4100293	(11) EP4101723	ZHOU, Xingtao
(21) EP21711800.9	(21) EP22178018.2	JIANG, Ming
(47) 01.11.2023	(47) 01.11.2023	YANG, Tao
(87) EP2021055639	(22) 09.06.2022	GENG, Peng
14.10.2021	(54) ARRANGEMENT FOR A TRANSPORT	MA, Jiangfan
(22) 05.03.2021	VEHICLE CONVERTIBLE BETWEEN A	ZHENG, Yichuan
(54) RAIL VEHICLE WITH FULLY	PASSENGER SPACE AND A LUGGAGE	ZHANG, Xinze
INTEGRATED WHEELCHAIR ZONE	SPACE, METHODS FOR CONVERTING	(31) 201710984052
(73) Siemens Mobility GmbH	SUCH AN ARRANGEMENT AND	(32) 20.10.2017
(72) DOMBROWSKY, Martin	VEHICLE INCLUDING SUCH AN	(33) China
KEMPER, Florian	ARRANGEMENT	(51) B61L 27/40
KLEIN, Ulrich	(73) SpeedInnov	B61L 27/70
(31) 102020204471	(72) BERNARD, Alexandre	B61L 27/20
(32) 07.04.2020	BEAUSEIGNEUR, Christophe	B61L 15/00
(33) Germany	(31) 2106182	(11) EP3771612
(51) B61D 3/10	(32) 11.06.2021	(21) EP20183587.3
B61G 5/02	(33) France	(47) 01.11.2023
(11) EP4034446	(51) B61F 5/24	(22) 02.07.2020
(21) EP20780606.8	(11) EP3892516	(54) DRAFTING DEVICE AND METHOD
(47) 01.11.2023	(21) EP19893822.7	FOR OPERATING SAME
(87) EP2020076295	(47) 01.11.2023	(73) Siemens Mobility GmbH
01.04.2021	(87) CN2019117093	(72) Bulut, Mete
(22) 21.09.2020	11.06.2020	Dettmer, Daniel
(54) ARTICULATION DEVICE FOR	(22) 11.11.2019	Henkel, Bernd
AN ARTICULATED VEHICLE,	(54) DAMPING CONTROL METHOD AND	Möller, Jens
CORRESPONDING VEHICLE AND	DEVICE FOR SHOCK ABSORBER OF	Opp, Wolfgang
ADJUSTMENT METHOD	TRAIN	(31) 102019211641
(73) ALSTOM Holdings	(73) CRRC Changchun Railway Vehicles Co.,	(32) 02.08.2019
(72) HOYON, Christophe	Ltd.	(33) Germany
(31) 1910463	(72) WANG, Zhongyao	(51) B62B 3/00
(32) 23.09.2019	SONG, Chunyuan	B62B 5/00
(33) France	ZHUANG, Xi	A61B 6/00
(51) B61D 17/12	(31) 201811480709	A61B 6/10
F16B 12/02	(32) 05.12.2018	(11) EP4052991
(11) EP4105096	(33) China	(21) EP20882558.8
(21) EP22178735.1	(51) B61L 15/00	(47) 01.11.2023
(47) 01.11.2023	(11) EP3636512	(87) JP2020039423
(22) 13.06.2022	(21) EP18814469.5	06.05.2021
(54) TRIM ASSEMBLY FOR A VEHICLE	(47) 01.11.2023	(22) 20.10.2020
BODY, IN PARTICULAR A RAILWAY	(87) JP2018011609	(54) MOBILE RADIOGRAPHY DEVICE
VEHICLE	13.12.2018	(73) FUJIFILM Corporation
(73) ALSTOM Holdings	(22) 23.03.2018	(72) EGUCHI, Koichi
(72) BARABAN, Ludovic	(54) TRAIN SAFETY SYSTEM, TRAIN	(31) 2019199331
BAQUE, Cédric Adrien	SAFETY CONTROL METHOD, AND	(32) 31.10.2019
(31) 2106248	TRAIN ON-BOARD DEVICE	(33) Japan
(32) 14.06.2021	(73) Hitachi, Ltd.	(51) B62B 7/12
(33) France	(72) NAKAMURA, Tomohiko	B62B 7/06
(51) B61D 19/00	(31) 2017113955	B62B 7/14
E05C 9/00	(32) 09.06.2017	B62B 9/10
E05C 3/00	(33) Japan	A47D 1/06
B61D 19/02	(51) B61L 27/30	A47D 13/02
E05B 81/20	G06F 21/64	B62B 5/00
E05B 83/36	G06F 21/60	(11) EP3615399
E05C 9/18	B61L 27/37	(21) EP18722709.5
(11) EP3885229	B61L 27/50	(47) 01.11.2023
(21) EP18940507.9	B61L 27/60	(87) GB2018051091
(47) 01.11.2023	B61L 27/20	01.11.2018
(87) ES2018070750	(11) EP3636513	(22) 26.04.2018
28.05.2020	(21) EP18868901.2	(54) CHILD CARRIER
(22) 21.11.2018	(47) 01.11.2023	(73) RSG Innovations Limited
(54) DOOR FOR HIGH-SPEED TRAINS	(87) CN2018085943	(72) DESAI, Rajesh
(73) JC Disseny Ingenieria i Aplicacions S.L.	25.04.2019	KINGETT, Graham
(72) CARRIÓN ESPELTA, Juan	(22) 08.05.2018	(31) 201706750
FERNÁNDEZ SOLER, Rafael	(54) CONTROL METHOD AND TRAIN	(32) 27.04.2017
(51) B61D 33/00	CONTROL SYSTEM	(33) United Kingdom
B60N 2/20	(73) CRSC RESEARCH & DESIGN	(51) B62D 1/181
B60N 2/32	INSTITUTE GROUP CO., LTD.	B62D 1/185

B62D 1/183	(73) Hyundai Mobis Co., Ltd.	(54) MOTOR VEHICLE BODY SIDE ARRANGEMENT
(11) EP3817963	(72) YANG, Jin Ho	(73) Renault s.a.s
(21) EP19736629.7	(31) 20200103413	(72) CABRAL, Guillaume
(47) 01.11.2023	(32) 18.08.2020	PIC, Aurélien
(87) EP2019067278	(33) Korea (Republic)	(31) 1758431
09.01.2020	(51) B62D 21/15	(32) 12.09.2017
(22) 28.06.2019	B62D 25/02	(33) France
(54) STEERING COLUMN FOR A MOTOR VEHICLE	B62D 25/20	(51) B62D 25/02
(73) thyssenkrupp Presta AG	(11) EP4072925	B62D 25/06
thyssenkrupp AG	(21) EP20816554.8	B62D 27/02
(72) BAYER, Tim	(47) 01.11.2023	B62D 29/00
KREUTZ, Daniel	(87) FR2020052029	(11) EP3932785
(31) 102018211041	17.06.2021	(21) EP21180391.1
(32) 04.07.2018	(22) 06.11.2020	(47) 01.11.2023
(33) Germany	(54) ELECTRICALLY DRIVEN MOTOR VEHICLE WITH REINFORCED	(22) 18.06.2021
(51) B62D 6/00	ROCKER PANEL	(54) VEHICLE BODY STRUCTURE
B60W 30/00	(73) PSA Automobiles SA	(73) MAZDA MOTOR CORPORATION
G08G 1/09	(72) BESSETTE, Damien	(72) Shimanaka, Tsuneki
G08G 1/16	JEUNE, Christelle	(31) 2020113840
B62D 137/00	FONFREDE, Stephane	(32) 01.07.2020
B60W 30/18	MERESSE, Ludovic	(33) Japan
B62D 15/02	PERU, Marc	(51) B62D 35/00
(11) EP3848272	(31) 1914347	B62D 37/02
(21) EP18932769.5	(32) 13.12.2019	(11) EP4031440
(47) 01.11.2023	(33) France	(21) EP20792480.4
(87) JP2018033227	(51) B62D 21/15	(47) 01.11.2023
12.03.2020	B62D 25/20	(87) IB2020058725
(22) 07.09.2018	(11) EP4086142	25.03.2021
(54) VEHICLE TRAVELING CONTROL METHOD AND TRAVELING CONTROL DEVICE	(21) EP22166430.3	(22) 18.09.2020
(73) NISSAN MOTOR CO., LTD.	(47) 01.11.2023	(54) SPOILER FOR A VEHICLE COMPRISING AN INTEGRATED
(72) HAYAKAWA, Yasuhisa	(22) 04.04.2022	LOCKING DEVICE
OKI, Takahiko	(54) LOWER VEHICLE-BODY STRUCTURE OF VEHICLE	(73) IVECO S.P.A.
(51) B62D 9/00	(73) MAZDA MOTOR CORPORATION	(72) CASA, Fabrizio
B60G 3/01	(72) KAWASAKI, Mikado	DE MOLLI, Romeo
F15B 15/16	NATSUME, Hirotaka	(31) 201900016856
F15B 15/06	EBISUMOTO, Keisuke	(32) 20.09.2019
F15B 15/14	NAKAMOTO, Akiko	(33) Italy
F16N 7/36	TSUJI, Daisuke	(51) B62D 55/10
F15B 15/28	OTSUKA, Kento	B62D 55/104
F16F 9/14	(31) 2021077947	B62D 55/108
(11) EP4008607	(32) 30.04.2021	B62D 55/112
(21) EP21212069.5	(33) Japan	(11) EP3759014
(47) 01.11.2023	(51) B62D 21/20	(21) EP19712628.7
(22) 02.12.2021	B60P 7/08	(47) 01.11.2023
(54) A DEVICE AND A SYSTEM FOR CONTROLLING THE TURNING OF AN OBJECT	(11) EP3581469	(87) IB2019051676
(73) EMTW Production AB	(21) EP18177388.8	06.09.2019
(72) HENRIKSSON, Arne	(47) 01.11.2023	(22) 01.03.2019
(31) 2051420	(22) 12.06.2018	(54) CRAWLED VEHICLE FOR THE PREPARATION OF SKI PISTES
(32) 04.12.2020	(54) COMMERCIAL VEHICLE CHASSIS WITH A PICKUP FOR TEMPORARY	(73) PRINOTH S.p.A.
(33) Sweden	STOWAGE OF ELONGATED EQUIPMENT COMPONENTS	(72) LEITNER, Karl
(51) B62D 15/02	(73) Schmitz Cargobull AG	MAURER, Gregor
G06V 20/56	(72) Rathmann, Norbert	(31) 201800003244
G08G 1/16	Yuan, Zhenning	(32) 02.03.2018
G06T 7/00	Eikerling, Frank	(33) Italy
G06V 20/58	(51) B62D 25/02	(51) B62J 45/411
G06V 10/82	B62D 25/04	B62J 45/421
(11) EP3957548	B62D 25/16	B62M 3/08
(21) EP21190024.6	(11) EP3681786	G01L 3/00
(47) 01.11.2023	(21) EP18788668.4	(11) EP4157701
(22) 06.08.2021	(47) 01.11.2023	(21) EP21769513.9
(54) SYSTEM AND MEHTOD FOR AVOIDING COLLISION BASED ON VISION	(87) EP2018074464	(47) 01.11.2023
	17.03.2019	(87) IB2021057366
	(22) 11.09.2018	17.02.2022
		(22) 10.08.2021

(54) PEDAL FOR BICYCLES WITH INTEGRATED GENERATOR	(33) China	(73) Yamaha Hatsudoki Kabushiki Kaisha
(73) FAVERO ELECTRONICS S.R.L.	(51) B62K 11/00	(72) YASUKAWA, Risa
(72) FAVERO, Gino	B62M 7/02	KOBAYASHI, Hiroshi
(31) 202000019885	B62J 40/00	KISHI, Tomoaki
(32) 10.08.2020	F02M 35/16	TORIGOE, Hoshimi
(33) Italy	(11) EP3960603	(31) 2019089836
(51) B62K 3/00	(21) EP20795380.3	(32) 10.05.2019
B62K 15/00	(47) 01.11.2023	(33) Japan
B62K 21/12	(87) JP2020006000	(51) B62M 23/02
(11) EP4019379	29.10.2020	B62J 41/00
(21) EP20216395.2	(22) 17.02.2020	(11) EP3950484
(47) 01.11.2023	(54) STRADDLED VEHICLE	(21) EP20790467.3
(22) 22.12.2020	(73) Yamaha Hatsudoki Kabushiki Kaisha	(47) 01.11.2023
(54) FOLDABLE HANDLEBAR	(72) MAKITA, Naoki	(87) JP2020016383
(73) Driveman GmbH	SATO, Hayatoshi	22.10.2020
(72) Schnippering, Axel	KUROIWA, Makoto	(22) 14.04.2020
Wiegand, Andreas	TORIGOSHI, Masaki	(54) SERIES HYBRID TYPE STRADDLED VEHICLE
(51) B62K 5/027	(31) 2019083236	(73) Yamaha Hatsudoki Kabushiki Kaisha
B62D 9/02	(32) 24.04.2019	(72) KANEKO, Kyohei
(11) EP3891057	(33) Japan	KITAMURA, Naoki
(21) EP19817432.8	(51) B62K 19/30	TAKEMOTO, Yasushi
(47) 01.11.2023	B62K 19/34	(31) 2019080268
(87) NL2019050783	B62M 6/55	(32) 19.04.2019
11.06.2020	B62M 3/00	(33) Japan
(22) 26.11.2019	(11) EP3878726	(51) B63B 1/28
(54) SELF-BALANCING TILTING VEHICLE WITH TILTING LOCK	(21) EP21161274.2	(11) EP3885246
(73) Carver B.V.	(47) 01.11.2023	(21) EP21164693.0
(72) VAN DEN BRINK, Christopher Ralph	(22) 08.03.2021	(47) 01.11.2023
(31) 2022122	(54) AUXILIARY POWER DEVICE FOR USE WITH A BICYCLE	(22) 24.03.2021
(32) 03.12.2018	(73) VIET HUA TRADING CO., LTD.	(54) METHOD FOR CONTROLLING THE POSITION OF A HYDROFOIL, HYDROFOIL AND APPARATUS FOR CONTROLLING THE POSITION OF SAID HYDROFOIL
(33) Netherlands	(72) CAI, Yi-Shan	(73) Inesse Corporation Ltd
(51) B62K 7/04	(31) 109108204	(72) NERI, Tiziano
B62M 6/60	(32) 12.03.2020	NISINI, Eugenio
(11) EP4095025	(33) Taiwan, Chinese Taipei	(31) 202000006181
(21) EP22185731.1	(51) B62K 25/28	(32) 24.03.2020
(47) 01.11.2023	(11) EP3902740	(33) Italy
(22) 10.01.2020	(21) EP19839157.5	(51) B63B 27/14
(54) CARGO BIKE	(47) 01.11.2023	(11) EP3684680
(73) RTI Sports GmbH	(87) IB2019061327	(21) EP18773995.8
(72) ARNOLD, Franc	02.07.2020	(47) 01.11.2023
GRAEVE, Arndt	(22) 24.12.2019	(87) EP2018075457
RASCHE, Johannes	(54) MOTORCYCLE WITH QUADRILATERAL REAR SUSPENSION	28.03.2019
(31) 202019103127 U	(73) Piaggio & C. SpA	(22) 20.09.2018
202019000233 U	(72) RAFFAELLI, Andrea	(54) SMART GANGWAY TIP
(32) 04.06.2019	(31) 201800021373	(73) Kongsberg Maritime AS
15.01.2019	(32) 28.12.2018	(72) HØSTMARK, Jon Bernhard
(33) Germany	(33) Italy	BAKKEHEIM, Jostein
Germany	(51) B62L 3/08	(31) 20171521
(51) B62K 11/00	B60T 7/12	(32) 22.09.2017
A63C 17/01	B60T 8/00	(33) Norway
A63C 17/04	B60T 8/26	(51) B63B 27/36
A63C 17/12	B60W 10/18	(11) EP3526111
(11) EP3868638	B62J 27/00	(21) EP17781109.8
(21) EP20196333.7	B60W 30/09	(47) 01.11.2023
(47) 01.11.2023	B60T 7/22	(87) EP2017075662
(22) 15.09.2020	B60T 8/17	19.04.2018
(54) SELF-BALANCING VEHICLE	B60T 8/32	(22) 09.10.2017
(73) Shenzhen Cloud Access Information Technical Service Co., Ltd	(11) EP3967587	(54) SHIP PROVIDED WITH AN INSTALLATION FOR LAUNCHING AND RECOVERING VEHICLES
(72) CHEN, Minyi	(21) EP20805620.0	(73) Chantiers de l'Atlantique
LI, Pingzhi	(47) 01.11.2023	(72) BEAUDET, Etienne
JIANG, Xihui	(87) JP2020018878	BENOIST, Adrien
CHEN, Yufeng	19.11.2020	
(31) 202021470088 U	(22) 11.05.2020	
(32) 23.07.2020	(54) LEANABLE VEHICLE EQUIPPED WITH RIDER ASSISTANCE CONTROL DEVICE FOR OBSTACLES	

(31) 1659785	(11) EP3956215	YUTKO, Brian M.
(32) 11.10.2016	(21) EP20780602.7	CHURCH, Clint
(33) France	(47) 01.11.2023	TIAN, Jian Long
(51) B63G 8/36	(87) EP2020076216	(31) 201816117305
F16K 1/00	01.04.2021	(32) 30.08.2018
(11) EP3793894	(22) 21.09.2020	(33) United States of America
(21) EP19723455.2	(54) AIRCRAFT ASSEMBLY	(51) B64C 25/44
(47) 01.11.2023	(73) Airbus Operations Limited	B60T 8/17
(87) EP2019062708	(72) MCMAHON, Andrew	(11) EP3392140
21.11.2019	RAFIQUE, Saif	(21) EP18168036.4
(22) 16.05.2019	(31) 201913900	(47) 01.11.2023
(54) FRESH-AIR SUPPLY SYSTEM FOR	(32) 26.09.2019	(22) 18.04.2018
A SUBMARINE AND SUBMARINE	(33) United Kingdom	(54) EMERGENCY PARK BRAKE SYSTEM
INCLUDING SUCH A SYSTEM	(51) B64C 1/14	(73) Goodrich Corporation
(73) Naval Group	(11) EP3978360	(72) CAHILL, Eric
(72) PAUMIER, Philippe	(21) EP21200263.8	STEIN, David B.
(31) 1800484	(47) 01.11.2023	BURTE, Paul R.
(32) 18.05.2018	(22) 30.09.2021	(31) 201715490563
(33) France	(54) WINDOW FRAME FOR A VEHICLE	(32) 18.04.2017
(51) B63H 1/26	AND METHOD FOR PRODUCING A	(33) United States of America
(11) EP4034458	WINDOW FRAME	(51) B64C 27/00
(21) EP20775610.7	(73) Premium AEROTEC GmbH	(11) EP3766779
(47) 01.11.2023	(72) Mauro, Pasquale	(21) EP19187420.5
(87) EP2020076088	(31) 102020125610	(47) 01.11.2023
01.04.2021	(32) 30.09.2020	(22) 19.07.2019
(22) 18.09.2020	(33) Germany	(54) ROTOR FOR A HOVER-CAPABLE
(54) PROPELLER FOR A MARINE VESSEL	(51) B64C 3/38	AIRCRAFT
(73) Volvo Penta Corporation	B64C 27/08	(73) LEONARDO S.p.A.
(72) JONSSON, Kåre	(11) EP3778380	(72) BOTTASSO, Luigi
HALLENSTVEDT, Oddbjörn	(21) EP18911427.5	FOSCO, Ermanno
(31) 1951067	(47) 01.11.2023	PISANI, Paolo
(32) 23.09.2019	(87) JP2018013317	VINCENZO, Francesco
(33) Sweden	03.10.2019	ROSA, Francesco
(51) B63H 9/061	(22) 29.03.2018	BRAGHIN, Francesco
(11) EP4065462	(54) AIRCRAFT	CAZZULANI, Gabriele
(21) EP20775877.2	(73) Narahara, Yutaka	CINQUEMANI, Simone
(47) 01.11.2023	(72) Narahara, Yutaka	(51) B64C 27/00
(87) EP2020077032	(51) B64C 9/22	(11) EP3988449
03.06.2021	B64C 9/02	(21) EP21210763.5
(22) 28.09.2020	F16C 23/06	(47) 01.11.2023
(54) PROPULSION WING OF A MOVING	(11) EP4048587	(22) 14.03.2017
VEHICLE AND MOVING VEHICLE	(21) EP20804335.6	(54) ROTOR HUB VIBRATION
COMPRISING SUCH A PROPULSION	(47) 01.11.2023	ATTENUATOR
WING	(87) IB2020059801	(73) Textron Innovations Inc.
(73) CWS MOREL	29.04.2021	(72) CHOI, Jouyoung, Jason
(72) DUCARNE, Julien	(22) 19.10.2020	HEVERLY, David
MOREL, Julien	(54) ADJUSTABLE ROLLER UNIT FOR	KIZHAKKEPAT, Amarjit Olenchery
(31) 1913358	MOVING A SLAT OF AN AIRCRAFT	PARHAM, Thomas
(32) 28.11.2019	WING	SEIFERT, Michael
(33) France	(73) Leonardo S.p.A.	SMITH, Michael
(51) B64B 1/22	(72) TRINCHILLO, Angelo	STAMPS, Frank Bradley
(11) EP3710353	(31) 201900019385	GAY, Frederick, S
(21) EP17825288.8	(32) 21.10.2019	(31) 201762456646 P
(47) 01.11.2023	(33) Italy	201615350073
(87) IB2017001549	(51) B64C 21/06	201662308012 P
16.05.2019	B64D 27/20	(32) 08.02.2017
(22) 13.11.2017	F02C 7/36	13.11.2016
(54) HYBRID AIRSHIP AND RELATED	F02K 3/062	14.03.2016
ASSEMBLY AND/OR MAINTENANCE	(11) EP3617061	(33) United States of America
METHOD	(21) EP19192181.6	United States of America
(73) TotalEnergies OneTech	(47) 01.11.2023	United States of America
Flying Whales	(22) 16.08.2019	(51) B64C 27/26
(72) KUHLMANN, Hervé	(54) MECHANICALLY-DISTRIBUTED	B64C 1/26
(51) B64C 1/12	PROPULSION DRIVETRAIN AND	B64C 7/00
B64C 3/26	ARCHITECTURE	B64C 23/00
F16B 5/02	(73) Aurora Flight Sciences Corporation	(11) EP3919377
F16B 5/04	(72) PAPAS, Gary Richard	(21) EP21173866.1
	TITCHENER, Neil	(47) 01.11.2023

(22) 14.05.2021	RENOLD, Nicolas	(54) EXTENDABLE SPLIT HEADREST
(54) COMPOUND HELICOPTER	TWYFORD, Evan	(73) Goodrich Corporation
(73) Subaru Corporation	(31) 201715730420	(72) DUCKERT, Robert E.
(72) KOBAYASHI, Wataru	(32) 11.10.2017	DAVIS, Kenneth J.
HAYASHI, Hirotaka	(33) United States of America	(31) 201816222395
NAKAMURA, Mizuki	(51) B64C 39/02	(32) 17.12.2018
SASAKI, Masafumi	G05D 1/00	(33) United States of America
(31) 2020095178	(11) EP3288828	(51) B64D 13/06
(32) 01.06.2020	(21) EP16719250.9	F02C 7/18
(33) Japan	(47) 01.11.2023	F02K 3/115
(51) B64C 27/26	(87) EP2016057938	(11) EP3608228
B64C 27/00	03.11.2016	(21) EP19176799.5
B64C 9/00	(22) 11.04.2016	(47) 01.11.2023
B64C 13/16	(54) UNMANNED AERIAL VEHICLE	(22) 27.05.2019
(11) EP3919378	SYSTEM AND METHOD FOR	(54) POWERED PRE-COOLER FAN
(21) EP21175975.8	CONTROLLING AN UNMANNED	ASSEMBLY
(47) 01.11.2023	AERIAL VEHICLE	(73) The Boeing Company
(22) 26.05.2021	(73) Sensefly S.A.	(72) Mackin, Steve G.
(54) VIBRATION CONTROL SYSTEM FOR	(72) BEYELER, Antoine	Sahay, Abhishek
COMPOUND HELICOPTER	ZUFFEREY, Jean-Christophe	(31) 201816039489
(73) Subaru Corporation	HALTER, Andrea	(32) 19.07.2018
Japan Aerospace Exploration Agency	KNÜSEL, Jérémie	(33) United States of America
(72) KOBAYASHI, Wataru	(31) 5712015	(51) B64D 27/24
HAYASHI, Hirotaka	(32) 27.04.2015	H02K 7/14
NAKAMURA, Mizuki	(33) Switzerland	H02K 21/14
SASAKI, Masafumi	(51) B64D 1/00	B64C 7/02
TANABE, Yasutada	B64D 1/02	B64C 11/00
KOBIKI, Noboru	B64D 1/16	H02K 7/18
SUGAWARA, Hideaki	B64D 1/18	(11) EP3939890
(31) 2020095179	A62C 3/02	(21) EP21195217.1
(32) 01.06.2020	A62C 35/02	(47) 01.11.2023
(33) Japan	A62C 37/00	(22) 11.12.2019
(51) B64C 39/02	G05D 7/06	(54) MOTOR DRIVEN PROPULSOR OF AN
B64D 47/08	(11) EP3820775	AIRCRAFT
B64U 10/13	(21) EP19833796.6	(73) General Electric Company
B64U 30/20	(47) 01.11.2023	(72) JOSHI, Narendra
B64U 50/19	(87) US2019039693	WEEBER, Konrad
B64U 101/30	16.01.2020	IDELCHIK, Michael
H04N 23/90	(22) 28.06.2019	(31) 201816229125
(11) EP3371050	(54) AERIAL FIREFIGHTING DUMP GATE	(32) 21.12.2018
(21) EP16801390.2	SYSTEM	(33) United States of America
(47) 01.11.2023	(73) Trotter, Victor D.	(51) B64D 33/02
(87) EP2016076307	(72) Trotter, Victor D.	F02C 7/045
11.05.2017	(31) 201816030147	(11) EP3959134
(22) 01.11.2016	(32) 09.07.2018	(21) EP20718354.2
(54) WINGLESS AIRCRAFT	(33) United States of America	(47) 01.11.2023
(73) Spherie GmbH	(51) B64D 11/02	(87) EP2020060989
(72) HESSELBARTH, Jonathan	(11) EP4001113	29.10.2020
CHIBAC, Nicolas	(21) EP21199682.2	(22) 20.04.2020
(31) 102015119065	(47) 01.11.2023	(54) NACELLE AIR INTAKE WITH
(32) 06.11.2015	(22) 29.09.2021	ACOUSTIC PANEL
(33) Germany	(54) DRY FLOOR HARDENED GRID	(73) Safran Nacelles
(51) B64C 39/02	(73) The Boeing Company	(72) CARUEL, Pierre
B64U 10/13	(72) CHILDRESS, Jamie	DESJOYEUX, Bertrand
(11) EP3960624	(31) 202063115124 P	LEROYER, Bertrand
(21) EP21195313.8	(32) 18.11.2020	VERSAEVEL, Marc
(47) 01.11.2023	(33) United States of America	VALLEROY, Laurent Georges
(22) 13.09.2018	(51) B64D 11/06	(31) 1904428
(54) MODULAR FUSELAGE FOR	B60N 2/806	(32) 26.04.2019
UNMANNED AERIAL VEHICLE	B60N 2/832	(33) France
(73) Wing Aviation LLC	A47C 7/38	(51) B64D 41/00
(72) WOODWORTH, Adam	B60N 2/885	H02J 3/28
RUDIN, Adem	B61D 33/00	H02J 7/34
BENSON, Stephen	B60N 2/22	F03D 9/32
SCHMALZRIED, James	(11) EP3670344	H02J 3/32
LISKE, Kyle	(21) EP19217019.9	(11) EP3513476
BLAKE, Jesse	(47) 01.11.2023	(21) EP17780800.3
PRAGER, André	(22) 17.12.2019	(47) 01.11.2023

(87) FR2017052415 22.03.2018	(54) LANDING APPARATUS FOR A REUSABLE LAUNCH VEHICLE	B29C 59/00 B29C 71/00
(22) 12.09.2017	(73) Korea Aerospace Research Institute	(11) EP4090594
(54) POWER SUPPLY METHOD AND POWER SUPPLY SYSTEM FOR AN ELECTRICAL LOAD WITHIN AN AIRCRAFT	(72) JUNG, Dong Ho (31) 20210111574 (32) 24.08.2021 (33) Korea (Republic)	(21) EP21700301.1 (47) 01.11.2023 (87) EP2021050480 22.07.2021
(73) Safran Safran Electrical & Power	(51) B64U 30/20	(22) 12.01.2021
(72) SALANNE, Jean-Philippe PETIBON, Stéphane ROUGIER, Florent DUQUERROIS, Antoine	B64U 50/14 B64C 11/00 B64C 29/00 B64C 39/02	(54) METHOD FOR THE PRODUCTION AND FILLING OF CONTAINERS DESIGNED TO CONTAIN FOOD
(31) 1658501	(11) EP3966107	(73) Sacmi Imola S.C.
(32) 13.09.2016	(21) EP20725131.5	(72) PARRINELLO, Fiorenzo
(33) France	(47) 01.11.2023	MINGANTI, Gianni
(51) B64F 5/10	(87) EP2020062558 14.01.2021	PUCCI, Fabrizio
B23K 37/04	(22) 06.05.2020	DI GIACOMO, Alberto
B23P 5/00	(54) VERTICAL TAKEOFF AND LANDING OBJECT	BALDUCCI, Eleonora
B23P 19/00	(73) VOLKSWAGEN	FIUMI, Valentina
B23P 21/00	AKTIENGESELLSCHAFT	(31) 202000000787
B23Q 7/00	(72) SAUER, Sebastian	(32) 17.01.2020
B23Q 35/18	KURZ, Carlo	(33) Italy
B25B 1/00	ZLATKOV, Branislav	(51) B65B 9/20
B25B 11/00	FRICKE, Martin	B65B 61/18
B25H 1/00	TAPPE, Oliver	(11) EP4037976
(11) EP4032815	SANCHA GARCIA, Luis Antonio	(21) EP20776188.3
(21) EP22152698.1	LÜDERS, Ralf	(47) 01.11.2023
(47) 01.11.2023	(31) 102019210007	(87) EP2020077172 08.04.2021
(22) 21.01.2022	(32) 08.07.2019	(22) 29.09.2020
(54) SYSTEM AND METHOD FOR POSITIONING A SUB-ASSEMBLY FOR INSTALLATION	(33) Germany	(54) VERTICAL-FLOW WRAPPER AND METHOD TO PRODUCE A BAG
(73) The Boeing Company	(51) B65B 5/06	(73) GEA Food Solutions Weert B.V.
(72) BONNEFOY, Pierig	B65B 5/10	(72) BAUMEISTER, Bruno Gerfried
(31) 202163141949 P	B65B 35/32	(31) 20159691
(32) 26.01.2021	B65B 35/40	19200515
(33) United States of America	(11) EP3798141	(32) 27.02.2020
(51) B64G 1/28	(21) EP20195423.7	30.09.2019
F16F 15/30	(47) 01.11.2023	(33) European Patent Office (EPO) European Patent Office (EPO)
F16F 15/315	(22) 10.09.2020	(51) B65B 11/20
(11) EP3730411	(54) ARTICLE TRANSFER DEVICE	B65B 25/00
(21) EP20169311.6	(73) ISHIDA CO., Ltd.	B65B 11/48
(47) 01.11.2023	(72) SUZUKI, Akihito	(11) EP3925897
(22) 14.04.2020	(31) 2019179382	(21) EP20382521.1
(54) A SUPPORT FRAME OF REACTION FLYWHEEL	(32) 30.09.2019	(47) 01.11.2023
(73) HUNAN LANYUE Mechanical and Electrical Technology Co., Ltd.	(33) Japan	(22) 16.06.2020
(72) DU, Jinbang	(51) B65B 9/02	(54) WRAPPING MACHINE FOR WRAPPING BLOCKS OF COMPRESSED FRESH YEAST AND LINE OF PRODUCTION
HOU, Jianjun	B65B 63/08	(73) Proconor, S.A.
WANG, Jianmin	(11) EP3858743	(72) MOYA PALOMINO, Francisco Javier
YANG, Xiaohui	(21) EP21153598.4	(51) B65B 19/22
(31) 201920546801 U	(47) 01.11.2023	B65D 75/58
201920546691 U	(22) 26.01.2021	B65D 85/10
201910322272	(54) UNIT FOR FILLING PACKAGES AND CORRESPONDING METHOD	B65B 19/20
(32) 22.04.2019	(73) Universal Pack S.R.L.	(11) EP3519303
22.04.2019	(72) Donati, Pietro	(21) EP17771334.4
22.04.2019	(31) 202000001891	(47) 01.11.2023
(33) China	202000001885	(87) EP2017001085
China	(32) 31.01.2020	05.04.2018
China	(33) Italy	(22) 13.09.2017
(51) B64G 1/62	(51) B65B 9/04	(54) CIGARETTE PACK, AND METHOD FOR PRODUCING SAME
B64G 1/00	B23K 26/364	(73) Focke & Co. (GmbH & Co. KG)
(11) EP4140898	B23K 26/359	(72) HÄFKER, Thomas
(21) EP22189537.8	B23K 26/16	SCHNEIDER, Christoph
(47) 01.11.2023	B65D 17/28	BUSE, Henry
(22) 09.08.2022	B65B 61/02	

(31) 102016118581	(51) B65D 1/02	(32) 09.10.2018
(32) 30.09.2016	B65D 1/40	21.09.2018
(33) Germany	B65D 25/20	(33) Germany
(51) B65B 25/06	B65D 79/00	Germany
B65B 47/00	B65D 81/20	(51) B65D 19/00
B25J 9/00	B65D 85/72	B65D 19/38
B25J 11/00	(11) EP3514075	B65G 67/04
G05B 19/418	(21) EP16916290.6	B65G 65/02
(11) EP3483077	(47) 01.11.2023	B65G 69/22
(21) EP18205088.0	(87) JP2016077560	B65G 67/24
(47) 01.11.2023	22.03.2018	B65G 67/20
(22) 08.11.2018	(22) 16.09.2016	(11) EP3416896
(54) METHOD FOR POSITIONING FOOD PRODUCTS	(54) RESIN-MADE BOTTLE	(21) EP17752733.0
(73) Weber Maschinenbau GmbH Breidenbach	(73) Suntory Holdings Limited	(47) 01.11.2023
(72) Nichau, Marco	(72) SATOU Wataru	(87) FI2017050098
(31) 102017126412	KOBAYASHI Toshiya	24.08.2017
(32) 10.11.2017	KIKUCHI Daisuke	(22) 16.02.2017
(33) Germany	(51) B65D 1/02	(54) TRANSFER EQUIPMENT AND LOAD TRANSFER APPLIANCE
(51) B65B 51/30	B65D 1/42	(73) Activ OY
(11) EP3456642	B65D 1/40	(72) VIINONEN, Reijo
(21) EP18193215.3	B65D 1/44	(31) 20165111
(47) 01.11.2023	B65D 79/00	(32) 16.02.2016
(22) 07.09.2018	(11) EP3560852	(33) Finland
(54) A TENSIONING DEVICE FOR A CHAIN DRIVEN JAW SYSTEM	(21) EP17886228.0	(51) B65D 19/32
(73) Tetra Laval Holdings & Finance S.A.	(47) 01.11.2023	B65D 19/18
(72) NILSSON, Fredrik	(87) JP2017046378	(11) EP3684701
NILSSON, Jonas	05.07.2018	(21) EP18737220.6
DARMELL, Mattias	(22) 25.12.2017	(47) 01.11.2023
LINDÉN, Staffan	(54) RESIN-MADE CONTAINER	(87) EP2018067665
(31) 17191306	(73) Suntory Holdings Limited	28.03.2019
(32) 15.09.2017	(72) KIRA Go	(22) 29.06.2018
(33) European Patent Office (EPO)	KOBAYASHI Toshiya	(54) PLASTIC PALLET AND LARGE LOAD CARRIER
(51) B65C 1/02	TSUMORI Kenji	(73) Schoeller Allibert GmbH
B65C 9/18	SAWADA Dai	(72) HUIZINGH, Jan Abraham
(11) EP3408183	(31) 2016251684	VINKE, Jan
(21) EP17744647.3	2016251683	(31) 102017121813
(47) 01.11.2023	(32) 26.12.2016	(32) 20.09.2017
(87) SE2017050055	26.12.2016	(33) Germany
03.08.2017	(33) Japan	(51) B65D 30/18
(22) 20.01.2017	Japan	B65D 30/16
(54) PROCEEDING AND ARRANGEMENT TO APPLY LABELS	(51) B65D 5/48	B65D 30/00
(73) Evolabel AB	B65D 5/50	B65D 30/08
(72) DIJKSTRA, Gerard	(11) EP4071068	(11) EP3862286
SÖDERGÅRD, Jonas	(21) EP22167372.6	(21) EP19868680.0
(31) 1650086	(47) 01.11.2023	(47) 01.11.2023
(32) 26.01.2016	(22) 08.04.2022	(87) JP2019038546
(33) Sweden	(54) BOX FOR CONTAINING BOTTLES	09.04.2020
(51) B65C 3/02	(73) CARTOTRENTINA SRL	(22) 30.09.2019
(11) EP3845467	(72) DOLZAN, Daniele	(54) SQUARE-BOTTOMED PACKAGING BAG, PACKAGING BODY, AND METHOD FOR MANUFACTURING SQUARE-BOTTOMED PACKAGING BAG
(21) EP20216924.9	(31) 202100008873	(73) Hosokawa Yoko Co., Ltd.
(47) 01.11.2023	(32) 09.04.2021	(72) KUGE, Raizo
(22) 23.12.2020	(33) Italy	UMENAKA, Kazuhiro
(54) WIRE GUIDE ASSEMBLY FOR A LABEL APPLICATOR	(51) B65D 5/66	OBARA, Sho
(73) Panduit Corp	B65D 85/10	(31) 2018186562
(72) Segroves, Roger D. Kevin L., Nelson	(11) EP3853136	(32) 01.10.2018
(31) 202017121957	(21) EP19773767.9	(33) Japan
201962955102 P	(47) 01.11.2023	(51) B65D 39/08
(32) 15.12.2020	(87) EP2019074950	B65D 47/06
30.12.2019	26.03.2020	B65D 47/40
(33) United States of America	(22) 18.09.2019	(11) EP3849915
United States of America	(54) PACKET FOR PRODUCTS OF THE CIGARETTE INDUSTRY	(21) EP19766203.4
	(73) Focke & Co. (GmbH & Co. KG)	(47) 01.11.2023
	(72) SCHNEIDER, Christoph	
	SCHLENKER, Michael	
	(31) 102018124894	
	102018007465	



(87) EP2019073574 19.03.2020	FREY, Daniel RÜCKERT, Andreas	(47) 01.11.2023 (87) GB2014053477 11.06.2015
(22) 04.09.2019	(51) B65D 47/08	(22) 25.11.2014
(54) PLASTIC CONTAINER COMPRISING A POURING ELEMENT	B65D 55/06 B65D 55/16	(54) CONTAINER CLOSURE
(73) ALPLA Werke Alwin Lehner GmbH & Co. KG	(11) EP4122838 (21) EP22183279.3	(73) Murray, Michael (72) Murray, Michael
(72) KÜNZ, Johann	(47) 01.11.2023	(31) 201321212
(31) 10882018	(22) 06.07.2022	(32) 02.12.2013
(32) 14.09.2018	(54) HINGED FLIP-TOP CAP WITH TAMPER-EVIDENT INNER RING	(33) United Kingdom
(33) Switzerland	(73) AFFABA & FERRARI S.r.l.	(51) B65D 55/16 B65D 41/34 B65D 51/16
(51) B65D 41/34 B65D 55/02	(72) FERRARI, Silvia FERRARI, Guglielmo	(11) EP4095064 (21) EP21717940.7
(11) EP3925902	(31) 202100019367	(47) 01.11.2023
(21) EP20756658.9	(32) 21.07.2021	(87) ES2021070051 29.07.2021
(47) 01.11.2023	(33) Italy	(22) 25.01.2021
(87) JP2020005069 20.08.2020	(51) B65D 47/20 B29C 45/00	(54) A CAPPING DEVICE INTENDED TO BE FIXED ON THE NECK OF A CONTAINER AND AN ASSEMBLY COMPRISING A CONTAINER AND SAID CAPPING DEVICE
(22) 10.02.2020	(11) EP3350091	(73) Betapack, S.A.U.
(54) SYNTHETIC RESIN CONTAINER LID	(21) EP16774633.8	(72) BERROA GARCÍA, Francisco, Javier
(73) Nippon Closures Co., Ltd.	(47) 01.11.2023	(31) 202030057 202030056
(72) OOMORI, Shinji SUGIYAMA, Takashi	(87) EP2016071736 23.03.2017	(32) 24.01.2020 24.01.2020
(31) 2019025644	(22) 14.09.2016	(33) Spain Spain
(32) 15.02.2019	(54) A DISPENSING CLOSURE	(51) B65D 73/00 B65D 25/36 B65D 65/40 B65D 77/20
(33) Japan	(73) Obrist Closures Switzerland GmbH	(11) EP3901052 (21) EP21167913.9
(51) B65D 43/02	(72) PUDERBACH, Dirk VERITE, Sylvain SCHAWO, Rainer	(47) 01.11.2023 (22) 12.04.2021
(11) EP3807161	(31) 201516188	(54) COVER SHEETS
(21) EP19746430.8	(32) 14.09.2015	(73) MEDI-Clear Ltd (72) HOGAN, Mark Paul WATT, Steven Brian
(47) 01.11.2023	(33) United Kingdom	(31) 202005706 (32) 20.04.2020
(87) DE2019100598 02.01.2020	(51) B65D 47/24 B65D 5/74 B65D 75/58 B65D 50/06	(33) United Kingdom
(22) 27.06.2019	(11) EP3214010	(51) B65D 75/58 B65D 85/10
(54) CONTAINER WITH A BISTABLE LID	(21) EP17158637.3	(11) EP4025520
(73) Kittmann, Roland	(47) 01.11.2023	(21) EP20785598.2
(72) Kittmann, Roland	(22) 01.03.2017	(47) 01.11.2023
(31) 202018103730 U	(54) SPOUT FOR A REFILL CONTAINER AND METHOD FOR MANUFACTURING A SPOUT	(87) IB2020058248 11.03.2021
(32) 29.06.2018	(73) Kao Germany GmbH	(22) 04.09.2020
(33) Germany	(72) Matsumoto, Shuhei Lamboy, Peter Römer, Frank Wommelsdorf, Jan	(54) A RIGID PACK FOR SMOKING ARTICLES PROVIDED WITH A HINGED LID
(51) B65D 47/06 B65D 47/28 A47G 19/22 B65D 47/26	(31) 16158128	(73) G.D SOCIETA' PER AZIONI
(11) EP3197794	(32) 01.03.2016	(72) POLLONI, Roberto TACCHI, Alver TENAGLIA, Marcello
(21) EP15844195.6	(33) European Patent Office (EPO)	(31) 201900015686
(47) 01.11.2023	(51) B65D 50/04 B65D 47/08	(32) 05.09.2019
(87) AU2015050567 31.03.2016	(11) EP3849916	(33) Italy
(22) 22.09.2015	(21) EP18933483.2	(51) B65D 83/38 B05B 9/04 B21D 22/28
(54) BOTTLE LID ASSEMBLY WITH RETRACTABLE SPOUT	(47) 01.11.2023	
(73) Puratap Pty Ltd	(87) US2018050845 19.03.2020	
(72) MEBBERSON, Nick	(22) 13.09.2018	
(31) 2014903796	(54) CLOSURE FOR A CONTAINER	
(32) 23.09.2014	(73) AptarGroup, Inc.	
(33) Australia	(72) JELICH, Nicholas	
(51) B65D 47/08 B29C 45/16 B65D 55/02	(51) B65D 51/10 B65D 17/28	
(11) EP4054947	(11) EP3077301	
(21) EP19801669.3	(21) EP14803227.9	
(47) 01.11.2023		
(87) EP2019025386 14.05.2021		
(22) 07.11.2019		
(54) CLOSURE DEVICE		
(73) Aptar Freyung GmbH		
(72) KÖNIGSEDER, Bruno		

B21D 51/26	(11) EP3487787	(21) EP20195539.0
B65D 1/02	(21) EP17734353.0	(47) 01.11.2023
(11) EP3733554	(47) 01.11.2023	(22) 10.09.2020
(21) EP18894886.3	(87) EP2017066670	(54) CONTAINER WITH A MOVABLE AND LOCKABLE HOLDING DEVICE
(47) 01.11.2023	25.01.2018	(73) P. Henkel GmbH
(87) JP2018013551	(22) 04.07.2017	(72) Henkel, Christoph
04.07.2019	(54) CAPSULE, METHOD FOR PRODUCING A PLURALITY OF CAPSULES AND BEVERAGE PREPARATION SYSTEM COMPRISING A CAPSULE	(51) B65G 1/04
(22) 30.03.2018	(73) Delica AG	(11) EP4031470
(54) AEROSOL CAN BODY HAVING CORRUGATED MACHINED PART ON TRUNK PART AND METHOD FOR MANUFACTURING AEROSOL CAN BODY	(72) AFFOLTER, Roland BRÖNNIMANN, Markus THILLA, Tim	(21) EP20792475.4
(73) Daiwa Can Company	(31) 16180147	(47) 01.11.2023
(72) NABETA, Chiharu	(32) 19.07.2016	(87) IB2020058624
OHNO, Hiroyuki	(33) European Patent Office (EPO)	25.03.2021
NOTO Shigeru	(51) B65D 88/14	(22) 16.09.2020
(31) 2017252945	B65D 90/02	(54) AUTOMATIC WAREHOUSE FOR STORING LOADING UNITS
(32) 28.12.2017	B65D 90/22	(73) E80 Group S.p.A.
(33) Japan	A62C 3/16	(72) PESCHINI, Enrico
(51) B65D 85/02	A62C 3/08	(31) 201900016433
G02B 6/00	(11) EP2853508	(32) 16.09.2019
G02B 6/36	(21) EP14183940.7	(33) Italy
G02B 6/44	(47) 01.11.2023	(51) B65G 1/04
B65H 49/32	(22) 08.09.2014	B62D 55/06
B65H 75/44	(54) Fire-retaining containers	A62C 27/00
H02G 11/02	(73) The Boeing Company	A62C 3/00
(11) EP3681822	(72) Hariram, Sham S.	(11) EP3802372
(21) EP18854626.1	(31) 201314021690	(21) EP19725710.8
(47) 01.11.2023	(32) 09.09.2013	(47) 01.11.2023
(87) US2018050536	(33) United States of America	(87) EP2019062949
14.03.2019	(51) B65D 90/02	12.12.2019
(22) 11.09.2018	B65D 90/22	(22) 20.05.2019
(54) REEL ENCLOSURE	B65D 88/14	(54) SERVICE VEHICLE FOR EXTINGUISHING FIRE ON AND WITHIN AN AUTOMATED STORAGE AND RETRIEVAL SYSTEM AND A METHOD THEREOF
(73) PPC Broadband, Inc.	A62C 3/16	(73) AUTOSTORE TECHNOLOGY AS
(72) DAOUST, Daniel	A62C 3/08	(72) AUSTRHEIM, Trond
CARAPPELLA, Peter, A.	(11) EP2848557	FJELDHEIM, Ivar
MONTENA, Noah, P.	(21) EP14183929.0	(31) 20190553
(31) 201862613047 P	(47) 01.11.2023	20180782
201762584647 P	(22) 08.09.2014	(32) 26.04.2019
201762557139 P	(54) CONTAINER FOR FIRE RETAINMENT	06.06.2018
(32) 02.01.2018	(73) The Boeing Company	(33) Norway
10.11.2017	(72) Hariram, Sham S.	Norway
11.09.2017	(31) 201314021542	(51) B65G 11/20
(33) United States of America	(32) 09.09.2013	(11) EP3303196
United States of America	(33) United States of America	(21) EP16723999.5
United States of America	(51) B65F 1/06	(47) 01.11.2023
(51) B65D 85/804	B65F 1/14	(87) EP2016060648
A47J 31/34	B65F 1/16	08.12.2016
A47J 31/36	(11) EP3878771	(22) 12.05.2016
(11) EP4031469	(21) EP19883069.7	(54) CONVEYOR CHUTE COMPRISING A WIDTH ADJUSTING MECHANISM
(21) EP20772131.7	(47) 01.11.2023	(73) Körber Supply Chain Logistics GmbH
(47) 01.11.2023	(87) KR2019015074	(72) BRAUN, Jürgen
(87) IB2020058443	14.05.2020	HOFMANN, Christoph
25.03.2021	(22) 07.11.2019	SCHITTHELM, Oliver
(22) 11.09.2020	(54) BIN COMPRISING SEALING MEANS FOR PREVENTING LEAKAGE OF ODOR	VITALINI, Michele
(54) IMPROVED CAPSULE FOR THE INFUSION OF DRINKS	(73) Janibell, Inc.	(31) 102015210344
(73) Petrini, Angelo	Chang, Kwang Ok	(32) 04.06.2015
Tosti, Antonio	(72) CHANG, Kwang Ok	(33) Germany
(72) Petrini, Angelo	(31) 20180136550	(51) B65G 21/20
Tosti, Antonio	(32) 08.11.2018	B07C 5/36
(31) 201900016610	(33) Korea (Republic)	B65G 47/14
(32) 18.09.2019	(51) B65F 1/14	B65G 21/22
(33) Italy	B65F 1/16	(11) EP3527509
(51) B65D 85/816	(11) EP3967628	(21) EP19167216.1
B65B 61/02		
B65B 7/28		

(47) 01.11.2023	(54) DENESTING ELEMENT FOR CLOSELY STACKED OBJECTS	B65H 75/18
(22) 17.06.2015		A47K 10/16
(54) TRANSPORT APPARATUS WITH VACUUM BELT	(73) JYSK Konstruktionsteknik A/S	A47K 10/32
(73) Ferrum Analytics and Sorting AG	(72) CHRISTENSEN, Flemming Aarslev	B31C 1/08
(72) DELL'ENDICE, Francesco	(31) 201500251	B31C 11/00
D'ALCINI, Paolo	(32) 23.04.2015	(11) EP4049954
(31) 9902014	(33) Denmark	(21) EP20957908.5
(32) 30.06.2014	(51) B65G 69/28	(47) 01.11.2023
(33) Switzerland	(11) EP3313761	(87) JP2020049087
(51) B65G 33/16	(21) EP16745547.6	07.07.2022
(11) EP4118015	(47) 01.11.2023	(22) 28.12.2020
(21) EP21711380.2	(87) SE2016000036	(54) CORELESS PAPER ROLL MANUFACTURING METHOD
(47) 01.11.2023	29.12.2016	(73) Corelex Shin-Ei Co., Ltd.
(87) IB2021052051	(22) 16.06.2016	(72) KUROSAKI Satoshi
16.09.2021	(54) SAFETY DEVICE FOR USE IN A DOCK LEVELLER, DOCK LEVELLER HAVING SUCH A SAFETY DEVICE, METHOD OF OPERATING A DOCK LEVELLER AND METHOD OF TESTING THE SAFETY DEVICE	(51) B65H 51/22
(22) 11.03.2021		D03D 47/36
(54) TRANSPORT DEVICE, TRANSPORT METHOD AND SYSTEM FOR RECLAIMING AGGREGATES	(73) ASSA ABLOY Entrance Systems AB	D04B 15/48
(73) Wamgroup S.p.A.	(72) VAN DE WIEL, Peter	(11) EP4105159
(72) MARCHESINI, Vainer	KIKKERT, Rob	(21) EP22172058.4
(31) 202000005155	(31) 1550870	(47) 01.11.2023
(32) 11.03.2020	(32) 24.06.2015	(22) 06.05.2022
(33) Italy	(33) Sweden	(54) THREAD DELIVERY DEVICE
(51) B65G 47/14	(51) B65H 5/02	(73) Memminger-IRO GmbH
B65G 47/256	B65H 5/22	(72) Schultheiß, Sven
B29C 49/42	B65H 29/16	(31) 102021115596
(11) EP3283414	B65H 29/24	(32) 16.06.2021
(21) EP16722281.9	B41J 11/00	(33) Germany
(47) 01.11.2023	B41J 29/17	(51) B66B 5/00
(87) FR2016050794	(11) EP4019442	(11) EP3696128
20.10.2016	(21) EP21217311.6	(21) EP20156048.9
(22) 07.04.2016	(47) 01.11.2023	(47) 01.11.2023
(54) DEVICE FOR ALIGNING AND RIGHTING PREFORMS, COMPRISING A BOWL CENTRIFUGE EQUIPPED WITH MEANS FOR EJECTING MISALIGNED PREFORMS	(22) 23.12.2021	(22) 07.02.2020
(73) Sidel Participations	(54) TRANSPORT DEVICE AND RECORDING DEVICE	(54) CONTROL PUSH-BUTTON PANEL WITH A BUILT-IN LIGHTING MEMBER FOR MAINTAINING AN ELEVATOR
(72) DOUDEMONT, Denis	(73) Seiko Epson Corporation	(73) Giovenzana International B.V.
DEBRIS, Anthony	(72) SATO, Koji	(72) GIOVENZANA, Massimo
WILLIG, Frédéric	HORIKAWA, Yoshihisa	(31) 201900002223
MAZO, Eric	(31) 2020216435	(32) 15.02.2019
(31) 1553374	(32) 25.12.2020	(33) Italy
(32) 16.04.2015	(33) Japan	(51) B66B 5/00
(33) France	(51) B65H 5/22	B66B 1/34
(51) B65G 47/30	B65H 29/24	B66B 3/00
B65G 47/31	A41H 43/02	B66B 5/02
(11) EP3971117	B26D 5/00	B66B 7/06
(21) EP21197366.4	B65H 29/32	B66B 7/10
(47) 01.11.2023	B65H 31/30	(11) EP3313764
(22) 17.09.2021	B65H 39/00	(21) EP16815166.0
(54) SYSTEMS, DEVICES, AND METHODS FOR EXTENDABLE CONVEYORS	(11) EP3429949	(47) 01.11.2023
(73) CALJAN A/S	(21) EP17706617.2	(87) US2016038635
(72) BEUCHERT, Karsten	(47) 01.11.2023	29.12.2016
PEDERSEN, Anders	(87) US2017016802	(22) 22.06.2016
(31) 20196646	21.09.2017	(54) TRACTION ELEVATOR ROPE MOVEMENT SENSOR SYSTEM
(32) 17.09.2020	(22) 07.02.2017	(73) TK Elevator Corporation
(33) European Patent Office (EPO)	(54) AUTOMATED FABRIC PICKING	(72) WELLS, Luther
(51) B65G 59/10	(73) Amazon Technologies Inc.	FARRAR, Dennis
(11) EP3286119	(72) AMINPOUR, Rouzbeh, Safavi	LAHMERS, Scott
(21) EP16731783.3	(31) 201615069849	HAMPTON, Phillip
(47) 01.11.2023	(32) 14.03.2016	(31) 201514748600
(87) DK2016000018	(33) United States of America	(32) 24.06.2015
27.10.2016	(51) B65H 19/22	(33) United States of America
(22) 22.04.2016	B65H 19/28	(51) B66B 5/00
	B65H 18/20	B66B 7/02
	B65H 18/04	B66B 19/00
	B65H 19/30	(11) EP4067282
		(21) EP21165797.8

(47) 01.11.2023	(73) ENABL A/S	(33) United States of America
(22) 30.03.2021	(72) KRISTENSEN, Claus Dahl	(51) B66C 13/12
(54) METHOD FOR INSTALLING AND/OR MAINTAINING AN ELEVATOR SYSTEM	(31) PA201970565	B66C 1/02
(73) INVENTIO AG	(32) 11.09.2019	(11) EP4061760
(72) LO JACONO, Romeo	(33) Denmark	(21) EP20824398.0
D'APICE, Alessandro	(51) B66C 1/34	(47) 01.11.2023
(51) B66B 5/04	B66D 3/06	(87) US2020061531
B66B 9/16	(11) EP3626671	27.05.2021
B66B 5/18	(21) EP19198060.6	(22) 20.11.2020
(11) EP3181503	(47) 01.11.2023	(54) REMOVABLY DETACHABLE, MODULAR POWER PACK FOR A VACUUM PAD LIFTER
(21) EP15200226.7	(22) 18.09.2019	(73) Vacuworx Global, LLC
(47) 01.11.2023	(54) BOTTOM BLOCK ASSEMBLY	(72) SOLOMON, William J.
(22) 15.12.2015	(73) Konecranes Global Corporation	GUEVARA, Luis
(54) ROPE CATCH MECHANISM, AND LIFT INSTALLATION WITH THE SAME	(72) Waisanen, Steven K.	SPARKS, II, Keith A.
(73) DualLift GmbH	(31) 201816136148	(31) 201962939044 P
(72) LÜLFING, Frank	(32) 19.09.2018	(32) 22.11.2019
(51) B66B 5/20	(33) United States of America	(33) United States of America
(11) EP4072987	(51) B66C 3/00	(51) B66C 23/68
(21) EP20812115.2	B66C 13/08	B66C 23/82
(47) 01.11.2023	E02F 3/36	(11) EP3650395
(87) EP2020084114	E02F 9/00	(21) EP18845664.4
17.06.2021	E02F 9/22	(47) 01.11.2023
(22) 11.12.2020	(11) EP3504145	(87) JP2018029271
(54) BRAKE DEVICE, FOR EXAMPLE WITH A WEDGE-SHAPED BRAKE ELEMENT, FOR BRAKING A TRAVELLING BODY THAT CAN BE MOVED IN A GUIDED MANNER ALONG A GUIDE RAIL IN A MOVEMENT DIRECTION	(21) EP17844039.2	21.02.2019
(73) INVENTIO AG	(47) 01.11.2023	(22) 03.08.2018
(72) GEISSHÜSLER, Michael	(87) SE2017050860	(54) RISING AND FALLING BODY OF WORK MACHINE AND METHOD FOR STORING RISING AND FALLING BODY OF WORK MACHINE
OSMANBASIC, Faruk	01.03.2018	(73) Kobelco Construction Machinery Co., Ltd.
STEINER, Adrian	(22) 28.08.2017	(72) KURIHARA, Shingo
STÄHLI, Julian	(54) ROTATOR ARRANGEMENT	(31) 2017158135
WIDMER, Heinz	(73) Indexator Rotator Systems AB	(32) 18.08.2017
ZAPF, Volker	(72) HARR, Joakim	(33) Japan
(31) 19215737	(31) 1651153	(51) B66D 1/22
(32) 12.12.2019	(32) 26.08.2016	B66D 1/58
(33) European Patent Office (EPO)	(33) Sweden	(11) EP3615469
(51) B66B 13/26	(51) B66C 9/16	(21) EP18718841.2
(11) EP3312127	B66C 6/00	(47) 01.11.2023
(21) EP17194206.3	B66C 9/04	(87) EP2018060501
(47) 01.11.2023	B66C 7/08	01.11.2018
(22) 29.09.2017	B66C 9/10	(22) 24.04.2018
(54) CABIN DOOR WITH A CIRCULAR OPENING WITH A PHOTOELECTRIC SAFETY BARRIER	B66C 17/00	(54) WINCH WITH SIMPLIFIED STRUCTURE
(73) Wittur Holding GmbH	(11) EP3781512	(73) Dana Brevini S.p.A.
(72) BONDAVALLI, Andrea	(21) EP19788899.3	(72) VIGHI, Alessandro
(31) 201600107053	(47) 01.11.2023	LAZZARETTI, Stefano
(32) 24.10.2016	(87) FI2019050298	MARIECH, Giovanni
(33) Italy	24.10.2019	(31) 201700046131
(51) B66C 1/10	(22) 12.04.2019	(32) 28.04.2017
B66C 13/08	(54) BRIDGE CRANE ARRANGEMENT	(33) Italy
(11) EP4028349	(73) Konecranes Global Corporation	(51) B66F 9/065
(21) EP20780916.1	(72) PEIPPO, Juha	B66F 9/075
(47) 01.11.2023	KALLIOKOSKI, Kirsi	B66F 9/22
(87) DK2020050247	(31) 20185373	(11) EP4041667
18.03.2021	(32) 20.04.2018	(21) EP20785798.8
(22) 10.09.2020	(33) Finland	(47) 01.11.2023
(54) A COMBINATION COMPRISING A CRANE AND A LOAD GUIDING ARRANGEMENT ARRANGED FOR MOUNTING TO THE CRANE AND USE OF A LOAD GUIDING ARRANGEMENT IN SUCH A COMBINATION	(51) B66C 13/02	(87) FR2020051560
	B66D 1/52	15.04.2021
	(11) EP3687935	(22) 10.09.2020
	(21) EP18859170.5	(54) LOAD-HANDLING VEHICLE PROVIDED WITH A HEAT ENGINE AND METHOD FOR CONTROLLING THE ROTATIONAL SPEED OF THE HEAT ENGINE OF SUCH A VEHICLE
	(47) 01.11.2023	
	(87) US2018052687	
	28.03.2019	
	(22) 25.09.2018	
	(54) HEAVE COMPENSATION SYSTEM	
	(73) WT Industries, LLC	
	(72) TRAIL, Douglas Patrick	
	(31) 201715714101	
	(32) 25.09.2017	

(73) MANITOU BF	(21) EP19727746.0	(31) 1033916
(72) BROCHARD, François	(47) 01.11.2023	(32) 31.05.2007
(31) 1911236	(87) IT2019050086	(33) Netherlands
(32) 10.10.2019	31.10.2019	
(33) France	(22) 29.04.2019	(51) B67D 7/02
(51) B67B 1/04	(54) CLOSING UNIT FOR A BEVERAGE	B67D 7/32
B67B 3/26	CONTAINER, BEVERAGE CONTAINER	B05C 11/10
(11) EP3825276	AND METHOD OF MAKING IT	F04B 9/125
(21) EP20208672.4	(73) Covi, Emanuela	F04B 15/02
(47) 01.11.2023	(72) Covi, Emanuela	F04B 23/02
(22) 19.11.2020	(31) 201900006272	B67D 7/64
(54) MACHINE FOR CORKING BOTTLES	201800004921	B29B 13/02
WITH CORKS OF DEFORMABLE	(32) 23.04.2019	F04B 43/06
MATERIAL	27.04.2018	(11) EP3844096
(73) Gruppo Bertolaso S.p.A.	(33) Italy	(21) EP19855737.3
(72) MAZZON, Giovanni	Italy	(47) 01.11.2023
STELLA, Gianluca	(51) B67D 1/06	(87) US2019047007
URBANI, Luca	B67D 1/08	05.03.2020
TESSARI, Gionatam	A47G 19/22	(22) 19.08.2019
(31) 201900021612	F16K 31/08	(54) FOLLOWER PLATE GEOMETRY
(32) 19.11.2019	B67D 1/12	(73) Integrated Dispense Solutions
(33) Italy	(11) EP3257758	(72) HRYCKOWIAN, Andy
(51) B67C 3/00	(21) EP17164823.1	RITCHIE, David
B67C 3/28	(47) 01.11.2023	(31) 201816113160
B67C 3/04	(22) 19.05.2009	(32) 27.08.2018
(11) EP4067294	(54) FLUID CONTAINER AND METHOD	(33) United States of America
(21) EP21166809.0	OF MANUFACTURING A DRINKING	(51) B81B 1/00
(47) 01.11.2023	CONTAINER	C12M 1/00
(22) 02.04.2021	(73) Grinon Industries	C12M 1/34
(54) FILLING MACHINE CONFIGURED TO	(72) Springer, Josh	G01N 37/00
FILL CONTAINERS WITH A POURABLE	(31) 154726 P	(11) EP3718958
PRODUCT AND METHOD	54686 P	(21) EP18883728.0
(73) Sidel Participations	(32) 23.02.2009	(47) 01.11.2023
(72) CORTESI, Andrea	20.05.2008	(87) JP2018042916
(51) B67C 3/28	(33) United States of America	06.06.2019
F16K 31/08	United States of America	(22) 21.11.2018
(11) EP4077203	(51) B67D 1/08	(54) MICRO-FLUID CHIP
(21) EP19832914.6	B67D 1/07	(73) Sekisui Chemical Co., Ltd.
(47) 01.11.2023	B67D 1/12	(72) IMAMURA, Kazuhiko
(87) EP2019086187	(11) EP3715315	INUJ, Nobuhiko
24.06.2021	(21) EP18880113.8	KOBARU, Shotaro
(22) 19.12.2019	(47) 01.11.2023	KOUNO, Takamasa
(54) FILLING DEVICE FOR FILLING	(87) JP2018042440	TAKAMATSU, Tatsunori
ARTICLES WITH A POURABLE	31.05.2019	ISHII, Ryoma
PRODUCT	(22) 16.11.2018	TAKAHASHI, Ryosuke
(73) Sidel Participations	(54) LIQUID SALE MANAGEMENT DEVICE	NAKAMURA, Tsutomu
(72) BANDINI, Filippo	(73) Asahi Breweries, Ltd.	(31) 2017229079
OLLARI, Michele	Asahi Group Holdings, Ltd.	(32) 29.11.2017
(51) B67D 1/04	(72) YAMASHITA, Naoyuki	(33) Japan
(11) EP3686153	KITANO, Junichi	(51) B81B 7/02
(21) EP20151503.8	WADA, Takashi	B81C 1/00
(47) 01.11.2023	KUSUNOKI, Kenji	G01J 5/08
(22) 13.01.2020	(31) 2017223949	G01J 5/02
(54) CONNECTING DEVICE FOR A	(32) 21.11.2017	(11) EP3228583
GAS BOTTLE AND METHOD FOR	(33) Japan	(21) EP15866031.6
CONNECTING A GAS BOTTLE	(51) B67D 1/08	(47) 01.11.2023
TO A CONNECTION LINE VIA A	B67D 1/12	(87) CN2015087594
CONNECTION DEVICE	B67D 1/07	09.06.2016
(73) Grohe AG	(11) EP3569566	(22) 20.08.2015
(72) BESCHE, Timo	(21) EP19183636.0	(54) METHOD FOR MANUFACTURING
RIEDEL, Björn	(47) 01.11.2023	MEMS DOUBLE-LAYER SUSPENSION
(31) 102019101995	(22) 02.06.2008	MICROSTRUCTURE, AND MEMS
(32) 28.01.2019	(54) TAPPING DEVICE, CONNECTING	INFRARED DETECTOR
(33) Germany	DEVICE FOR A BEVERAGE	(73) CSMC Technologies Fab2 Co., Ltd.
(51) B67D 1/04	CONTAINER AND COOLING DEVICE	(72) JING, Errong
B67D 1/08	FOR SUCH A CONNECTING DEVICE	(31) 201410723696
(11) EP3784589	(73) Heineken Supply Chain B.V.	(32) 02.12.2014
	(72) Segers, Roelof Anton	(33) China
		(51) C01B 3/00

C01B 3/22	(87) EP2020069268	Université Paris Cité
C02F 11/10	04.02.2021	(72) FAUSTINI, Marco
C12M 1/107	(22) 08.07.2020	BOISSIERE, Cédric
C25B 1/04	(54) REFORMER ARRANGEMENT FOR	PERON, Jennifer
C02F 11/04	PRODUCTION OF SYNTHESIS GAS	TARD, Cédric
C02F 11/121	AND/OR HYDROGEN	GIRAUD, Marion
C12M 1/00	(73) thyssenkrupp Uhde GmbH	JONES, Deborah
(11) EP4039636	thyssenkrupp AG	(31) 1755006
(21) EP22153312.8	(72) SIGGE, Sebastian	(32) 06.06.2017
(47) 01.11.2023	SCHOLZ, Marco	(33) France
(22) 25.01.2022	(31) 102019211133	(51) C02F 1/00
(54) METHOD FOR PRODUCING	(32) 26.07.2019	C02F 1/46
HYDROGEN	(33) Germany	C02F 1/469
(73) N-ERGIE Aktiengesellschaft	(51) C01B 39/46	C02F 3/00
(72) FLEISCHER, Patrick	B01J 29/72	G06F 15/00
(31) 102021102127	C01B 39/02	(11) EP3319910
(32) 29.01.2021	(11) EP3466879	(21) EP16821996.2
(33) Germany	(21) EP17810200.0	(47) 01.11.2023
(51) C01B 3/06	(47) 01.11.2023	(87) US2016041378
H01M 8/065	(87) JP2017020478	12.01.2017
H01M 8/04082	14.12.2017	(22) 07.07.2016
H01M 8/04089	(22) 01.06.2017	(54) MAINTENANCE SELF-DIAGNOSIS
H01M 8/04119	(54) CHABAZITE ZEOLITE WITH HIGH	AND GUIDE FOR A SELF-CONTAINED
H01M 8/04225	HYDROTHERMAL RESISTANCE AND	WASTEWATER TREATMENT SYSTEM
H01M 8/04291	METHOD FOR PRODUCING SAME	(73) California Institute of Technology
H01M 8/10	(73) JGC Catalysts and Chemicals Ltd.	(72) FINKE, Cody, E.
(11) EP3442902	(72) YAMAGUCHI, Yoko	CID, Clement, A.
(21) EP17777072.4	TSURUTA, Shunji	HOFFMANN, Michael, R.
(47) 01.11.2023	NAKASHIMA, Akira	HANAN, Anastasia, K.
(87) IB2017001036	(31) 2016205715	PINKSTON, Donald, Harvey
16.11.2017	2016113524	VANIER, Michael, Christopher
(22) 12.04.2017	(32) 20.10.2016	(31) 201562190173 P
(54) PEM FUEL CELL POWER SYSTEMS	07.06.2016	(32) 08.07.2015
WITH EFFICIENT HYDROGEN	(33) Japan	(33) United States of America
GENERATION	Japan	(51) C02F 1/32
(73) Intelligent Energy Ltd	(51) C01F 11/18	C02F 1/78
(72) STIMITS, Jason, L.	C01F 11/04	(11) EP3818012
BARTON, Russell	D21C 5/02	(21) EP19749835.5
KNIGHT, Douglas A.	D21H 17/67	(47) 01.11.2023
FRASER, Iain M.	(11) EP3201135	(87) NL2019050412
HUANG, Hao	(21) EP15781201.7	09.01.2020
WITHERS-KIRBY, Sandra H.	(47) 01.11.2023	(22) 04.07.2019
KLESZYK, Piotr Marcin	(87) US2015051998	(54) LIQUID TREATMENT SYSTEM
OSTADI, Hossein	07.04.2016	(73) Berson, Johannes Jacobus
ELLIOTT, Zachary	(22) 24.09.2015	(72) Berson, Johannes Jacobus
(31) 201662322505 P	(54) PROCESS FOR PREPARING A PCC	(31) 2021257
(32) 14.04.2016	COMPOSITE PRODUCT	(32) 05.07.2018
(33) United States of America	(73) Specialty Minerals (Michigan) Inc.	(33) Netherlands
(51) C01B 3/38	(72) SOHARA, Joseph Andrew	(51) C02F 1/76
(11) EP3838841	AARI, Ari	C01B 21/09
(21) EP19020711.8	(31) 201462057045 P	(11) EP3512814
(47) 01.11.2023	(32) 29.09.2014	(21) EP17784389.3
(22) 19.12.2019	(33) United States of America	(47) 01.11.2023
(54) PROCESS FOR START-UP OF AN	(51) C01G 55/00	(87) IB2017055570
AUTOTHERMAL REFORMER	(11) EP3634911	22.03.2018
(73) L'AIR LIQUIDE, SOCIÉTÉ ANONYME	(21) EP18737659.5	(22) 14.09.2017
POUR L'ÉTUDE ET L'EXPLOITATION	(47) 01.11.2023	(54) METHOD FOR THE
DES PROCÉDÉS GEORGES CLAUDE	(87) FR2018051302	CONTROLLED PRODUCTION OF
(72) Lim, Chin Han	13.12.2018	MONOCHLORAMINE FOR SANITIZING
Kopetsch, Hans	(22) 06.06.2018	FLUIDS
Gronemann, Veronika	(54) POROUS MATERIALS FORMED OF	(73) Acel S.p.A.
(51) C01B 3/38	IRIDIUM AND/OR IRIDIUM OXIDE	(72) GATTI, Marco
C01C 1/04	BASED MICROSPHERES, ITS	(31) 201600092675
C07C 29/151	PREPARATION PROCESS AND ITS	(32) 14.09.2016
C07C 273/04	USES	(33) Italy
(11) EP4003910	(73) Sorbonne Université	(51) C02F 9/00
(21) EP20739338.0	Centre National de la Recherche	C02F 1/24
(47) 01.11.2023	Scientifique	C02F 1/38

C02F 1/44	(47) 01.11.2023	(54) ADDITIVE MANUFACTURING PHASE
C02F 1/52	(87) EP201806662	SEPARATING COMPOSITIONS TO
C02F 3/28	25.04.2019	PREPARE GLASSES AND CERAMICS
C02F 11/121	(22) 21.06.2018	(73) ETH Zürich
C02F 101/10	(54) THIN GLASS SUBSTRATE, IN	(72) MOORE, David
C02F 101/16	PARTICULAR THIN BOROSILICATE	BARBERA, Lorenzo
C02F 101/38	GLASS SUBSTRATE, PROCESS AND	MASANIA, Kunal
C02F 103/20	APPARATUS FOR MANUFACTURING	STUDART, André
(11) EP3891104	SAME	(31) 18191209
(21) EP19821261.5	(73) SCHOTT AG	(32) 28.08.2018
(47) 01.11.2023	(72) VOGL, Armin	(33) European Patent Office (EPO)
(87) FI2019050861	SCHMIADY, Thomas	(51) C03C 3/068
11.06.2020	ZACHAU, Thilo	C03C 3/115
(22) 02.12.2019	MEISTER, Michael	C03C 8/04
(54) PROCESS AND APPARATUS FOR	ALKEMPER, Jochen	C03C 8/06
TREATING MANURE SLUDGE	KUNERT, Christian	C03C 8/16
(73) Valio Ltd	KLIPPE, Lutz	C03C 8/20
(72) PARTONEN, Antti-Pekka	DIETRICH, Rüdiger	(11) EP3699157
HEINO, Antti	(31) 102017124625	(21) EP20158683.1
KALLIOINEN, Harri	PCT/EP2017/083554	(47) 01.11.2023
HARJU, Matti	(32) 20.10.2017	(22) 21.02.2020
(31) 20186034	19.12.2017	(54) ENAMEL COMPOSITION, METHOD
(32) 03.12.2018	(33) Germany	FOR PREPARING ENAMEL
(33) Finland	World Intellectual Property Office (WIPO)	COMPOSITION, AND COOKING
(51) C03B 5/225	(51) C03B 23/00	APPLIANCE
C03C 1/00	C03B 23/02	(73) LG Electronics Inc.
C03B 5/20	C03B 23/03	(72) CHOI, Suyeon
C03B 5/235	B65G 49/06	KIM, Young Seok
(11) EP4038025	(11) EP3828147	(31) 20190021145
(21) EP20793850.7	(21) EP20171862.4	(32) 22.02.2019
(47) 01.11.2023	(47) 01.11.2023	(33) Korea (Republic)
(87) US2020053205	(22) 28.04.2020	(51) C03C 3/068
08.04.2021	(54) PROCESSING FIXTURE FOR	C03C 3/115
(22) 29.09.2020	PROCESSING A GLASS PLATE	C03C 8/04
(54) SELECTIVE CHEMICAL FINING OF	(73) Beijing Xiaomi Mobile Software Co., Ltd.	C03C 8/06
SMALL BUBBLES IN GLASS	(72) GAO, Jing	C03C 8/20
(73) Owens-Brockway Glass Container Inc.	ZHU, Xun	(11) EP3699156
(72) WEIL, Scott	(31) 201911204833	(21) EP20158670.8
WANG, Zhongming	(32) 29.11.2019	(47) 01.11.2023
SMITH, Roger, P.	(33) China	(22) 21.02.2020
(31) 201916590062	(51) C03B 33/09	(54) ENAMEL COMPOSITION, METHOD
(32) 01.10.2019	B23K 26/38	FOR PREPARING ENAMEL
(33) United States of America	B23K 26/55	COMPOSITION, AND COOKING
(51) C03B 5/225	C03C 17/32	APPLIANCE
C03C 1/00	C03C 21/00	(73) LG Electronics Inc.
C03B 5/235	C03C 17/00	(72) CHOI, Suyeon
C03C 3/076	C03C 17/30	KIM, Young Seok
C03C 1/10	C03B 33/02	(31) 20190021140
C03C 3/078	C03B 33/04	(32) 22.02.2019
C03C 4/02	C03B 33/07	(33) Korea (Republic)
(11) EP4038024	(11) EP3842391	(51) C03C 3/083
(21) EP20793849.9	(21) EP21156621.1	C03C 3/085
(47) 01.11.2023	(47) 01.11.2023	C03C 3/087
(87) US2020053202	(22) 02.08.2017	C03C 3/091
08.04.2021	(54) GLASS ARTICLE	C03C 3/093
(22) 29.09.2020	(73) AGC INC.	C03C 21/00
(54) FINING GLASS FROM A SUBMERGED	(72) ITO, Jun	(11) EP3919454
COMBUSTION MELTER	NAGASAWA, Ikuo	(21) EP21168413.9
(73) Owens-Brockway Glass Container Inc.	(31) 2016171296	(47) 01.11.2023
(72) WANG, Zhongming	(32) 01.09.2016	(22) 28.05.2013
IDDINGS, Ernest	(33) Japan	(54) ZIRCON COMPATIBLE, ION
SCHOENROCK, Nicholas, A.	(51) C03C 1/00	EXCHANGEABLE GLASS WITH HIGH
(31) 201916590076	(11) EP3844115	DAMAGE RESISTANCE
(32) 01.10.2019	(21) EP19758755.3	(73) Corning Incorporated
(33) United States of America	(47) 01.11.2023	(72) DEJNEKA, Matthew John
(51) C03B 18/02	(87) EP2019072992	ELLISON, Adam James
(11) EP3697732	05.03.2020	MAURO, John Christopher
(21) EP18732351.4	(22) 28.08.2019	(31) 201361748981 P

201261653489 P	(21) EP21163377.1	C03C 25/321
(32) 04.01.2013	(47) 01.11.2023	D04H 1/64
31.05.2012	(22) 18.03.2021	D04H 1/587
(33) United States of America	(54) COATING MATERIAL FOR GLASS	D04H 1/4218
United States of America	SUBSTRATES, GLASS SUBSTRATE	(11) EP3831791
(51) C03C 3/091	COATED WITH THE COATING	(21) EP20210912.0
A61K 8/19	MATERIAL AND METHOD FOR	(47) 01.11.2023
A61K 8/25	PRODUCING THE SAME	(22) 01.12.2020
A61Q 1/12	(73) Fraunhofer-Gesellschaft zur Förderung	(54) METHOD FOR IMPROVING THE
C03C 12/00	der angewandten Forschung e.V.	ACOUSTIC PERFORMANCE OF AN
C03C 13/00	(72) Rose, Klaus	INSULATING PRODUCT MADE OF
C03C 17/10	Deichman, Karl	MINERAL FIBRES AND PRODUCT
C03C 17/25	(31) 102020203552	(73) SAINT-GOBAIN ISOVER
C03C 17/36	(32) 19.03.2020	(72) LEGRAND, Aurélie
C09D 7/40	(33) Germany	SALOMON, Pierre
C09D 11/00	(51) C03C 17/36	JACQUS, Gary
C09D 201/00	(11) EP2231540	LEROY, Pierre
C03C 3/087	(21) EP08852236.2	(31) 1913763
C03C 3/093	(47) 01.11.2023	(32) 04.12.2019
C03C 17/06	(87) US2008013033	(33) France
C03C 17/23	28.05.2009	(51) C03C 27/06
C03C 25/42	(22) 21.11.2008	E06B 3/663
C03C 25/46	(54) LOW EMISSIVITY COATING WITH LOW	(11) EP3521255
(11) EP3539934	SOLAR HEAT GAIN COEFFICIENT,	(21) EP17856022.3
(21) EP17870365.8	ENHANCED CHEMICAL AND	(47) 01.11.2023
(47) 01.11.2023	MECHANICAL PROPERTIES	(87) JP2017034450
(87) JP2017040459	(73) Cardinal CG Company	05.04.2018
17.05.2018	(72) MASCHWITZ, Peter	(22) 25.09.2017
(22) 09.11.2017	GRUBB, Keith	(54) METHOD FOR PRODUCING
(54) GLASS FILLER AND METHOD FOR	COSTER, Dominique	INSULATING GLASS UNIT AND
PRODUCING THE SAME	DECROUPET, Daniel	METHOD FOR PRODUCING GLASS
(73) Nippon Sheet Glass Company, Limited	(31) 944564	WINDOW
(72) FUJIWARA Kosuke	(32) 23.11.2007	(73) Panasonic Intellectual Property
(31) 2016219907	(33) United States of America	Management Co., Ltd.
(32) 10.11.2016	(51) C03C 17/42	(72) HASEGAWA, Kazuya
(33) Japan	B32B 9/00	ABE, Hiroyuki
(51) C03C 10/00	B05D 7/24	ISHIBASHI, Tasuku
C03C 17/42	B05D 5/08	NONAKA, Masataka
C03C 21/00	G06F 1/16	URIU, Eiichi
(11) EP3774679	G06F 3/041	(31) 2016194689
(21) EP19781955.0	B32B 17/10	(32) 30.09.2016
(47) 01.11.2023	(11) EP3643495	(33) Japan
(87) US2019026130	(21) EP18819594.5	(51) C04B 28/00
10.10.2019	(47) 01.11.2023	C04B 35/043
(22) 05.04.2019	(87) JP2018023150	C04B 35/10
(54) MULTIPURPOSE SOLUTION	27.12.2018	C04B 35/63
FOR STRENGTHENING AND	(22) 18.06.2018	C04B 35/634
SURFACE MODIFICATION OF GLASS	(54) ARTICLE HAVING WATER- AND	C04B 35/66
SUBSTRATES	OIL-REPELLENT LAYER FORMED	(11) EP3050858
(73) CB Nanoshield, LLC	THEREON, AND METHOD FOR	(21) EP14795844.1
(72) KOEP, Erik, K.	MANUFACTURING SAME	(47) 01.11.2023
ROTHENBERGER, Jason, M.	(73) AGC Inc.	(87) ES2014070715
FERNANDEZ-POSADA, Carmen, M.	(72) ZHOU, Lilin	30.04.2015
PUGLIESE, Vince	SUWA, Kumiko	(22) 22.09.2014
BARRON, Andrew, R.	ISHIZEKI, Kenji	(54) A METHOD FOR LINING
RICH, Bruce, E.	HIRAKOSO, Hideyuki	METALLURGICAL VESSELS USING
(31) 201862653658 P	KOBAYASHI, Daisuke	SELF HARDENING REFRACTORY
(32) 06.04.2018	SUEHARA, Michinori	MATERIAL
(33) United States of America	TOKUNAGA, Mio	(73) Magnesitas Navarras S.A.
(51) C03C 17/00	(31) 2018004491	(72) AMEZQUETA LIZARRAGA,
C03C 17/30	2017121642	Presentación
C03C 17/32	(32) 15.01.2018	ARANDIGOYEN VIDAURRE, Mikel
C09D 151/08	21.06.2017	FERNÁNDEZ SUÁREZ, Jesús
C09D 163/00	(33) Japan	GANGUTIA PEPÍN, Nicolás
C09D 183/04	Japan	GARCÍA ZUBIRI, Íñigo Xabier
C09D 183/08	(51) C03C 25/26	(31) 201331379
C09D 183/14	C03C 25/27	(32) 23.09.2013
(11) EP3882224	C03C 25/285	(33) Spain



(51) C04B 28/06	11.04.2019	(54) IRON-CATALYZED TRANSFER
(11) EP4175927	(22) 25.09.2018	HYDROGENATION OF ESTERS TO
(21) EP21736339.9	(54) METHOD FOR RECOVERING	ALCOHOLS
(47) 01.11.2023	VALUABLE SUBSTANCES	(73) Eastman Chemical Company
(87) EP2021068536	(73) DENKGRÜN Energie und Ressourcen	(72) CHAKRABORTY, Sumit
13.01.2022	GmbH	SESHADRI, Vikram
(22) 05.07.2021	(72) Schelch, Michael	ADAMS, Steven, J.
(54) DRY MORTAR COMPOSITION,	Staber, Wolfgang	HEMBRE, Robert, Thomas
TILING GROUT MADE THEREOF AND	(31) 508422017	BARNICKI, Scott, Donald
METHOD FOR GROUTING TILES	(32) 03.10.2017	(31) 201816043317
(73) Saint-Gobain Weber France	(33) Austria	201762540344 P
(72) PEREIRA FERNANDES, Vera	(51) C05G 3/90	(32) 24.07.2018
SEQUEIRA, Pedro	(11) EP3826982	02.08.2017
CARDOSO DA SILVA, Luis	(21) EP19742039.1	(33) United States of America
LEIVA MUNOZ, Raúl	(47) 01.11.2023	United States of America
MARTY-BOUCHAR, Marie	(87) EP2019069476	
(31) 20315339	30.01.2020	(51) C07C 29/151
(32) 06.07.2020	(22) 19.07.2019	C25B 1/04
(33) European Patent Office (EPO)	(54) USE OF A SUBSTITUTED	C07C 31/04
(51) C04B 35/547	THIAZOLIDINE COMPOUND AS	(11) EP3853196
C01B 17/20	NITRIFICATION INHIBITOR	(21) EP19779176.7
C01G 9/08	(73) BASF SE	(47) 01.11.2023
C04B 35/645	(72) NESVADBA, Peter	(87) IB2019057842
(11) EP2966051	CUNNINGHAM, Allan F	26.03.2020
(21) EP14176610.5	WALLQUIST, Olof	(22) 18.09.2019
(47) 01.11.2023	NAVE, Barbara	(54) PROCESS FOR THE PRODUCTION
(22) 10.07.2014	WISSEMEIER, Alexander	OF METHANOL FROM GASEOUS
(54) Method of manufacturing a sulfide-	(31) 18185048	HYDROCARBONS
based ceramic element for IR-optics	(32) 23.07.2018	(73) ENI S.p.A.
applications	(33) European Patent Office (EPO)	(72) BASINI, Luca Eugenio Riccardo
(73) Centre National de la Recherche	(51) C07C 7/09	BUSTO, Chiara
Scientifique	C07C 9/14	VILLANI, Michele
Université de Rennes	C07C 9/15	(31) 201800008721
(72) HAKMEH, Noha	C10G 1/00	(32) 19.09.2018
MERDRIGNAC-CONAMEC, Odile	C10G 3/00	(33) Italy
ZHANG, Xiang-Hua	C10G 11/10	(51) C07C 37/52
(51) C05C 5/00	C10G 49/02	C08G 64/30
C05C 5/04	C10G 49/04	(11) EP3679082
C05D 9/02	(11) EP3455197	(21) EP18778566.2
C05G 3/00	(21) EP17796788.2	(47) 01.11.2023
C05G 5/30	(47) 01.11.2023	(87) IB2018056749
(11) EP3927675	(87) US2017032009	14.03.2019
(21) EP20705981.7	16.11.2017	(22) 04.09.2018
(47) 01.11.2023	(22) 10.05.2017	(54) A METHOD OF RECOVERING
(87) EP2020054609	(54) BIORENEWABLE KEROSENE, JET	PHENOL IN A MELT POLYCARBONATE
27.08.2020	FUEL, JET FUEL BLENDSTOCK, AND	POLYMERIZATION
(22) 21.02.2020	METHOD OF MANUFACTURING	(73) SABIC Global Technologies B.V.
(54) PARTICULATE COMPOSITION	(73) REG Synthetic Fuels, LLC	(72) IMAM, Rayees Ahamed
COMPRISING CALCIUM NITRATE AND	(72) ABHARI, Ramin	GUNALE, Tukaram
MOLYBDENUM AND METHOD FOR	SLADE, David A.	ANAPAT, Samir
THE MANUFACTURE THEREOF	TOMLINSON, H. Lynn	MATEOS SALVADOR, Fernan
(73) Yara International ASA	ASHBY, Erik	(31) 17382596
(72) FROGNER, Tore	GREEN, Nate	(32) 06.09.2017
KIRKEBØEN NÆSS, Mari	GOLDEN, Caroline	(33) European Patent Office (EPO)
MYRSTAD, Amund	(31) 201662334968 P	(51) C07C 41/01
(31) 19158892	(32) 11.05.2016	C07C 43/15
(32) 22.02.2019	(33) United States of America	C07C 41/20
(33) European Patent Office (EPO)	(51) C07C 29/147	C07C 43/04
(51) C05F 1/00	C07C 31/27	(11) EP3883913
C05F 3/00	B01J 31/18	(21) EP19805369.6
C05F 5/00	B01J 31/20	(47) 01.11.2023
C05F 7/00	(11) EP3661900	(87) GB2019053127
C05F 9/04	(21) EP18755626.1	28.05.2020
C02F 11/00	(47) 01.11.2023	(22) 05.11.2019
(11) EP3692012	(87) US2018044521	(54) PROCESS FOR MAKING ETHERS VIA
(21) EP18781999.0	07.02.2019	ENOL ETHERS
(47) 01.11.2023	(22) 31.07.2018	(73) BP P.L.C.
(87) EP2018076020		(72) DEELEY, Jon
		ARMITAGE, Gareth

JACKSON, Fiona	(73) Evonik Operations GmbH	C07C 67/29
PRICE, Gregory	(72) Haßelberg, Jennifer	C07C 67/31
(31) 201818905	Franke, Robert	C07C 69/78
(32) 20.11.2018	Stenger, Frank	C07C 69/736
(33) United Kingdom	Kreis, Peter	C07C 37/20
(51) C07C 43/178	Hecht, Corinna	C07C 39/373
C08F 20/26	Kristen, Marc Oliver	C07C 41/26
C08F 16/32	(31) 18198789	C07C 43/23
C07C 69/54	(32) 05.10.2018	(11) EP3181545
B01D 53/14	(33) European Patent Office (EPO)	(21) EP15842755.9
B01D 53/02	(51) C07C 47/228	(47) 01.11.2023
B01J 20/22	C07C 45/74	(87) JP2015076165
C07C 43/15	C07C 47/232	24.03.2016
C07C 43/16	C07C 45/62	(22) 15.09.2015
C07C 43/215	C07C 47/542	(54) PROCESS FOR THE PREPARATION
C09D 4/00	C11B 9/00	OF OSPEMIFENE
C08F 222/10	(11) EP4046985	(73) Shionogi & Co., Ltd.
(11) EP3718996	(21) EP20875724.5	(72) OKAMOTO, Kazuya
(21) EP18882481.7	(47) 01.11.2023	UENO, Tatsuhiko
(47) 01.11.2023	(87) JP2020039006	TOYOTA, Takashi
(87) JP2018043061	22.04.2021	SATOU, Yuusuke
06.06.2019	(22) 16.10.2020	(31) 2014187228
(22) 21.11.2018	(54) ALDEHYDE COMPOUND AND	(32) 16.09.2014
(54) COMPOUND CONTAINING	METHOD FOR PRODUCING SAME,	(33) Japan
UNSATURATED DOUBLE BOND,	AND FRAGRANCE COMPOSITION	(51) C07C 201/02
OXYGEN ABSORBER COMPRISING	(73) MITSUBISHI GAS CHEMICAL	C07C 201/12
SAME, AND RESIN COMPOSITION	COMPANY, INC.	C07C 205/06
(73) Kuraray Co., Ltd.	(72) SHISHIMI, Toru	C07C 205/45
(72) NOGUCHI, Daiki	MATSUURA, Yutaka	C07C 45/64
FUKUMOTO, Takashi	NAGAO, Shinichi	(11) EP4103540
UJITA, Katsuji	(31) 2019190252	(21) EP21703224.2
KUBO, Keiji	(32) 17.10.2019	(47) 01.11.2023
(31) 2017231077	(33) Japan	(87) EP2021052394
(32) 30.11.2017	(51) C07C 51/12	19.08.2021
(33) Japan	C07C 53/08	(22) 02.02.2021
(51) C07C 45/49	(11) EP3609863	(54) PROCESS FOR THE
C07C 47/542	(21) EP18720921.8	PREPARATION OF 1-[4-NITRO-2-
C07B 61/00	(47) 01.11.2023	(TRIFLUOROMETHYL)PHENYL]-
(11) EP4019490	(87) US2018026887	ALKANONES
(21) EP20856968.1	18.10.2018	(73) BASF Agro B.V.
(47) 01.11.2023	(22) 10.04.2018	(72) FRASSETTO, Timo
(87) JP2020028667	(54) PREPARATION OF ACETIC ACID	VOGT, Florian
04.03.2021	(73) LyondellBasell Acetyls, LLC	ALZNAUER, Christiane
(22) 27.07.2020	(72) HALLINAN, Noel, C.	ILLIES, Sebastian
(54) METHOD FOR PRODUCING M-	RAMAGE, David, L.	MUELHEIMS, Philip
DIALKYL BENZALDEHYDE	HEAPS, David, A.	YERANDE, Swapnil
(73) MITSUBISHI GAS CHEMICAL	(31) 201715483681	SAELINGER, Daniel
COMPANY, INC.	(32) 10.04.2017	THIELE, Robin
(72) SHISHIMI, Toru	(33) United States of America	SUTORIS, Heinz, Friedrich
UTAMURA, Tatsuya	(51) C07C 51/367	HOFRICHTER, Marcel
MATSUURA, Yutaka	C07C 59/245	(31) 20157207
KUMANO, Tatsuyuki	C07C 51/087	(32) 13.02.2020
(31) 2019153127	C07C 57/145	(33) European Patent Office (EPO)
(32) 23.08.2019	(11) EP4007749	(51) C07C 259/10
(33) Japan	(21) EP20872285.0	C07D 213/81
(51) C07C 45/50	(47) 01.11.2023	C07D 309/14
C07C 47/02	(87) IN2020050848	A61K 31/44
B01J 31/02	08.04.2021	A61K 31/165
B01J 31/18	(22) 02.10.2020	A61P 35/00
B01J 37/02	(54) PRODUCTION OF MALIC ACID USING	A61P 25/28
(11) EP3736258	TUBULAR AND STIRRED TANK	A61P 25/16
(21) EP19200445.5	REACTORS	A61P 25/14
(47) 01.11.2023	(73) Thirumalai Chemicals Limited	(11) EP3538084
(22) 30.09.2019	(72) RANGASWAMY, Parthasarathy	(21) EP17869626.6
(54) PROCESS FOR HYDROFORMYLATION	(31) 201921040419	(47) 01.11.2023
OF SHORT-CHAIN OLEFINS IN	(32) 04.10.2019	(87) US2017060885
ALKANE-RICH EXHAUST GAS	(33) India	17.05.2018
STREAMS	(51) C07C 67/14	(22) 09.11.2017

- (54) PHENYL AND PYRIDINYL HYDROXAMIC ACIDS  
(73) Acetylon Pharmaceuticals, Inc.  
(72) VAN DUZER, John H. MAZITSCHKEK, Ralph  
(31) 201662420291 P  
(32) 10.11.2016  
(33) United States of America
- 
- (51) C07C 273/18  
C07C 275/26  
C07C 275/28  
(11) EP4148040  
(21) EP21195870.7  
(47) 01.11.2023  
(22) 10.09.2021  
(54) ONE POT SYNTHESIS OF UREA (METH)ACRYLATES  
(73) Evonik Operations GmbH  
(72) BESTGEN, Sebastian BEYER, Silvia
- 
- (51) C07C 275/26  
C07C 275/28  
C08F 20/36  
C09D 133/14  
(11) EP4148041  
(21) EP21195869.9  
(47) 01.11.2023  
(22) 10.09.2021  
(54) SPACERED UREA (METH)ACRYLATES  
(73) Evonik Operations GmbH  
(72) BESTGEN, Sebastian SCHÜTZ, Thorben BEYER, Silvia GLOCK, Martin GORDOS, William
- 
- (51) C07C 275/60  
A61K 31/27  
A61P 25/00  
A61K 45/06  
A61K 9/00  
(11) EP3587394  
(21) EP19188405.5  
(47) 01.11.2023  
(22) 27.02.2015  
(54) AMINOCARBONYLCARBAMATE COMPOUNDS AND THEIR USE IN THE TREATMENT OF HYPERKINETIC DISORDERS SUCH AS ADHD  
(73) SK Biopharmaceuticals Co., Ltd.  
(72) KANG, Young Soon CHUNG, Jin Yong MAENG, Cheol Young YI, Han Ju LEE, Ki Ho HEO, Joon CHAE, Eun Hee SHIN, Yu Jin  
(31) 201461946142 P  
(32) 28.02.2014  
(33) United States of America
- 
- (51) C07C 291/02  
C07C 291/06  
C08F 8/30  
C08K 5/32  
C08L 9/00  
B60C 1/00  
C08C 19/22  
C08K 3/36
- (11) EP3145909  
(21) EP15725548.0  
(47) 01.11.2023  
(87) EP2015060926  
26.11.2015  
(22) 19.05.2015  
(54) 1,3-DIPOLAR COMPOUND COMPRISING AN ESTER FUNCTION OF CARBOXYLIC ACID AND RUBBER COMPOSITION CONTAINING SAME  
(73) Compagnie Générale des Etablissements Michelin  
(72) IVANOV, Sergey Nicolaevich SALIT, Anne-Frédérique  
(31) 1454655  
(32) 23.05.2014  
(33) France
- 
- (51) C07C 311/19  
A61K 31/18  
C07D 213/40  
C07D 213/75  
C07D 295/13  
C07D 295/192  
A61K 31/40  
A61K 31/44  
A61K 31/4402  
A61K 31/495  
A61K 31/5375  
A61K 45/06  
A61P 29/00  
(11) EP3672938  
(21) EP18847873.9  
(47) 01.11.2023  
(87) US2018022029  
28.02.2019  
(22) 12.03.2018  
(54) COMPOUNDS FOR AMELIORATING PAIN  
(73) The Board of Supervisors of Louisiana State University and Agricultural and Mechanical College University of Alcalá de Henares  
(72) BAZAN, Nicolas BAZAN, Hernan ALVAREZ-BUILLA, Julio PAUL, Dennis BURGOS, Carolina  
(31) 201762550137 P  
(32) 25.08.2017  
(33) United States of America
- 
- (51) C07C 319/20  
C01F 11/24  
A23K 20/10  
C07C 229/76  
C07C 323/58  
(11) EP3653633  
(21) EP18832072.5  
(47) 01.11.2023  
(87) KR2018007691  
17.01.2019  
(22) 06.07.2018  
(54) METHIONINE-METAL CHELATE AND PRODUCTION METHOD THEREOF  
(73) CJ Cheiljedang Corporation  
(72) KIM, Jun-Woo KANG, Min Kyu KIM, Gyeonghwan KIM, Il Chul
- PARK, Juun  
SEO, Yong Bum  
LEE, In Sung  
JUNG, Jun Young  
HONG, Je-won  
(31) 20170089641  
(32) 14.07.2017  
(33) Korea (Republic)
- 
- (51) C07C 319/20  
C07C 323/59  
C07C 323/25  
(11) EP4143160  
(21) EP21717900.1  
(47) 01.11.2023  
(87) EP2021059650  
04.11.2021  
(22) 14.04.2021  
(54) PROCESS OF MAKING N,N'-DIACETYL-L-CYSTINE  
(73) Unilever IP Holdings B.V.  
(72) ROSA, Jose Guillermo HARICHIAN, Bijan  
(31) 20171854  
(32) 28.04.2020  
(33) European Patent Office (EPO)
- 
- (51) C07C 319/22  
C07C 319/28  
C07C 323/59  
(11) EP4143161  
(21) EP21717902.7  
(47) 01.11.2023  
(87) EP2021059652  
04.11.2021  
(22) 14.04.2021  
(54) PROCESS OF MAKING N,N-DIACETYL-L-CYSTINE DISODIUM SALT FROM CYSTINE AND ACETYL CHLORIDE IN METHANOL IN THE PRESENCE OF SODIUM HYDROXIDE  
(73) Unilever IP Holdings B.V.  
(72) ROSA, Jose, Guillermo HARICHIAN, Bijan  
(31) 20171852  
(32) 28.04.2020  
(33) European Patent Office (EPO)
- 
- (51) C07D 207/12  
A61P 35/00  
A61K 31/40  
(11) EP4073036  
(21) EP20820144.2  
(47) 01.11.2023  
(87) EP2020085011  
17.06.2021  
(22) 08.12.2020  
(54) CRYSTALLINE FORM OF A 7H-BENZO[7]ANNULENE-2-CARBOXYLIC ACID DERIVATIVE  
(73) SANOFI  
(72) BILLOT, Pascal ROBERT, Benoît  
(31) 19306599  
(32) 09.12.2019  
(33) European Patent Office (EPO)
- 
- (51) C07D 213/56  
C07D 213/81  
A61K 31/16  
A61K 31/335  
A61K 31/336

C07D 303/02	201910903214	C07D 239/48
C07D 303/04	(32) 24.09.2019	C07D 401/14
A61P 35/00	24.09.2019	A61K 31/506
(11) EP3709986	24.09.2019	A61K 31/18
(21) EP18879399.6	24.09.2019	A23L 33/10
(47) 01.11.2023	(33) China	A61P 35/00
(87) US2018059979	China	(11) EP3640246
23.05.2019	China	(21) EP18816671.4
(22) 09.11.2018	China	(47) 01.11.2023
(54) NOVEL SUBSTITUTED BIARYL	(51) C07D 277/52	(87) KR2018006644
COMPOUNDS AS INDOLEAMINE 2,3-	C07D 285/08	20.12.2018
DIOXYGENASE (IDO) INHIBITORS	C07D 417/12	(22) 12.06.2018
(73) Merck Sharp & Dohme LLC	C07D 471/04	(54) N2,N4-DIPHENYLPYRIMIDINE-2,4-
(72) HAN, Yongxin	C07D 471/10	DIAMINE DERIVATIVE, METHOD
ACHAB, Abdelghani	C07D 487/04	FOR PREPARING SAME, AND
BHARATHAN, Indu	C07D 487/08	PHARMACEUTICAL COMPOSITION
FRADERA, Xavier	C07D 487/10	CONTAINING SAME AS ACTIVE
LI, Derun	A61P 25/04	INGREDIENT FOR PREVENTION OR
SCIAMMETTA, Nunzio	A61P 29/00	TREATMENT OF CANCER
YU, Wensheng	A61K 45/06	(73) Korea Research Institute of Chemical
(31) 201762585742 P	A61K 31/18	Technology
(32) 14.11.2017	A61K 31/38	(72) LEE, Kwangho
(33) United States of America	A61K 31/395	SHIN, Inji
(51) C07D 231/14	(11) EP3541373	CHOI, Gildon
(11) EP3797099	(21) EP17871873.0	CHAE, Chong Hak
(21) EP19734512.7	(47) 01.11.2023	CHOE, Hyeon Jeong
(47) 01.11.2023	(87) US2017061221	JUNG, Myoung Eun
(87) IB2019054119	24.05.2018	JEON, Byeong Uk
28.11.2019	(22) 13.11.2017	CHO, Byoung Chul
(22) 20.05.2019	(54) DIAMINO-ALKYLAMINO-LINKED	PARK, Chae Won
(54) METHOD FOR PREPARING	ARYLSULFONAMIDE COMPOUNDS	KIM, Hwan
SUBSTITUTED HETEROCYCLIC	WITH SELECTIVE ACTIVITY IN	DUGGIRALA, Krishna Babu
COMPOUNDS	VOLTAGE-GATED SODIUM CHANNELS	(31) 20170146241
(73) PI Industries Ltd.	(73) Merck Sharp & Dohme LLC	20170073907
(72) SYTHANA, Suresh Kumar	(72) GRESHOCK, Thomas, J.	(32) 03.11.2017
SALVI, Vijay Kumar	MULHEARN, James, J.	13.06.2017
PANDYA, Mayank	ROECKER, Anthony, J.	(33) Korea (Republic)
KANAWADE, Shrikant Bhausahab	JIAN, Tianying	Korea (Republic)
KLAUSENER, Alexander G. M.	ZHOU, Gang	(51) C07D 401/12
(31) 201811018994	GUO, Liangqin	C07D 401/14
(32) 21.05.2018	WON, Walter	C07D 413/14
(33) India	ZHANG, Ting	A61K 31/4439
(51) C07D 263/10	ANAND, Rajan	A61P 35/00
C07D 263/14	STELMACH, John, E.	A61P 19/06
A01N 43/90	WANG, Deping	A61P 19/02
A01N 43/76	KIM, Ronald, M.	A61P 17/06
A01P 7/04	LAYTON, Mark, E.	A61P 3/00
A01P 7/02	BURGEY, Christopher, S.	A61P 9/10
(11) EP3971171	NANTERMET, Philippe, G.	A61P 31/04
(21) EP20867265.9	(31) 201662423411 P	A61P 29/00
(47) 01.11.2023	(32) 17.11.2016	A61P 11/06
(87) CN2020117485	(33) United States of America	A61P 37/08
01.04.2021	(51) C07D 401/10	(11) EP4015513
(22) 24.09.2020	C07D 251/24	(21) EP20869953.8
(54) OXAZOLINE COMPOUND, SYNTHESIS	H10K 85/60	(47) 01.11.2023
METHOD THEREFOR AND	H10K 102/00	(87) CN2020117093
APPLICATION THEREOF	(11) EP3786159	01.04.2021
(73) Nankai University	(21) EP20200666.4	(22) 23.09.2020
(72) WANG, Qingmin	(47) 01.11.2023	(54) IRAK INHIBITOR AND PREPARATION
LIU, Yuxiu	(22) 06.11.2017	METHOD THEREFOR AND USE
WANG, Ziwen	(54) TRIAZINE COMPOUND AND	THEREOF
SONG, Hongjian	ORGANIC SEMICONDUCTING LAYER	(73) Shanghai Meiyue Biotech Development
LI, Yongqiang	COMPRISING THE SAME	Co., Ltd.
CHEN, Shilin	(73) Novald GmbH	(72) YE, Guozhong
ZHANG, Yu	(72) LUSCHTINETZ, Regina	DING, Chenli
(31) 201910903358	PAVICIC, Domagoj	DING, Yawen
201910903356	SCHULZE, Benjamin	HE, Qian
201910903359	(51) C07D 401/12	WANG, Chaodong

- (31) 201910906833  
(32) 24.09.2019  
(33) China
- 
- (51) C07D 403/04  
C07D 413/14  
C07D 417/14  
C07D 471/04  
C07D 487/04  
C07D 495/04  
A61K 31/506  
A61P 3/00  
A61P 9/00  
A61P 15/00  
A61P 25/00  
A61P 35/00  
(11) EP3998260  
(21) EP21214096.6  
(47) 01.11.2023  
(22) 14.03.2014  
(54) SGC STIMULATORS  
(73) Cycleron Therapeutics, Inc.  
(72) NAKAI, Takashi  
MOORE, Joel  
PERL, Nicholas Robert  
IYENGAR, Rajesh R.  
MERMERIAN, Ara  
IM, G-Yoon Jamie  
LEE, Thomas Wai-Ho  
HUDSON, Colleen  
RENNIE, Glen Robert  
JIA, James  
RENHOWE, Paul Allen  
BARDEN, Timothy Claude  
YU, Xiang Y  
SHEPPECK, James Edward  
IYER, Karthik  
JUNG, Joon  
MILNE, George Todd  
LONG, Kimberly Kafadar  
CURRIE, Mark G.  
(31) 201361914915 P  
201361790637 P  
(32) 11.12.2013  
15.03.2013  
(33) United States of America  
United States of America
- 
- (51) C07D 403/12  
C07D 403/14  
C07D 471/08  
C07D 487/04  
C07D 487/08  
A61P 35/00  
A61K 31/506  
A61K 31/444  
(11) EP3966207  
(21) EP20729420.8  
(47) 01.11.2023  
(87) US2020032087  
19.11.2020  
(22) 08.05.2020  
(54) PHENYLAMINOPYRIMIDINE AMIDE  
AUTOPHAGY INHIBITORS AND  
METHODS OF USE THEREOF  
(73) Deciphra Pharmaceuticals, LLC  
(72) FLYNN, Daniel, L.  
AHN, Yu, Mi  
CALDWELL, Timothy  
VOGETI, Lakshminarayana
- (31) 201962911730 P  
201962911728 P  
201962846251 P  
201962846258 P  
(32) 07.10.2019  
07.10.2019  
10.05.2019  
10.05.2019  
(33) United States of America  
United States of America  
United States of America  
United States of America
- 
- (51) C07D 403/12  
C07D 405/14  
C07D 413/14  
C07D 403/14  
C07D 413/12  
C07D 487/04  
A61P 29/00  
A61K 31/4184  
(11) EP3740478  
(21) EP19700777.6  
(47) 01.11.2023  
(87) EP2019050594  
18.07.2019  
(22) 10.01.2019  
(54) FUSED IMIDAZOLE DERIVATIVES AS  
IL-17 MODULATORS  
(73) UCB Biopharma SRL  
(72) BRACE, Gareth Neil  
CHAPPELL, Rose Elizabeth  
FOULKES, Gregory  
FROST, James Richard  
HORSLEY, Helen Tracey  
JONES, Elizabeth Pearl  
LECOMTE, Fabien Claude  
REUBERSON, James Thomas  
SCHULZE, Monika-Sarah Elisabeth  
Dorothea  
TAYLOR, Richard David  
YAU, Wei Tsung  
ZHU, Zhaoning  
(31) 201820172  
201800639  
(32) 11.12.2018  
15.01.2018  
(33) United Kingdom  
United Kingdom
- 
- (51) C07D 403/14  
A61K 31/506  
C07D 401/14  
C07D 401/12  
C07D 473/16  
C07D 487/04  
C07D 495/04  
A61P 35/00  
(11) EP3722292  
(21) EP18886173.6  
(47) 01.11.2023  
(87) KR2018015437  
13.06.2019  
(22) 06.12.2018  
(54) NOVEL PYRIMIDINE DERIVATIVE  
HAVING EFFECT OF INHIBITING  
CANCER CELL GROWTH AND  
PHARMACEUTICAL COMPOSITION  
CONTAINING SAME  
(73) Oncobix Co., Ltd.
- (72) KIM, Sung-Eun  
LEE, Sunho  
RAJESH, Rengasamy  
KANG, Dae Ho  
RYU, Hyung Chul  
KIM, Jae-Sun  
LEE, Sangryul  
KIM, Kyong Cheol  
RHO, Jin Kyung  
LEE, Jae Cheol  
(31) 20180154838  
20170167809  
(32) 05.12.2018  
07.12.2017  
(33) Korea (Republic)  
Korea (Republic)
- 
- (51) C07D 405/14  
C07D 413/14  
C07D 403/14  
C07D 409/14  
C07D 417/14  
C07D 487/04  
C07D 495/04  
A61P 33/00  
A61P 35/00  
C07D 491/04  
C07D 498/04  
C07D 513/04  
(11) EP3647311  
(21) EP18824200.2  
(47) 01.11.2023  
(87) CN2018093713  
03.01.2019  
(22) 29.06.2018  
(54) RHO-ASSOCIATED PROTEIN KINASE  
INHIBITOR, PHARMACEUTICAL  
COMPOSITION COMPRISING SAME,  
AND PREPARATION METHOD AND  
USE THEREOF  
(73) Beijing Tide Pharmaceutical Co., Ltd.  
(72) ZHAO, Yanping  
WANG, Hongjun  
LI, Gong  
JIANG, Yuanyuan  
LI, Xiang  
LIU, Bin  
ZHONG, Weiting  
LIU, Kai  
LI, Fajie  
ZHOU, Liying  
LIU, Yanan  
(31) 201711089580  
PCT/CN2017/104290  
PCT/CN2017/091085  
(32) 08.11.2017  
29.09.2017  
30.06.2017  
(33) China  
World Intellectual Property Office (WIPO)  
World Intellectual Property Office (WIPO)
- 
- (51) C07D 413/04  
C07D 413/12  
C07D 417/12  
C07D 261/20  
A61P 35/00  
A61K 31/423  
(11) EP3810602  
(21) EP19734722.2

(47) 01.11.2023	DING, Charles Z.	A61P 35/00
(87) EP2019066337 26.12.2019	LI, Jian	C07D 215/54
(22) 20.06.2019	CHEN, Shuhui	A61K 31/4706
(54) COMPOUNDS	(31) 201810712103	C07D 239/94
(73) CTXT PTY LTD	201810055396	(11) EP3350181
(72) STUPPLE, Paul, Anthony	(32) 29.06.2018	(21) EP16843101.3
LAGIAKOS, Helen, Rachel	19.01.2018	(47) 01.11.2023
MORROW, Benjamin, Joseph	(33) China	(87) US2016050177
FOITZIK, Richard, Charles	China	09.03.2017
HEMLEY, Catherine, Fae	(51) C07D 471/04	(22) 02.09.2016
CAMERINO, Michelle, Ang	A61K 31/519	(54) HER3 LIGANDS AND USES THEREOF
BOZIKIS, Ylva, Elisabet, Bergman	A61P 35/00	(73) The Regents of the University of California
WALKER, Scott, Raymond	(11) EP3842433	(72) NOVOTNY, Christopher
(31) 201810092	(21) EP21155251.8	SHOKAT, Kevan
(32) 20.06.2018	(47) 01.11.2023	JURA, Natalia
(33) United Kingdom	(22) 18.01.2019	(31) 201562213455 P
(51) C07D 413/14	(54) PYRIDONE-PYRIMIDINE DERIVATIVE	(32) 02.09.2015
A61K 31/4725	ACTING AS KRASG12C MUTEIN	(33) United States of America
A61P 25/18	INHIBITOR	(51) C07D 471/18
(11) EP3896071	(73) Medshine Discovery Inc.	A61P 31/18
(21) EP19892624.8	(72) CAI, Yaxian	(11) EP4196479
(47) 01.11.2023	XU, Zhaobing	(21) EP22704452.6
(87) CN2019123939	YANG, Hailong	(47) 01.11.2023
11.06.2020	HAN, Shiqi	(87) US2022012773
(22) 09.12.2019	HU, Guoping	28.07.2022
(54) CRYSTALLINE FORM OF	HU, Lihong	(22) 18.01.2022
PROPIONAMIDE DERIVATIVE AND	DING, Charles Z.	(54) SUBSTITUTED PYRIDOTRIAZINE
PREPARATION METHOD THEREFOR	LI, Jian	COMPOUNDS AND USES THEREOF
(73) NHWA Pharma. Corporation	CHEN, Shuhui	(73) GILEAD SCIENCES, INC.
(72) HAO, Chao	(31) 201810712103	(72) CHU, Hang
(31) 201811499965	201810055396	GONZALEZ BUENROSTRO, Ana Z.
(32) 07.12.2018	(32) 29.06.2018	GUO, Hongyan
(33) China	19.01.2018	HAN, Xiaochun
(51) C07D 471/04	(33) China	HURTLEY, Anna E.
(11) EP3802529	China	JIANG, Lan
(21) EP19728586.9	(51) C07D 471/04	LI, Jiayao
(47) 01.11.2023	A61K 31/519	LIN, David W.
(87) EP2019063085	A61P 35/00	MITCHELL, Michael L.
28.11.2019	(11) EP3672968	NADUTHAMBI, Devan
(22) 21.05.2019	(21) EP18762743.5	SCHWARZWALDER, Gregg M.
(54) A PROCESS FOR MAKING	(47) 01.11.2023	SZEWCZYK, Suzanne M.
PALBOCICLIB	(87) US2018047434	VON BARGEN, Matthew J.
(73) Syntho B.V.	28.02.2019	WU, Qiaoyin
(72) MITAS, Petr	(22) 22.08.2018	YANG, Hong
SMEKAL, Oldrich	(54) SOLID STATE FORM OF RIBOCICLIB	ZHANG, Jennifer R.
(31) 18174119	SUCCINATE	(31) 202163190461 P
(32) 24.05.2018	(73) Assia Chemical Industries Ltd	202163139237 P
(33) European Patent Office (EPO)	(72) CERIC, Helena	(32) 19.05.2021
(51) C07D 471/04	VERGANI, Elisa	19.01.2021
A61K 31/519	TISENI, Paolo Simone	(33) United States of America
A61P 35/00	KANTOR, Hana	United States of America
(11) EP3741756	PARAVIDINO, Piero	(51) C07D 487/04
(21) EP19740933.7	JANTON, Nikolina	A61K 31/13
(47) 01.11.2023	GALLUZZO, Christian	A61K 31/27
(87) CN2019072393	JEGOROV, Alexandr	A61K 31/444
25.07.2019	(31) 201762593319 P	(11) EP3630772
(22) 18.01.2019	201762577446 P	(21) EP18805780.6
(54) PYRIDONE-PYRIMIDINE DERIVATIVE	201762555170 P	(47) 01.11.2023
ACTING AS KRASG12C MUTEIN	201762550208 P	(87) US2018034566
INHIBITOR	(32) 01.12.2017	29.11.2018
(73) Medshine Discovery Inc.	26.10.2017	(22) 25.05.2018
(72) CAI, Yaxian	07.09.2017	(54) METHODS OF MAKING AND USING
XU, Zhaobing	25.08.2017	PDE9 INHIBITORS
YANG, Hailong	(33) United States of America	(73) Imara Inc.
HAN, Shiqi	United States of America	(72) SVENSTRUP, Niels
HU, Guoping	United States of America	ZHANG, Jun
HU, Lihong	United States of America	SUN, Jikui
	(51) C07D 471/04	

CHEN, Yuyin	A61P 1/16	(47) 01.11.2023
KONG, Jianshe	A61P 3/06	(87) KR2017007021
MA, Rujian	A61P 3/04	11.01.2018
ZHANG, Junhua	A61P 3/00	(22) 03.07.2017
QIN, Liang	A61P 9/00	(54) IMIDAZOXAZOLE DERIVATIVE
XIAO, Huanming	A61P 29/00	HAVING ANTITUMOR EFFECT, AND
SUN, Jinxu	A61P 35/00	PHARMACEUTICAL COMPOSITION
MENG, Xiao	A61P 9/12	INCLUDING SAME
SUN, Fenglai	A61P 3/10	(73) Korea Institute of Science and
ZHU, Jingyang	(11) EP3880683	Technology
(31) 201762511367 P	(21) EP19808555.7	(72) MAHMOUD, Gamal El-din
(32) 26.05.2017	(47) 01.11.2023	CHOI, Hong Seok
(33) United States of America	(87) EP2019081650	YOO, Kyung Ho
(51) C07D 487/04	22.05.2020	HAN, Dong Keun
A61P 11/06	(22) 18.11.2019	OH, Chang Hyun
A61P 11/10	(54) MONOHYDRATE POTASSIUM SALT OF	MOHAMMED, Abdel-Maksoud
A61K 31/519	A THIENOPYRIDONE DERIVATIVE AND	MOHAMMED, I. El-Gamal
(11) EP3947384	ITS PREPARATION PROCESS	(31) 20160085062
(21) EP20711985.0	(73) Poxel	(32) 05.07.2016
(47) 01.11.2023	(72) BOLZE, Sébastien	(33) Korea (Republic)
(87) EP2020058168	LANZ, Marc	(51) C07D 498/14
08.10.2020	ARICAN, Deniz	A61K 31/5365
(22) 24.03.2020	O'SULLIVAN, Anthony	A61P 31/18
(54) ISOCHROMENE DERIVATIVES AS	HALLAKOU-BOZEC, Sophie	A61K 47/54
PHOSPHOINOSITIDE 3-KINASES	NAVARRÉ, Laure	A61K 9/14
INHIBITORS	(31) 18306505	(11) EP3870174
(73) Chiesi Farmaceutici S.p.A.	(32) 16.11.2018	(21) EP19877349.1
(72) BIAGETTI, Matteo	(33) European Patent Office (EPO)	(47) 01.11.2023
RONCHI, Paolo	(51) C07D 495/04	(87) US2019057406
FIORELLI, Claudio	C07D 261/20	30.04.2020
BRUNO, Paolo	C07D 413/04	(22) 22.10.2019
(31) 19167245	A61K 31/4365	(54) ANTIVIRAL PRODRUGS AND
(32) 04.04.2019	A61K 31/423	NANOFORMULATIONS THEREOF
(33) European Patent Office (EPO)	A61K 31/5375	(73) Board of Regents of the University of
(51) C07D 487/04	(11) EP3345910	Nebraska
A61P 35/00	(21) EP16842361.4	(72) GENDELMAN, Howard E.
A61K 31/519	(47) 01.11.2023	EDAGWA, Benson
C07D 403/04	(87) KR2016009859	(31) 201862748798 P
C07D 403/14	09.03.2017	(32) 22.10.2018
(11) EP3436461	(22) 02.09.2016	(33) United States of America
(21) EP17715620.5	(54) COMPOUND HAVING EFFECT OF	(51) C07D 519/00
(47) 01.11.2023	INHIBITING PLATELET AGGREGATION	C07D 471/04
(87) US2017024270	AND SALT THEREOF, AND	A61P 21/00
05.10.2017	COMPOSITION FOR PREVENTING OR	A61K 31/437
(22) 27.03.2017	TREATING THROMBOTIC DISEASES,	(11) EP3684776
(54) PYRROLOTRIAZINE COMPOUNDS AS	CONTAINING SAME	(21) EP18778997.9
TAM INHIBITORS	(73) Shin Poong Pharmaceutical Co., Ltd.	(47) 01.11.2023
(73) Incyte Corporation	(72) RYU, JeiMan	(87) GB2018052697
(72) LI, Yun-Long	LEE, Dong Won	28.03.2019
WANG, Xiaozhao	LEE, Kang Hyeok	(22) 21.09.2018
BARBOSA, Joseph	PARK, Jin Hun	(54) HETEROCYCLYL SUBSTITUTED
BURNS, David M.	CHO, Geum Sil	PYRROLOPYRIDINES THAT ARE
FENG, Hao	LEE, Ki Sung	INHIBITORS OF THE CDK12 KINASE
GLENN, Joseph	CHUNG, Jin Ho	(73) The University of Nottingham
HE, Chunhong	PARK, Woo Il	(72) BROOK, David
HUANG, Taisheng	LEE, Jae Young	HAYES, Chris
MEI, Song	(31) 20150125270	BENNETT, Nicholas
ZHUO, Jincong	(32) 04.09.2015	PALFRAMAN, Matthew
(31) 201662438750 P	(33) Korea (Republic)	CRAMP, Sue
201662362934 P	(51) C07D 498/04	BULL, Richard
201662314066 P	C07D 513/04	BODNARCHUK, Michael
(32) 23.12.2016	C07D 417/14	(31) 201715342
15.07.2016	A61K 31/424	(32) 22.09.2017
28.03.2016	A61K 31/429	(33) United Kingdom
(33) United States of America	A61K 31/433	(51) C07F 3/02
United States of America	A61K 31/506	B01J 31/00
United States of America	(11) EP3483166	C08F 4/08
(51) C07D 495/04	(21) EP17824476.0	(11) EP3619219

- (21) EP15753336.5  
(47) 01.11.2023  
(87) EP2015068513  
18.02.2016
- (22) 12.08.2015  
(54) LOW-VISCOSITY SOLUTIONS OF  
ALKALINE-EARTH METAL ALKOXIDES  
IN APROTIC SOLVENTS, METHOD  
FOR THE PRODUCTION OF SAME  
AND USE FOR THE PRODUCTION OF  
ZIEGLER-NATTA CATALYSTS
- (73) Albemarle Germany GmbH  
(72) WIETELMANN, Ulrich  
EMMEL, Ute  
STOLL, Armin  
KIEFER, Florian
- (31) 102014224139  
102014216067  
102014215919
- (32) 26.11.2014  
13.08.2014  
12.08.2014
- (33) Germany  
Germany  
Germany
- 
- (51) C07F 5/02  
A61K 31/69  
A61P 35/00  
A61K 31/4245  
A61K 31/395  
A61K 45/06  
A61K 39/00  
A61P 35/02  
C07K 16/28  
A61K 39/395
- (11) EP3842442  
(21) EP21158664.9  
(47) 01.11.2023  
(22) 22.12.2017  
(54) COMPOSITIONS AND METHODS FOR  
INHIBITING ARGINASE ACTIVITY
- (73) Precision Pharmaceuticals, Inc.  
(72) SJOGREN, Eric, B.  
LI, Jim  
CHEN, Lijing  
BILLEDEAU, Roland, J.  
STANTON, Timothy, F.  
VAN ZANDT, Michael  
WHITEHOUSE, Darren  
JAGDMANN, Gunnar, E., Jr.  
PETERSEN, Lene, Raunkjær  
PARLATI, Francesco  
GROSS, Matthew, I
- (31) 201662439614 P  
201662438092 P
- (32) 28.12.2016  
22.12.2016
- (33) United States of America  
United States of America
- 
- (51) C07F 7/18  
A61K 8/58  
A61Q 19/00  
A61Q 19/08
- (11) EP4153603  
(21) EP21726422.5  
(47) 01.11.2023  
(87) EP2021063565  
25.11.2021
- (22) 20.05.2021  
(54) COMPOSITIONS COMPRISING  
ORGANO-SILANOL COMPOUNDS,  
AND APPLICATIONS
- (73) Exsymol  
(72) BONDON, Pierre
- (31) 2005373  
(32) 20.05.2020  
(33) France
- 
- (51) C07F 9/09  
C07F 9/11  
C07H 15/252  
H01M 10/052  
H01M 10/054  
H01M 10/0567  
H01M 10/0568  
H01G 11/64
- (11) EP3336093  
(21) EP16835184.9  
(47) 01.11.2023  
(87) JP2016073462  
16.02.2017
- (22) 09.08.2016  
(54) PHOSPHORIC ACID DIESTER SALT,  
PRODUCTION METHOD THEREFOR,  
NON-AQUEOUS ELECTROLYTE FOR  
POWER STORAGE ELEMENT, AND  
POWER STORAGE ELEMENT
- (73) Stella Chemifa Corporation  
(72) SAKAGUCHI, Toshitaka  
KON, Sojiro  
KATSURA, Yoshifumi  
YAMAMOTO, Masashi  
NISHIDA, Tetsuo
- (31) 2015158572  
(32) 10.08.2015  
(33) Japan
- 
- (51) C07F 9/17  
C07F 9/165
- (11) EP3856750  
(21) EP19802069.5  
(47) 01.11.2023  
(87) EP2019025318  
02.04.2020
- (22) 26.09.2019  
(54) CATALYZED AND GREEN PROCESS  
OF MALATHION
- (73) Cheminova A/S  
(72) HUANG, David  
FAN, Bolin  
LUO, Kevin
- (31) 201862737151 P  
(32) 27.09.2018  
(33) United States of America
- 
- (51) C07F 9/40  
C10M 137/12  
C10N 30/06  
C10N 40/04  
C10N 40/08  
C10N 40/25  
C10N 40/30  
C10N 70/00
- (11) EP3515516  
(21) EP17851705.8  
(47) 01.11.2023  
(87) US2017052025  
22.03.2018
- (22) 18.09.2017
- (54) NOVEL AMINOBISPHOSPHONATE  
ANTIWEAR ADDITIVES
- (73) Afton Chemical Corporation  
(72) BAKER, John, Marshall  
CARPENTIER, Guillaume
- (31) 201715706498  
201662396465 P
- (32) 15.09.2017  
19.09.2016
- (33) United States of America  
United States of America
- 
- (51) C07F 9/50  
C07F 9/6553  
B01J 31/24  
C07C 1/32  
C07C 15/14  
C07C 209/10  
C07C 213/02  
C07C 217/84  
C07D 209/86  
C07D 295/033  
C07D 317/50  
C07F 15/00  
C07C 211/54
- (11) EP3766891  
(21) EP19764436.2  
(47) 01.11.2023  
(87) CN2019079966  
12.09.2019
- (22) 28.03.2019  
(54) TRIARYL PHOSPHINE LIGANDS,  
PREPARATION METHOD THEREFOR,  
AND USE IN CATALYSING COUPLING  
REACTIONS
- (73) Dongguan Stephen Catalyst Co., Ltd.  
(72) SHI, Jicheng  
ZHOU, Fabian
- (31) 201810187687  
(32) 07.03.2018  
(33) China
- 
- (51) C07F 9/6574  
B01J 31/18  
B01J 31/24  
C07C 45/50
- (11) EP3717494  
(21) EP18830029.7  
(47) 01.11.2023  
(87) US2018062522  
06.06.2019
- (22) 27.11.2018  
(54) HIGHLY ISOSELECTIVE CATALYST  
FOR ALKENE HYDROFORMYLATION
- (73) Eastman Chemical Company  
(72) IU, Leo  
CLARKE, Matthew  
FONTENOT, Kevin, John  
JANKA, Mesfin, Ejerssa
- (31) 201715824347  
(32) 28.11.2017  
(33) United States of America
- 
- (51) C07F 15/00  
B01J 31/22  
C07B 37/04
- (11) EP3559012  
(21) EP17821616.4  
(47) 01.11.2023  
(87) EP2017083666  
28.06.2018



- (22) 19.12.2017  
(54) METAL ORGANIC COMPOUNDS  
(73) Umicore AG & Co. KG  
(72) NOLAN, Steven P.  
(31) 16206466  
(32) 22.12.2016  
(33) European Patent Office (EPO)
- 
- (51) C07F 15/00  
C09K 11/07  
C09K 11/06  
H10K 85/30  
(11) EP3722301  
(21) EP20168158.2  
(47) 01.11.2023  
(22) 06.04.2020  
(54) ORGANOMETALLIC COMPOUND,  
ORGANIC LIGHT-EMITTING DEVICE  
INCLUDING THE ORGANOMETALLIC  
COMPOUND, DIAGNOSTIC  
COMPOSITION INCLUDING THE  
ORGANOMETALLIC COMPOUND  
(73) Samsung Electronics Co., Ltd.  
(72) LEE, Kum Hee  
KWAK, Yoonhyun  
ARATANI, Sukekazu  
LEE, Jiyoun  
CHO, Yuri  
CHOI, Jongwon  
CHOI, Whail  
HWANG, Kyuyoung  
(31) 20190042745  
(32) 11.04.2019  
(33) Korea (Republic)
- 
- (51) C07H 1/06  
C07H 3/06  
B01D 9/00  
(11) EP3154995  
(21) EP15806229.9  
(47) 01.11.2023  
(87) DK2015050158  
17.12.2015  
(22) 11.06.2015  
(54) SEPARATION OF 2'-O-  
FUCOSYLLACTOSE FROM  
FERMENTATION BROTH  
(73) Glycom A/S  
(72) MATWIEJUK, Martin  
CHASSAGNE, Pierre  
OSZTROVSZKY, Györgyi  
HORVÁTH, Ferenc  
DEKANY, Gyula  
(31) 201470348  
(32) 11.06.2014  
(33) Denmark
- 
- (51) C07H 13/06  
D21H 21/16  
(11) EP3935064  
(21) EP20712696.2  
(47) 01.11.2023  
(87) IB2020051981  
10.09.2020  
(22) 06.03.2020  
(54) LIQUID DISPERSIONS FOR ACYL  
HALIDES  
(73) Greentech Global Pte. Ltd.  
(72) SPENDER, Jonathan  
BILODEAU, Michael Albert  
MIKAIL, Samuel
- (31) 201962814361 P  
(32) 06.03.2019  
(33) United States of America
- 
- (51) C07H 19/048  
C07H 1/06  
A61K 31/706  
(11) EP3268379  
(21) EP16762166.3  
(47) 01.11.2023  
(87) US2016020537  
15.09.2016  
(22) 03.03.2016  
(54) CRYSTALLINE FORM OF  
NICOTINAMIDE RIBOSIDE  
(73) W.R. Grace & CO. - CONN.  
(72) CARLSON, Erik, C.  
OSUNA, Jose  
(31) 201562130428 P  
(32) 09.03.2015  
(33) United States of America
- 
- (51) C07H 19/167  
C07H 1/02  
(11) EP3705485  
(21) EP18888369.8  
(47) 01.11.2023  
(87) CN2018120184  
20.06.2019  
(22) 11.12.2018  
(54) METHOD FOR PREPARING  
CANGRELOR TETRASODIUM SALT  
(73) Yabao Pharmaceutical Group Co., Ltd.  
(72) TANG, Fanghui  
BAO, Jiyu  
GAO, Junfeng  
TAN, Zhouhong  
(31) 201711318174  
(32) 12.12.2017  
(33) China
- 
- (51) C07J 53/00  
C07B 63/00  
(11) EP3858848  
(21) EP20878033.8  
(47) 01.11.2023  
(87) CN2020129370  
27.05.2021  
(22) 17.11.2020  
(54) METHOD FOR PREPARING  
ORYZANOL BY USING SOAPSTOCK  
CONTAINING ORYZANOL AS RAW  
MATERIAL  
(73) Hunan Huacheng Biotech, Inc  
(72) HUANG, Huaxue  
LIU, Genggui  
HE, Anle  
ZENG, Runqing  
(31) 201911156181  
(32) 22.11.2019  
(33) China
- 
- (51) C07J 63/00  
A61K 31/56  
A61K 31/58  
A61P 3/00  
A61P 1/16  
A61P 3/06  
A61P 3/10  
(11) EP3686212  
(21) EP18856706.9  
(47) 01.11.2023
- (87) CN2018106012  
21.03.2019  
(22) 17.09.2018  
(54) PENTACYCLIC TRITERPENE  
COMPOUND AND PREPARATION  
METHOD THEREFOR, AND  
PHARMACEUTICAL COMPOSITION  
AND USE THEREOF  
(73) Shanghai Institute of Materia Medica,  
Chinese Academy of Sciences  
(72) NAN, Fajun  
XIE, Xin  
XIE, Cen  
ZHANG, Chenlu  
LIU, Yameng  
GUO, Shimeng  
ZHANG, Yangming  
WANG, Siwei  
(31) 201710841681  
(32) 18.09.2017  
(33) China
- 
- (51) C07K 4/12  
A61K 39/00  
(11) EP3380490  
(21) EP16805200.9  
(47) 01.11.2023  
(87) GB2016053665  
01.06.2017  
(22) 23.11.2016  
(54) PEPTIDES  
(73) Immunocore Limited  
Adaptimmune Limited  
(72) POWLESLAND, Alex  
CHILLAKURI, Chandramouli  
SANGANI, Dhaval  
HOOD, Graham  
OESTRINGER, Benjamin  
DELLACRISTINA, Pietro  
(31) 201520570  
(32) 23.11.2015  
(33) United Kingdom
- 
- (51) C07K 5/062  
C07C 231/24  
C07C 237/04  
C30B 29/58  
G01N 23/20008  
G01N 23/207  
(11) EP3560948  
(21) EP17885114.3  
(47) 01.11.2023  
(87) JP2017045666  
28.06.2018  
(22) 20.12.2017  
(54) L-ALANYL-L-GLUTAMINE CRYSTALS  
AND METHOD FOR PRODUCING  
SAME  
(73) Kyowa Hakko Bio Co., Ltd.  
(72) FUKUMOTO, Kazunari  
(31) 2016246116  
(32) 20.12.2016  
(33) Japan
- 
- (51) C07K 5/107  
C07K 5/117  
A61P 31/04  
(11) EP4038084  
(21) EP20800296.4  
(47) 01.11.2023  
(87) IB2020059149

08.04.2021	GLOSER-BRÄUNIG, Manja	(32) 23.09.2015
(22) 30.09.2020	HAUPTS, Ulrich	(33) United States of America
(54) LIPOPEPTIDES, PHARMACEUTICAL COMPOSITION, COSMETIC COMPOSITION, AND LIPOPEPTIDES FOR USE AS A DRUG	(31) 21155334 20186113	(51) C07K 16/18 G01N 33/68
(73) Uniwersytet Warszawski	(32) 04.02.2021 16.07.2020	(11) EP3472199 (21) EP17735015.4
(72) SEK, Sławomir	(33) European Patent Office (EPO) European Patent Office (EPO)	(47) 01.11.2023 (87) EP2017064667
TYMECKA, Dagmara	(51) C07K 14/605	21.12.2017
JUHANIEWICZ-DEBINSKA, Joanna	A61K 38/26	(22) 15.06.2017
BARTOSIK, Dariusz	A61P 3/04	(54) COMP- PEPTIDE AND ANTIBODIES THERETO FOR DIAGNOSING OSTEOARTHRITIS
LASEK, Robert	(11) EP3878859	(73) SGPTH Life Science AB
(31) 43133619	(21) EP21161174.4	(72) SKIÖLDEBRAND, Eva
(32) 01.10.2019	(47) 01.11.2023	LINDAHL, Anders
(33) Poland	(22) 07.06.2012	EKMAN, Stina
(51) C07K 7/56	(54) NOVEL OXYNTOMODULIN DERIVATIVES AND PHARMACEUTICAL COMPOSITION FOR TREATING OBESITY COMPRISING THE SAME	(31) 1650855 (32) 16.06.2016 (33) Sweden
A61K 38/12	(73) Hanmi Science Co., Ltd.	
A61P 31/00	(72) JUNG, Sung Youb	(51) C07K 16/32
A61P 35/00	JANG, Myung Hyun	A61P 35/00
A61P 37/00	SHEN, Ling Ai	A61K 9/00
A61K 31/12	PARK, Young Kyung	A61K 45/06
(11) EP4087857	PARK, Young Jin	A61K 39/395
(21) EP20824824.5	KWON, Se Chang	A61K 39/00
(47) 01.11.2023	(31) 20110056472	(11) EP3589661
(87) US2020061273 15.07.2021	(32) 10.06.2011	(21) EP18712044.9
(22) 19.11.2020	(33) Korea (Republic)	(47) 01.11.2023
(54) IMMUNOMODULATORS	(51) C07K 14/725	(87) US2018020154
(73) Bristol-Myers Squibb Company	C12N 15/09	07.09.2018
(72) WANG, Tao	(11) EP3551653	(22) 28.02.2018
SCOLA, Paul Michael	(21) EP17825761.4	(54) ADJUVANT TREATMENT OF HER2- POSITIVE BREAST CANCER
ZHANG, Zhongxing	(47) 01.11.2023	(73) Genentech, Inc.
(31) 202062957383 P	(87) EP2017081745	F. Hoffmann-La Roche AG
(32) 06.01.2020	14.06.2018	(72) BENYUNES, Mark, C.
(33) United States of America	(22) 06.12.2017	ROSS, Graham, Alexander
(51) C07K 14/00	(54) T CELL RECEPTORS WITH IMPROVED PAIRING	(31) 201762486876 P 201762469317 P 201762466239 P
G01N 33/53	(73) Immatics Biotechnologies GmbH	(32) 18.04.2017
G01N 33/543	(72) BUNK, Sebastian	09.03.2017
(11) EP3502125	MAURER, Dominik	02.03.2017
(21) EP19150770.6	FRITSCHKE, Jens	(33) United States of America United States of America United States of America
(47) 01.11.2023	WAGNER, Claudia	
(22) 05.11.2012	ALTEN, Leonie	(51) C07K 16/46 C07K 16/22 C07K 16/24 C07K 16/28
(54) PEPTIDES AND METHODS FOR THE DETECTION OF LYME DISEASE ANTIBODIES	HOFFGAARD, Franziska	(11) EP3356420
(73) Zoetis Services LLC	FERBER, Mathias	(21) EP16775695.6
(72) MEHRA, Rajesh, K.	(31) 102016123893	(47) 01.11.2023
ARON, Kenneth, P.	201662497895 P	(87) EP2016073410
BLEILE, Dennis, M.	(32) 08.12.2016	06.04.2017
WALKER, Jeremy	08.12.2016	(22) 30.09.2016
CUESICO, Cristina	(33) Germany United States of America	(54) MULTISPECIFIC ANTIBODIES
(31) 201161556061 P	(51) C07K 14/78	(73) F. Hoffmann-La Roche AG
(32) 04.11.2011	(11) EP3708580	(72) IMHOF-JUNG, Sabine
(33) United States of America	(21) EP20157019.9	KLEIN, Christian
(51) C07K 14/47	(47) 01.11.2023	MOLHOJ, Michael
C07K 16/32	(22) 22.09.2016	REGULA, Joerg Thomas
A61K 39/395	(54) FAST-OFF RATE SERUM ALBUMIN BINDING FIBRONECTIN TYPE III DOMAINS	SCHAEFER, Wolfgang
(11) EP4161954	(73) Bristol-Myers Squibb Company	(31) 16168918
(21) EP21745780.3	(72) KRYSTEK, Stanley, Richard, Jr.	15188060
(47) 01.11.2023	MITCHELL, Tracy, S.	(32) 10.05.2016
(87) EP2021069801 20.01.2022	GOSSELIN, Michael, L.	02.10.2015
(22) 15.07.2021	LIPOVSEK, Dasa	
(54) SERUM STABLE BINDING PROTEINS FOR HUMAN HER2 FOR THERANOSTIC APPLICATIONS	JUNEJA, Juhi	
(73) NAVIGO PROTEINS GMBH	(31) 201562222508 P	
(72) BOSSE-DOENECKE, Eva		

(33) European Patent Office (EPO) European Patent Office (EPO)	C08F 210/16 B01J 31/02	(32) 30.09.2019 (33) European Patent Office (EPO)
(51) C08B 30/12 C08L 3/02 A23L 29/212	(11) EP3126403 (21) EP15705867.8 (47) 01.11.2023	(51) C08F 8/32 C08F 10/00 C08G 63/91 C08G 65/333 C08G 65/48 C10L 1/234 C10L 10/00 C10L 10/18 C08F 110/10 C08F 8/46 C08F 8/12 C08F 8/48 C08F 8/44 C10L 1/236 C10L 1/08
(11) EP3728334 (21) EP18842542.5 (47) 01.11.2023 (87) FR2018053456 27.06.2019 (22) 20.12.2018 (54) METHOD OF PREPARING A HEAT-MODIFIED STARCH (73) ROQUETTE FRERES (72) BOCK, Solène QUETTIER, Claude WIATZ, Vincent	(87) US2015014547 08.10.2015 (22) 05.02.2015 (54) CATALYST COMPOSITION (73) Univation Technologies, LLC (72) PANNELL, Richard B. GLOWCZWSKI, David M. KUO, Chi-i LYNN, Timothy R. HUSSEIN, F. David CAO, Phuong, A. MARIOTT, Wesley R. AWE, Michael D.	(11) EP3578575 (21) EP19177633.5 (47) 01.11.2023 (22) 31.05.2019 (54) AN AMINE-BASED POLYMER, A PREPARATION PROCESS THEREOF AND USE THEREOF (73) China Petroleum & Chemical Corporation Research Institute Of Petroleum Processing, Sinopec (72) Zhang, Jianrong Huang, Xuojin
(31) 1872125 1853466 1851658 1762645 (32) 30.11.2018 19.04.2018 26.02.2018 20.12.2017 (33) France France France France	(31) 201461985143 P 201461974032 P (32) 28.04.2014 02.04.2014 (33) United States of America United States of America	(11) EP3578575 (21) EP19177633.5 (47) 01.11.2023 (22) 31.05.2019 (54) AN AMINE-BASED POLYMER, A PREPARATION PROCESS THEREOF AND USE THEREOF (73) China Petroleum & Chemical Corporation Research Institute Of Petroleum Processing, Sinopec (72) Zhang, Jianrong Huang, Xuojin
(51) C08B 37/00 C08L 5/00 (11) EP3418307 (21) EP18175758.4 (47) 01.11.2023 (22) 21.04.2009 (54) METHOD OF PREPARATION OF AN AQUEOUS DISPERSION OF FRUCTAN-CONTAINING PARTICLES (73) Tiense Suikerraffinaderij N.V. (72) FROONINCKX, Kim Martha Jozefa HÉROUFOSSE, François Alice Alphonse	(51) C08F 6/00 C08F 6/22 C08F 279/04 C08K 5/00 (11) EP3262087 (21) EP16706815.4 (47) 01.11.2023 (87) EP2016053180 01.09.2016 (22) 15.02.2016 (54) METHODS FOR IMPROVING THE BASE COLOR OF PLASTIC BY REDUCING BIOLOGICAL GROWTH IN THE LATEX SYSTEM (73) SABIC Global Technologies B.V. (72) WANG, Shi XU, Jianhua LOWRY, Vern	(31) 201810551975 (32) 31.05.2018 (33) China (51) C08F 10/10 C08F 4/52 C08F 6/02 C08F 110/10 (11) EP3943516 (21) EP20896680.4 (47) 01.11.2023 (87) KR2020017634 10.06.2021 (22) 04.12.2020 (54) CATALYST COMPOSITION AND METHOD FOR PREPARING POLYISOBUTENE BY USING SAME (73) LG CHEM, LTD. (72) JO, Dong Hyun HEO, Seong Beom KIM, Won Hee LEE, Jin CHOI, Gyeong Shin KIM, Hee Jeong
(31) 08009894 08007836 (32) 30.05.2008 23.04.2008 (33) European Patent Office (EPO) European Patent Office (EPO)	(31) 201562126233 P (32) 27.02.2015 (33) United States of America	(22) 04.12.2020 (54) CATALYST COMPOSITION AND METHOD FOR PREPARING POLYISOBUTENE BY USING SAME (73) LG CHEM, LTD. (72) JO, Dong Hyun HEO, Seong Beom KIM, Won Hee LEE, Jin CHOI, Gyeong Shin KIM, Hee Jeong
(51) C08C 19/04 C08C 19/44 C08F 136/06 (11) EP3798243 (21) EP19899456.8 (47) 01.11.2023 (87) KR2019018255 25.06.2020 (22) 20.12.2019 (54) MODIFIED CONJUGATED DIENE-BASED POLYMER AND METHOD FOR PREPARING SAME (73) LG CHEM, LTD. (72) LEE, Soo Yong LEE, Dong Gil CHOI, Won Mun CHOI, Seung Ho	(51) C08F 8/00 C08F 8/04 C08F 8/30 C08F 20/36 C08J 3/28 C08F 120/36 C08F 220/28 C08F 220/36 C08F 290/06 C08F 299/02 C08F 293/00 (11) EP4038113 (21) EP20824453.3 (47) 01.11.2023 (87) EP2020025403 08.04.2021 (22) 10.09.2020 (54) DECARBOXYLATION OF N-OXYPTHALIMIDE-BASED POLYMERS (73) Karlsruher Institut Für Technologie (KIT) (72) THEATO, Patrick FRECH, Stefan	(22) 04.12.2020 (54) CATALYST COMPOSITION AND METHOD FOR PREPARING POLYISOBUTENE BY USING SAME (73) LG CHEM, LTD. (72) JO, Dong Hyun HEO, Seong Beom KIM, Won Hee LEE, Jin CHOI, Gyeong Shin KIM, Hee Jeong (31) 20190162055 20190162054 (32) 06.12.2019 06.12.2019 (33) Korea (Republic) Korea (Republic)
(31) 20180167686 (32) 21.12.2018 (33) Korea (Republic)	(31) 19401040	(51) C08F 120/36 B63B 59/04 C08F 220/36 C09D 5/16 C09D 133/14 (11) EP3674332 (21) EP19219729.1 (47) 01.11.2023 (22) 26.12.2019 (54) ANTI-FOULING COATING
(51) C08F 4/6592	(31) 19401040	

(73) Naval Group Université de Toulon	ZUNIGA CALLES, Abel	(22) 06.12.2017
(72) BLACHE, Yves BRESSY, Christine DEZANNET, Clément	HERNANDEZ ZAMORA, Gabriel GARCIA VIDALES, Jose, Luis IBARRA RODRIGUEZ, Jesus, Eduardo	(54) POLYISOCYANATE COMPOSITION AND COATING COMPOSITION (73) ASAHI KASEI KABUSHIKI KAISHA (72) KATAGAWA Hironori
(31) 1874112	(31) 201916595913	(72) KATAGAWA Hironori
(32) 26.12.2018	201862782668 P	AZUMA Koichiro
(33) France	(32) 08.10.2019	(31) 2016237386
(51) C08F 210/16	20.12.2018	(32) 07.12.2016
C08F 4/659	(33) United States of America	(33) Japan
C08F 2/00	United States of America	(51) C08G 18/79
C08L 23/08	(51) C08F 222/10	C07D 251/34
C08J 5/18	B33Y 70/00	C08G 18/02
(11) EP3732214	C08F 2/50	(11) EP3286244
(21) EP18833789.3	C07D 303/06	(21) EP16719819.1
(47) 01.11.2023	B29C 64/124	(47) 01.11.2023
(87) US2018066581	(11) EP3911687	(87) EP2016058904
04.07.2019	(21) EP20700138.9	27.10.2016
(22) 19.12.2018	(47) 01.11.2023	(22) 21.04.2016
(54) COMPOSITIONS WITH MULTIMODAL ETHYLENE-BASED POLYMERS HAVING IMPROVED TOUGHNESS AT LOW TEMPERATURES	(87) EP2020050567	(54) POLYISOCYANURATE POLYMERS AND PROCESS FOR THE PRODUCTION OF POLYISOCYANURATE POLYMERS
(73) Dow Global Technologies LLC	23.07.2020	(73) Covestro Intellectual Property GmbH & Co. KG
(72) ONER-DELIORMANLI, Didem LIN, Yijian DEMIRORS, Mehmet LEE, Jong young GILLESPIE, David T.	(22) 10.01.2020	(72) LAAS, Hans-Josef MAGER, Dieter MATNER, Mathias ACHTEN, Dirk HOCKE, Heiko
(31) 201762610398 P	(54) LIMONENE-BASED (METH)ACRYLATES FOR USE IN 3D PRINTING	(31) 15164520
(32) 26.12.2017	(73) BASF SE	(32) 21.04.2015
(33) United States of America	(72) FUCHS, Andre MUELHAUPT, Rolf ASMACHER, Anne SCHIMPF, Vitalij	(33) European Patent Office (EPO)
(51) C08F 210/16	(31) 19151668	(51) C08G 59/06
C08F 4/6592	(32) 14.01.2019	C08G 59/20
C08F 2/02	(33) European Patent Office (EPO)	C08K 3/00
C08F 2/06	(51) C08F 290/06	C08L 63/00
(11) EP4061861	C08F 220/20	C08G 59/14
(21) EP20800138.8	G02B 1/04	C08G 59/50
(47) 01.11.2023	A61L 27/18	C11C 3/00
(87) EP2020080795	A61L 27/52	C08K 3/013
27.05.2021	(11) EP3861039	C09D 163/00
(22) 03.11.2020	(21) EP19795285.6	(11) EP3194465
(54) CONTINUOUS SOLUTION POLYMERIZATION PROCESS	(47) 01.11.2023	(21) EP15850875.4
(73) Basell Poliolefine Italia S.r.l.	(87) FR2019052303	(47) 01.11.2023
(72) ARICH DE FINETTI, Nicolò BAITA, Pietro MAZZUCCO, Antonio PICA, Roberta	09.04.2020	(87) US2015049600
(31) 19209618	(22) 30.09.2019	21.04.2016
(32) 18.11.2019	(54) HYDROGEL COMPOSITIONS	(22) 11.09.2015
(33) European Patent Office (EPO)	(73) Ophthalmic Compagnie Université de Haute Alsace	(54) TOUGHENING OF EPOXY THERMOSETS
(51) C08F 210/18	(72) STUMBÉ, Jean-François JAGU, Romain RUMIGNY, Jean-François BISTAC, Sophie COUMES, Fanny	(73) Drexel University The Government of the United States as Represented by the Secretary of the Army
C08J 9/00	(31) 1859125	(72) PALMESE, Giuseppe, R.
C08F 297/04	(32) 02.10.2018	HU, Fengshuo
C08J 9/10	(33) France	GENG, Xing
C09J 153/02	(51) C08G 18/09	LA SCALA, John, J.
C08L 53/02	C09D 175/04	(31) 201462049806 P
(11) EP3853274	C08G 18/02	(32) 12.09.2014
(21) EP19899386.7	C08G 18/18	(33) United States of America
(47) 01.11.2023	C08G 18/28	(51) C08G 59/16
(87) IB2019001434	C08G 18/62	C08G 59/18
25.06.2020	C08G 18/73	C08G 59/40
(22) 10.12.2019	C08G 18/78	C08G 59/42
(54) DUAL COMPOSITION BLOCK COPOLYMERS	C08G 18/79	C08G 59/50
(73) Dynasol Elastómeros, S.A.de C.V.	(11) EP3553104	C08K 5/00
(72) ELIZARRARAS MAYA, Daniel, Abraham	(21) EP17877873.4	C08K 5/17
	(47) 01.11.2023	C08K 5/3445
	(87) JP2017043811	
	14.06.2018	

C09J 163/00	(54) NEW FORMULATION METHODOLOGY FOR DISTORTIONAL THERMOSETS	(54) TWO-COMPONENT EPOXY RESIN PAINT
C08L 9/02	(73) The Boeing Company	(73) The Sherwin-Williams Company
C08L 63/00	(72) CHRISTENSEN, Stephen	(72) XU, Wanjun
C09J 7/35	TUCKER, Samuel J.	YANG, Fan
C09J 7/10	WIGGINS, Jeffrey S.	PEI, Daqian
(11) EP3713984	(31) 201313963745	(31) 201610242602
(21) EP18807987.5	(32) 09.08.2013	(32) 19.04.2016
(47) 01.11.2023	(33) United States of America	(33) China
(87) EP2018082358	<hr/>	<hr/>
31.05.2019	(51) C08G 59/24	(51) C08G 77/04
(22) 23.11.2018	C08L 61/34	C08L 83/04
(54) ADHESIVE TAPES BASED ON EPOXY RESIN REACTIVE ADHESIVES	C08G 59/50	C10M 107/50
(73) TESA SE	C08G 59/62	C10M 137/12
(72) SCHUH, Christian	C08G 59/64	(11) EP3455282
KIRPICENOK, Olga	C08L 79/04	(21) EP17795195.1
(31) 102017221072	C08G 14/06	(47) 01.11.2023
(32) 24.11.2017	(11) EP3450499	(87) AU2017050435
(33) Germany	(21) EP17789729.5	16.11.2017
(51) C08G 59/17	(47) 01.11.2023	(22) 11.05.2017
C08L 63/10	(87) JP2017017066	(54) POLYSILOXANE HYDRAULIC FLUIDS
(11) EP3898755	02.11.2017	(73) Commonwealth Scientific and Industrial Research Organisation
(21) EP19845768.1	(22) 28.04.2017	The Boeing Company
(47) 01.11.2023	(54) COMPOSITION FOR CURABLE RESIN, AND CURED PRODUCT THEREOF	(72) BALLARD, Mathew John
(87) FR2019053105	(73) ENEOS Corporation	CASEY, Philip Stephen
25.06.2020	(72) MINAMI Masaki	HOLMES, Susan Wan-Yi
(22) 17.12.2019	KAMEYAMA Atsushi	WAY, Cameron David
(54) RESIN COMPOSITION COMPRISING A SPECIFIC CROSSLINKING AGENT	UENO Ryuichi	WINZENBERG, Kevin Norman
(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN	(31) 2016188911	HULL, James
(72) PATAUT, Gaël	2016091115	(31) 201662334555 P
DOISNEAU, David	(32) 27.09.2016	(32) 11.05.2016
LUIZ, Laura	28.04.2016	(33) United States of America
LETESSIER, Julien	(33) Japan	<hr/>
(31) 1900926	Japan	(51) C08J 7/043
1873157	<hr/>	C08J 7/046
(32) 31.01.2019	(51) C08G 59/32	C08J 7/054
18.12.2018	C08G 64/42	C08J 7/056
(33) France	C08J 11/28	G02B 1/18
France	(11) EP4155336	C08J 3/24
(51) C08G 59/20	(21) EP22193764.2	G02B 27/00
C08G 59/24	(47) 01.11.2023	A61F 9/02
C08G 59/50	(22) 02.09.2022	B32B 27/30
C08G 59/66	(54) CARBONATE-CONTAINING EPOXY RESIN, MANUFACTURING METHOD THEREOF, EPOXY CURABLE PRODUCT PREPARED THEREBY AND METHOD FOR DEGRADING EPOXY CURABLE PRODUCT	B32B 3/30
C09J 163/00	(73) Swancor Innovation & Incubation Co., Ltd.	C08F 2/46
(11) EP3950761	(72) LIN, Ching-Hsuan	G02B 1/118
(21) EP20778099.0	YEH, Ren-Yu	C08J 7/04
(47) 01.11.2023	CHEN, Yi-Chun	(11) EP3176613
(87) JP2020013956	WANG, Meng-Wei	(21) EP15827016.5
01.10.2020	CHEN, Wen-Chang	(47) 01.11.2023
(22) 27.03.2020	(31) 110136094	(87) JP2015069710
(54) CURABLE RESIN COMPOSITION	(32) 28.09.2021	04.02.2016
(73) Adeka Corporation	(33) Taiwan, Chinese Taipei	(22) 09.07.2015
(72) KOBAYASHI, Shota	<hr/>	(54) TRANSPARENT LAMINATE
TAMASO, Ken-ichi	(51) C08G 59/56	(73) Dexerials Corporation
OGAWA, Ryo	C09D 163/00	(72) KAKINUMA, Masayasu
NAGAMATSU, Tamotsu	C08L 77/00	TAKENOUCHI, Masaki
(31) 2019060745	C08L 63/00	OHTA, Eiji
(32) 27.03.2019	C08G 59/60	KAWAMURA, Satoshi
(33) Japan	(11) EP3445797	OGAWA, Maki
(51) C08G 59/24	(21) EP17786414.7	(31) 2015057618
C08G 59/50	(47) 01.11.2023	2014154450
C08J 5/24	(87) US2017027941	(32) 20.03.2015
(11) EP3613790	26.10.2017	30.07.2014
(21) EP19201804.2	(22) 17.04.2017	(33) Japan
(47) 01.11.2023		Japan
(22) 08.08.2014		<hr/>
		(51) C08J 9/06
		C08J 9/10
		C08J 9/00
		(11) EP3202831

(21) EP15847441.1	C08L 1/12	(22) 05.12.2018
(47) 01.11.2023	(11) EP3960803	(54) COMPOSITION
(87) JP2015077600	(21) EP20795333.2	(73) Kao Corporation
07.04.2016	(47) 01.11.2023	(72) SAITO, Takanori
(22) 29.09.2015	(87) JP2020017142	IMORI, Yoichiro
(54) POLYOLEFIN RESIN FOAM SHEET	29.10.2020	KOYAMA, Akihiro
AND ADHESIVE TAPE	(22) 21.04.2020	YAMAWAKI, Yukiko
(73) Sekisui Chemical Co., Ltd.	(54) CELLULOSE ESTER COMPOSITION	(31) 2017234709
(72) YACHI, Koji	(73) Daicel Miraizu Ltd.	(32) 06.12.2017
MATSUKI, Shigeki	(72) OGIHARA, Takayuki	(33) Japan
MATSUMOTO, Asami	UEDA, Kenji	<hr/>
(31) 2015063308	KUMAGAE, Akihiko	(51) C08L 13/02
2014202146	SHIROYA, Akihiko	C08F 236/06
(32) 25.03.2015	(31) 2020037642	C08F 236/12
30.09.2014	2019080683	(11) EP3739000
(33) Japan	(32) 05.03.2020	(21) EP19738585.9
Japan	22.04.2019	(47) 01.11.2023
<hr/>	(33) Japan	(87) JP2019000541
(51) C08J 9/18	Japan	18.07.2019
C08J 9/12	<hr/>	(22) 10.01.2019
C08J 9/224	(51) C08K 5/20	(54) LATEX COMPOSITION
C08J 9/232	C08L 23/08	(73) Zeon Corporation
(11) EP3988605	C08L 23/10	(72) HAYASAKA, Kentaro
(21) EP21201164.7	C08L 53/00	(31) 2018003073
(47) 01.11.2023	(11) EP3950807	(32) 12.01.2018
(22) 04.09.2019	(21) EP20778694.8	(33) Japan
(54) POLYAMIDE RESIN FOAMED	(47) 01.11.2023	<hr/>
PARTICLES AND METHOD FOR	(87) JP2020012854	(51) C08L 23/06
PRODUCING SAME	01.10.2020	C08K 3/22
(73) JSP Corporation	(22) 24.03.2020	(11) EP3510095
(72) HAYASHI, Tatsuya	(54) OLEFIN-BASED POLYMER	(21) EP16766901.9
HIRA, Akinobu	COMPOSITION	(47) 01.11.2023
(31) 2018165318	(73) Mitsui Chemicals, Inc.	(87) EP2016071359
PCT/JP2019/019915	(72) ISHIKAWA, Ryo	15.03.2018
(32) 04.09.2018	SASAKI, Masatoshi	(22) 09.09.2016
20.05.2019	KUSUMOTO, Remi	(54) ELONGATED ARTICLE WITH GOOD
(33) Japan	(31) 2019056712	FLEXIBILITY AND HIGH FLAME
World Intellectual Property Office (WIPO)	(32) 25.03.2019	RETARDANCY
<hr/>	(33) Japan	(73) LEONI Kabel GmbH
(51) C08J 9/36	<hr/>	(72) DELINEAU, Lydie
B81C 1/00	(51) C08K 5/43	EGLI, Martin
B82Y 30/00	F16L 59/02	EGGERT, Melanie
C12N 11/08	(11) EP3555190	KRUMP, Henrich
C08J 7/04	(21) EP17825571.7	KWAPULINSKY, Vladimir
C08J 9/00	(47) 01.11.2023	<hr/>
(11) EP3759161	(87) FR2017053520	(51) C08L 23/06
(21) EP19706702.8	21.06.2018	C08K 3/22
(47) 01.11.2023	(22) 12.12.2017	(11) EP3510096
(87) EP2019054859	(54) FIRE-RESISTANT AND ALKALI-	(21) EP16770902.1
06.09.2019	RESISTANT SURFACING PRODUCT	(47) 01.11.2023
(22) 27.02.2019	FOR FOAM BOARDS	(87) EP2016071360
(54) METHOD FOR DEPOSITING NANO-	(73) Saint-Gobain Adfors	15.03.2018
OBJECTS ON THE SURFACE OF A	(72) SILIOC, Christelle	(22) 09.09.2016
POLYMER GEL COMPRISING ZONES	SOLARSKI, Samuel	(54) STRAND-SHAPED ELEMENTS AND
WITH DISTINCT RIGIDITIES	(31) 1662649	POLYMER COMPOSITION FOR
(73) Centre National de la Recherche	(32) 16.12.2016	PREPARING SAME
Scientifique	(33) France	(73) LEONI Kabel GmbH
Université Grenoble Alpes	<hr/>	(72) DELINEAU, Lydie
Commissariat à l'Énergie Atomique et	(51) C08L 1/26	EGLI, Martin
aux Énergies Alternatives	C11D 1/52	EGGERT, Melanie
(72) NICOLAS, Alice	C11D 1/83	KRUMP, Henrich
MIGDAL, Camille	C11D 3/37	KWAPULINSKY, Vladimir
LOPEZ SOLER, Eline	C08L 1/28	<hr/>
(31) 1851833	C08B 11/08	(51) C08L 23/08
(32) 02.03.2018	C08B 11/20	C08K 5/50
(33) France	C08B 11/145	C08K 5/44
<hr/>	(11) EP3722358	C08K 3/04
(51) C08K 5/11	(21) EP18885583.7	C08K 3/06
C08L 1/08	(47) 01.11.2023	B60C 1/00
C08L 1/10	(87) JP2018044720	C08K 5/40
C08J 5/18	13.06.2019	(11) EP3849823
		(21) EP19786648.6

- (47) 01.11.2023  
(87) FR2019052098  
19.03.2020  
(22) 11.09.2019  
(54) RUBBER COMPOSITION  
(73) COMPAGNIE GENERALE DES  
ETABLISSEMENTS MICHELIN  
(72) ARAUJO DA SILVA, José-Carlos  
LEMERLE, Frédéric  
TRIGUJEL, Aurélie  
(31) 1858136  
(32) 11.09.2018  
(33) France
- 
- (51) C08L 27/06  
C08L 39/06  
C08F 2/02  
C08F 14/06  
C08F 2/44  
C08F 259/04  
(11) EP4047053  
(21) EP21833152.8  
(47) 01.11.2023  
(87) KR2021008027  
06.01.2022  
(22) 25.06.2021  
(54) METHOD FOR PRODUCING VINYL  
CHLORIDE-BASED POLYMER  
COMPOSITE  
(73) LG Chem, Ltd.  
(72) KIM, Kun Ji  
AHN, Seong Yong  
BAE, Heung Kwon  
LEE, Se Woong  
HA, Hyun Kyou  
(31) 20200082134  
(32) 03.07.2020  
(33) Korea (Republic)
- 
- (51) C08L 33/26  
(11) EP2989163  
(21) EP14714981.9  
(47) 01.11.2023  
(87) EP2014056277  
30.10.2014  
(22) 28.03.2014  
(54) COMPOSITION FOR TREATING  
SUSPENSIONS OF SOLID PARTICLES  
IN WATER AND METHOD USING SAID  
COMPOSITION  
(73) SNF Group  
(72) FAVERO, Cedrick  
TIZZOTTI, Morgan  
DANG-VU, Trong  
(31) 201313870746  
(32) 25.04.2013  
(33) United States of America
- 
- (51) C08L 61/10  
C08L 1/02  
C08L 1/26  
C08L 1/28  
C08L 61/04  
C08L 61/06  
(11) EP3712207  
(21) EP17932235.9  
(47) 01.11.2023  
(87) JP2017040980  
23.05.2019  
(22) 14.11.2017
- (54) MICROFIBRILLATED-CELLULOSE-  
CONTAINING COMPOSITION,  
PREPREG, MOLDED BODY, AND  
METHOD FOR MANUFACTURING  
PREPREG  
(73) Risho Kogyo Co., Ltd.  
(72) OKUMURA, Hiroshi  
NISHIHARA, Hiroki
- 
- (51) C08L 61/34  
C08G 14/073  
C08G 59/56  
C08G 73/00  
C08G 73/12  
C08L 63/00  
C09J 9/02  
C09J 11/06  
C09J 161/34  
C09J 163/00  
C09J 179/04  
H01L 21/288  
C08L 79/02  
(11) EP3279261  
(21) EP16772709.8  
(47) 01.11.2023  
(87) JP2016059842  
06.10.2016  
(22) 28.03.2016  
(54) RESIN COMPOSITION,  
ELECTROCONDUCTIVE RESIN  
COMPOSITION, ADHESIVE,  
ELECTROCONDUCTIVE ADHESIVE,  
PASTE FOR FORMING ELECTRODES,  
AND SEMICONDUCTOR DEVICE  
(73) Namics Corporation  
(72) YAMAGUCHI, Takashi  
ABE, Shinichi  
(31) 2015071462  
(32) 31.03.2015  
(33) Japan
- 
- (51) C08L 69/00  
C08K 5/098  
C08K 5/42  
C08L 27/18  
C08L 83/04  
G02B 1/04  
(11) EP3336145  
(21) EP18154600.3  
(47) 01.11.2023  
(22) 26.05.2011  
(54) POLYCARBONATE RESIN  
COMPOSITION AND MOLDED  
POLYCARBONATE RESIN  
(73) Idemitsu Kosan Co., Ltd  
(72) KAWAI, Naoyuki  
(31) 2010121932  
2010121933  
(32) 27.05.2010  
27.05.2010  
(33) Japan  
Japan
- 
- (51) C09D 1/00  
B05D 3/02  
B05D 7/00  
C09D 5/16  
C09D 7/61  
F24C 15/00  
C03C 10/00  
C03C 17/25
- (11) EP3851498  
(21) EP19860486.0  
(47) 01.11.2023  
(87) JP2019035011  
19.03.2020  
(22) 05.09.2019  
(54) ANTI-FOULING COATING FILM, GLASS  
CERAMIC PRODUCT, COATING  
MATERIAL FOR FORMING ANTI-  
FOULING COATING FILM, AND  
METHOD FOR PRODUCING GLASS  
CERAMIC PRODUCT  
(73) Sumitomo Osaka Cement Co., Ltd.  
(72) MAEDA, Daisaku  
SHIGERU, Keijiro  
(31) 2018171189  
(32) 13.09.2018  
(33) Japan
- 
- (51) C09D 5/08  
C09D 7/65  
C23C 22/62  
C23C 22/66  
C23C 22/68  
C23C 22/73  
(11) EP4073181  
(21) EP20830093.9  
(47) 01.11.2023  
(87) EP2020085343  
17.06.2021  
(22) 09.12.2020  
(54) COATING FOR CORROSION  
PROTECTION  
(73) BioPolymer Products of Sweden AB  
(72) QVIST, Magnus  
(31) 1951419  
(32) 09.12.2019  
(33) Sweden
- 
- (51) C09D 7/00  
C09D 5/02  
(11) EP3867320  
(21) EP18937218.8  
(47) 01.11.2023  
(87) CN2018110414  
23.04.2020  
(22) 16.10.2018  
(54) AQUEOUS COATING COMPOSITIONS  
(73) Dow Global Technologies LLC  
(72) SHEN, Cheng  
LI, Yan  
JI, Jing
- 
- (51) C09D 11/10  
C09D 11/32  
(11) EP4143266  
(21) EP22747387.3  
(47) 01.11.2023  
(87) GB2022051816  
19.01.2023  
(22) 13.07.2022  
(54) STABLE INKJET DISPERSIONS AND  
INKS  
(73) Sun Chemical Corporation  
(72) WALLACE, Paul  
WHITEHEAD, Ian  
GENTIL, Yves  
(31) 202163221058 P  
(32) 13.07.2021  
(33) United States of America
- 
- (51) C09D 11/18

C09D 11/17	11.06.2020	PARK, Yong Su
C09D 11/50	(22) 09.12.2019	HWANG, Yoontae
(11) EP4015590	(54) INKJET PRINTING OF CONDUCTIVE	KIM, Hyo Min
(21) EP20315498.4	TRACES	SEO, Sungjong
(47) 01.11.2023	(73) UEA Enterprises Limited	(31) 20190109115
(22) 18.12.2020	(72) MAVURI, Arunakumari	20180164124
(54) COLOR-CHANGE INK	MAYES, Andrew	(32) 03.09.2019
(73) Soci�t� BIC	ALEXANDER, Matthew Simon	18.12.2018
(72) CAFFIER, Guillaume F.	(31) 201819982	(33) Korea (Republic)
LIU, Wing-yam	(32) 07.12.2018	Korea (Republic)
(51) C09D 11/30	(33) United Kingdom	(51) C09J 175/08
C09D 11/101	(51) C09F 1/04	C09J 175/06
C09D 11/50	(11) EP3945120	C09J 175/04
A45D 40/20	(21) EP20187854.3	C09J 133/08
A61K 8/06	(47) 01.11.2023	C09J 125/14
A61K 8/73	(22) 27.07.2020	B32B 7/12
A61Q 19/00	(54) SURFACTANT, DISPERSION AND	B32B 27/12
B41J 2/04	ADHESIVE COMPOSITION	C08G 18/73
B41J 11/00	(73) Lawter, Inc	C08G 18/75
B43K 8/00	(72) HAZEN, John	C08G 18/76
B41J 2/10	(51) C09J 7/40	C08G 18/70
(11) EP3774348	(11) EP3626793	C08G 18/48
(21) EP19717257.0	(21) EP19198807.0	C08G 18/42
(47) 01.11.2023	(47) 01.11.2023	(11) EP3609969
(87) EP2019058677	(22) 20.09.2019	(21) EP17905151.1
10.10.2019	(54) ADHESIVE TAPE HAVING A	(47) 01.11.2023
(22) 05.04.2019	STRUCTURED PULL-OFF STRIP AND	(87) CN2017080065
(54) COMPOSITION COMPRISING	METHOD FOR MANUFACTURING	18.10.2018
MAGNETIC COLOR CHANGEABLE	SUCH AN ADHESIVE TAPE	(22) 11.04.2017
MICROCAPSULES AND RELATED	(73) tesa SE	(54) WATER BORNE DRY LAMINATION
CARTIDGE, HANDHELD WRITING	(72) WATZKE, Wilhelm	BONDING AGENT WITH HEAT
DEVICE, PRINTING METHOD AND	K�HNE, Kevin	RESISTANCE IMPROVEMENT
PRINTED MEDIUM	(31) 102018216112	(73) Dow Global Technologies LLC
(73) Soci�t� BIC	(32) 21.09.2018	Rohm and Haas Company
(72) HAN, Seung Hun	(33) Germany	(72) CHEN, Mai
HA, Jeongmi	(51) C09J 105/02	PAN, Yuanjia
CHA, Jin Sung	(11) EP3625300	WANG, Xinhong
JUNG, Woo Yong	(21) EP18727400.6	CHEN, Gaobing
RYU, Jiyoung	(47) 01.11.2023	LIU, Xinchun
JOO, Jae Hyun	(87) GB2018051367	(51) C09J 183/07
(31) 20180039860	29.11.2018	C09J 183/05
(32) 05.04.2018	(22) 21.05.2018	(11) EP3814444
(33) Korea (Republic)	(54) BINDER MATERIALS	(21) EP18924707.5
(51) C09D 11/38	(73) Materialize.X Limited	(47) 01.11.2023
C09D 11/322	(72) RASHID, Haidin Farmin	(87) CN2018093727
(11) EP3856860	FIORELLI, Fabio	02.01.2020
(21) EP19769594.3	HITZ, Adrien Stephane	(22) 29.06.2018
(47) 01.11.2023	BRAND, Michael	(54) ANCHORAGE ADDITIVE AND
(87) IB2019057653	(31) 201708113	METHODS FOR ITS PREPARATION
02.04.2020	(32) 20.05.2017	AND USE
(22) 11.09.2019	(33) United Kingdom	(73) Dow Silicones Corporation
(54) CERAMIC INK FOR INKJET DIGITAL	(51) C09J 133/08	(72) JIANG, Jingui
PRINTING	C09J 11/08	LIU, Zhihua
(73) Flooring Industries Limited, SARL	C08F 220/18	ZHU, Jiayin
Sicer S.P.A.	C08F 220/06	CHEN, Wenjie
(72) MARCACCIOLO, Sergio	C08F 2/24	ZHANG, Shenglan
MENATO, Christian	C08F 2/30	(51) C09J 183/14
PAGANELLI, Mariano	(11) EP3722387	(11) EP3673027
(31) 201800008841	(21) EP19899654.8	(21) EP18779835.0
(32) 24.09.2018	(47) 01.11.2023	(47) 01.11.2023
(33) Italy	(87) KR2019011396	(87) US2018047125
(51) C09D 11/52	25.06.2020	28.02.2019
C09D 11/38	(22) 04.09.2019	(22) 21.08.2018
C09D 11/322	(54) ACRYLIC EMULSION PRESSURE-	(54) DUAL CURE ADHESIVE
(11) EP3891232	SENSITIVE ADHESIVE COMPOSITION	COMPOSITION AND METHODS FOR
(21) EP19821192.2	(73) LG CHEM, LTD.	ITS PREPARATION AND USE
(47) 01.11.2023	(72) LEE, Seungmo	(73) Dow Silicones Corporation
(87) GB2019053478	YANG, Seung Hun	(72) LU, Gang



SHEPHARD, Nick	MURATA, Takashi	(22) 29.09.2021
THOMAS, Ryan	(31) 2016154558	(54) GROUP-III NITRIDE SEMICONDUCTOR
OLSEN, Matthew	(32) 05.08.2016	NANOPARTICLES AND PRODUCTION
(31) 201762548558 P	(33) Japan	METHOD THEREOF
(32) 22.08.2017	(51) C09K 11/06	(73) STANLEY ELECTRIC CO., LTD.
(33) United States of America	(11) EP3892703	(72) KAZAMA, Takuya
(51) C09K 8/524	(21) EP20908460.7	TAMURA, Wataru
E21B 37/06	(47) 01.11.2023	MIYAKE, Yasuyuki
(11) EP3377726	(87) KR2020017900	OMORI, Takayuki
(21) EP16867201.2	08.07.2021	MURAMATSU, Atsushi
(47) 01.11.2023	(22) 09.12.2020	KANIE, Kiyoshi
(87) US2016062711	(54) METHOD FOR PREPARING	(31) 2020164727
26.05.2017	PEROVSKITE NANOCRYSTAL	(32) 30.09.2020
(22) 18.11.2016	PARTICLES BY MEANS OF FLUID	(33) Japan
(54) SOLID CHEMICALS INJECTION	MOLD	(51) C09K 11/77
SYSTEM FOR OIL FIELD	(73) POSTECH Research and Business	A61L 2/10
APPLICATIONS	Development Foundation	C02F 1/32
(73) Ecolab Usa Inc.	(72) NOH, Yongyoung	H01J 61/00
(72) FOUCHARD, David Marc Daniel	KIM, Youngki	H01J 61/44
(31) 201514946244	HONG, Jisu	(11) EP3850059
(32) 19.11.2015	(31) 20200165538	(21) EP19794419.2
(33) United States of America	20200000591	(47) 01.11.2023
(51) C09K 11/02	(32) 01.12.2020	(87) EP2019074518
F21V 1/17	03.01.2020	19.03.2020
C03B 19/06	(33) Korea (Republic)	(22) 13.09.2019
C03C 4/12	Korea (Republic)	(54) USE OF A PHOSPHOR FOR A
C03C 14/00	(51) C09K 11/06	UV EMITTING DEVICE AND A UV
F21V 9/00	C09K 11/02	GENERATING DEVICE UTILIZING
F21V 9/08	C09K 11/56	SUCH A PHOSPHOR
G02B 5/20	C09K 11/88	(73) Xylem Europe GmbH
H05B 33/14	H10K 50/115	(72) SALVERMOSER, Manfred
H10K 50/11	H10K 85/60	BROSTERMANN, Mike
(11) EP3495722	(11) EP4033555	KEIL, Jan-Niklas
(21) EP17836778.5	(21) EP19945418.2	JÜSTEL, Thomas
(47) 01.11.2023	(47) 01.11.2023	(31) 18194253
(87) JP2017026511	(87) CN2019106235	(32) 13.09.2018
08.02.2018	25.03.2021	(33) European Patent Office (EPO)
(22) 21.07.2017	(22) 17.09.2019	(51) C09K 19/30
(54) WAVELENGTH CONVERSION	(54) QUANTUM DOT LIGAND, QUANTUM	C09K 19/12
MEMBER AND PRODUCTION METHOD	DOT MATERIAL, AND QUANTUM DOT	C09K 19/34
THEREFOR	LIGHT EMITTING DEVICE	C09K 19/32
(73) Nippon Electric Glass Co., Ltd.	(73) BOE Technology Group Co., Ltd.	C09K 19/04
(72) SHIMIZU, Hiroyuki	(72) MEI, Wenhai	(11) EP3679111
ASANO, Hideki	ZHANG, Zhenqi	(21) EP18765116.1
MURATA, Takashi	ZHANG, Xiaoyuan	(47) 01.11.2023
(31) 2016154560	(51) C09K 11/06	(87) EP2018073795
(32) 05.08.2016	H01B 1/02	14.03.2019
(33) Japan	H01B 3/00	(22) 05.09.2018
(51) C09K 11/02	G01N 21/64	(54) LIQUID-CRYSTALLINE MEDIUM
F21V 1/17	G01N 21/91	AND LIQUID-CRYSTAL DISPLAY
H05B 33/14	H01R 13/03	COMPRISING THE SAME
G02B 5/20	(11) EP4056666	(73) Merck Patent GmbH
F21V 9/00	(21) EP22161023.1	(72) MANABE, Atsutaka
F21V 9/08	(47) 01.11.2023	BROCKE, Constanze
C03B 19/06	(22) 09.03.2022	SCHULER, Brigitte
H10K 50/11	(54) ELECTRICAL TERMINAL WITH	(31) 17190212
(11) EP3495721	PASSIVATION LAYER	(32) 08.09.2017
(21) EP17836776.9	(73) Aptiv Technologies Limited	(33) European Patent Office (EPO)
(47) 01.11.2023	(72) PORTE, Maxime	(51) C09K 19/54
(87) JP2017026509	(31) 202103380	C09K 19/04
08.02.2018	(32) 11.03.2021	(11) EP3891251
(22) 21.07.2017	(33) United Kingdom	(21) EP19809488.0
(54) WAVELENGTH CONVERSION	(51) C09K 11/08	(47) 01.11.2023
MEMBER AND PRODUCTION METHOD	C09K 11/64	(87) EP2019083058
THEREFOR	C09K 11/62	11.06.2020
(73) Nippon Electric Glass Co., Ltd.	(11) EP3981856	(22) 29.11.2019
(72) SHIMIZU, Hiroyuki	(21) EP21199949.5	
ASANO, Hideki	(47) 01.11.2023	

(54) POLYMERISABLE LIQUID CRYSTAL MATERIAL AND POLYMERISED LIQUID CRYSTAL FILM	Leflaive, Philibert Touzalin, Olivier Pucci, Annick	C07C 69/612 C07C 69/614 C07C 69/78
(73) Merck Patent GmbH	Largeteau, Delphine	C10N 20/02
(72) CHOI, Yong-Hyun	(31) 1362892	C10N 20/00
KANG, Jae-Hyun	(32) 18.12.2013	C10N 30/00
YOON, Hyun-Jin	(33) France	C10N 40/25
(31) 18209815	(51) C10L 1/02	(11) EP3676240
(32) 03.12.2018	C10L 1/18	(21) EP18850007.8
(33) European Patent Office (EPO)	C10L 1/182	(47) 01.11.2023
(51) C10B 5/02	(11) EP4028493	(87) US2018034416
C10B 21/20	(21) EP20807343.7	07.03.2019
C10B 21/18	(47) 01.11.2023	(22) 24.05.2018
C10B 21/22	(87) EP2020082046	(54) ESTER COMPOUNDS AND LUBRICATING OIL COMPOSITIONS CONTAINING SAME
(11) EP3681979	27.05.2021	(73) ExxonMobil Chemical Patents Inc.
(21) EP18769665.3	(22) 13.11.2020	(72) PATIL, Abhimanyu, O.
(47) 01.11.2023	(54) GASOLINE COMPOSITION WITH OCTANE SYNERGY	LEWIS, Kyle, G.
(87) EP2018074702	(73) Neste Oyj	BODIGE, Satish
21.03.2019	(72) KIISKI, Ulla	ZUSHMA, Stephen
(22) 13.09.2018	KARVO, Anna	(31) 201762551068 P
(54) COKE OVEN DEVICE WITH ECCENTRIC INLETS FOR PRODUCING COKE AND METHOD FOR OPERATING THE COKE OVEN DEVICE AND CONTROL SYSTEM AND USE	KOLEHMAINEN, Terhi	17199079
(73) thyssenkrupp Industrial Solutions AG	(31) 20196000	(32) 28.08.2017
thyssenkrupp AG	(32) 21.11.2019	30.10.2017
(72) KIM, Ronald	(33) Finland	(33) United States of America
TSCHIRLEY, Thomas	(51) C10L 3/08	European Patent Office (EPO)
BUCZYNSKI, Rafal Grzegorz	C12M 1/107	(51) C10M 137/10
(31) 102017216436	C12M 1/00	C10M 159/12
102017216439	(11) EP4079829	C07F 9/165
102017216437	(21) EP22166781.9	C10N 20/04
(32) 15.09.2017	(47) 01.11.2023	C10N 30/00
15.09.2017	(22) 05.04.2022	C10N 30/06
15.09.2017	(54) SAFETY SYSTEM FOR OPERATIONS ON A DIGESTER IN THE PRESENCE OF BIOGAS	C10N 30/08
(33) Germany	(73) Alvus S.r.l.	C10N 40/00
Germany	(72) Erckert, Christof	C10N 40/08
Germany	(31) 202100009929	C10N 40/12
(51) C10C 3/14	(32) 20.04.2021	C10N 40/20
B01J 2/30	(33) Italy	(11) EP3077488
C08L 95/00	(51) C10L 5/46	(21) EP14868196.8
C08J 3/12	C10L 9/08	(47) 01.11.2023
(11) EP3510124	C10B 7/10	(87) US2014068604
(21) EP17768495.8	C10J 3/00	11.06.2015
(47) 01.11.2023	C10J 3/74	(22) 04.12.2014
(87) FR2017052349	B01J 8/10	(54) COMPOSITION AND METHOD OF FORMING THE SAME
15.03.2018	(11) EP3775115	(73) BASF SE
(22) 05.09.2017	(21) EP19718544.0	(72) HOEY, Michael Dennis
(54) PITCH GRANULES WHICH ARE SOLID AT ROOM TEMPERATURE	(47) 01.11.2023	SCANLON, Eugene
(73) TotalEnergies OneTech	(87) US2019025844	MENSAH, Frederick
(72) MESNIL, Jean-Pierre	10.10.2019	BROWN, Douglas, S.
(31) 1658338	(22) 04.04.2019	JUNG, Alfred, Karl
(32) 08.09.2016	(54) PROCESS VESSEL FOR FORMING FUEL COMPOSITIONS AND RELATED SYSTEMS AND METHODS	SEIBEL, Shaun, Robert
(33) France	(73) Ecogensus, LLC	HASENHUETL, Patrick, Daniel
(51) C10G 45/04	(72) OSTVIK, Bjornulf	SCHMITT, Ralf Lorenz
C10G 45/08	LUKAS, Michael D.	(31) 201361912698 P
C10G 65/04	(31) 201862652840 P	(32) 06.12.2013
(11) EP2886629	(32) 04.04.2018	(33) United States of America
(21) EP14306951.6	(33) United States of America	(51) C10M 149/02
(47) 01.11.2023	(51) C10M 105/34	C10M 149/06
(22) 04.12.2014	C07C 69/003	C10N 10/04
(54) PROCESS FOR THE HYDRODESULFURATION OF HYDROCARBON FRACTIONS	C07C 69/017	C10N 20/04
(73) IFP Energies nouvelles	C07C 67/08	C10N 30/02
(72) Gornay, Julien	C07C 69/14	C10N 30/04
	C07C 69/24	C10N 30/00
	C07C 69/26	C10N 40/08
		C10N 60/00
		C10N 30/10

(11) EP3458554	(72) VANHERCKE, Thomas	(22) 31.01.2017
(21) EP17722226.2	PETRIE, James, Robertson	(54) ETHOXYLATED DIOLS AND
(47) 01.11.2023	EL TAHCHY, Anna	COMPOSITIONS CONTAINING
(87) US2017028306	SINGH, Surinder, Pal	ETHOXYLATED DIOLS
23.11.2017	REYNOLDS, Kyle	(73) The Procter & Gamble Company
(22) 19.04.2017	LIU, Qing	(72) SCHEIBEL, Jeffrey, John
(54) HYDRAULIC FLUID COMPOSITION	LEITA, Benjamin, Aldo	CRON, Scott, Leroy
(73) The Lubrizol Corporation	(31) 2015900284	(31) 201615058526
(72) KNAPTON, Daniel, J.	2015900084	(32) 02.03.2016
CRESSEY, David	2014902617	(33) United States of America
VISGER, Daniel, C.	(32) 30.01.2015	<hr/>
(31) 201662338168 P	13.01.2015	(51) C11D 1/825
(32) 18.05.2016	07.07.2014	C11D 3/37
(33) United States of America	(33) Australia	C11D 1/00
<hr/>	Australia	C11D 1/72
(51) C10M 169/00	Australia	C11D 11/00
(11) EP3512927	(51) C11D 1/12	C11D 17/00
(21) EP17722255.0	C11D 3/08	(11) EP3325593
(47) 01.11.2023	C11D 3/10	(21) EP16732845.9
(87) US2017051519	C11D 1/14	(47) 01.11.2023
22.03.2018	C11D 1/22	(87) US2016037479
(22) 14.09.2017	C11D 3/04	26.01.2017
(54) LUBRICATING COMPOSITION	C11D 9/00	(22) 15.06.2016
COMPRISING SULFONATE	C11D 11/00	(54) HARD SURFACE CLEANING
DETERGENT AND ASHLESS	C11D 17/06	COMPOSITION WITH PROPELLANT
HYDROCARBYL PHENOLIC	(11) EP3790950	(73) S.C. Johnson & Son, Inc.
COMPOUND	(21) EP18917802.3	(72) GONCALVES RODRIGUES, Juan, Jose
(73) The Lubrizol Corporation	(47) 01.11.2023	(31) 201615171629
(72) ZHANG, Yanshi	(87) CN2018086291	201562193905 P
DELBRIDGE, Ewan	14.11.2019	(32) 02.06.2016
GALIC RAGUZ, Mary	(22) 10.05.2018	17.07.2015
MAYHEW, Alexandra	(54) DETERGENT GRANULE	(33) United States of America
DEREVJANIK, Thomas	(73) The Procter & Gamble Company	United States of America
LOOP, John	(72) XU, Dan	<hr/>
(31) 201662394357 P	SHEN, Rui	(51) C11D 3/00
(32) 14.09.2016	TIAN, Xiao	C11D 3/37
(33) United States of America	GUAN, Zhe	C11D 17/00
<hr/>	HUANG, Xu	C11D 17/04
(51) C10M 169/06	(51) C11D 1/12	C11D 11/00
F16C 13/00	C11D 3/10	C11D 3/50
G03G 15/20	C11D 3/60	(11) EP3580316
(11) EP3783088	C11D 1/14	(21) EP18704512.5
(21) EP20190416.6	C11D 1/37	(47) 01.11.2023
(47) 01.11.2023	(11) EP3374482	(87) EP2018053030
(22) 11.08.2020	(21) EP15908090.2	16.08.2018
(54) LUBRICANT COMPOSITION, SLIDING	(47) 01.11.2023	(22) 07.02.2018
APPARATUS, FIXING APPARATUS,	(87) CN2015094512	(54) GARMENT LAUNDERING SYSTEM
AND IMAGE-FORMING APPARATUS	18.05.2017	(73) Unilever IP Holdings B.V.
(73) Canon Kabushiki Kaisha	(22) 13.11.2015	(72) COOKE, Deborah, Jane
(72) OSHIMA, Yoshihito	(54) CLEANING COMPOSITIONS	LYON, Helen, Elspeth
MIYAUCH, Yohei	CONTAINING BRANCHED ALKYL	(31) 17155838
NOTOYA, Yasuharu	SULFATE SURFACTANTS AND LINEAR	(32) 13.02.2017
(31) 2019153016	ALKYL SULFATE SURFACTANTS	(33) European Patent Office (EPO)
(32) 23.08.2019	(73) The Procter & Gamble Company	<hr/>
(33) Japan	(72) TANG, Ming	(51) C11D 3/16
<hr/>	CHEN, Qing	C11D 3/39
(51) C11B 1/10	LI, Shuo	(11) EP3666870
A01H 1/00	(51) C11D 1/12	(21) EP20156333.5
C11C 3/00	C11D 3/20	(47) 01.11.2023
C11C 3/12	C11D 3/37	(22) 24.10.2013
C11B 3/00	C11D 11/00	(54) COMPOSITIONS AND METHODS FOR
C11B 3/02	C11D 17/00	REMOVING SOILS FROM SURFACES
C11C 3/10	C07C 43/11	(73) Ecolab USA Inc.
(11) EP2966157	(11) EP3423557	(72) Foster, Tobias Neil
(21) EP15175769.7	(21) EP17704635.6	Kullwitz, Dirk
(47) 01.11.2023	(47) 01.11.2023	Hüsken, Beana
(22) 07.07.2015	(87) US2017015739	<hr/>
(54) PROCESSES FOR PRODUCING	08.09.2017	(51) C11D 3/386
INDUSTRIAL PRODUCTS FROM		(11) EP3357994
PLANT LIPIDS		(21) EP18154223.4
(73) Nuseed Global Innovation Ltd		(47) 01.11.2023
		(22) 30.01.2018

(54) CLEANING COMPOSITIONS COMPRISING AMYLASE VARIANTS	C11D 1/22 C11D 1/29	(87) JP2019029730 05.03.2020
(73) The Procter & Gamble Company	C11D 1/37	(22) 30.07.2019
(72) ANDERSEN, Carsten	C11D 3/37	(54) ALCOHOLIC BEVERAGE IN SELECTIVELY LIGHT-BLOCKING CONTAINER
GHADIYARAM, Chakshumathi	C11D 11/00	(73) Suntory Holdings Limited
IYER, Padma Venkatachalam	C11D 17/00	(72) MATSUMOTO, Takehiro
SAINATHAN, Rajendra Kulothungan	(11) EP3743504	(31) 2018163365
DAMAGER, Iben	(21) EP18902635.4	(32) 31.08.2018
(31) 201711003745	(47) 01.11.2023	(33) Japan
(32) 01.02.2017	(87) CN2018074284	(51) C12M 1/00
(33) India	01.08.2019	(11) EP4105311
(51) C11D 3/40	(22) 26.01.2018	(21) EP21179865.7
C11D 3/42	(54) DETERGENT GRANULES WITH HIGH ANIONIC SURFACTANT CONTENT	(47) 01.11.2023
C11D 11/00	(73) The Procter & Gamble Company	(22) 16.06.2021
(11) EP3694977	(72) XU, Dan	(54) DEVICE AND METHOD FOR SEPARATING CELLS FROM A CULTURE MEDIUM IN A BIOPROCESS
(21) EP18796252.7	SHEN, Rui	(73) Sartorius Stedim Biotech GmbH
(47) 01.11.2023	TIAN, Xiao	(72) DIEL, Bernhard
(87) US2018055319	(51) C12C 13/00	(51) C12M 1/00
18.04.2019	A47J 31/44	C12M 3/06
(22) 11.10.2018	C12C 13/10	C12M 1/02
(54) LEUCO COLORANTS AS BLUING AGENTS IN LAUNDRY CARE COMPOSITIONS	C12G 1/02	(11) EP3149145
(73) THE PROCTER & GAMBLE COMPANY	(11) EP3013935	(21) EP15720315.9
(72) MIRACLE, Gregory, Scot	(21) EP14816107.8	(47) 01.11.2023
VALENTI, Dominick, Joseph	(47) 01.11.2023	(87) EP2015059054
DEY, Sanjeev, Kumar	(87) NZ2014000131	03.12.2015
QIN, Haihu	31.12.2014	(22) 27.04.2015
FREUND, Wesley, A.	(22) 30.06.2014	(54) BAG ASSEMBLY FOR CULTIVATION OF CELLS
(31) 201762596128 P	(54) A BEVERAGE APPARATUS AND METHOD	(73) Cytiva Sweden AB
201762571286 P	(73) Watsonbrew Ip Limited	(72) GEBAUER, Klaus
(32) 08.12.2017	(72) WATSON, Brian Wayne	CASTAN, Andreas
12.10.2017	CUTFIELD, Richard George	ESTMER-NILSSON, Camilla
(33) United States of America	LANZ, Mario	FALKMAN, Thomas
United States of America	(31) 62635114	WILEN, Anders
(51) C11D 3/48	61894313	MILLER, Michael
C11D 11/00	61265813	STANKOWSKI, Ralph
C11D 3/30	(32) 17.06.2014	(31) 201462003754 P
C11D 7/32	13.12.2013	(32) 28.05.2014
C11D 1/62	28.06.2013	(33) United States of America
C11D 3/28	(33) New Zealand	(51) C12M 1/34
(11) EP3816272	New Zealand	C12Q 1/02
(21) EP19206618.1	New Zealand	G01N 33/483
(47) 01.11.2023	(51) C12G 1/032	G06T 7/60
(22) 31.10.2019	C12H 1/07	G06T 7/00
(54) FABRIC CARE COMPOSITION	B01D 65/08	(11) EP3540043
(73) The Procter & Gamble Company	B01D 29/00	(21) EP16921099.4
(72) PEREZ-PRAT VINUESA, Eva Maria	C12G 1/02	(47) 01.11.2023
KONYA, Abigail Mary	(11) EP3824066	(87) JP2016083366
DECLERCQ, Marc Johan	(21) EP19765554.1	17.05.2018
(51) C11D 17/04	(47) 01.11.2023	(22) 10.11.2016
(11) EP3807390	(87) IB2019055753	(54) ANALYSIS DEVICE, ANALYSIS METHOD, AND PROGRAM
(21) EP19725686.0	23.01.2020	(73) The University Of Tokyo
(47) 01.11.2023	(22) 05.07.2019	Nikon Corporation
(87) EP2019062770	(54) METHOD AND APPARATUS FOR FERMENTATION	(72) MURATA Masayuki
19.12.2019	(73) Della Toffola S.p.A.	KANO Fumi
(22) 17.05.2019	(72) DELLA TOFFOLA, Giacomo	NOGUCHI Yoshiyuki
(54) PORTION UNIT OF A CLEANING AGENT	DELLA TOFFOLA, Francesco	WATANABE Hirotada
(73) Henkel AG & Co. KGaA	(31) 201800007405	MAIYA Nobuhiko
(72) MEIER, Frank	(32) 20.07.2018	FURUTA Shinichi
SUNDER, Matthias	(33) Italy	SAIGO Takuro
TREBBE, Uwe	(51) C12H 6/02	MASUTANI Mamiko
(31) 102018209707	B65D 85/72	YAMASHITA Masafumi
(32) 15.06.2018	C12G 3/04	YAMASAKI Shoko
(33) Germany	(11) EP3845624	
(51) C11D 17/06	(21) EP19856258.9	
C11D 1/14	(47) 01.11.2023	

- (51) C12N 1/20  
C12N 15/70  
C12N 9/10
- (11) EP3620510  
(21) EP18192898.7  
(47) 01.11.2023  
(22) 06.09.2018
- (54) FERMENTATIVE PRODUCTION OF OLIGOSACCHARIDES BY TOTAL FERMENTATION UTILIZING A MIXED FEEDSTOCK
- (73) Chr. Hansen HMO GmbH  
(72) JENNEWEIN, Stefan  
WARTENBERG, Dirk  
PARSCHAT, Katja
- 
- (51) C12N 1/21  
A61K 39/00
- (11) EP3134510  
(21) EP15782800.5  
(47) 01.11.2023  
(87) US2015025690  
29.10.2015  
(22) 14.04.2015
- (54) RECOMBINANT LISTERIA VACCINE STRAINS AND METHODS OF PRODUCING THE SAME
- (73) Advaxis, Inc.  
(72) WALLECHA, Anu  
PETIT, Robert
- (31) 201461983732 P  
(32) 24.04.2014  
(33) United States of America
- 
- (51) C12N 1/21  
C12N 9/10  
C12N 15/63  
C12N 15/76  
C12R 1/465  
C12P 19/62  
C07K 14/36
- (11) EP2597152  
(21) EP11809152.9  
(47) 01.11.2023  
(87) CN2011001194  
26.01.2012  
(22) 21.07.2011
- (54) GENETICALLY ENGINEERED STRAIN WSJ-IA FOR PRODUCING ISOVALERYL SPIRAMYCIN I.
- (73) Shen Yang Fuyang Medicine Technology Co., Ltd  
(72) WANG, Yiguang  
JIANG, Yang  
YANG, Shengwu  
ZHAO, Xiaofeng
- (31) 201010237595  
(32) 23.07.2010  
(33) China
- 
- (51) C12N 5/074  
C12N 5/073  
C12N 15/86
- (11) EP3114214  
(21) EP15757753.7  
(47) 01.11.2023  
(87) US2015018801  
11.09.2015  
(22) 04.03.2015
- (54) IMPROVED REPROGRAMMING METHODS AND CELL CULTURE PLATFORMS
- (73) Fate Therapeutics, Inc.  
(72) VALAMEHR, Bahram  
FLYNN, Peter  
ABUJAROUR, Ramzey  
ROBINSON, Megan
- (31) 201461947979 P  
(32) 04.03.2014  
(33) United States of America
- 
- (51) C12N 5/078  
C12N 5/10  
C12N 9/22  
C12N 15/09  
C12N 15/66  
C12N 15/90  
A61K 31/713  
A61K 35/761  
A61K 38/46  
A61K 38/42  
C07K 14/725  
C12N 15/10  
C12N 15/86
- (11) EP3583203  
(21) EP18755081.9  
(47) 01.11.2023  
(87) US2018018370  
23.08.2018  
(22) 15.02.2018
- (54) DONOR REPAIR TEMPLATES MULTIPLEX GENOME EDITING
- (73) 2seventy bio, Inc.  
(72) LEE, Baekseung  
ASTRAKHAN, Alexander
- (31) 201762459203 P  
(32) 15.02.2017  
(33) United States of America
- 
- (51) C12N 5/0783  
C12Q 1/68  
G01N 33/53  
A61P 37/00
- (11) EP3198007  
(21) EP15843971.1  
(47) 01.11.2023  
(87) SG2015050344  
31.03.2016  
(22) 25.09.2015
- (54) METHODS AND COMPOSITIONS FOR MODULATING TH-GM CELL FUNCTION
- (73) National University of Singapore  
(72) FU, Xin-yuan  
SHENG, Wanqiang  
ZHANG, Yongliang  
YANG, Fan
- (31) 10201406130P  
(32) 26.09.2014  
(33) Singapore
- 
- (51) C12N 5/0786  
C12N 5/0786
- (11) EP3565890  
(21) EP18736458.3  
(47) 01.11.2023  
(87) SG2018050007  
12.07.2018  
(22) 05.01.2018
- (54) METHODS OF GENERATING HEPATIC MACROPHAGES AND USES THEREOF
- (73) Agency for Science, Technology and Research  
(72) TASNIM, Farah  
YU, Henry
- (31) 10201700068V  
(32) 05.01.2017  
(33) Singapore
- 
- (51) C12N 5/10  
C12N 1/00  
C12N 5/074  
C12N 5/00
- (11) EP3128003  
(21) EP14887887.9  
(47) 01.11.2023  
(87) JP2014071256  
08.10.2015  
(22) 12.08.2014
- (54) MEDIUM FOR STEM CELL USE
- (73) AJINOMOTO CO., INC.  
(72) KURIYAMA, Yoko  
OKAMOTO, Satoru  
KITAZAWA, Manabu  
SUGIMOTO, Nao  
MATSUMOTO, Takuya
- (31) 2014070763  
(32) 31.03.2014  
(33) Japan
- 
- (51) C12N 9/00  
C12N 15/77  
C12P 13/08
- (11) EP4056689  
(21) EP21870552.3  
(47) 01.11.2023  
(87) KR2021004516  
04.08.2022  
(22) 09.04.2021
- (54) NOVEL ASPARAGINE SYNTHASE VARIANT, AND METHOD FOR PRODUCING L-VALINE USING SAME
- (73) CJ Cheiljedang Corporation  
(72) BAE, Jee Yeon  
KIM, Seon Hye  
YOON, Byoung Hoon  
PARK, Goun  
KIM, Hyo Jin  
KIM, Hyung Joon
- (31) 20210011011  
(32) 26.01.2021  
(33) Korea (Republic)
- 
- (51) C12N 9/22  
C12N 9/22
- (11) EP3594333  
(21) EP19187729.9  
(47) 01.11.2023  
(22) 07.02.2011
- (54) ENGINEERED CLEAVAGE HALF-DOMAINS
- (73) Sangamo Therapeutics, Inc.  
(72) DOYON, Yannick  
MILLER, Jeffrey C.
- (31) 40391610 P  
33776910 P  
(32) 23.09.2010  
08.02.2010  
(33) United States of America  
United States of America
- 
- (51) C12N 9/24  
C12N 9/24
- (11) EP3481948  
(21) EP17732879.6

(47) 01.11.2023	02.07.2015	(47) 01.11.2023
(87) EP2017065336	(22) 26.12.2014	(87) EP2020075806
11.01.2018	(54) HUMAN ANTI-IL-33 NEUTRALIZING	25.03.2021
(22) 22.06.2017	MONOCLONAL ANTIBODY	(22) 16.09.2020
(54) XYLANASE VARIANTS AND	(73) Mitsubishi Tanabe Pharma Corporation	(54) CA-IX APTAMERS AND DIAGNOSTIC
POLYNUCLEOTIDES ENCODING	(72) FUJINO, Yasuhiro	AND THERAPEUTIC USES THEREOF
SAME	YOSHIKAWA, Tsutomu	(73) Bracco Imaging SPA
(73) Novozymes A/S	OCHI, Hiroshi	(72) DE FRANCISCIS, Vittorio
(72) DANIELSEN, Steffen	(31) 2014078223	ESPOSITO, Carla, Lucia
HANSEN, Peter, Kamp	2013270551	CATUOGNO, Silvia
RASMUSSEN, Frank, Winther	(32) 04.04.2014	NUZZO, Silvia
PACHE, Roland, Alexander	26.12.2013	MAIOCCHI, Alessandro
(31) 16178681	(33) Japan	IABONI, Margherita
(32) 08.07.2016	Japan	DI VITO, Aldo
(33) European Patent Office (EPO)	(51) C12N 15/10	REITANO, Erika
(51) C12N 9/28	(11) EP3814494	POGGI, Luisa
C11D 3/386	(21) EP18743691.0	(31) 19197506
C12N 9/24	(47) 01.11.2023	(32) 16.09.2019
C12N 9/26	(87) EP2018067575	(33) European Patent Office (EPO)
(11) EP3121270	02.01.2020	(51) C12N 15/54
(21) EP16186616.5	(22) 29.06.2018	C12N 15/10
(47) 01.11.2023	(54) HIGH THROUGHPUT ASSEMBLY OF	C12N 9/12
(22) 29.06.2012	NUCLEIC ACID MOLECULES	C07K 1/02
(54) CLEANING COMPOSITIONS	(73) Thermo Fisher Scientific GENEART	C07K 1/04
COMPRISING AMYLASE VARIANTS	GmbH	C12P 19/34
REFERENCE TO A SEQUENCE	(72) LISS, Michael	C12P 21/00
LISTING	(51) C12N 15/113	(11) EP2850192
(73) The Procter & Gamble Company	A61K 31/7088	(21) EP13724519.7
(72) JACKSON, Michelle	A61K 39/395	(47) 01.11.2023
ANDERSEN, Carsten	C12Q 1/68	(87) EP2013001458
BEIER, Lars	A61P 35/00	21.11.2013
FRIIS, Esben Peter	(11) EP3022303	(22) 16.05.2013
TOSCANO, Miguel Duarte Guilherme	(21) EP14826369.2	(54) ENZYMATIC SYNTHESIS OF L-
Pereira	(47) 01.11.2023	NUCLEIC ACIDS
BJOERNVAD, Mads	(87) US2014046857	(73) APTARION biotech AG
RASMUSSEN, Frank Winther	22.01.2015	(72) PECH, Andreas
CHRISTIANSEN, Liv Spaangner	(22) 16.07.2014	DAVID, Ralf
SOUTER, Philip Frank	(54) METHODS OF TREATING	JAROSCH, Florian
BEWICK, Lindsay Suzanne	UROTHELIAL CARCINOMAS	JAHNZ, Michael
KAASGAARD, Svend	(73) Foundation Medicine, Inc.	KLUSSMANN, Sven
OEBRO, Jens	(72) ALI, Siraj, Mahamed	(31) 12003887
LARSEN, Signe Eskildsen	HAWRYLUK, Matthew, J.	(32) 16.05.2012
SVENDSEN, Allan	ROSS, Jeffrey, S.	(33) European Patent Office (EPO)
JOHANSEN, Annette Helle	STEPHENS, Philip, James	(51) C12N 15/62
SKJOET, Michael	(31) 201361847532 P	C07K 14/33
(31) 11172288	(32) 17.07.2013	A61K 39/08
(32) 30.06.2011	(33) United States of America	A61K 39/00
(33) European Patent Office (EPO)	(51) C12N 15/113	C07K 16/12
(51) C12N 15/09	A61K 35/76	C12N 15/70
A61K 39/395	A61P 21/00	(11) EP3564378
A61P 1/04	(11) EP3435755	(21) EP19179871.9
A61P 11/00	(21) EP17776877.7	(47) 01.11.2023
A61P 11/06	(47) 01.11.2023	(22) 25.05.2012
A61P 13/12	(87) US2017025614	(54) IMMUNOGENIC COMPOSITION
A61P 17/00	05.10.2017	(73) GlaxoSmithKline Biologicals SA
A61P 17/04	(22) 31.03.2017	(72) CASTADO, Cindy
A61P 19/02	(54) MODIFIED U6 PROMOTER SYSTEM	(31) 201161490716 P
A61P 21/02	FOR TISSUE SPECIFIC EXPRESSION	201161490734 P
A61P 29/00	(73) Research Institute at Nationwide	201161490707 P
A61P 37/06	Children's Hospital	(32) 27.05.2011
A61P 43/00	(72) HARPER, Scott Quenton	27.05.2011
C07K 7/08	(31) 201662317524 P	27.05.2011
C07K 14/54	(32) 02.04.2016	(33) United States of America
C07K 16/24	(33) United States of America	United States of America
(11) EP3088517	(51) C12N 15/115	United States of America
(21) EP14873812.3	C12Q 1/68	(51) C12N 15/62
(47) 01.11.2023	(11) EP4031667	C12N 5/10
(87) JP2014084695	(21) EP20768631.2	A61K 48/00

A61K 38/00	(54) MICROORGANISM PRODUCING	FELDMAN, Benjamin J.
A61P 35/00	MYCOSPORINE-LIKE AMINO ACID	(31) 201662303626 P
A61K 35/17	AND MICOSPORINE-LIKE AMINO ACID	(32) 04.03.2016
A61K 39/00	PRODUCTION METHOD USING SAME	(33) United States of America
C07K 14/705	(73) CJ Cheiljedang Corporation	(51) C12Q 1/66
C07K 14/525	(72) KIM, Sol	C07D 277/66
C07K 14/71	LEE, Kyusung	C07D 417/04
C07K 16/28	LEE, Joo Hee	C07D 513/04
C12N 5/0783	SEOK, Jong-cheol	C07D 513/10
C12N 9/12	JANG, Jae Woo	(11) EP3548470
C07K 14/725	(31) 20170103795	(21) EP17817600.4
(11) EP3630980	(32) 16.08.2017	(47) 01.11.2023
(21) EP18810701.5	(33) Korea (Republic)	(87) US2017064284
(47) 01.11.2023	(51) C12P 21/00	07.06.2018
(87) CN2018088914	(11) EP2622089	(22) 01.12.2017
06.12.2018	(21) EP11808319.5	(54) 5,5-DISUBSTITUTED LUCIFERINS AND
(22) 30.05.2018	(47) 01.11.2023	THEIR USE IN LUCIFERASE-BASED
(54) CHIMERIC ANTIGEN RECEPTOR CELL	(87) IB2011002780	ASSAYS
PREPARATION AND USES THEREOF	05.04.2012	(73) Promega Corporation
(73) Innovative Cellular Therapeutics	(22) 29.09.2011	(72) KILLORAN, Michael
Holdings, Ltd.	(54) DE-MANNOSYLATION OF	ENCELL, Lance, P.
(72) XIAO, Lei	PHOSPHORYLATED N-GLYCANS	HALL, Mary, P.
PU, Chengfei	(73) Oxyrane UK Limited	KIRKLAND, Thomas, A.
CAO, Zhiyuan	VIB VZW	MEISENHEIMER, Poncho
WU, Zhao	Universiteit Gent	SHI, Ce
(31) 201862640523 P	(72) PIENS, Kathleen, Camilla, Telesphore,	(31) 201662428707 P
201762598024 P	Alida, Maria	(32) 01.12.2016
201762527140 P	VERVECKEN, Wouter	(33) United States of America
201762527649 P	(31) 387924 P	(51) C12Q 1/6806
201762513781 P	(32) 29.09.2010	C12Q 1/6841
(32) 08.03.2018	(33) United States of America	(11) EP3884063
13.12.2017	(51) C12Q 1/02	(21) EP19888200.3
30.06.2017	C12M 1/34	(47) 01.11.2023
30.06.2017	G01N 27/00	(87) US2019062040
01.06.2017	C12N 15/09	28.05.2020
(33) United States of America	(11) EP3628744	(22) 18.11.2019
United States of America	(21) EP18791308.2	(54) COMPOSITIONS AND METHODS
United States of America	(47) 01.11.2023	FOR DETECTION OF CLEAVAGE OF
United States of America	(87) JP2018017334	GENOMIC DNA BY A NUCLEASE
United States of America	01.11.2018	(73) Altius Institute For Biomedical Sciences
(51) C12N 15/67	(22) 27.04.2018	(72) ZRAZHEVSKIY, Pavel
(11) EP3578659	(54) INTRACELLULAR RECORDING	STAMATOYANNOPOULOS, John
(21) EP19171200.9	ELECTRODE AND METHOD FOR	(31) 201962806539 P
(47) 01.11.2023	MEASURING MEMBRANE POTENTIAL/	201862768991 P
(22) 27.03.2013	MEMBRANE CURRENT OF CELL	(32) 15.02.2019
(54) ARTIFICIAL NUCLEIC ACID	(73) Ion Chat Research Corporate	19.11.2018
MOLECULES FOR IMPROVED	Saito, Mitsuyoshi	(33) United States of America
PROTEIN OR PEPTIDE EXPRESSION	(72) SAITO, Mitsuyoshi	United States of America
(73) CureVac SE	(31) 2017090632	(51) C12Q 1/6844
(72) Theß, Andreas	(32) 28.04.2017	C12P 19/34
(31) PCT/EP2012/002447	(33) Japan	(11) EP3371326
PCT/EP2012/001336	(51) C12Q 1/26	(21) EP16862774.3
(32) 08.06.2012	C12Q 1/00	(47) 01.11.2023
27.03.2012	G01N 27/327	(87) US2016059835
(33) World Intellectual Property Office (WIPO)	G01N 27/27	11.05.2017
World Intellectual Property Office (WIPO)	G01N 33/66	(22) 01.11.2016
(51) C12N 15/70	(11) EP3423591	(54) LIGASE-ASSISTED NUCLEIC
C12N 15/77	(21) EP17760843.7	ACID CIRCULARIZATION AND
C12N 15/81	(47) 01.11.2023	AMPLIFICATION
C12N 9/88	(87) US2017020495	(73) Global Life Sciences Solutions
C12P 13/00	08.09.2017	Operations UK Ltd
(11) EP3670661	(22) 02.03.2017	(72) HELLER, Ryan Charles
(21) EP18846387.1	(54) NAD(P)-DEPENDENT RESPONSIVE	KVAM, Erik Leeming
(47) 01.11.2023	ENZYMES, ELECTRODES AND	NELSON, John Richard
(87) KR2018009246	SENSORS, AND METHODS FOR	(31) 201514933275
21.02.2019	MAKING AND USING THE SAME	(32) 05.11.2015
(22) 13.08.2018	(73) Abbott Diabetes Care Inc.	(33) United States of America
	(72) OUYANG, Tianmei	(51) C12Q 1/6844

G01N 21/64	15.03.2013	(54) THE HIGH DEGREE OF
(11) EP3736337	21.09.2012	UNDERCOOLING PREPARATION
(21) EP20166741.7	04.09.2012	METHOD OF A DEEPLY SURFACE
(47) 01.11.2023	(33) United States of America	HARDENED TURNOUT RAIL
(22) 25.08.2016	United States of America	(73) Pangang Group Panzhuhua Iron & Steel
(54) METHOD OF OPTICALLY ENCODING	United States of America	Research Institute Co., Ltd.
DISCRETE VOLUMES USING	United States of America	(72) Yuan, Jun
OPTICALLY-ENCODED PARTICLES	(51) C21B 5/02	Zou, Ming
(73) The Broad Institute, Inc.	C08J 11/06	Deng, Yong
Massachusetts Institute of Technology	(11) EP3942081	Li, Ruoxi
(72) SAZER, Daniel	(21) EP20718834.3	(31) 202011164327
FELDMAN, David	(47) 01.11.2023	(32) 27.10.2020
BLAINEY, Paul	(87) IT2020050064	(33) China
(31) 201562209709 P	24.09.2020	
(32) 25.08.2015	(22) 19.03.2020	(51) C21D 8/02
(33) United States of America	(54) METHOD FOR THE PRODUCTION OF	C23C 2/02
(51) C12Q 1/6848	METAL PRODUCTS STARTING FROM	C23C 2/06
(11) EP3286338	FERROUS MATERIAL, BY MEANS OF	C23C 2/40
(21) EP16784032.1	AN ELECTRIC ARC FURNACE	C21D 1/26
(47) 01.11.2023	(73) I.BLU S.r.l.	C22C 38/00
(87) US2016029054	(72) GOSPARINI, Paolo	C22C 38/02
27.10.2016	BOTTOLO, Mirko	C22C 38/04
(22) 22.04.2016	GOSPARINI, Elia	C22C 38/06
(54) AMPLIFICATION WITH PRIMERS OF	(31) 201900006770	C22C 38/12
LIMITED NUCLEOTIDE COMPOSITION	201900004029	C22C 38/14
(73) ATILA BIOSYSTEMS INCORPORATED	(32) 13.05.2019	C22C 18/04
(72) WANG, Youxiang	20.03.2019	B32B 15/01
YANG, Zhijie	(33) Italy	(11) EP4071255
CHEN, Xin	Italy	(21) EP22174399.0
(31) 201562152756 P	(51) C21C 5/35	(47) 01.11.2023
(32) 24.04.2015	C21C 1/02	(22) 13.09.2017
(33) United States of America	C21C 5/46	(54) FLAT STEEL PRODUCT AND METHOD
(51) C12Q 1/6869	(11) EP4006176	FOR PRODUCING FLAT STEEL
(11) EP3415641	(21) EP20843908.3	PRODUCTS
(21) EP18184493.7	(47) 01.11.2023	(73) ThyssenKrupp Steel Europe AG
(47) 01.11.2023	(87) JP2020025979	thyssenkrupp AG
(22) 16.09.2005	28.01.2021	(72) FRIEDEL, Frank
(54) METHOD FOR ANALYSIS OF	(22) 02.07.2020	MACHEREY, Friedhelm
MOLECULES	(54) MOLTEN IRON DEPHOSPHORIZATION	SATTLER, Lena
(73) Pacific Biosciences Of California, Inc.	METHOD	YANIK, Robert
(72) TURNER, Stephen	(73) JFE Steel Corporation	(31) PCT/EP2016/072281
KORLACH, Jonas	(72) MURAKAMI Yumi	(32) 20.09.2016
(31) 651846 P	ODA Nobuhiko	(33) World Intellectual Property Office (WIPO)
649009 P	NEGISHI Hidemitsu	(51) C21D 9/00
944106	KAWABATA Ryo	C21D 1/62
(32) 09.02.2005	KIKUCHI Naoki	(11) EP3262203
31.01.2005	FUJII Yusuke	(21) EP16704809.9
17.09.2004	(31) 2019134742	(47) 01.11.2023
(33) United States of America	(32) 22.07.2019	(87) EP2016052127
United States of America	(33) Japan	01.09.2016
United States of America	(51) C21D 1/18	(22) 02.02.2016
(51) C12Q 1/6869	C21D 1/28	(54) POSITIONING DEVICE FOR A SHEET
G16B 30/00	C21D 1/84	METAL PART
G16B 30/10	C21D 6/00	(73) Bayerische Motoren Werke
(11) EP3842551	C21D 7/10	Aktiengesellschaft
(21) EP21155582.6	C21D 9/04	(72) HACKENBUCHNER, Rainer
(47) 01.11.2023	C22C 38/02	(31) 102015203338
(22) 04.09.2013	C22C 38/04	(32) 25.02.2015
(54) METHODS OF ANALYSING CELL FREE	C22C 38/24	(33) Germany
POLYNUCLEOTIDES	B21B 1/085	(51) C21D 9/46
(73) Guardant Health, Inc.	B22D 11/124	C22C 38/00
(72) TALASAZ, AmirAli	C21D 7/13	C22C 38/60
ELTOUKHY, Helmy	C22C 1/02	C21D 1/18
(31) 201361845987 P	(11) EP3992311	C21D 1/26
201361793997 P	(21) EP21200306.5	C21D 1/76
201261704400 P	(47) 01.11.2023	C21D 8/02
201261696734 P	(22) 30.09.2021	C22C 38/02
(32) 13.07.2013		C22C 38/04
		C22C 38/08



C22C 38/12	(22) 29.09.2015	(47) 01.11.2023
C22C 38/14	(54) LEACHING METHOD FOR LITHIUM	(22) 24.09.2018
C22C 38/42	ION BATTERY SCRAP AND METHOD	(54) COBALT-FREE ALLOYS
C22C 38/16	FOR RECOVERING METAL FROM	(73) Rolls-Royce plc
C22C 38/44	LITHIUM ION BATTERY SCRAP	(72) Stewart, David
C22C 38/48	(73) JX Nippon Mining & Metals Corporation	(31) 201716640
C22C 38/50	(72) YOKOTA, Takuya	(32) 11.10.2017
C22C 38/54	ITO, Junichi	(33) United Kingdom
C23C 2/12	(31) 2014202069	(51) C23C 2/06
C23C 2/28	(32) 30.09.2014	C23C 14/06
C23C 2/40	(33) Japan	C23C 16/26
(11) EP4063525	(51) C22C 9/04	C23C 16/27
(21) EP20890642.0	F16D 23/02	(11) EP3918104
(47) 01.11.2023	(11) EP4108794	(21) EP20701794.8
(87) JP2020043344	(21) EP21181663.2	(47) 01.11.2023
27.05.2021	(47) 01.11.2023	(87) EP2020052291
(22) 20.11.2020	(22) 25.06.2021	06.08.2020
(54) COATED STEEL MEMBER, COATED	(54) HIGH STRENGTH,	(22) 30.01.2020
STEEL SHEET, AND METHODS FOR	THERMOFORMABLE, SPECIAL BRASS	(54) USE OF A DLC COATED PART IN A
PRODUCING SAME	ALLOY FOR A COMPONENT UNDER A	GALVANIZING BATH
(73) NIPPON STEEL CORPORATION	HEAVY LOAD	(73) Primetals Technologies Austria GmbH
(72) TABATA, Shinichiro	(73) Otto Fuchs - Kommanditgesellschaft -	(72) JAX, Klaus
(31) 2019211299	(72) Reetz, Björn	GRENIER, Benjamin
(32) 22.11.2019	Plett, Thomas	(31) 19290009
(33) Japan	Münch, Tileman	(32) 01.02.2019
(51) C22B 1/00	(51) C22C 14/00	(33) European Patent Office (EPO)
C22B 3/16	C22C 19/03	(51) C23C 2/12
C22B 59/00	C22F 1/00	C23C 2/26
C22B 60/00	C22F 1/18	C23C 2/28
(11) EP3682039	B22D 21/02	C23C 2/40
(21) EP18769361.9	B22D 27/04	B32B 15/01
(47) 01.11.2023	B22D 30/00	C21D 1/78
(87) EP2018074789	B22D 11/06	C22C 38/14
21.03.2019	G01K 5/62	C22C 38/18
(22) 13.09.2018	(11) EP3696291	C22C 38/06
(54) METHOD FOR THE SELECTIVE	(21) EP18865839.7	C22C 38/04
EXTRACTION OF METALS BY	(47) 01.11.2023	C22C 38/02
MECHANOSYNTHESIS AND	(87) JP2018034368	C22C 38/28
LEACHING	18.04.2019	C22C 38/32
(73) Université Claude Bernard Lyon 1	(22) 18.09.2018	C23C 28/02
Centre National de la Recherche	(54) TI-NI ALLOY, WIRE, ELECTRIFICATION	C21D 1/26
Scientifique	ACTUATOR AND TEMPERATURE	C21D 1/673
Institut National Des Sciences	SENSOR USING SAME, AND METHOD	C21D 8/02
Appliquées De Lyon	FOR MANUFACTURING TI-NI ALLOY	C21D 8/04
CPE Lyon Formation Continue et	MATERIAL	C21D 9/48
Recherche	(73) Furukawa Techno Material Co., Ltd.	B21D 22/02
Ecole Nationale Supérieure de Chimie de	Tokyo Institute of Technology	B21D 35/00
Montpellier	Furukawa Electric Co., Ltd.	(11) EP3889311
Université de Montpellier	(72) KISE, Sumio	(21) EP19888634.3
(72) LECLAIRE, Julien	YAMASHITA, Fumiyoshi	(47) 01.11.2023
SEPTAVAUX, Jean	FUJII, Misato	(87) KR2019015951
METRO, Thomas-Xavier	INAMURA, Tomonari	04.06.2020
(31) 1758538	HOSODA, Hideki	(22) 20.11.2019
(32) 14.09.2017	SHINOHARA, Yuri	(54) HOT PRESS-FORMED PART, AND
(33) France	TAHARA, Masaki	MANUFACTURING METHOD THEREOF
(51) C22B 7/00	MORISHIGE, Ryota	(73) POSCO Co., Ltd
C22B 3/08	SAITO, Keisuke	(72) KIM, Seong-Woo
C22B 3/26	(31) 2017197222	OH, Jin-Keun
C22B 23/00	(32) 10.10.2017	KIM, Sang-Heon
C22B 26/12	(33) Japan	CHUN, Hyo-Sik
C22B 47/00	(51) C22C 38/58	(31) 20180153165
C22B 3/00	C22C 38/56	(32) 30.11.2018
H01M 10/54	C22C 38/34	(33) Korea (Republic)
(11) EP3202928	C22C 38/00	(51) C23C 14/08
(21) EP15846479.2	C22C 27/06	C23C 14/35
(47) 01.11.2023	C22C 33/02	H01L 21/02
(87) JP2015077622	(11) EP3470542	C23C 14/00
07.04.2016	(21) EP18196212.7	C23C 14/54

(11) EP4033003	(33) European Patent Office (EPO)	(51) C25D 11/04
(21) EP21208104.6	(51) C25B 1/04	C25D 11/10
(47) 01.11.2023	C25B 1/23	C25D 11/12
(22) 13.11.2021	C25B 3/03	C23F 1/00
(54) METHOD FOR DEPOSITION OF YTTRIUM MONOXIDE FILM	C25B 3/07	C25D 1/00
(73) Latvijas Universitates Cietvielu fizikas instituts	C25B 3/26	C25D 11/34
(72) ARSLAN, Halil	C25B 9/23	C25D 9/06
(31) 200090	C25B 9/75	H01M 4/66
(32) 11.12.2020	C25B 9/77	C25D 3/12
(33) Latvia	C25B 15/023	H01M 4/80
(51) C23C 16/455	C25B 15/025	H01M 4/72
C23C 16/44	(11) EP4060086	H01M 8/0232
C23C 16/458	(21) EP21192540.9	H01M 8/0247
(11) EP3919652	(47) 01.11.2023	B82Y 30/00
(21) EP20749792.6	(22) 23.08.2021	B82Y 40/00
(47) 01.11.2023	(54) CARBON DIOXIDE ELECTROLYTIC DEVICE	H01M 4/86
(87) KR2020001174	(73) Kabushiki Kaisha Toshiba	C23F 1/28
06.08.2020	(72) Kitagawa, Ryota	(11) EP3655569
(22) 23.01.2020	Kofuji, Yusuke	(21) EP18735607.6
(54) COATING DEVICE	Ono, Akihiko	(47) 01.11.2023
(73) LG Energy Solution, Ltd.	Kudo, Yuki	(87) EP2018068674
(72) PARK, Sang Joon	Tamura, Jun	24.01.2019
KIM, Ki Hwan	Mikoshihba, Satoshi	(22) 10.07.2018
LEE, Eun Jeong	(31) 2021044778	(54) FORMING A LAYER OF FUNCTIONAL MATERIAL ON AN ELECTRICALLY CONDUCTIVE SUBSTRATE
KIM, Yong Chan	(32) 18.03.2021	(73) IMEC VZW
(31) 20190012719	(33) Japan	Katholieke Universiteit Leuven
(32) 31.01.2019	(51) C25C 1/16	(72) ZANKOWSKI, Stanislaw Piotr
(33) Korea (Republic)	C25C 7/02	VERECKEN, Philippe M.
(51) C23C 18/16	(11) EP3788185	(31) 17181782
C23C 18/54	(21) EP19740429.6	(32) 18.07.2017
C23C 18/38	(47) 01.11.2023	(33) European Patent Office (EPO)
C23C 18/32	(87) NO2019050101	(51) C25D 17/06
C23C 18/20	07.11.2019	(11) EP3960909
B23K 35/02	(22) 06.05.2019	(21) EP20192707.6
(11) EP4028576	(54) ELECTRICAL INSULATION OF PLATE FORMED ELECTRODES	(47) 01.11.2023
(21) EP20767856.6	(73) Partek AS	(22) 25.08.2020
(47) 01.11.2023	(72) PARMANN, Georg	(54) PLATING FRAME UNIT FOR HOLDING A SUBSTRATE IN A CHEMICAL AND/OR ELECTROLYTIC SURFACE TREATMENT OF THE SUBSTRATE
(87) EP2020075498	PARMANN, Christian	(73) Semsysco GmbH
18.03.2021	(31) 20180642	(72) GLEISSNER, Andreas
(22) 11.09.2020	(32) 04.05.2018	TSCHINDERLE, Ulrich
(54) COMPOSITE SOLDER BALLS METALLISED ON THE SURFACE AND CALIBRATED FOR THE ASSEMBLY OF ELECTRONIC BOARDS	(33) Norway	(51) C30B 29/04
(73) "Institut de Recherches en Ingénierie des Surfaces"	(51) C25C 3/08	C30B 31/22
(72) IACOB, Constantin	(11) EP3699325	C30B 33/02
BUCHER, Sébastien	(21) EP18868602.6	B82Y 10/00
(31) 1910055	(47) 01.11.2023	(11) EP3990684
(32) 12.09.2019	(87) RU2018050107	(21) EP20735338.4
(33) France	25.04.2019	(47) 01.11.2023
(51) C23C 28/04	(22) 07.09.2018	(87) EP2020068110
C23C 16/40	(54) FORMATION OF LINING LAYERS IN THE CATHODE SHELLS OF ALUMINIUM ELECTROLYTIC REDUCTION CELLS	30.12.2020
C23C 30/00	(73) Obshchestvo S Ogranichennoy Otvetstvennost'yu "Obedinennaya Kompaniya Rusal Inzhenerno- Tekhnologicheskij Tsentr"	(22) 26.06.2020
(11) EP3607110	(72) PROSHKIN, Aleksandr Vladimirovich	(54) METHOD FOR GENERATING AT LEAST ONE DETERMINISTIC F- CENTRE IN A DIAMOND LAYER, DIAMOND LAYER WITH AT LEAST ONE DETERMINISTIC F-CENTRE AND DOPANTS AND USE OF A DIAMOND LAYER WITH AT LEAST ONE DETERMINISTIC F-CENTRE
(21) EP18712236.1	LEVENSON, Samuil Yakovlevich	(73) Quantum Technologies GmbH
(47) 01.11.2023	PINGIN, Vitalij Valer'evich	(72) MEIJER, Jan Berend
(87) EP2018057622	MOROZOV, Aleksej Vasil'evich	PEZZAGNA, Sébastien
11.10.2018	SBITNEV, Andrej Gennad'evich	LÜHMANN, Tobias
(22) 26.03.2018	LANTSEVICH, Mikhail Aleksandrovich	WUNDERLICH, Ralf
(54) COATED CUTTING TOOL	GOLDOBIN, Vyacheslav Andreevich	
(73) Sandvik Intellectual Property AB	(31) 2017136943	
(72) LINDAHL, Erik	(32) 19.10.2017	
VON FIEANDT, Linus	(33) Russian Federation	
(31) 17165547		
(32) 07.04.2017		

(31) 102019117423	(22) 30.09.2016	PFADENHAUER, Stefan
(32) 27.06.2019	(54) HOUSING FOR A STRAND'S CREEL,	WEBER, Hans-Dieter
(33) Germany	CREEL AND DRAWING FRAME WITH A	WICH, Andre
(51) D01F 4/00	CREEL	BIRKNER, Klaus
D01F 4/02	(73) Trützschler Group SE	(51) D02G 3/02
(11) EP3583256	(72) Schmitz, Thomas	D03D 15/225
(21) EP18705904.3	Boms, Thomas	D03D 15/573
(47) 01.11.2023	(31) 102015118808	D01F 2/00
(87) EP2018053848	(32) 03.11.2015	(11) EP3692190
23.08.2018	(33) Germany	(21) EP18768916.1
(22) 15.02.2018	(51) D01H 13/00	(47) 01.11.2023
(54) A FILAMENT AND YARN PRODUCED	D01H 15/013	(87) EP2018075341
ON THE BASIS OF A NATURAL	B65H 54/26	11.04.2019
PROTEIN	(11) EP3608457	(22) 19.09.2018
(73) Ecco Sko A/S	(21) EP19188011.1	(54) LYOCELL FILAMENT LINING FABRIC
Spinnova Oy	(47) 01.11.2023	(73) Lenzing Aktiengesellschaft
(72) LIUKKONEN, Johanna	(22) 24.07.2019	(72) ABU-ROUS, Mohammad
HAAVISTO, Sanna	(54) METHOD OF OPERATING A SERVICE	CARLS, Susanne
SELENIUS, Pasi	ROBOT OF A RING SPINNING	EICHINGER, Dieter
SALMELA, Juha	MACHINE AND A RING SPINNING	NEUNTEUFEL, Martin
PORANEN, Janne	MACHINE FOR PERFORMING IT	SCHREMPF, Christoph
SALMINEN, Arto	(73) Maschinenfabrik Rieter AG	(31) 17195260
MYLLYS, Markko	(72) MORAVEC, Milan	(32) 06.10.2017
VENTO, Pia	SEMRÁD, Petr	(33) European Patent Office (EPO)
BJÖRKLUND, Karri	(31) 20180395	(51) D02G 3/04
GØGSIG, Thomas	(32) 07.08.2018	D02G 3/26
PETRUSIC, Stojanka	(33) Czech Republic	D03D 15/00
(31) 20175134	(51) D01H 15/00	D06M 11/05
(32) 15.02.2017	(11) EP3222761	(11) EP2562299
(33) Finland	(21) EP17162192.3	(21) EP11772041.7
(51) D01F 8/06	(47) 01.11.2023	(47) 01.11.2023
B33Y 70/00	(22) 21.03.2017	(87) JP2011059731
(11) EP4018023	(54) SYSTEM WITH A RING SPINNING	27.10.2011
(21) EP20760546.0	MACHINE AND A PIECING	(22) 20.04.2011
(47) 01.11.2023	ARRANGEMENT AND PIECING	(54) PRODUCTION METHOD FOR A
(87) IB2020057452	METHOD	BULKING YARN FOR PRODUCTION OF
25.02.2021	(73) Premier Evolvics PVT. Ltd.	WOVEN OR KNIT FABRIC
(22) 06.08.2020	(72) VARADARAJAN, Srinivasan	(73) Kuraray Trading Co., Ltd.
(54) CORE-SHEATH FILAMENTS	(31) 201641009860	Asano Nenshi Co., Ltd.
INCLUDING DIENE-BASED RUBBERS	(32) 21.03.2016	(72) TESHIMA Koichi
AND METHODS OF MAKING THE	(33) India	ASANO Masami
SAME	(51) D01H 15/00	(31) 2010096604
(73) 3M Innovative Properties Company	B65H 69/06	(32) 20.04.2010
(72) SAHNI, Vasav	(11) EP3967798	(33) Japan
PATNODE, Gregg A.	(21) EP21189848.1	(51) D02G 3/12
BOLTON, Justin M.	(47) 01.11.2023	D02G 3/44
CLAPPER, Jason D.	(22) 05.08.2021	H01B 13/22
(31) 201962889923 P	(54) PIECING UNIT OF RING SPINNING	H01B 11/10
(32) 21.08.2019	MACHINE WITH A YARN THREADING	(11) EP3521492
(33) United States of America	ARRANGEMENT	(21) EP19164903.7
(51) D01H 1/08	(73) Lakshmi Machine Works Ltd.	(47) 01.11.2023
D01H 9/04	(72) Jeganathan, Pasupathy	(22) 11.07.2008
(11) EP3633087	Arulanandam Thilip, Kumar	(54) ELECTRICAL SHIELDING MATERIAL
(21) EP19197141.5	(31) 202041039153	COMPOSED OF METALLIZED
(47) 01.11.2023	(32) 10.09.2020	STAINLESS STEEL MONOFILAMENT
(22) 13.09.2019	(33) India	YARN
(54) BOBBIN REPLACEMENT DEVICE FOR	(51) D02G 1/08	(73) Micrometal Technologies Inc.
POT SPINNING MACHINE	B65H 57/14	(72) HALLER, James E.
(73) Kabushiki Kaisha Toyota Jidoshokki	B65H 57/28	BURKE, Thomas F.
(72) NAKAMURA, Yusuke	(11) EP3613879	(31) 959673 P
SATO, Kohei	(21) EP18190665.2	(32) 16.07.2007
(31) 2018189104	(47) 01.11.2023	(33) United States of America
(32) 04.10.2018	(22) 24.08.2018	(51) D02H 13/34
(33) Japan	(54) ASSEMBLY FOR GUIDING A RUNNING	(11) EP3623507
(51) D01H 5/00	THREAD, AGGREGATE COMPRISING	(21) EP20150869.4
(11) EP3165637	SUCH AN ASSEMBLY, AND METHOD	(47) 01.11.2023
(21) EP16191744.8	(73) Rauschert Heinersdorf-Pressig GmbH	(22) 09.01.2020
(47) 01.11.2023	(72) BÖHNLEIN, Klaus	(54) WARP BEAM ASSEMBLY

(73) KARL MAYER STOLL R&D GmbH	WINTERMEYER, Axel	(21) EP19793464.9
(72) Keller, Alexander	(51) D04C 3/36	(47) 01.11.2023
(51) D03C 5/02	D04C 3/28	(87) KR2019004564
(11) EP3922766	(11) EP3303672	31.10.2019
(21) EP21178825.2	(21) EP16727105.5	(22) 16.04.2019
(47) 01.11.2023	(47) 01.11.2023	(54) DRAWER GUIDE AND LAUNDRY
(22) 10.06.2021	(87) US2016034104	TREATMENT APPARATUS HAVING
(54) OUTLET LEVER WITH CAM DOBBY	01.12.2016	THE SAME
FOLLOWER ROLLERS AND METHOD	(22) 25.05.2016	(73) LG Electronics Inc.
FOR MANUFACTURING SAME,	(54) BRAIDING MACHINE WITH NON-	(72) LEE, Jihong
SHEDDING MACHINE PROVIDED	CIRCULAR GEOMETRY	JEONG, Kwanwoong
WITH SUCH A LEVER AND WEAVING	(73) Nike Innovate C.V.	(31) 20180049127
LOOM EQUIPPED WITH SUCH A	(72) LEE, Eun Kyung	(32) 27.04.2018
MACHINE	(31) 201514721314	(33) Korea (Republic)
(73) Staubli Faverges	(32) 26.05.2015	(51) D06F 37/42
(72) LEGER, Sylvain	(33) United States of America	D06F 39/12
BONNEAU, David	(51) D06F 35/00	D06F 39/14
POLLET, François	(11) EP3865614	D06F 37/18
(31) 2006114	(21) EP21154696.5	D06F 37/28
(32) 11.06.2020	(47) 01.11.2023	D06F 37/24
(33) France	(22) 02.02.2021	(11) EP3543389
(51) D03D 1/02	(54) WATER-BEARING ELECTRICAL	(21) EP17882901.6
B60R 21/235	DEVICE AND METHOD FOR	(47) 01.11.2023
D03D 15/283	OPERATING A WATER-BEARING	(87) KR2017012743
(11) EP3690093	ELECTRICAL DEVICE	28.06.2018
(21) EP18863213.7	(73) Miele & Cie. KG	(22) 10.11.2017
(47) 01.11.2023	(72) Strothoff, Werner	(54) WASHING MACHINE
(87) JP2018036071	Schmid, Maximilian	(73) Samsung Electronics Co., Ltd.
04.04.2019	(31) 102020103641	(72) KANG, Hee Jin
(22) 27.09.2018	(32) 12.02.2020	KIM, Jeom Gap
(54) BASE FABRIC FOR NON-COATED AIR	(33) Germany	KIM, Jung Hwan
BAG, AND AIR BAG	(51) D06F 37/06	PARK, Ji Woong
(73) Seiren Co., Ltd.	D06F 23/02	WON, Yong Kwon
(72) KODERA, Shota	(11) EP3812499	(31) 20160178576
HOURAIYA, Tsuyoshi	(21) EP18931100.4	(32) 23.12.2016
(31) 2017192246	(47) 01.11.2023	(33) Korea (Republic)
(32) 29.09.2017	(87) CN2018107918	(51) D06F 39/00
(33) Japan	27.02.2020	A47L 15/42
(51) D04B 1/10	(22) 27.09.2018	D06F 39/08
D04B 1/28	(54) AGITATOR FOR DRUM WASHING	D06F 39/10
(11) EP3436629	MACHINE AND DRUM WASHING	(11) EP3090086
(21) EP17720184.5	MACHINE HAVING SAME	(21) EP13818231.6
(47) 01.11.2023	(73) Wuxi Little Swan Electric Co., Ltd.	(47) 01.11.2023
(87) FR2017050723	(72) LIU, Xiangkuan	(87) EP2013078102
05.10.2017	WANG, Jia	09.07.2015
(22) 29.03.2017	GU, Chaolin	(22) 30.12.2013
(54) ITEM WITH A COMPRESSIVE EFFECT	LIN, Guangfang	(54) A METHOD FOR REUSING WATER IN
AND METHOD OF MANUFACTURING	LU, Song	A WATER BEARING MACHINE AND
THE SAID ITEM	(31) 201821547027 U	WATER BEARING MACHINE
(73) Thuasne	201811100675	(73) Electrolux Appliances Aktiebolag
(72) DUCREUX, Jérémy	201810960572	(72) ZATTIN, Andrea
COTTE, Alain	(32) 20.09.2018	CELOTTO, Monica
DECHELETTE, Laurent	20.09.2018	TRIVILLIN, Fiorella
(31) 1652701	22.08.2018	(51) D06F 39/00
(32) 29.03.2016	(33) China	D06F 34/22
(33) France	China	D06F 39/02
(51) D04B 37/06	China	D06F 39/08
(11) EP3636816	(51) D06F 37/10	(11) EP3433409
(21) EP20157700.4	D06F 37/28	(21) EP16711656.5
(47) 01.11.2023	D06F 39/14	(47) 01.11.2023
(22) 17.02.2020	A47B 88/457	(87) EP2016056550
(54) METHOD FOR EQUIPPING A BAR OF	A47B 88/467	28.09.2017
A WARP KNITTING MACHINE WITH	A47B 88/49	(22) 24.03.2016
WARP KNITTING IMPLEMENTS AND	D06F 29/00	(54) LAUNDRY WASHING MACHINE
INSERTION TOOL	D06F 31/00	COMPRISING A WATER SOFTENING
(73) KARL MAYER STOLL R&D GmbH	D06F 23/04	DEVICE
(72) SCHULER, Günter	D06F 39/12	(73) Electrolux Appliances Aktiebolag
KAUFHOLD, Steffen	(11) EP3784828	(72) FAVARO, Daniele

DEL POS, Maurizio	23.09.2019	KOSONEN, Harri
CARRER, Giorgio	(33) Germany	POHJALAINEN, Teemu
BRIGNONE, Enzo	Germany	MODIG, Sakari
(51) D06F 39/02	Germany	SAPKOTA, Janak
(11) EP3786338	(51) D06M 10/06	(51) D21C 3/26
(21) EP20191973.5	D06M 11/50	D21C 9/10
(47) 01.11.2023	D06M 11/32	D21C 9/16
(22) 20.08.2020	D01C 3/00	(11) EP3800290
(54) STORAGE CONTAINER AND CLOTHES	(11) EP3044360	(21) EP20208219.4
TREATING MACHINE INCLUDING THE	(21) EP14781042.8	(47) 01.11.2023
SAME	(47) 01.11.2023	(22) 11.01.2013
(73) LG Electronics Inc.	(87) AT2014050201	(54) A LOW VISCOSITY KRAFT FIBER
(72) JUNG, Sungwoon	19.03.2015	HAVING REDUCED YELLOWING
JANG, Hunjun	(22) 11.09.2014	PROPERTIES AND METHODS OF
(31) 20190106711	(54) METHOD FOR CHLORINE-FREE ANTI-	MAKING AND USING THE SAME
(32) 29.08.2019	FELTING TREATMENT OF WOOL	(73) GP Cellulose GmbH
(33) Korea (Republic)	AND WOOL TREATED USING THIS	(72) NONNI, Arthur James
(51) D06F 58/10	METHOD	COURCHENE, Charles, E
D06F 58/20	(73) Schoeller GmbH & CoKG	CAMPBELL, Philip Reed
D06F 73/02	(72) RIEHL, Michael	DOWDLE, Steven Chad
(11) EP3824131	VALAKUZH, Jim	ENGLE, Joel Mark
(21) EP19860399.5	LOACKER, Peter	(31) 201261585833 P
(47) 01.11.2023	KRÜGER, Markus	(32) 12.01.2012
(87) KR2019011800	HASELWANDER, Kurt	(33) United States of America
19.03.2020	SIROKÝ, Ján	(51) D21C 5/00
(22) 11.09.2019	MAHMUD-ALI, Amalid	D21H 11/14
(54) CLOTHES CARE APPARATUS	LENNINGER, Margit	D21H 13/12
(73) Samsung Electronics Co., Ltd.	BECHTOLD, Thomas	C08J 11/00
(72) CHANG, Sung Ho	(31) 505792013	D01G 11/00
KIM, Dong Wook	(32) 12.09.2013	D21B 1/00
YUN, Kwon Chul	(33) Austria	D21B 1/02
JANG, Yong-Joon	(51) D06P 5/30	(11) EP3980597
(31) 20180109244	D05C 11/24	(21) EP20734108.2
(32) 12.09.2018	D05B 67/00	(47) 01.11.2023
(33) Korea (Republic)	D03J 1/04	(87) EP2020065036
(51) D06F 58/22	D04B 35/22	10.12.2020
D06F 25/00	D06B 11/00	(22) 29.05.2020
D06F 58/02	(11) EP3426834	(54) METHOD FOR PRODUCING A
B01D 46/00	(21) EP17763657.8	CELLULOSE PAPER MATERIAL MADE
(11) EP3666965	(47) 01.11.2023	OF OLD TEXTILES
(21) EP20151184.7	(87) SE2017050207	(73) LENZING AKTIENGESELLSCHAFT
(47) 01.11.2023	14.09.2017	(72) HERCHL, Richard
(22) 03.08.2016	(22) 07.03.2017	WEILACH, Christian
(54) LAUNDRY TREATING APPARATUS	(54) A SYSTEM AND METHOD FOR IN-	(31) 19178178
(73) LG Electronics Inc.	LINE TREATMENT OF THREAD FOR	(32) 04.06.2019
(72) KIM, Hyojun	USE WITH A THREAD CONSUMPTION	(33) European Patent Office (EPO)
HONG, Sokgie	DEVICE	(51) D21F 3/10
(31) 20150110194	(73) COLOREEL GROUP AB	(11) EP3623526
(32) 04.08.2015	(72) EKLIND, Martin	(21) EP19196106.9
(33) Korea (Republic)	STABERG, Joakim	(47) 01.11.2023
(51) D06F 95/00	(31) 1650301	(22) 09.09.2019
D06F 93/00	(32) 07.03.2016	(54) SEALING ARRANGEMENT AND
(11) EP3795740	(33) Sweden	SUCTION ROLL OF A FIBRE WEB
(21) EP20195532.5	(51) D21C 1/02	MACHINE, EQUIPPED WITH THE
(47) 01.11.2023	D21C 9/00	SEALING ARRANGEMENT
(22) 10.09.2020	(11) EP3966386	(73) Valmet Technologies Oy
(54) METHOD AND DEVICE FOR LOADING	(21) EP19726460.9	(72) GRAICHEN, René
AND / OR UNLOADING WASHING	(47) 01.11.2023	KAASALAINEN, Mikko
MACHINES, IN PARTICULAR WASHING	(87) FI2019050371	KETTUNEN, Heikki
MACHINES, DRYERS OR THE LIKE	19.11.2020	KONTTO, Antti
(73) Herbert Kannegiesser GmbH	(22) 10.05.2019	KOVANEN, Risto
(72) Heinz, Engelbert	(54) CELLULOSE MATERIAL	NIEMINEN, Kaale
Bringewatt, Wilhelm	PLASTICIZATION AND VISCOSITY	NYLUND, Markus
(31) 102020003085	CONTROLLED CELLULOSIC	PARVIAINEN, Seppo K
102019008672	MATERIAL	PITKÄNEN, Tatu
102019006649	(73) UPM-Kymmene Corporation	TUHKALA, Markku
(32) 22.05.2020	(72) VIRTANEN, Pasi	(31) 20185755
13.12.2019	RISTOLAINEN, Matti	(32) 11.09.2018

(33) Finland	ILOMÄKI, Jari	(54) SCREED ASSEMBLY FOR A ROAD FINISHER
(51) D21G 1/00	RÄISÄNEN, Antti	(73) Joseph Vögele AG
D21G 1/02	VAITTINEN, Henri	(72) PAWLIK, Christian
D21G 9/00	VANHALA, Tommi	
(11) EP4031707	VATANEN, Heikki	(51) E01H 5/07
(21) EP20780369.3	VILJANMAA, Mika	E01H 1/04
(47) 01.11.2023	(31) 20206052	E01H 5/12
(87) NL2020050580	(32) 23.10.2020	E01H 5/06
25.03.2021	(33) Finland	(11) EP3797194
(22) 21.09.2020	(51) E01B 3/46	(21) EP19807199.5
(54) CALENDER AND METHOD FOR CONTROLLING SUCH A CALENDER	(11) EP4121596	(47) 01.11.2023
(73) Ing. Gerritse Holding B.V.	(21) EP21713011.1	(87) CA2019050695
(72) GERRITSE, Jan	(47) 01.11.2023	28.11.2019
(31) 2023855	(87) EP2021057117	(22) 22.05.2019
(32) 19.09.2019	23.09.2021	(54) METHOD AND SYSTEM FOR MOVING AND REMOVING WINTER CONTAMINANTS FROM AIRFIELD AND ROADWAY PAVEMENTS USING A SYSTEM OF ATTACHMENTS
(33) Netherlands	(22) 19.03.2021	(73) Eagle Aerospace, Ltd.
(51) D21H 11/18	(54) SUPPORT FOR RAILWAY TRACK RAILS	(72) MCKEOWN, Stephen Lyle
D21H 11/20	(73) Baret	MCKEOWN, Samuel
D21H 21/10	(72) MOUSSU, Boris	CUDMORE, Paul Edward
(11) EP4185749	(31) 2002703	SHATTUCK, Ty
(21) EP22793421.3	(32) 19.03.2020	(31) 201862675309 P
(47) 01.11.2023	(33) France	(32) 23.05.2018
(87) EP2022076265	(51) E01B 26/00	(33) United States of America
30.03.2023	B61F 7/00	(51) E01H 5/08
(22) 21.09.2022	B61H 11/00	E01H 5/09
(54) METHOD FOR MANUFACTURING PAPER AND CARDBOARD	(11) EP3779044	E01H 1/00
(73) SNF Group	(21) EP18914590.7	E01H 5/04
(72) BARRIERE, Cyril	(47) 01.11.2023	(11) EP3680391
(31) 2110164	(87) CN2018106981	(21) EP18851399.8
(32) 27.09.2021	17.10.2019	(47) 01.11.2023
(33) France	(22) 21.09.2018	(87) CN2018104000
(51) D21H 17/33	(54) GROUND GAUGE CHANGING APPARATUS FOR GAUGE-CHANGEABLE WHEELSET	07.03.2019
D21H 17/55	(73) CRRQ QINGDAO SIFANG CO., LTD.	(22) 04.09.2018
D21H 17/56	(72) CHEN, Shuo	(54) AUTOMATIC SELF-MOVING SNOW REMOVAL DEVICE
D21H 17/00	LI, Zhongwen	(73) Positec Power Tools (Suzhou) Co., Ltd
D21H 21/18	WANG, Xu	(72) ZHAO, Fengli
D21H 21/20	QIAO, Qingfeng	ZHA, Xiahong
D21H 23/04	YU, Dahai	CHENG, Kun
(11) EP3246464	(31) 201810333101	(31) 201721257328 U
(21) EP17174548.2	(32) 13.04.2018	201710895458
(47) 01.11.2023	(33) China	201710787859
(22) 26.09.2012	(51) E01C 11/22	(32) 28.09.2017
(54) PAPER AND METHODS OF MAKING PAPER	C04B 28/04	28.09.2017
(73) Kemira Oyj	(11) EP3388578	04.09.2017
(72) LUO, Yuping	(21) EP18020151.9	(33) China
GRIGORIEV, Vladimir	(47) 01.11.2023	China
LU, Chen	(22) 13.04.2018	China
ROSENCRANCE, Scott	(54) DRY COMPOSITION FOR PREPARING DRAINING CONCRETE, METHOD FOR PREPARING CONCRETE WITH SAID COMPOSITION AND DRAINING CONCRETE OBTAINED WITH THE METHOD	(51) E01H 5/09
(31) 201161541717 P	(73) DRAINCOLOR	(11) EP3967811
(32) 30.09.2011	(72) Oliveira-Fernandez, Alain	(21) EP21195408.6
(33) United States of America	Oliveira-Fernandez, Catherine	(47) 01.11.2023
(51) D21H 23/48	(31) 1770385	(22) 07.09.2021
B05C 1/08	(32) 14.04.2017	(54) SNOW THROWER
D21H 23/56	(33) France	(73) Globe (Jiangsu) Co., Ltd.
D21H 19/84	(51) E01C 19/48	(72) LI, Shuhua
D21H 21/16	(11) EP4144916	(31) 202021966141 U
(11) EP3988713	(21) EP21194687.6	202010945490
(21) EP21196576.9	(47) 01.11.2023	(32) 10.09.2020
(47) 01.11.2023	(22) 03.09.2021	10.09.2020
(22) 14.09.2021		(33) China
(54) METHOD OF TREATING A FIBER WEB AND A TREATMENT SYSTEM FOR TREATMENT OF A FIBER WEB		China
(73) Valmet Technologies Oy		(51) E02B 5/08
(72) AHVENNIEMI, Vesa		E02B 9/04

(11) EP3896228	(33) Netherlands	(73) Clark Equipment Company
(21) EP21179028.2	(51) E02D 7/26	(72) HANSEN, Ronald, S.
(47) 01.11.2023	E02D 13/06	(31) 201762580747 P
(22) 10.06.2020	E02D 15/08	(32) 02.11.2017
(54) WATER INTAKE STRUCTURE	E02D 7/20	(33) United States of America
(73) Sea to Sky Energy Solutions Corp.	(11) EP4004293	(51) E02F 9/20
(72) SZOKE, Simon	(21) EP20760538.7	E02F 9/22
MACDONALD, Sam	(47) 01.11.2023	F16H 61/47
PACZEK, Lucas	(87) IB2020057028	(11) EP3660226
ZELL, Graham	28.01.2021	(21) EP18863427.3
HALLIDAY, David	(22) 24.07.2020	(47) 01.11.2023
ZELL, Peter	(54) DEVICE FOR DRIVING PILES INTO	(87) JP2018032784
ROBINSON, Brett	THE GROUND	04.04.2019
DE LA TORRE, Mauricio Rene Ponga	(73) Geosec S.r.l.	(22) 04.09.2018
ZAKERSHOBEIRI, Mohammad Amin	(72) OCCHI, Marco	(54) WHEEL LOADER
(31) 201962860863 P	OCCHI, Andrea	(73) Hitachi Construction Machinery Co., Ltd.
(32) 13.06.2019	GUALERZI, Daniele	(72) HYODO, Koji
(33) United States of America	(31) 201900012816	AOKI, Isamu
(51) E02D 1/02	(32) 24.07.2019	TANAKA, Tetsuji
G02B 23/24	(33) Italy	NUKII, Masaki
E21B 47/002	(51) E02D 29/02	(31) 2017191677
H04N 23/50	E04C 1/00	(32) 29.09.2017
H04N 23/66	E04C 1/39	(33) Japan
H04N 23/695	E01F 8/02	(51) E02F 9/22
(11) EP3859086	E04F 13/08	F15B 11/16
(21) EP20187142.3	E04B 2/02	(11) EP3492661
(47) 01.11.2023	(11) EP2959065	(21) EP17834294.5
(22) 22.07.2020	(21) EP14754912.5	(47) 01.11.2023
(54) BORESCOPE FOR BOREHOLE	(47) 01.11.2023	(87) JP2017026830
INSPECTION	(87) CA2014050129	01.02.2018
(73) Aver Technologies, Inc.	28.08.2014	(22) 25.07.2017
(72) AVASARALA, Swamy Kumar V.	(22) 24.02.2014	(54) EXCAVATOR, AND CONTROL VALVE
AVASARALA, Pranav	(54) WALL ASSEMBLY	FOR EXCAVATOR
AVASARALA, Pallavi	(73) Les Matériaux de Construction Oldcastle	(73) Sumitomo (S.H.I.) Construction
SUNKU, Sohan Kumar	Canada, Inc.	Machinery Co., Ltd.
RACHAKONDA, Sahiti	(72) CASTONGUAY, Bertin	(72) KUROKAWA, Tomoki
(31) 202016778732	DECLOS, Robert	(31) 2016150818
(32) 31.01.2020	RÉMILLARD, Joël	(32) 29.07.2016
(33) United States of America	PENTERMAN, John	(33) Japan
(51) E02D 5/80	(31) 201361768858 P	(51) E03B 7/07
E02D 27/42	(32) 25.02.2013	D06F 39/08
E04H 12/22	(33) United States of America	E03C 1/02
E04H 17/22	(51) E02F 3/32	(11) EP4015717
E02D 27/48	E02F 9/10	(21) EP21215863.8
(11) EP3901375	E02F 9/08	(47) 01.11.2023
(21) EP21161957.2	(11) EP4130390	(22) 20.12.2021
(47) 01.11.2023	(21) EP22176448.3	(54) INSTALLATION BOX
(22) 11.03.2021	(47) 01.11.2023	(73) HAB Invest AG
(54) SUPPORT ASSEMBLY	(22) 31.05.2022	(72) BEYELER, Hermann Alexander
(73) Mutschler, Friedolf	(54) WORKING VEHICLE	(31) 16342020
(72) Mutschler, Friedolf	(73) Takeuchi Mfg. Co., Ltd.	(32) 21.12.2020
(31) 102020109352	(72) KUMEUCHI, Kengo	(33) Switzerland
(32) 03.04.2020	OKUTANI, Shumpei	(51) E03B 7/07
(33) Germany	MATSUMOTO, Tetsuya	G01F 15/06
(51) E02D 7/06	(31) 2021128742	(11) EP4034718
E02D 13/04	(32) 05.08.2021	(21) EP20799814.7
(11) EP3519635	(33) Japan	(47) 01.11.2023
(21) EP17771780.8	(51) E02F 3/36	(87) IB2020058849
(47) 01.11.2023	B66F 11/04	01.04.2021
(87) EP2017074525	B66F 17/00	(22) 22.09.2020
05.04.2018	E02F 3/96	(54) SYSTEM FOR RESTRICTING AND
(22) 27.09.2017	(11) EP3704314	MONITORING POTABLE WATER
(54) PILE GUIDE COMPRISING A BASE	(21) EP18812430.9	FLOW, SUITABLY FOR WATER UTILITY
FRAME AND A GUIDE MEMBER	(47) 01.11.2023	PROVIDERS, AND PROCEDURE FOR
(73) IQIP Holding B.V.	(87) US2018059000	ITS USE
(72) GUNTER, David Howel	09.05.2019	(73) Dunantuli Regionalis Vizmu Zartkoruen
(31) 2017560	(22) 02.11.2018	Mukodo Reszventarsasag
(32) 30.09.2016	(54) EXCAVATOR MAN-LIFT	Nagy, Imre

(72) KRISZTIN, Róbert NAGY, Imre (31) 1900334 (32) 24.09.2019 (33) Hungary	(22) 20.09.2019 (54) IMMISCIBLE LIQUIDS SEPARATION APPARATUS AND METHOD (73) ACO Ahlmann SE & Co. KG (72) SUK, Marek SABINIOK, Zbynek LANGPAUL, Petr (31) 201815872 (32) 28.09.2018 (33) United Kingdom	(32) 27.08.2021 (33) Germany
(51) E03C 1/02 E03C 1/042 (11) EP4119732 (21) EP21185771.9 (47) 01.11.2023 (22) 15.07.2021 (54) SEALING CAP FOR SANITARY PIPES AND AN ACCESSORY FOR THE CORRECT PLACEMENT OF SANITARY PIPES	(51) E04B 1/21 E04B 2/86 E04B 1/41 E04B 1/04 E04B 1/76 (11) EP3725965 (21) EP20169683.8 (47) 01.11.2023 (22) 15.04.2020 (54) BUILDING MADE WITH A MASONRY INCLUDING DISPOSABLE FORMWORK FOR INSULATED MASONRY	(51) E04F 10/06 E06B 9/42 (11) EP3933139 (21) EP21177983.0 (47) 01.11.2023 (22) 07.06.2021 (54) AWNING (73) STOBAG AG (72) FURRER, Josua (31) 102020115421 (32) 10.06.2020 (33) Germany
(73) TG VLOERVERWARMING besloten vennootschap (72) TORMANS, Tonny Jenny P.	(73) Pontarolo Engineering S.p.a. (72) PONTAROLO, Valerio PONTAROLO, Luca PONTAROLO, Valentina (31) 201900006130 (32) 19.04.2019 (33) Italy	(51) E04F 10/06 E06B 9/50 (11) EP4015734 (21) EP21216176.4 (47) 01.11.2023 (22) 20.12.2021 (54) A ROLLER BLIND AND A PROCESS FOR MOUNTING A ROLLER BLIND. (73) GIBUS S.p.A. (72) ZANOTTO, Vanni ROSSATO, Marco (31) 202000031646 (32) 21.12.2020 (33) Italy
(51) E03D 9/03 C11D 3/37 C11D 17/00 C11D 17/04 C11D 3/50 (11) EP3635186 (21) EP18732416.5 (47) 01.11.2023 (87) GB2018051533 13.12.2018 (22) 05.06.2018 (54) IN-THE-BOWL DISPENSING DEVICE (73) Reckitt Benckiser (Brands) Limited (72) CARVER, Kris DELGIGANTE, Jesse FLETCHER, Henry Matthew Lawrence HAINSWORTH, John Kenneth SMITH, Iain Christopher THAWER, Alim (31) 201708969 (32) 06.06.2017 (33) United Kingdom	(51) E04B 2/92 E04C 2/26 E04C 2/284 (11) EP4079984 (21) EP21382329.7 (47) 01.11.2023 (22) 19.04.2021 (54) PANEL AND SELF-SUPPORTING MODULAR FACADE CLADDING SYSTEM INCLUDING SAID PANEL	(51) E04F 10/10 (11) EP3929373 (21) EP21178651.2 (47) 01.11.2023 (22) 09.06.2021 (54) CANOPY WITH A CENTER-DRIVEN LONG LOUVER OPENING AND CLOSING STRUCTURE (73) Yotrio Group Co., Ltd. (72) XIE, Jianqiang BO, Hong (31) 202010517040 (32) 09.06.2020 (33) China
(51) E03F 5/14 B01D 29/44 B01D 29/64 E02B 8/02 C02F 11/122 C02F 11/131 (11) EP3477011 (21) EP18170380.2 (47) 01.11.2023 (22) 02.05.2018 (54) ASSEMBLY AND METHOD FOR SEPARATING AND REMOVING MATERIAL TO BE SCREENED FROM WASTE WATER (73) Huber SE (72) Starcevic, Dr. Nikica Kerschensteiner, Jürgen Neger, Anton (31) 102017124991 (32) 25.10.2017 (33) Germany	(73) Lignum Tech, S.L.U. (72) Llorente Monleón, Sandra (51) E04B 5/38 E04C 5/06 (11) EP3260620 (21) EP17159854.3 (47) 01.11.2023 (22) 08.03.2017 (54) SEMI-PRECAST SLAB WITH SLIDING REINFORCING CAGE (73) KP1 (72) REY, Frédéric DUPONT, Stéphane (31) 1655825 (32) 22.06.2016 (33) France	(51) E04F 13/08 E04F 15/10 E04F 13/18 E04F 15/02 B32B 3/06 B32B 3/30 B32B 7/12 B32B 9/02 B32B 9/04 B32B 21/08 B32B 27/06 B32B 27/08 B32B 27/30 B32B 27/20 B32B 27/32 B32B 27/36 B32B 27/40 (11) EP4087989 (21) EP21700067.8 (47) 01.11.2023 (87) IB2021050164 15.07.2021 (22) 11.01.2021 (54) DECORATIVE SURFACE COVERING ELEMENT, COVERING WITH SUCH ELEMENT, AND METHOD OF
(51) E03F 5/16 B01D 17/02 (11) EP3856983 (21) EP19778903.5 (47) 01.11.2023 (87) EP2019075399 02.04.2020	(54) DEVICE AND METHOD FOR TENSIONING AT LEAST ONE WEB OF FABRIC (73) Richter lighting technologies GmbH (72) Richter, Bernd Tischer, Ingo (31) 102021122214	



PRODUCING SUCH A DECORATIVE SURFACE COVERING ELEMENT	E04G 1/38	E04B 5/23
(73) NORTHANN BUILDING SOLUTIONS LLC	E04G 3/20	(11) EP3974599
(72) Li, Lin	E04G 3/22	(21) EP21198805.0
(31) 2024631	E04G 5/02	(47) 01.11.2023
(32) 09.01.2020	E04G 5/06	(22) 24.09.2021
(33) Netherlands	E04G 5/08	(54) METHOD FOR THE TREATMENT OF WOODEN FLOORS IN BUILDINGS, IN PARTICULAR OF PROTECTED WOODEN FLOORS IN BUILDINGS
(51) E04F 15/02	E04G 5/10	(73) Friedrich, Mark
E04F 13/08	E04G 7/30	Friedrich, Matthias
(11) EP4012134	E04G 5/04	(72) Friedrich, Mark
(21) EP20213244.5	(11) EP3957807	Friedrich, Matthias
(47) 01.11.2023	(21) EP21191308.2	(31) 102020125111
(22) 10.12.2020	(47) 01.11.2023	(32) 25.09.2020
(54) FASTENING ELEMENT FOR FASTENING VISIBLE PROFILES AND TERRACE SYSTEM HEREWITH	(22) 13.08.2021	(33) Germany
(73) Gaisbauer, Günther	(54) A SCAFFOLDING SUPPORT STRUCTURE AND A METHOD FOR ASSEMBLING SCAFFOLDING	(51) E04G 23/02
(72) Gaisbauer, Günther	(73) Pica teline Oy	E04F 17/00
(51) E04F 15/02	(72) TYPPÖ, Aapo	(11) EP3712355
E04F 15/04	(31) 20205803	(21) EP20162166.1
(11) EP3333338	(32) 18.08.2020	(47) 01.11.2023
(21) EP17206318.2	(33) Finland	(22) 10.03.2020
(47) 01.11.2023	(51) E04G 3/24	(54) METHOD FOR RETROFITTING A BUILDING WITH AN ELEVATOR AND SET OF COMPONENTS FOR CARRYING OUT THE METHOD
(22) 14.08.2012	E02D 29/02	(73) Greschbach, Manfred
(54) MECHANICAL LOCKING SYSTEM FOR BUILDING PANELS	E04G 5/06	(72) Greschbach, Manfred
(73) Ceraloc Innovation AB	E04G 21/32	(31) 102019107165
(72) PERVAN, Tony	(11) EP3967831	(32) 20.03.2019
(72) PERVAN, Darko	(21) EP21195606.5	(33) Germany
(31) 1150739	(47) 01.11.2023	(51) E04G 23/02
201161523571 P	(22) 08.09.2021	G21F 1/10
(32) 15.08.2011	(54) ANTI-FALL DEVICE FOR REINFORCED SOIL	G21F 9/28
15.08.2011	(73) Gstrein, Reinhard	G21F 7/00
(33) Sweden	(72) Gstrein, Reinhard	G21F 9/30
United States of America	(31) 507742020	(11) EP3611315
(51) E04F 19/06	(32) 11.09.2020	(21) EP19165888.9
E04D 13/04	(33) Austria	(47) 01.11.2023
E04F 19/02	(51) E04G 5/04	(22) 28.03.2019
(11) EP4112841	E04G 21/32	(54) TANK OF A BIOGAS PLANT OR SLURRY TANK
(21) EP22181435.3	E04B 2/74	(73) SK Wiegrink Beteiligungs GmbH
(47) 01.11.2023	E04G 15/04	(72) Moddenborg, Dirk
(22) 28.06.2022	E04G 15/06	Hassenberg, Klaus
(54) PROFILE FOR TERRACES AND BALCONIES	E04G 21/18	(31) 102018006470
(73) Progress Profiles SPA	E04B 1/41	(32) 16.08.2018
(72) BORDIN, Dennis	(11) EP4060143	(33) Germany
(31) 202100016958	(21) EP22161955.4	(51) E04H 1/12
(32) 29.06.2021	(47) 01.11.2023	E03D 7/00
(33) Italy	(22) 14.03.2022	E03D 13/00
(51) E04F 21/08	(54) CONSTRUCTION ELEMENT	(11) EP4065796
E04B 1/76	(73) KP1	(21) EP20811647.5
(11) EP3246490	(72) HUPIN, Joël	(47) 01.11.2023
(21) EP17171204.5	(31) 2102625	(87) EP2020083707
(47) 01.11.2023	(32) 16.03.2021	03.06.2021
(22) 16.05.2017	(33) France	(22) 27.11.2020
(54) METHOD AND DEVICE FOR INJECTING INJECTED MATERIAL INTO INSULATING MATERIAL CHAMBERS OF COMPONENTS	(51) E04G 21/12	(54) OUTDOOR SANITATION SYSTEM INCLUDING AN URINAL UNIT FOR TEMPORARY PLACEMENT AND FREQUENT TRANSPORT
(73) isofloc AG	(11) EP3945180	(73) DaNiFé B.V.
(72) Jaenke, Alexander	(21) EP21188684.1	(72) VAN ZUIJLEN, Johan
Lieberherr, Samuel	(47) 01.11.2023	(31) 2024340
(31) 16170545	(22) 30.07.2021	2024339
(32) 20.05.2016	(54) BINDING MACHINE	(32) 29.11.2019
(33) European Patent Office (EPO)	(73) Max Co., Ltd.	29.11.2019
(51) E04G 1/15	(72) MORIMURA, Kouichirou	(33) Netherlands
	YOSHIDA, Yusuke	
	(31) 2020131158	
	(32) 31.07.2020	
	(33) Japan	
	(51) E04G 23/02	
	E04B 5/12	
	E04C 3/29	

Netherlands	(32) 24.12.2020	(32) 11.05.2018
(51) E04H 4/14	(33) Italy	11.05.2018
B05B 12/08	(51) E04H 17/26	(33) China
B08B 3/02	B25B 25/00	China
B08B 3/08	(11) EP3850172	(51) E05B 17/00
A47K 3/022	(21) EP19861096.6	E05B 17/04
A61H 35/00	(47) 01.11.2023	E05B 17/20
(11) EP4034736	(87) AU2019050939	E05C 1/00
(21) EP20780695.1	19.03.2020	E05C 1/04
(47) 01.11.2023	(22) 04.09.2019	E05B 77/44
(87) EP2020076956	(54) PARALLELOGRAM WIRE GRIPPING	E05B 85/06
01.04.2021	APPARATUS	(11) EP4153830
(22) 25.09.2020	(73) Wireman Pty Limited	(21) EP21734826.7
(54) DEVICE FOR CLEANING THE LOWER	(72) LOWREY, Ian	(47) 01.11.2023
LIMBS OF A USER WISHING TO	OLD, Fraser Patison	(87) EP2021066838
ACCESS A BATHING AREA	(31) 2019900744	30.12.2021
(73) CLP	2018903459	(22) 21.06.2021
(72) MENEZ, Yann	(32) 07.03.2019	(54) LOCK COMPRISING A SLIDER WHICH
POLICARD, Jérôme	14.09.2018	IS FLUSH RELATIVE TO A SOLE
PERRET, Thibaud	(33) Australia	PLATE PROVIDED WITH A RECESS
(31) 1910738	Australia	FOR RECEIVING A TRANSLATION
(32) 27.09.2019	(51) E05B 1/00	STOP OF THE SLIDER
(33) France	E05B 17/10	(73) IMC Créations
(51) E04H 4/16	F24C 7/08	(72) NAUDET, James
(11) EP3835515	F25D 23/00	(31) 2006711
(21) EP20802942.1	F25D 27/00	(32) 26.06.2020
(47) 01.11.2023	G02B 6/00	(33) France
(87) CN2020076270	E05B 15/16	(51) E05B 17/00
12.11.2020	F24C 15/02	E05C 3/04
(22) 21.02.2020	F25D 23/02	E05B 15/02
(54) MECHANISM FOR DETECTING	(11) EP3918157	B01F 35/10
OBSTACLES AND MECHANICALLY	(21) EP20702251.8	B01F 27/702
REVERSING A DIRECTION OF A POOL	(47) 01.11.2023	(11) EP3483362
CLEANER	(87) EP2020051673	(21) EP18204476.8
(73) WYBOTICS Co., LTD.	06.08.2020	(47) 01.11.2023
(72) YU, Qian	(22) 23.01.2020	(22) 06.11.2018
CEN, Pu	(54) HANDLE FOR A DOOR OF A	(54) FOOD HANDLING APPARATUS WITH
HUANG, Jiancheng	DOMESTIC APPLIANCE WITH	LOCKING DEVICE
XU, Liangliang	SPECIFIC LIGHT GUIDANCE, AND	(73) Tetra Laval Holdings & Finance S.A.
(31) 201910368697	DOOR AND DOMESTIC APPLIANCE	(72) LORRY, Florent
(32) 05.05.2019	(73) BSH Hausgeräte GmbH	MALECOT, Blandine
(33) China	(72) JELL, Peter	(31) 17201145
(51) E04H 12/08	HUBER, Maximilian	(32) 10.11.2017
(11) EP3882416	MAYER, Jakob	(33) European Patent Office (EPO)
(21) EP20164146.1	KALTENHAUSER, Alexander	(51) E05B 27/00
(47) 01.11.2023	BARTH, Veronika	E05B 35/00
(22) 19.03.2020	BICK, Charlotte	E05B 47/00
(54) STEEL STRUCTURE, ESPECIALLY	(31) 102019201325	(11) EP4045743
WIND TURBINE AND METHOD FOR	(32) 01.02.2019	(21) EP21719866.2
INSTALLING A WIND TURBINE	(33) Germany	(47) 01.11.2023
(73) Siemens Gamesa Renewable Energy A/	(51) E05B 1/00	(87) EP2021059428
S	E05B 47/00	28.10.2021
(72) Skjaerbaek, Poul	(11) EP3751077	(22) 12.04.2021
Soerensen, Johnny	(21) EP19800255.2	(54) CYLINDER LOCK AND LOCKING
(51) E04H 15/18	(47) 01.11.2023	DEVICE
E04H 15/64	(87) CN2019086454	(73) EVVA Sicherheitstechnologie GmbH
(11) EP4019713	14.11.2019	(72) WITTMANN, Christian
(21) EP21210566.2	(22) 10.05.2019	RIESEL, Michael
(47) 01.11.2023	(54) CONTROL METHOD OF ELECTRONIC	(31) 503362020
(22) 25.11.2021	LOCK AND ELECTRONIC LOCK	(32) 20.04.2020
(54) ARCH FRAME FOR A TENT	BASED ON THE SAME	(33) Austria
STRUCTURE AND TENT STRUCTURE	(73) Wenzhou Yeeka Lock Technology	(51) E05B 63/20
(73) G&G Partners S.r.l.	Co.,Ltd.	E05C 9/02
(72) GNECCHI, Massimo	(72) XIANG, Wenguang	E05C 9/04
GIRELLI, Giovanni	LI, Qianxing	(11) EP3622137
GIRELLI, Giuseppe	ZHOU, Yanyi	(21) EP18728744.6
GIUSTACCHINI, Pierangelo	(31) 201810447253	(47) 01.11.2023
(31) 202000032450	201820699103 U	(87) IB2018053190

15.11.2018	SZEGENY, Peter	(51) E05D 13/00
(22) 08.05.2018	(31) 102019112470	E05D 15/06
(54) LOCK	(32) 13.05.2019	(11) EP3508673
(73) Fedeli, Benedetto	(33) Germany	(21) EP17845293.4
(72) Fedeli, Benedetto	(51) E05C 9/18	(47) 01.11.2023
(31) 201700049631	E05B 63/00	(87) CN2017098635
(32) 08.05.2017	E05B 15/04	08.03.2018
(33) Italy	E05B 15/00	(22) 23.08.2017
(51) E05B 67/06	(11) EP3798396	(54) SELF-BALANCING SLIDING WHEEL
E05B 67/22	(21) EP20208940.5	DEVICE
E05B 47/00	(47) 01.11.2023	(73) ZHONGSHAN OPIKE HARDWARE
(11) EP3938601	(22) 04.05.2016	PRODUCTS CO., LTD
(21) EP20770747.2	(54) CLOSURE CAPS	(72) XU, Jiangde
(47) 01.11.2023	(73) MACO Technologie GmbH	(31) 201621011983 U
(87) SG2020050123	(72) GREISBERGER, Klaus	201610782794
17.09.2020	COVIC, Dragan	(32) 31.08.2016
(22) 10.03.2020	GEISSLER, Jürgen	31.08.2016
(54) A LOCK AND A LOCKING MECHANISM	(31) 102015108557	(33) China
ASSOCIATED WITH THE LOCK	(32) 29.05.2015	China
(73) Igloocompany Pte. Ltd.	(33) Germany	(51) E05D 15/40
(72) NG, Matthew Mantik	(51) E05C 19/16	E05D 3/06
CHAN, Chun Chiang	E05B 65/00	E05D 3/16
(31) 10201902145P	E05B 53/00	(11) EP3564471
(32) 11.03.2019	(11) EP3995658	(21) EP19168329.1
(33) Singapore	(21) EP21206591.6	(47) 01.11.2023
(51) E05B 81/06	(47) 01.11.2023	(22) 10.04.2019
E05B 81/20	(22) 05.11.2021	(54) ARTICULATED LEVER FOR A
E05B 81/34	(54) A MAGNETIC LATCH FOR FASTENING	DEVICE FOR MOVING A PIECE OF
E05B 81/42	A HINGED CLOSURE MEMBER TO A	FURNITURE ON A BODY OF A PIECE
F16H 25/12	SUPPORT	OF FURNITURE
F16H 25/18	(73) Locinox	(73) Grass GmbH
(11) EP4004314	(72) TALPE, Joseph	(72) Krüdener, Boris
(21) EP20754156.6	(31) 20206202	Herper, Markus
(47) 01.11.2023	(32) 06.11.2020	(31) 202018102086 U
(87) DE2020100649	(33) European Patent Office (EPO)	(32) 17.04.2018
28.01.2021	(51) E05D 3/16	(33) Germany
(22) 23.07.2020	E05F 1/12	(51) E05D 15/526
(54) DRIVE UNIT FOR MOTOR-VEHICLE	E05F 5/02	(11) EP4108878
APPLICATIONS	E05F 5/10	(21) EP21180908.2
(73) Kiekert AG	E05D 11/10	(47) 01.11.2023
(72) SCHIFFER, Holger	(11) EP4112857	(22) 22.06.2021
SCHOLZ, Michael	(21) EP22188428.1	(54) WINDOW OR DOOR ARRANGEMENT
INAN, Ömer	(47) 01.11.2023	AND SAFETY DEVICE FOR A
SZEGENY, Peter	(22) 13.10.2017	WING OF A WINDOW OR DOOR
(31) 102019119876	(54) SNAP-ACTING HINGE WITH DAMPED	ARRANGEMENT
(32) 23.07.2019	CLOSURE AND OPENING ANGLE OF	(73) Gretsch-Unitas GmbH Baubeschläge
(33) Germany	MORE THAN 90°	(72) West, Felix
(51) E05B 81/14	(73) D.G.N. S.R.L.	Vaith, Alexander
E05B 77/26	(72) ZETTI, Daniele	(51) E05F 1/10
E05B 77/12	(31) 201600104173	(11) EP3486417
E05B 81/46	(32) 18.10.2016	(21) EP17202519.9
E05B 81/76	(33) Italy	(47) 01.11.2023
E05B 77/04	(51) E05D 7/12	(22) 20.11.2017
E05B 77/28	(11) EP3580418	(54) LID POSITIONING DEVICE
E05B 81/30	(21) EP17711379.2	(73) FLAP Competence Center kft
(11) EP3969699	(47) 01.11.2023	(72) Balla, Gábor
(21) EP20726681.8	(87) TR2017000028	Bendefy, András
(47) 01.11.2023	16.08.2018	(51) E05F 1/12
(87) DE2020100352	(22) 13.02.2017	B65F 1/00
19.11.2020	(54) SIMPLY FITTED FURNITURE HINGE	E05F 3/14
(22) 29.04.2020	(73) Samet Kalip Ve Madeni Esya San. Ve	E05F 3/20
(54) MOTOR VEHICLE DOOR LOCK	Tic. A.S.	(11) EP3862520
(73) Kiekert AG	(72) CAPUR, Ertaç	(21) EP21152476.4
(72) SCHIFFER, Holger	ORTEGA, Scott	(47) 01.11.2023
SCHOLZ, Michael	KIZILTAN, Ufuk	(22) 20.01.2021
INAN, Ömer	BUCK, Daniel Kenneth	(54) HINGE ASSEMBLY
SCHÖNENBERG, Thomas	TANRIVERDI, Himmet	(73) SACS Aerospace GmbH
SCHMITZ, Andreas		(72) Rapp, Andreas

Moser, Roland	(47) 01.11.2023	(47) 01.11.2023
(31) 102020201318	(87) EP2019062574	(22) 30.07.2019
(32) 04.02.2020	21.11.2019	(54) EXTENSION LADDER, SYSTEM AND METHOD
(33) Germany	(22) 16.05.2019	(73) WERNER CO.
(51) E05F 15/40	(54) CONTROL ARRANGEMENT AND ENTRANCE SYSTEM COMPRISING A CONTROL ARRANGEMENT	(72) MORA, Daniel C. KING, Kendal
E05F 15/603	(73) ASSA ABLOY Entrance Systems AB	(31) 201816053407
E05F 15/632	(72) DREYER, Roger	(32) 02.08.2018
E05F 15/659	HOMSSI, Rebeca	(33) United States of America
(11) EP3688263	(31) 1830164	(51) E06C 5/04
(21) EP18786687.6	(32) 18.05.2018	(11) EP3992416
(47) 01.11.2023	(33) Sweden	(21) EP20425045.0
(87) EP2018076418	(51) E06B 3/54	(47) 01.11.2023
04.04.2019	E06B 3/263	(22) 30.10.2020
(22) 28.09.2018	(11) EP3805508	(54) ANGLE FOLDED EGRESS LADDER
(54) METHOD AND DEVICE FOR DETECTING THE WEAR STATE OF A COMPONENT OF A DOOR DRIVE SYSTEM OF A RAIL VEHICLE	(21) EP20198884.7	(73) Deere & Company
(73) Knorr-Bremse Gesellschaft mit beschränkter Haftung	(47) 01.11.2023	Mazzotti S.r.l.
(72) BRAMAUER, Johann	(22) 29.09.2020	(72) WUBBEN, Thomas M.
(31) 102017124599	(54) BLOCKING	FAUSCH, Joshua J.
102017122819	(73) Herzberger, Harald	JORDAN, Daniel C.
(32) 20.10.2017	(72) Herzberger, Harald	PANTANO, Stefano
29.09.2017	(31) 102019126907	(51) E21B 7/04
(33) Germany	(32) 07.10.2019	E21B 7/20
Germany	(33) Germany	(11) EP4083368
(51) E05F 15/43	(51) E06B 9/68	(21) EP21170950.6
E05F 15/73	E05F 15/40	(47) 01.11.2023
(11) EP3610112	(11) EP3765700	(22) 28.04.2021
(21) EP18718738.0	(21) EP19713549.4	(54) METHOD FOR LAYING PIPING UNDERGROUND
(47) 01.11.2023	(47) 01.11.2023	(73) LMR Drilling GmbH
(87) EP2018058814	(87) GB2019050695	(72) Fengler, Ernst
18.10.2018	19.09.2019	(51) E21B 10/42
(22) 06.04.2018	(22) 12.03.2019	B23P 6/04
(54) CONTROL ARRANGEMENT FOR AN ENTRANCE SYSTEM HAVING ONE OR MORE MOVABLE DOOR MEMBERS	(54) SAFETY DEVICE FOR A MOVABLE BARRIER SYSTEM	C23C 26/00
(73) ASSA ABLOY Entrance Systems AB	(73) Ansa Door Systems Limited	B23K 15/00
(72) DREYER, Roger	(72) PINCHER, Steven	B23K 26/34
(31) 1730102	(31) 201803931	C23C 24/10
(32) 10.04.2017	(32) 12.03.2018	E21B 10/43
(33) Sweden	(33) United Kingdom	G05B 15/02
(51) E05F 15/44	(51) E06C 1/12	G05B 19/4093
B60J 10/86	E06C 7/02	B33Y 10/00
B60J 10/40	E06C 7/04	B23K 101/20
(11) EP3847332	(11) EP3943707	B23K 103/18
(21) EP19765687.9	(21) EP21186536.5	(11) EP3332080
(47) 01.11.2023	(47) 01.11.2023	(21) EP16834010.7
(87) EP2019073682	(22) 19.07.2021	(47) 01.11.2023
12.03.2020	(54) EXTENSION LADDER AND METHODS OF MAKING AND USING AN EXTENSION LADDER	(87) US2016054928
(22) 05.09.2019	(73) WERNER CO.	09.02.2017
(54) PROTECTION DEVICE FOR A DOOR LEAF FOR A MOTOR VEHICLE, AND DOOR DEVICE FOR A MOTOR VEHICLE	(72) SCHEURICH, Michael	(22) 30.09.2016
(73) Knorr-Bremse Gesellschaft mit beschränkter Haftung	LENTINE, Tek	(54) METHOD OF FORMING EARTH-BORING TOOLS
(72) BRAMAUER, Johann	LAURICELLA, Jerry	(73) Baker Hughes Holdings LLC
HIRTENLEHNER, Thomas	DACIC, Slavisa	(72) OXFORD, James Andy
SCHAFFER, Helmut	HUGHES, Devin	FOLKS, Gregory D.
JETZINGER, Peter	POZGAY, David	WAGENHEIM, Christoph
(31) 102018121924	(31) 202163174224 P	(31) 201615227261
(32) 07.09.2018	202063055249 P	(32) 03.08.2016
(33) Germany	(32) 13.04.2021	(33) United States of America
(51) E05F 15/73	22.07.2020	(51) E21B 19/10
(11) EP3794196	(33) United States of America	E21B 19/24
(21) EP19728322.9	United States of America	(11) EP4127385
	(51) E06C 1/12	(21) EP21715031.7
	E06C 7/06	(47) 01.11.2023
	E06C 7/08	(87) US2021020932
	(11) EP3604730	30.09.2021
	(21) EP19189209.0	(22) 04.03.2021

(54) SPIDERS CAPABLE OF HANDLING WELL COMPONENTS OF MULTIPLE SIZES	H05B 6/50 (11) EP3277919 (21) EP16774417.6	COUVES, John William CROUCH, John Henry WILLIAMS, John Dale
(73) Weatherford Technology Holdings, LLC	(47) 01.11.2023	(31) 201714649
(72) AMEZAGA, Federico	(87) US2016025903	(32) 12.09.2017
(31) 202062994000 P	06.10.2016	(33) United Kingdom
(32) 24.03.2020	(22) 04.04.2016	(51) E21B 44/00
(33) United States of America	(54) APPARATUS AND METHOD OF FOCUSED IN-SITU ELECTRICAL HEATING OF HYDROCARBON BEARING FORMATIONS	(11) EP3204597 (21) EP15771946.9 (47) 01.11.2023 (87) EP2015072481
(51) E21B 33/038	(73) Yelundur, Rama Rau	14.04.2016
E21B 33/043	(72) Yelundur, Rama Rau	(22) 29.09.2015
(11) EP3894657	(31) 201562178148 P	(54) APPARATUS FOR POWER GENERATION IN A FLUID SYSTEM
(21) EP18839964.6	(32) 03.04.2015	(73) Tendeka AS
(47) 01.11.2023	(33) United States of America	(72) HUNTER, John
(87) US2018065126	(51) E21B 41/10	(31) 201417732
18.06.2020	B63B 21/50	(32) 07.10.2014
(22) 12.12.2018	F16B 2/16	(33) United Kingdom
(54) ROTATING INDEXING COUPLING (RIC) ASSEMBLY FOR INSTALLATION AND ORIENTATION OF A SUBSEA PRODUCTION TREE	F16B 7/02	(51) E21B 47/10
(73) FMC Technologies, Inc.	(11) EP4048859	E21B 47/12
(72) MURPHY, Richard	(21) EP20772370.1	G02B 6/44
(51) E21B 33/12	(47) 01.11.2023	H02G 1/08
E21B 29/02	(87) GB2020052155	(11) EP3485141
E21B 33/134	29.04.2021	(21) EP17742532.9
(11) EP3698013	(22) 08.09.2020	(47) 01.11.2023
(21) EP18868865.9	(54) MOUNTING DEVICE FOR AN ELONGATE MEMBER	(87) GB2017052114
(47) 01.11.2023	(73) First Subsea Limited	25.01.2018
(87) US2018050814	(72) THOMSON, Craig Richard	(22) 18.07.2017
25.04.2019	LITTLE, Anthony John	(54) OPTICAL FIBRE DEPLOYMENT
(22) 13.09.2018	BENNETT, Stephen	(73) Well-Sense Technology Limited
(54) PLUG FORMED FROM A DISINTEGRATE ON DEMAND (DOD) MATERIAL	GIDDINGS, Daniel Mark	(72) PURKIS, Daniel George
(73) Baker Hughes Holdings LLC	(31) 201915199	(31) PCT/GB2016/052171
(72) XU, YingQing	(32) 21.10.2019	(32) 18.07.2016
WRIGHT, Beau	(33) United Kingdom	(33) World Intellectual Property Office (WIPO)
XU, Zhiyue	(51) E21B 43/00	(51) E21D 11/10
DOANE, James	(11) EP3789583	(11) EP4209655
JOHNSON, Mike	(21) EP20194619.1	(21) EP22150523.3
FARMER, Jack	(47) 01.11.2023	(47) 01.11.2023
RUDDOCK, David	(22) 04.09.2020	(22) 07.01.2022
(31) 201715784882	(54) DETERMINATION OF HYDROCARBON MOBILIZATION POTENTIAL FOR ENHANCED OIL RECOVERY	(54) MODULAR TUNNEL FORMWORK DEVICE
(32) 16.10.2017	(73) Dassault Systemes Simulia Corp.	(73) Kern Tunneltechnik SA
(33) United States of America	(72) CROUSE, Bernd	(72) KERN, Reiner
(51) E21B 33/14	BALASUBRAMANIAN, Ganapathi	(51) F01C 3/02
E21B 36/00	(31) 201916559877	F01C 19/02
(11) EP3662136	(32) 04.09.2019	(11) EP3507459
(21) EP18759676.2	(33) United States of America	(21) EP17764635.3
(47) 01.11.2023	(51) E21B 43/20	(47) 01.11.2023
(87) GB2018052203	C02F 1/44	(87) GB2017052560
07.02.2019	C09K 8/58	08.03.2018
(22) 01.08.2018	E21B 21/06	(22) 01.09.2017
(54) DOWNHOLE APPARATUS AND METHOD	B01D 61/02	(54) ROTARY PISTON AND CYLINDER DEVICE
(73) Deltatek Oil Tools Limited	C02F 1/68	(73) Lontra Limited
(72) BRUCE, Stephen Edmund	(11) EP3682089	(72) LINDSEY, Stephen Francis
SHAND, David Michael	(21) EP18768891.6	(31) 201614973
HORN, Tristram Paul	(47) 01.11.2023	(32) 02.09.2016
(31) 201806937	(87) EP2018074669	(33) United Kingdom
201712362	21.03.2019	(51) F01D 9/04
(32) 27.04.2018	(22) 12.09.2018	(11) EP3741960
01.08.2017	(54) METHOD OF CONTROLLING SALINITY OF A LOW SALINITY INJECTION WATER	(21) EP20165134.6
(33) United Kingdom	(73) BP Exploration Operating Company Limited	(47) 01.11.2023
United Kingdom	(72) COLLINS, Ian Ralph	(22) 24.03.2020
(51) E21B 36/04		
E21B 43/24		
H05B 6/62		

(54) METHOD FOR MAKING A TWIN-VANED NOZZLE RING ASSEMBLY FOR A TURBOCHARGER	(72) BERRY, James E. (31) 202062704495 P (32) 13.05.2020 (33) United States of America	(47) 01.11.2023 (87) JP2020008627 10.09.2021 (22) 02.03.2020
(73) Garrett Transportation I Inc. (72) Eckl, Filip Pribyl, Petr Skara, Petr (31) 201916421703 (32) 24.05.2019 (33) United States of America	(51) F01L 1/053 F01L 1/047 F01L 1/02 F01L 1/344 F01L 1/26 (11) EP4028647 (21) EP20786046.1 (47) 01.11.2023 (87) IB2020058455 18.03.2021 (22) 11.09.2020 (54) INTERNAL COMBUSTION ENGINE WITH CAMSHAFT VALVE PHASE VARIATION DEVICE	(54) ABNORMALITY DIAGNOSTIC METHOD FOR INTERNAL COMBUSTION ENGINE AND ABNORMALITY DIAGNOSTIC DEVICE FOR INTERNAL COMBUSTION ENGINE (73) NISSAN MOTOR Co., Ltd. (72) KOIKE, Yusuke MIYAMOTO, Takeshi ISHII, Hitoshi
(51) F01D 9/06 (11) EP3246522 (21) EP17172075.8 (47) 01.11.2023 (22) 19.05.2017 (54) INTERNAL COOLING OF STATOR VANES	(73) Piaggio & C. S.P.A. (72) MARIOTTI, Walter (31) 201900016283 (32) 13.09.2019 (33) Italy	(51) F01N 3/027 F01N 3/10 F01N 9/00 (11) EP4031754 (21) EP20765301.5 (47) 01.11.2023 (87) EP2020075010 25.03.2021 (22) 08.09.2020 (54) METHOD FOR REGENERATION OF A PARTICULATE FILTER OF A HYBRID VEHICLE
(73) RTX Corporation (72) BERGMAN, Russell J. BARTLING, Brett Alan (31) 201615159935 (32) 20.05.2016 (33) United States of America	(51) F01M 11/00 (11) EP4045775 (21) EP20772256.2 (47) 01.11.2023 (87) EP2020075602 22.04.2021 (22) 14.09.2020 (54) OIL PAN FOR MOTOR VEHICLES HAVING ADDITIONAL CONNECTION POINTS	(73) Renault S.A.S. (72) BIBRAC, Olivia TIMPERMAN, Sophie (31) 1910371 (32) 20.09.2019 (33) France
(51) F01D 25/16 F16C 27/04 F16C 19/26 F16F 15/023 (11) EP3705689 (21) EP20160987.2 (47) 01.11.2023 (22) 04.03.2020 (54) METHOD TO SEAL DAMPER CAVITY OF MULTI-FILM OIL DAMPER	(73) Bayerische Motoren Werke Aktiengesellschaft (72) ROSENBERGER, Maximilian HAJEK, Jan HORN, Frank (31) 102019127874 (32) 16.10.2019 (33) Germany	(51) F01N 3/10 F01N 11/00 F01N 13/00 F02D 41/00 F02D 41/04 F02D 41/12 F02D 41/14 F02D 41/22 (11) EP4041998 (21) EP20774986.2 (47) 01.11.2023 (87) EP2020076366 15.04.2021 (22) 22.09.2020 (54) DIAGNOSTIC METHOD OF AN EXHAUST GAS AFTERTREATMENT SYSTEM OF A SPARK IGNITED INTERNAL COMBUSTION ENGINE
(73) Pratt & Whitney Canada Corp. (72) VEITCH, Thomas BEAMISH, David (31) 201916291384 (32) 04.03.2019 (33) United States of America	(51) F01M 11/00 F01M 11/02 F02F 7/00 F02B 29/00 (11) EP3882439 (21) EP21161143.9 (47) 01.11.2023 (22) 05.03.2021 (54) AN ENGINE ASSEMBLY	(73) Renault s.a.s NISSAN MOTOR Co., Ltd. (72) ALONSO-RODRIGUEZ, Manuel CARCEL-CUBAS, Juan-Antonio GERAULT, Alain OTTONELLI, Claudio PALACIOS-ARMAS, Alfonso (31) 1911084 (32) 07.10.2019 (33) France
(51) F01K 13/00 F01K 25/08 F22B 1/02 (11) EP3447256 (21) EP17187936.4 (47) 01.11.2023 (22) 25.08.2017 (54) SYSTEM FOR COOLING A PROCESS FLUID FROM A HEAT PRODUCING INSTALLATION	(73) Perkins Engines Company Limited (72) KERSS, Geoffrey ELSE, Owen RAMASAMY, Prabhu CHATZAKIS, Menelaos (31) 202004113 (32) 20.03.2020 (33) United Kingdom	(51) F01N 3/20 B01D 29/13 F01N 13/18 F01N 13/16 B01D 29/21 B01D 29/92 (11) EP3517751 (21) EP18153329.0 (47) 01.11.2023
(73) Orcan Energy AG (72) Aumann, Richard Schuster, Andreas Lintl, Markus Langer, Roy Santa Maria, Martin	(51) F01M 13/00 F01M 13/02 F01M 11/10 F02D 41/22 F02D 41/18 F02M 25/06 F02M 35/10 F02D 9/02 (11) EP4116548 (21) EP20923000.2	
(51) F01K 25/08 F01K 7/32 F01K 23/06 F01K 23/10 (11) EP4150196 (21) EP21726272.4 (47) 01.11.2023 (87) US2021029363 18.11.2021 (22) 27.04.2021 (54) RE-CONDENSING POWER CYCLE FOR FLUID REGASIFICATION	(73) Just in Time Energy Co.	

(22) 24.01.2018	F02B 37/00	F02K 3/02
(54) FILTER DEVICE COMPRISING A VOLUME COMPENSATING ASSEMBLY	F02B 75/22	F02K 1/06
(73) Donaldson Company, Inc.	F02M 35/10	F04D 29/44
(72) SPINCEMAILLE, Klaas	(11) EP3344859	B64D 29/00
STOUTHUYSEN, Gwenolé	(21) EP15903224.2	C25D 5/56
VANDERLINDEN, Tom Jules	(47) 01.11.2023	C25D 1/00
(51) F01N 13/14	(87) US2015047919	B05D 1/00
F01N 3/28	09.03.2017	C25D 7/00
F01N 13/08	(22) 01.09.2015	C23C 18/16
(11) EP3795809	(54) MULTI-TURBOCHARGER CONNECTION WITH HEAT EXCHANGER	C23C 18/31
(21) EP19803412.6	(73) Cummins Inc.	F01D 5/28
(47) 01.11.2023	(72) BARDAKJY, Scott Robert	F01D 5/30
(87) JP2019013551	YANG, Ligong	F01D 9/04
21.11.2019	(11) EP3019711	F01D 25/00
(22) 28.03.2019	(51) F02B 67/06	(21) EP14832491.6
(54) EXHAUST PURIFICATION DEVICE	F16H 55/36	(47) 01.11.2023
(73) Marelli Corporation	B60K 25/00	(87) US2014045985
(72) HISANAGA, Tooru	B60R 19/00	05.02.2015
SUGAYA, Daisuke	(11) EP3951148	(22) 09.07.2014
IGARASHI, Tomoyuki	(21) EP20817935.8	(54) PLATED POLYMER NOSECONE
SHIMONOSONO, Hitoshi	(47) 01.11.2023	(73) RTX Corporation
(31) 2018095966	(87) JP2020007118	(72) ROACH, James, T.
(32) 18.05.2018	10.12.2020	KLING, Colin, J.
(33) Japan	(22) 21.02.2020	COOK, Grant, O., III
(51) F02B 19/12	(54) ENGINE CRANK PULLEY STRUCTURE	MCPHAIL, James, J.
F02B 19/10	(73) MAZDA MOTOR CORPORATION	BUGAJ, Shari, L.
F02M 21/02	(72) FURUTANI Masayuki	O'BRIEN, James, F.
(11) EP3899228	HIRATA Koichi	DEHLAVI, Majidullah
(21) EP19832274.5	NISHIZAKA Satoshi	SMITH, Scott, A.
(47) 01.11.2023	TOKUSHIMA Kazuhiro	RADER, Matthew, R.
(87) AT2019060444	FUJINO Yuzo	TURNER, Matthew, A.
25.06.2020	(31) 2019103785	XU, JinQuan
(22) 19.12.2019	(32) 03.06.2019	(31) 201361844048 P
(54) CYLINDER HEAD FOR AN INTERNAL COMBUSTION ENGINE	(33) Japan	201361843976 P
(73) Innio Jenbacher GmbH & Co OG	(51) F02C 3/22	(32) 09.07.2013
(72) SPYRA, Nikolaus	F02C 7/22	09.07.2013
SCHAUMBERGER, Herbert	F02C 9/40	(33) United States of America
GROTZ, Matthias	(11) EP4163481	United States of America
BEC, Isabelle	(21) EP22191842.8	(51) F02C 7/264
FANKHAUSER, Thomas	(47) 01.11.2023	F23R 3/28
(31) 5026518 U	(22) 24.08.2022	(11) EP4015801
(32) 21.12.2018	(54) FUEL DELIVERY SYSTEM	(21) EP21214883.7
(33) Austria	(73) Rolls-Royce plc	(47) 01.11.2023
(51) F02B 31/00	(72) Palmer, Chloe	(22) 15.12.2021
F01L 13/00	(31) 202113279	(54) TORCH IGNITER
F02D 13/02	(32) 17.09.2021	(73) Collins Engine Nozzles, Inc.
F02D 13/06	(33) United Kingdom	(72) RYON, Jason
F01L 1/053	(51) F02C 6/20	PROCIW, Lev Alexandder
(11) EP3502435	F02C 9/28	(31) 202017127250
(21) EP18212872.8	F02C 9/46	(32) 18.12.2020
(47) 01.11.2023	(11) EP3835559	(33) United States of America
(22) 17.12.2018	(21) EP20213869.9	(51) F02C 7/32
(54) COMBUSTION ENGINE WITH FOUR CYLINDERS AND METHOD FOR OPERATING SUCH A COMBUSTION ENGINE	(47) 01.11.2023	F01D 15/10
(73) VOLKSWAGEN AKTIENGESELLSCHAFT	(22) 14.12.2020	H02J 1/10
(72) Groenendijk, Axel	(54) SYSTEM AND METHOD FOR DETECTING AND ACCOMMODATING A LOSS OF TORQUE SIGNAL ON A GAS TURBINE ENGINE	(11) EP3832097
(31) 102017130977	(73) Pratt & Whitney Canada Corp.	(21) EP20206667.6
(32) 21.12.2017	(72) LAMARRE, Sylvain	(47) 01.11.2023
(33) Germany	CASAVANT, Francois	(22) 10.11.2020
(51) F02B 33/44	THOMPSON, George	(54) GAS TURBINE ENGINE
F02C 6/12	(31) 201916713781	(73) Rolls-Royce plc
F02B 29/04	(32) 13.12.2019	(72) Brookes, David
F02B 37/007	(33) United States of America	(31) 201917911
	(51) F02C 7/00	(32) 06.12.2019
	F02C 7/30	(33) United Kingdom
		(51) F02C 9/00
		F02C 9/28
		F02C 9/34

(11) EP4033082	(51) F02F 3/00	F02M 59/44
(21) EP22150415.2	(11) EP2771558	F02M 63/00
(47) 01.11.2023	(21) EP12743171.6	F02M 63/02
(22) 06.01.2022	(47) 01.11.2023	F04B 53/18
(54) METHOD OF CONTROLLING AIRCRAFT VAPOUR TRAILS AND PROPULSION SYSTEM PROVIDING FOR CONTROL OF AIRCRAFT VAPOUR TRAILS	(87) EP2012065209 02.05.2013	F04B 9/02
(73) Rolls-Royce plc	(22) 03.08.2012	F04B 1/04
(72) Swann, Peter	(54) PISTON AND CONNECTING ROD FOR AN INTERNAL COMBUSTION ENGINE	F16N 1/00
Madden, Christopher	(73) KS Kolbenschmidt GmbH	F16N 7/36
(31) 202100940	(72) GNIESMER, Volker	(11) EP3940224
(32) 25.01.2021	(31) 102011085448	(21) EP21168953.4
(33) United Kingdom	(32) 28.10.2011	(47) 01.11.2023
(51) F02C 9/54	(33) Germany	(22) 16.04.2021
(11) EP3550127	(51) F02K 1/09	(54) SYSTEM AND METHOD FOR OIL SUPPLY TO PUMP
(21) EP19165602.4	F02K 1/72	(73) Powerhouse Engine Solutions Switzerland IP Holding GmbH
(47) 01.11.2023	(11) EP3825538	(72) Dowell, John Patrick
(22) 27.03.2019	(21) EP20215392.0	Murugesan, Ganesasubramanian
(54) SYSTEMS AND METHODS FOR POWER TURBINE GOVERNING	(47) 01.11.2023	(31) 202041029634
(73) RTX Corporation	(22) 24.11.2010	(32) 13.07.2020
(72) MEISNER, Richard P.	(54) VARIABLE AREA FAN NOZZLE BEARING TRACK	(33) India
CAI, Chaohong	(73) RTX Corporation	(51) F03B 13/00
CROWLEY, Timothy J.	(72) SCHWARK, JR., Fred W.	(11) EP3983665
(31) 201815945556	ATASSI, Oliver V.	(21) EP20733255.2
(32) 04.04.2018	OWEN, William D.	(47) 01.11.2023
(33) United States of America	(31) 62452509	(87) EP2020066379 17.12.2020
(51) F02D 41/02	(32) 24.11.2009	(22) 12.06.2020
F02D 41/04	(33) United States of America	(54) OIL OR GAS PRODUCTION FACILITY, CORRESPONDING METHOD AND RENOVATION METHOD FOR OBTAINING SUCH A FACILITY
B60W 10/02	(51) F02K 9/64	(73) Technip Energies France
B60W 30/18	F02K 9/78	(72) TECHERNIGUIN, Nicolas
F02N 11/08	(11) EP3055542	DELLINGER, Guilhem
B60K 6/20	(21) EP14784340.3	HEME DE-LACOTTE, Luc
(11) EP3117087	(47) 01.11.2023	CAHAY, Marc
(21) EP15706891.7	(87) GB2014000409 16.04.2015	(31) 1906247
(47) 01.11.2023	(22) 10.10.2014	(32) 12.06.2019
(87) FR2015050270 17.09.2015	(54) ENGINE AND METHOD OF OPERATING AN ENGINE	(33) France
(22) 04.02.2015	(73) Reaction Engines Limited	(51) F03B 13/14
(54) METHOD FOR CONTROLLING THE SHUT-DOWN OF AN INTERNAL COMBUSTION ENGINE	(72) BOND, Alan	F03B 11/00
(73) Renault s.a.s	VARVILL, Richard	(11) EP3985245
(72) PETILLON, Yohann	(31) 201318108	(21) EP21199298.7
NODIN, Bertrand	201414296620	(47) 01.11.2023
(31) 1452141	(32) 11.10.2013	(22) 28.09.2021
(32) 14.03.2014	05.06.2014	(54) WAVE POWER UTILIZATION DEVICE AND CONTROL METHOD OF WAVE POWER UTILIZATION DEVICE
(33) France	(33) United Kingdom	(73) Panasonic Intellectual Property Management Co., Ltd.
(51) F02D 41/40	United States of America	(72) KISHISHITA, Kensuke
F02D 41/10	(51) F02M 25/08	SEGAWA, Terutsugu
(11) EP3792477	F02M 37/00	TAKAMI, Fuminori
(21) EP20194218.2	(11) EP4006329	AOKURA, Isamu
(47) 01.11.2023	(21) EP20846747.2	(31) 2020175277
(22) 03.09.2020	(47) 01.11.2023	(32) 19.10.2020
(54) DIESEL ENGINE SYSTEM, METHOD OF CONTROLLING DIESEL ENGINE SYSTEM, AND COMPUTER PROGRAM PRODUCT	(87) JP2020029172 04.02.2021	(33) Japan
(73) MAZDA MOTOR CORPORATION	(22) 29.07.2020	(51) F03D 7/02
(72) MATSUBARA, Takeshi	(54) FUEL TANK SYSTEM	F16D 66/02
SHIRAHASHI, Naotoshi	(73) Mitsubishi Jidosha Kogyo Kabushiki Kaisha	(11) EP3872337
MATSUO, Takeru	(72) UEMATSU, Kyosuke	(21) EP21159379.3
KIM, Sangkyu	OHSHIMA, Takuya	(47) 01.11.2023
(31) 2019164682	MATSUNAGA, Hideo	(22) 25.02.2021
(32) 10.09.2019	(31) 2019139522	(54) A YAW BRAKING ASSEMBLY OF A WIND TURBINE
(33) Japan	(32) 30.07.2019	(73) General Electric Company
	(33) Japan	(72) Close, Ryan Spencer
	(51) F02M 39/00	
	F02M 39/02	
	F02M 59/00	



Janicz, Aaron P. (31) 202016800244 (32) 25.02.2020 (33) United States of America	(54) MAIN SHAFT ASSEMBLY OF A WIND TURBINE (73) General Electric Renovables España S.L. (72) SLACK, Robert Peter RODRIGUEZ, Roberto Leal GARRY, Michael A. BELLUCCI, Matteo (31) 202017000520 (32) 24.08.2020 (33) United States of America	KERBOURIQU, Vincent (51) F04B 1/00 F04B 9/04 F04B 17/03 F04B 1/10 F04B 1/04 (11) EP4028664 (21) EP20772254.7 (47) 01.11.2023 (87) EP2020075545 18.03.2021 (22) 11.09.2020 (54) PUMP UNIT WITH CONICAL MOTOR CHAMBER (73) Power Packer North America, Inc. (72) WIGGEMANS, Johnny, Antonius, Jacobus NIEUWENHUIS, Marcel, Gerardus, Maria (31) 2023831 (32) 13.09.2019 (33) Netherlands
(51) F03D 7/04 F03D 17/00 (11) EP3688305 (21) EP18766125.1 (47) 01.11.2023 (87) DK2018050218 04.04.2019 (22) 03.09.2018 (54) A METHOD OF EVALUATING A SOFTWARE UPGRADE OF A WIND TURBINE (73) Vestas Wind Systems A/S (72) BERRA, Asier BERTELSEN, Kresten NIELSEN, Carsten Krogh (31) PA201770730 (32) 27.09.2017 (33) Denmark	(51) F03D 80/00 B29C 33/42 F03D 1/06 F03D 1/00 (11) EP4065841 (21) EP19954612.8 (47) 01.11.2023 (87) CN2019121431 03.06.2021 (22) 28.11.2019 (54) MATERIAL CORE FOR WIND TURBINE BLADE AND METHOD FOR MANUFACTURING THE SAME (73) Envision Energy Co., Ltd. (72) GLUD, Jens GIROLOMINI, Giancarlo OVERGAARD, Lars Christian Terndrup	(51) F04B 1/20 F04B 1/26 (11) EP4031767 (21) EP20785639.4 (47) 01.11.2023 (87) US2020051153 25.03.2021 (22) 17.09.2020 (54) PUMP SYSTEM WITH OVER-TEMPERATURE PREVENTION (73) Parker-Hannifin Corporation (72) KRANE, Steve A. POLLEE, Dean R. ANDERSON, Evan W. RAPIN, Daniel P. (31) 201962903073 P (32) 20.09.2019 (33) United States of America
(51) F03D 13/10 F03D 80/80 B66B 9/00 (11) EP3904673 (21) EP20182618.7 (47) 01.11.2023 (22) 26.06.2020 (54) PLATFORM FOR A WIND TURBINE, WIND TURBINE WITH THE PLAT-FORM AND METHOD FOR ASSEMBLING A WIND TURBINE (73) Siemens Gamesa Renewable Energy A/S (72) Choudhary, Vikash Damgaard, Torben Reuss Kumar, Devender Olesen, Joern (31) 202031018590 (32) 30.04.2020 (33) India	(51) F03D 80/30 F03D 80/40 (11) EP4036402 (21) EP21382087.1 (47) 01.11.2023 (22) 02.02.2021 (54) BLADE FOR A WIND TURBINE (73) Siemens Gamesa Renewable Energy Innovation & Technology S.L. (72) March Nomen, Victor	(51) F04B 37/16 F04B 39/06 F04D 19/04 (11) EP3584442 (21) EP18754175.0 (47) 01.11.2023 (87) JP2018003628 23.08.2018 (22) 02.02.2018 (54) CONTROLLER AND VACUUM PUMP DEVICE (73) Edwards Japan Limited (72) TATENNO, Yasushi (31) 2017027822 (32) 17.02.2017 (33) Japan
(51) F03D 13/25 (11) EP4115081 (21) EP21710400.9 (47) 01.11.2023 (87) DK2021050063 10.09.2021 (22) 02.03.2021 (54) METHOD OF INSTALLING ROTOR BLADES ON AN OFFSHORE WIND TURBINE (73) VESTAS WIND SYSTEMS A/S (72) BUZDALEK, Sedin MORTENSEN, Peter Sigfred NIELSEN, Ben Møller DAMSGAARD, Torben KRISTENSEN, Mads Møller (31) 20161495 (32) 06.03.2020 (33) European Patent Office (EPO)	(51) F03D 80/70 F03D 13/20 F03D 13/10 (11) EP3478963 (21) EP17725163.4 (47) 01.11.2023 (87) DK2017050152 04.01.2018 (22) 16.05.2017 (54) NACELLE BASE FRAME ASSEMBLY FOR A WIND TURBINE (73) Vestas Wind Systems A/S (72) LIINGAARD, Anders Haslund LAURIDSEN, Ivan Bech MARKUSSEN, Erik MØLLER, Christiansen Thomas PETERSEN, Jan Kjærsgaard (31) 201670470 (32) 30.06.2016 (33) Denmark	(51) F04B 39/00 F04B 53/10 (11) EP4006342 (21) EP21799160.3 (47) 01.11.2023 (87) CN2021085684 07.04.2022 (22) 06.04.2021 (54) PISTON ASSEMBLY, COMPRESSOR ASSEMBLY, AND REFRIGERATION DEVICE (73) Anhui Meizhi Compressor Co., Ltd.
(51) F03D 15/00 F03D 17/00 (11) EP3961030 (21) EP21192581.3 (47) 01.11.2023 (22) 23.08.2021	(51) F03D 80/80 (11) EP4067646 (21) EP21382277.8 (47) 01.11.2023 (22) 01.04.2021 (54) ELECTRIC FILTERS FOR WIND TURBINES (73) General Electric Renovables España S.L. (72) LARSEN, Einar V. PERON, Regis CILLA GARCIA, Javier	

(72) WU, Wenjie HUANG, Gang (31) 202022212889 U 202011067672 (32) 30.09.2020 30.09.2020 (33) China China	(51) F04B 47/06 F04B 47/08 E21B 43/12 (11) EP3921544 (21) EP20716233.0 (47) 01.11.2023 (87) US2020020041 03.09.2020 (22) 27.02.2020 (54) POLYGONAL LINER FOR ELECTRICAL SUBMERSIBLE PUMP CANNED MOTOR (73) Saudi Arabian Oil Company (72) WRIGHTON, Christopher (31) 201916287495 (32) 27.02.2019 (33) United States of America	14.09.2017 (22) 07.03.2017 (54) METHOD OF MAKING A TWO-PIECE COUNTERWEIGHT FOR A SCROLL COMPRESSOR (73) BITZER Kühlmaschinenbau GmbH (72) STEPHENS, Carl F. MARKLEY, Lauren A. (31) 201615064408 (32) 08.03.2016 (33) United States of America
(51) F04B 39/12 H01R 24/76 H01R 13/11 H01R 13/432 H01R 13/52 H01R 13/58 (11) EP3637554 (21) EP19805871.1 (47) 01.11.2023 (87) CN2019076669 27.02.2020 (22) 01.03.2019 (54) SEALING COVER, UPPER COVER ASSEMBLY AND COMPRESSOR (73) Panasonic Wanbao Appliances Compressor (Guangzhou) Co., Ltd. (72) GONG, Pei CHUI, Junli SAKIMOTO, Takamasa AYA, Toru DENG, Yan (31) 201810947865 (32) 20.08.2018 (33) China	(51) F04B 49/06 F04D 15/00 G05D 7/06 (11) EP3464901 (21) EP17810925.2 (47) 01.11.2023 (87) US2017036325 14.12.2017 (22) 07.06.2017 (54) DIRECT NUMERIC 3D SENSORLESS CONVERTER FOR PUMP FLOW AND PRESSURE (73) Fluid Handling LLC. (72) CHENG, Andrew A. SCHOENHEIT, Kyle D. GU, James J. (31) 201662346808 P (32) 07.06.2016 (33) United States of America	(31) 201615064408 (32) 08.03.2016 (33) United States of America (51) F04D 13/04 F04D 13/14 A62C 25/00 F04D 13/12 F04D 9/04 F04D 13/06 (11) EP4034765 (21) EP20771639.0 (47) 01.11.2023 (87) NL2020050555 01.04.2021 (22) 09.09.2020 (54) MOBILE PUMP SYSTEM WITH SEVERAL PUMPS, TWO ENGINES AND A CLUTCH (73) Hytrans Beheer B.V. (72) HUT, Robert Dirk VEENEMA, Appie (31) 2023887 (32) 24.09.2019 (33) Netherlands
(51) F04B 43/00 F04B 43/06 F04B 43/073 F04B 9/12 (11) EP3908756 (21) EP20738543.6 (47) 01.11.2023 (87) US2020013157 16.07.2020 (22) 10.01.2020 (54) AIR-OPERATED PUMP WITH LEAK DETECTION AND CONTAINMENT ASSEMBLY (73) PSG California LLC (72) MCGARRY, Paul MCDERMOTT, Daniel (31) 201962790545 P (32) 10.01.2019 (33) United States of America	(51) F04B 49/08 F04B 49/06 F04D 15/02 F04B 23/04 G05D 16/20 F04B 23/00 F04B 49/02 (11) EP3530943 (21) EP17863074.5 (47) 01.11.2023 (87) ES2017070692 26.04.2018 (22) 18.10.2017 (54) SYSTEM COMPRISING TWO OR MORE PUMPS CONNECTED IN PARALLEL AND A PRESSURE SWITCH CONCEIVED TO OPERATE IN SAID SYSTEM (73) Coelbo Control System, S.L. (72) BANÚS GARCÍA, Fernando BUCH LLORACH, Jaume ANDRÉS CASTELLANO, Ángel (31) 201631347 (32) 18.10.2016 (33) Spain	(51) F04D 13/08 F04D 13/10 F04D 29/10 E21B 43/12 F04D 13/06 (11) EP4067664 (21) EP22164472.7 (47) 01.11.2023 (22) 25.03.2022 (54) SUBMERSIBLE PUMP WITH BARRIER FLUID ISOLATION OF MOTOR LUBRICATING LIQUID FROM PUMPED PRODUCT (73) Flowserve Pte. Ltd. (72) Brown, John L. Cain, Sean A. (31) 202117217576 (32) 30.03.2021 (33) United States of America
(51) F04B 43/06 F04B 11/00 F04B 15/02 F04B 43/067 (11) EP3947968 (21) EP20714488.2 (47) 01.11.2023 (87) EP2020056586 01.10.2020 (22) 12.03.2020 (54) PUMP AND ASSOCIATED SYSTEM AND METHODS (73) MHWirth GmbH (72) JANSEN, Roman (31) 201904054 (32) 25.03.2019 (33) United Kingdom	(51) F04C 18/02 F04C 29/00 F04C 23/00 (11) EP3426923 (21) EP17763889.7 (47) 01.11.2023 (87) US2017021128	(51) F04D 19/04 F04D 29/059 F04D 29/063 F16C 33/66 F16C 19/06 F16C 35/077 (11) EP3510288 (21) EP17767884.4 (47) 01.11.2023 (87) GB2017052595 15.03.2018 (22) 06.09.2017 (54) TURBOMOLECULAR PUMP LUBRICANT SUPPLY SYSTEMS (73) Edwards Limited (72) MILNER, Paul LUCCHETTA, Emiliano

- (31) 201615204  
(32) 07.09.2016  
(33) United Kingdom
- 
- (51) F04D 27/02  
F04D 29/68  
F04D 29/44  
F04D 17/12  
(11) EP3411596  
(21) EP16889598.5  
(47) 01.11.2023  
(87) US2016016529  
10.08.2017  
(22) 04.02.2016  
(54) ACTIVE SURGE CONTROL IN  
CENTRIFUGAL COMPRESSORS  
USING MICROJET INJECTION  
(73) Danfoss A/S  
The Florida State University Research  
Foundation, Incorporated
- 
- (72) ALVI, Farukh  
FERNANDEZ, Erik  
GAVIN, Jennifer  
BILBOW, William
- 
- (51) F04D 29/00  
F04D 13/06  
H02K 5/22  
H02K 7/14  
H02K 11/33  
F04D 29/58  
(11) EP3540239  
(21) EP17868774.5  
(47) 01.11.2023  
(87) JP2017032271  
17.05.2018  
(22) 07.09.2017  
(54) ELECTRICALLY DRIVEN PUMP  
(73) Shinano Kenshi Co., Ltd.  
(72) MIYASAKA, Takeshi  
(31) 2016221042  
(32) 11.11.2016  
(33) Japan
- 
- (51) F04D 29/054  
F01D 5/02  
F04D 29/26  
F04D 29/28  
(11) EP3293398  
(21) EP17187379.7  
(47) 01.11.2023  
(22) 22.08.2017  
(54) COMPRESSOR WHEEL AND SHAFT  
ASSEMBLY  
(73) Garrett Transportation I Inc.  
(72) CASTAN, Joel  
ARMAND, Dominique  
DIEUDONNE, Gerard  
HETTINGER, Raphael  
CLAUDON, Alain  
REMY, Bernard  
(31) 201615258520  
(32) 07.09.2016  
(33) United States of America
- 
- (51) F04D 29/12  
F16J 15/34  
F04D 29/42  
(11) EP3441619  
(21) EP17185365.8  
(47) 01.11.2023  
(22) 08.08.2017
- (54) CENTRIFUGAL PUMP  
(73) Grundfos Holding A/S  
(72) Svarre, Erik Bundesen  
Nielsen, John Frigård  
Skov, Lars
- 
- (51) F04D 29/38  
F04D 29/66  
(11) EP3617528  
(21) EP17906931.5  
(47) 01.11.2023  
(87) JP2017016878  
01.11.2018  
(22) 28.04.2017  
(54) PROPELLER FAN  
(73) Mitsubishi Electric Corporation  
(72) TERAMOTO, Takuya  
IKEDA, Takashi  
ADACHI, Yusuke
- 
- (51) F04D 29/66  
(11) EP4051909  
(21) EP20797833.9  
(47) 01.11.2023  
(87) FR2020051800  
06.05.2021  
(22) 13.10.2020  
(54) MOTOR SUPPORT AND HVAC  
(HEATING, VENTILATING AND/OR  
AIRCONDITIONING) DEVICE FOR  
AUTOMOBILE VEHICLE  
(73) VALEO SYSTEMES THERMIQUES  
(72) DEGORCE-DUMAS, Clara  
DE SOUZA, Stéphane  
KWACZEWSKI, Clémence  
(31) 1912161  
(32) 29.10.2019  
(33) France
- 
- (51) F15B 11/02  
E02F 9/22  
F15B 11/00  
F15B 11/17  
(11) EP3693614  
(21) EP18864823.2  
(47) 01.11.2023  
(87) JP2018032788  
11.04.2019  
(22) 04.09.2018  
(54) WORK VEHICLE  
(73) Yanmar Power Technology Co., Ltd.  
(72) MATSUYAMA, Hiroshi  
KATSUKI, Hidehiko  
AOYAMA, Kazuhiro  
(31) 2017194799  
(32) 05.10.2017  
(33) Japan
- 
- (51) F15B 13/043  
F16K 31/00  
(11) EP3660333  
(21) EP18461635.7  
(47) 01.11.2023  
(22) 27.11.2018  
(54) PIEZOELECTRIC BIMORPH SERVO  
VALVE  
(73) Hamilton Sundstrand Corporation  
(72) Bujewicz, Maciej  
Korczyński, Marcin
- 
- (51) F15B 15/14  
F15B 11/08  
(73) Hamilton Sundstrand Corporation  
(72) Bujewicz, Maciej  
Korczyński, Marcin
- 
- (11) EP3550157  
(21) EP16925671.6  
(47) 01.11.2023  
(87) CN2016113337  
05.07.2018  
(22) 30.12.2016  
(54) HYDRAULIC CYLINDER, HYDRAULIC  
SYSTEM, AND CRANE  
(73) Xuzhou Heavy Machinery Co., Ltd.  
(72) SHAN, Zenghai  
WANG, Shouwei  
REN, Yinmei  
WANG, Dong  
QI, Houbao
- 
- (51) F15B 20/00  
B64C 11/38  
(11) EP3447315  
(21) EP18190419.4  
(47) 01.11.2023  
(22) 23.08.2018  
(54) DUAL VALVE SYSTEMS FOR  
ACTUATOR CONTROL  
(73) Hamilton Sundstrand Corporation  
(72) MAVER, Timothy  
(31) 201715684651  
(32) 23.08.2017  
(33) United States of America
- 
- (51) F16B 2/06  
F16B 5/07  
F16D 3/84  
F16B 2/08  
(11) EP3677798  
(21) EP18856088.2  
(47) 01.11.2023  
(87) KR2018010751  
21.03.2019  
(22) 13.09.2018  
(54) BOOT CLAMPING STRUCTURE FOR  
CONSTANT VELOCITY JOINT  
(73) Erae Ams Co., Ltd  
(72) NOH, Jung Su  
PARK, Joon Sung  
(31) 20170117347  
(32) 13.09.2017  
(33) Korea (Republic)
- 
- (51) F16B 5/02  
(11) EP3698056  
(21) EP18782003.0  
(47) 01.11.2023  
(87) EP2018076082  
02.05.2019  
(22) 26.09.2018  
(54) TOLERANCE COMPENSATION  
ASSEMBLY  
(73) Böllhoff Verbindungstechnik GmbH  
(72) FIGGE, Hans-Ulrich  
HESSE, Wolfgang  
STALLMANN, Thorsten  
(31) 102017124809  
(32) 24.10.2017  
(33) Germany
- 
- (51) F16B 12/20  
(11) EP3938663  
(21) EP20713373.7  
(47) 01.11.2023  
(87) IB2020051854  
17.09.2020

(22) 04.03.2020	Böllhoff Verbindungstechnik GmbH	(54) JOINT ASSEMBLIES WITH CROSS-AXIS FLEXURAL PIVOTS
(54) JOINING DEVICE FOR FURNITURE PANELS	(72) NIEDENFÜHR, Sven	(73) Intuitive Surgical Operations Inc.
(73) LEONARDO S.r.l.	KAHRE, Michael	(72) DEARDEN, Jason
(72) CATTANEO, Carlo	HANZEL, Michal	GRAMES, Clayton
(31) 201900003619	MATTHES, Jörg	HOWELL, Larry L.
(32) 13.03.2019	(31) 102017121449	JENSEN, Brian D.
(33) Italy	(32) 15.09.2017	MAGLEBY, Spencer P.
(33) Germany	(33) Germany	
(51) F16B 12/26	(51) F16B 21/18	(31) 201662394310 P
(11) EP3837447	F16L 37/091	(32) 14.09.2016
(21) EP19850654.5	(11) EP4048910	(33) United States of America
(47) 01.11.2023	(21) EP20792443.2	(51) F16C 17/04
(87) US2019046427	(47) 01.11.2023	(11) EP3848601
20.02.2020	(87) EP2020079680	(21) EP19858097.9
(22) 13.08.2019	29.04.2021	(47) 01.11.2023
(54) NICKEL BISCUIT JOINER APPARATUS AND METHOD	(22) 22.10.2020	(87) JP2019034585
(73) Dumuk, Gerard Valbuena	(54) CONNECTION DEVICE WITH EXTERNAL ACCESS TO AN ANCHORING RING, CORRESPONDING ASSEMBLY AND REMOVAL METHOD	12.03.2020
McConnell, Rachel	(73) Parker Hannifin EMEA S.à.r.l.	(22) 03.09.2019
(72) Dumuk, Gerard Valbuena	(72) LE QUERE, Philippe	(54) THRUST FOIL BEARING
McConnell, Rachel	(31) 1911944	(73) IHI Corporation
(31) 201816101523	(32) 24.10.2019	(72) OMORI, Naomichi
(32) 13.08.2018	(33) France	(31) 2018165174
(33) United States of America		(32) 04.09.2018
(51) F16B 13/08	(51) F16B 37/04	(33) Japan
F16B 12/22	F16B 5/06	(51) F16C 17/10
F16B 12/24	F16B 2/24	F16C 33/14
F16B 12/26	(11) EP3812600	F16C 17/24
(11) EP3835602	(21) EP20197921.8	H01J 35/10
(21) EP20197634.7	(47) 01.11.2023	(11) EP3865721
(47) 01.11.2023	(22) 23.09.2020	(21) EP21155324.3
(22) 23.09.2020	(54) SINGLE SIDE ACCESS SHEET METAL NUT	(47) 01.11.2023
(54) EXPANSION CONNECTOR	(73) Illinois Tool Works Inc.	(22) 04.02.2021
(73) Lusterful Science and Technology Co., Ltd.	(72) PITT, Clinton	(54) HYDRODYNAMIC BEARING SYSTEM AND METHOD FOR MANUFACTURING THE HYDRODYNAMIC BEARING SYSTEM
(72) LIU, Weiming	(31) 202017022787	(73) GE Precision Healthcare LLC
(31) 201911288930	201962924371 P	(72) HUNT, Ian
(32) 13.12.2019	(32) 16.09.2020	TRISCARI, Andrew
(33) China	22.10.2019	MCCABE, John
(51) F16B 13/12	(33) United States of America	HEBERT, Michael
(11) EP3714171	United States of America	(31) 202016789302
(21) EP18807176.5	(51) F16B 39/10	(32) 12.02.2020
(47) 01.11.2023	F16B 39/22	(33) United States of America
(87) US2018058862	B25B 31/00	(51) F16C 32/04
31.05.2019	(11) EP3321524	F02C 7/06
(22) 02.11.2018	(21) EP17191131.6	F03B 11/06
(54) ANCHOR ASSEMBLY	(47) 01.11.2023	F03D 80/70
(73) Illinois Tool Works Inc.	(22) 14.09.2017	H01F 7/02
(72) DILL, Michael	(54) ANTI-ROTATIONAL FASTENER SYSTEM	(11) EP3911865
(31) 201816177759	(73) The Boeing Company	(21) EP20742070.4
201762589241 P	(72) DICHARA, Robert A.	(47) 01.11.2023
(32) 01.11.2018	ETLING, Keith A.	(87) CA2020050049
21.11.2017	BLUM, David S.	23.07.2020
(33) United States of America	(31) 201615350366	(22) 17.01.2020
United States of America	(32) 14.11.2016	(54) PASSIVE MAGNETIC BEARING FOR ROTATING MACHINERIES AND ROTATING MACHINERIES INTEGRATING SAID BEARING, INCLUDING ENERGY PRODUCTION TURBINES
(51) F16B 21/08	(33) United States of America	(73) Telesystem Energy Ltd.
B60Q 1/26	(51) F16C 11/12	(72) HAMAD, Imad
F16B 5/06	A61B 17/29	(31) 201962794164 P
(11) EP3682127	A61B 17/00	(32) 18.01.2019
(21) EP18770003.4	A61B 34/30	(33) United States of America
(47) 01.11.2023	(11) EP3512435	(51) F16C 33/78
(87) EP2018074879	(21) EP17851420.4	F16C 35/04
21.03.2019	(47) 01.11.2023	
(22) 14.09.2018	(87) US2017051276	
(54) ASSEMBLY WITH FASTENING ELEMENT FOR DETACHABLY CONNECTING TWO COMPONENTS	22.03.2018	
(73) Volkswagen AG	(22) 13.09.2017	

F16C 37/00	(72) Böhm, Peter	FOR THE TWO JOINTS WITH CROSS-
F16C 13/02	Faust, Friedrich	MEMBERS
(11) EP4027029	Mikolajczyk, Olaf	(73) Walterscheid GmbH
(21) EP21216951.0	Spink, Daniela	(72) HECTOR, Martin
(47) 01.11.2023	(31) 102019204615	LITTAU, Matthias
(22) 22.12.2021	(32) 01.04.2019	<hr/>
(54) BEARING SEAT ASSEMBLY	(33) Germany	(51) F16D 7/02
(73) Aktiebolaget SKF	(51) F16D 3/16	(11) EP4040002
(72) Mitchell, Erik	F16D 3/205	(21) EP19948003.9
Xu, Zongkang	F16D 3/44	(47) 01.11.2023
Cao, Weiguang	(11) EP4042032	(87) JP2019050660
Geng, Weifei	(21) EP20793071.0	08.04.2021
(31) 202110026014	(47) 01.11.2023	(22) 24.12.2019
(32) 08.01.2021	(87) GB2020052491	(54) BIDIRECTIONAL TORQUE LIMITER
(33) China	15.04.2021	(73) Origin Company, Limited
<hr/>	(22) 08.10.2020	(72) ISOBE, Taro
(51) F16D 1/08	(54) COUPLING	(31) 2019181465
B65H 16/06	(73) Punk Couplings Limited	(32) 01.10.2019
F16D 1/10	(72) PARKER, Simon	(33) Japan
(11) EP3896303	(31) 202006345	<hr/>
(21) EP21168800.7	202001274	(51) F16D 13/58
(47) 01.11.2023	202001273	F16D 13/38
(22) 16.04.2021	201918106	F16D 13/70
(54) A SUPPORTING AND CLAMPING	201914612	(11) EP3665397
DEVICE FOR THE SHAFT OF A REEL	(32) 30.04.2020	(21) EP18750318.0
(73) Scaravella, Carlo	30.01.2020	(47) 01.11.2023
(72) Scaravella, Carlo	30.01.2020	(87) DE2018100652
(31) 202000008122	10.12.2019	14.02.2019
(32) 16.04.2020	09.10.2019	(22) 17.07.2018
(33) Italy	(33) United Kingdom	(54) SELF-REINFORCING FRICTION
<hr/>	United Kingdom	CLUTCH HAVING LEAF SPRINGS
(51) F16D 1/10	United Kingdom	(73) Schaeffler Technologies AG & Co. KG
A61B 17/32	United Kingdom	(72) RABER, Christoph
A61B 17/00	United Kingdom	(31) 102017126799
(11) EP3493752	United Kingdom	102017118026
(21) EP16756844.3	(51) F16D 3/205	(32) 15.11.2017
(47) 01.11.2023	F16D 3/32	08.08.2017
(87) US2016045556	F16D 3/42	(33) Germany
08.02.2018	(11) EP4042033	Germany
(22) 04.08.2016	(21) EP20793072.8	<hr/>
(54) SELF-ALIGNING DRIVE COUPLER	(47) 01.11.2023	(51) F16D 13/74
(73) Covidien LP	(87) GB2020052492	(11) EP2998602
(72) INAMDAR, Tejas S.	15.04.2021	(21) EP15180083.6
<hr/>	(22) 08.10.2020	(47) 01.11.2023
(51) F16D 3/06	(54) CONSTANT VELOCITY COUPLING	(22) 06.08.2015
F16D 3/84	(73) Punk Couplings Limited	(54) TORQUE TRANSMISSION MODULE
(11) EP4055292	(72) PARKER, Simon	INTENDED FOR BEING PROVIDED
(21) EP20800886.2	(31) 202001274	ON A TRANSMISSION OF A MOTOR
(47) 01.11.2023	202001273	VEHICLE
(87) EP2020080765	201918106	(73) Valeo Embrayages
14.05.2021	201914612	(72) ARHAB, Rabah
(22) 03.11.2020	201914613	RIBOT, Herve
(54) A UNIVERSAL JOINT WITH IMPROVED	(32) 30.01.2020	CAUMARTIN, Laurent
STIFFNESS	30.01.2020	(31) 1458837
(73) Lusetti, Lea	10.12.2019	(32) 18.09.2014
Bondioli, Carlo	09.10.2019	(33) France
Bondioli, Claudio	09.10.2019	<hr/>
(72) BONDIOLI, Edi	(33) United Kingdom	(51) F16D 25/0638
(31) 201900020574	United Kingdom	F16D 25/12
(32) 07.11.2019	United Kingdom	(11) EP3892882
(33) Italy	United Kingdom	(21) EP21165668.1
<hr/>	United Kingdom	(47) 01.11.2023
(51) F16D 3/14	(51) F16D 3/33	(22) 29.03.2021
F16F 15/12	(11) EP4116596	(54) OIL FEED STRUCTURE INCLUDING
(11) EP3719334	(21) EP21184817.1	HYDRAULIC CLUTCH
(21) EP20164861.5	(47) 01.11.2023	(73) Kawasaki Motors, Ltd.
(47) 01.11.2023	(22) 09.07.2021	(72) Nishiyabu, Masaki
(22) 23.03.2020	(54) DOUBLE UNIVERSAL JOINT WITH A	Ichi, Satoaki
(54) COUPLING DEVICE FOR	RADIAL MOVABLE CENTRING DISC	Tominaga, Jun
TORSIONALLY ELASTIC TORQUE		(31) 2020068053
TRANSMISSION		(32) 06.04.2020
(73) Stromag GmbH		

(33) Japan	(22) 27.07.2020	DAMMOTO, Yosuke
(51) F16D 51/12	(54) BRAKING BAND OF A DISC FOR DISC BRAKE OF VENTILATED TYPE	YOSHIKAWA, Shota
F16D 63/00		(31) 2016237649
F16D 67/02	(73) Brembo S.p.A.	(32) 07.12.2016
F16D 65/22	(72) CHIESURA, Elisabetta	(33) Japan
F16D 121/14	(31) 201900013947	(51) F16F 15/123
F16D 125/20	(32) 05.08.2019	(11) EP3680512
F16D 43/02	(33) Italy	(21) EP20151113.6
F16D 41/08	(51) F16D 65/12	(47) 01.11.2023
F16D 43/21	(11) EP4145011	(22) 10.01.2020
(11) EP3954918	(21) EP21194381.6	(54) DAMPER DEVICE
(21) EP20903120.2	(47) 01.11.2023	(73) AISIN CORPORATION
(47) 01.11.2023	(22) 01.09.2021	(72) KATAOKA, Naoya
(87) JP2020047175	(54) BRAKE UNIT AND METHOD FOR THE PRODUCTION OF SAME	(31) 2019002909
24.06.2021	(73) Fischer & Kaufmann GmbH & Co. KG	(32) 10.01.2019
(22) 17.12.2020	(72) SCHRÖDER, Daniel	(33) Japan
(54) REVERSE-INPUT-BLOCKING CLUTCH	BREIDEBACH, Thomas	(51) F16G 3/09
(73) NSK Ltd.		F16G 3/02
(72) DOHI Nagao	(51) F16F 9/06	F16G 3/00
DAIKOKU Yuya	F16F 9/516	B65G 15/30
(31) 2019230081	(11) EP3710720	F16G 11/04
(32) 20.12.2019	(21) EP18804089.3	(11) EP3115640
(33) Japan	(47) 01.11.2023	(21) EP16157833.1
(51) F16D 55/224	(87) GB2018053257	(47) 01.11.2023
F16D 65/00	23.05.2019	(22) 29.02.2016
(11) EP3597955	(22) 12.11.2018	(54) BELT OR BELT SEGMENT
(21) EP19185140.1	(54) SUSPENSION STRUT	(73) ContiTech Transportbandsysteme GmbH
(47) 01.11.2023	(73) BAE Systems PLC	(72) Hüls, Achim
(22) 09.07.2019	(72) WIDDRINGTON, Liam, Bradley	Möschén-Siekmann, Michael
(54) CLUTCH DEVICE AND BRAKE DEVICE	KITTLEY, Andrew, James	Behrens, Carsten
(73) NABTESCO CORPORATION	WILBY, Philip, Ainer	(31) 102015212750
(72) KONDO, Koji	(31) 201718949	(32) 08.07.2015
OHNO, Tomoya	(32) 16.11.2017	(33) Germany
(31) 2018133573	(33) United Kingdom	(51) F16G 11/06
(32) 13.07.2018	(51) F16F 9/12	(11) EP3670961
(33) Japan	F16F 9/53	(21) EP18214573.0
(51) F16D 59/02	F16F 9/14	(47) 01.11.2023
F16D 65/18	F16F 9/52	(22) 20.12.2018
F16D 65/12	(11) EP3848611	(54) A ROPE CONNECTOR FOR CONNECTING PREPARED ENDS OF TWO ROPE SEGMENTS, A ROPE EXTENSION SYSTEM AND A HOISTING SYSTEM COMPRISING SUCH ROPE CONNECTOR
F16D 69/04	(21) EP21150509.4	(73) Grant Prideco, Inc.
(11) EP4184032	(47) 01.11.2023	(72) Røsok, Nils Øystein
(21) EP21209570.7	(22) 07.01.2021	Strand, Thor
(47) 01.11.2023	(54) ROTARY DAMPER ASSEMBLY	(51) F16G 13/16
(22) 22.11.2021	(73) BeijingWest Industries Co. Ltd.	(11) EP4139586
(54) ELECTROMAGNETICALLY OPERATED SPRING-APPLIED BRAKE	(72) LUN, Saiman	(21) EP21729867.8
(73) KEB Automation KG	SPEHR, Glen	(47) 01.11.2023
(72) Willer, Helmut	(31) 202011518230	(87) EP2021064463
Westphal, Norbert	202062959134 P	02.12.2021
(51) F16D 65/10	(32) 21.12.2020	(22) 28.05.2021
F16D 65/82	09.01.2020	(54) CABLE-GUIDING APPARATUS, IN PARTICULAR AN ENERGY CHAIN, AND CHAIN LINK WITH DAMPING ELEMENTS
(11) EP4130505	(33) China	(73) Igus GmbH
(21) EP21382746.2	United States of America	(72) JAEKER, Thilo-Alexander
(47) 01.11.2023	(51) F16F 15/04	BARTEN, Dominik
(22) 06.08.2021	F16F 1/373	(31) 202020103050 U
(54) DRUM AND DRUM BRAKE FOR VEHICLES	G01M 1/16	(32) 27.05.2020
(73) Edertek, S.Coop	F16F 1/38	(33) Germany
(72) LABRADOR VAREA, Ricardo	(11) EP4063689	(51) F16H 1/46
EGUIDAZU UNAMUNO, Nerea	(21) EP22173797.6	F16H 48/06
PRIETO VARONA, Jose Ignacio	(47) 01.11.2023	B60K 1/00
(51) F16D 65/12	(22) 30.11.2017	
(11) EP4010607	(54) VIBRATION INSULATOR AND UNBALANCE DETECTION DEVICE INCLUDING VIBRATION INSULATOR	
(21) EP20754028.7	(73) MITSUBISHI HEAVY INDUSTRIES ENGINE & TURBOCHARGER, LTD.	
(47) 01.11.2023	(72) MIURA, Shuichi	
(87) IB2020057055	YAMASHITA, Katsuya	
11.02.2021	NAGAI, Naoyuki	

(11) EP3663611	(73) SET Sustainable Energy Technologies GmbH	(32) 02.10.2019
(21) EP18866709.1	(72) WALDNER, Markus	(33) Germany
(47) 01.11.2023	HEHENBERGER, Gerald	(51) F16H 49/00
(87) JP2018038206	ERJAVEC, Miha	F16H 25/06
18.04.2019	(31) 6432015	(11) EP2064464
(22) 12.10.2018	2532015	(21) EP07786384.3
(54) DRIVE DEVICE FOR VEHICLE	(32) 01.10.2015	(47) 01.11.2023
(73) AISIN CORPORATION	27.04.2015	(87) EP2007006670
(72) SUYAMA Daiki	(33) Austria	13.03.2008
SANJI Hiroaki	Austria	(22) 27.07.2007
ICHIOKA Mitsuhiro	(51) F16H 15/38	(54) GEARING
(31) 2017199760	F16H 59/40	(73) WITTENSTEIN SE
(32) 13.10.2017	F16H 61/664	(72) BAYER, Thomas
(33) Japan	F16H 63/06	SCHMIDT, Michael
(51) F16H 3/00	H02P 9/06	(31) 102006042786
B62M 6/55	H02P 29/50	(32) 08.09.2006
B62M 11/06	(11) EP3565105	(33) Germany
F16H 3/089	(21) EP16924991.9	(51) F16H 57/04
F16H 61/02	(47) 01.11.2023	F16H 57/08
F16H 63/18	(87) JP2016088960	F16D 1/10
F16H 63/30	05.07.2018	(11) EP3877674
B62K 7/00	(22) 27.12.2016	(21) EP19783517.6
(11) EP3875803	(54) POWER GENERATION SYSTEM AND METHOD FOR CONTROLLING SAME	(47) 01.11.2023
(21) EP21159910.5	(73) Kawasaki Jukogyo Kabushiki Kaisha	(87) EP2019077007
(47) 01.11.2023	(72) GOI, Tatsuhiko	14.05.2020
(22) 01.03.2021	NAKASHIMA, Kenichi	(22) 07.10.2019
(54) TRANSMISSION APPARATUS COMPRISING GEAR REVERSAL FOR MEANS OF TRANSPORT, PREFERABLY PEDAL MEANS OF TRANSPORT	OTSUKI, Satoshi	(54) BRANCHED LUBRICANT LINE
(73) SIRAL S.R.L.	SUGIMOTO, Kazushige	(73) ZF Friedrichshafen AG
(72) STORTI, Fabrizio	HIGASHI, Masaaki	ZF Wind Power Antwerpen NV
(31) 202000004306	(51) F16H 25/22	(72) DE LAET, Wim
(32) 02.03.2020	F16H 19/00	UYTTERHOEVEN, Pieter
(33) Italy	F16H 19/06	GERNAEY, Maarten
(51) F16H 3/64	(11) EP3887691	(31) 102018219140
F16H 3/66	(21) EP19768920.1	(32) 09.11.2018
F16H 37/04	(47) 01.11.2023	(33) Germany
(11) EP3978781	(87) IB2019057599	(51) F16H 59/02
(21) EP21208913.0	04.06.2020	F16H 59/70
(47) 01.11.2023	(22) 10.09.2019	(11) EP4053433
(22) 29.09.2017	(54) ANGLE TRANSMISSION DEVICE	(21) EP22158170.5
(54) MULTI SPEED TRANSMISSION	(73) MPS Micro Precision Systems AG	(47) 01.11.2023
(73) Linamar Corporation	(72) MOSER, Yves	(22) 23.02.2022
(72) Sefcik, Michael C.	WAHLI, Vincent	(54) SHIFT DEVICE
Dear, Joe	(31) 14572018	(73) Suzuki Motor Corporation
Coger, Ray	(32) 26.11.2018	(72) KATO, Kohei
(31) 201662402411 P	(33) Switzerland	MAEMORI, Takatoshi
(32) 30.09.2016	(51) F16H 25/22	UCHIYAMA, Tatsushi
(33) United States of America	F16K 31/44	INOHARA, Hiroyasu
(51) F16H 3/72	F16K 31/50	(31) 2021031522
B60K 6/365	F16H 37/12	(32) 01.03.2021
B60K 6/387	F15B 15/14	(33) Japan
B60K 6/48	F15B 15/02	(51) F16H 61/32
H02P 5/753	F16H 25/20	F16H 63/38
H02K 7/116	(11) EP4038293	F16H 61/00
B60K 6/26	(21) EP20781338.7	F16H 61/12
(11) EP3289243	(47) 01.11.2023	(11) EP4075028
(21) EP16724578.6	(87) EP2020076837	(21) EP22168280.0
(47) 01.11.2023	08.04.2021	(47) 01.11.2023
(87) AT2016000040	(22) 25.09.2020	(22) 14.04.2022
03.11.2016	(54) A HIGH-PRESSURE FITTING FOR A HIGH-PRESSURE INSTALLATION WITH A DEVICE FOR ACTUATING A VALVE	(54) SHIFT DEVICE
(22) 25.04.2016	(73) Uhde High Pressure Technologies GmbH	(73) Aisin Corporation
(54) POWER TRAIN FOR PUMPS, ENERGY GENERATION SYSTEMS OR SIMILAR AND METHOD FOR STARTING UP A POWER TRAIN OF THIS TYPE	thyssenkrupp AG	(72) OGINO, Atsuto
	(72) RUTKOWSKI, Jan	ISHIKAWA, Kota
	DENZ, Thorsten	UCHIDA, Yutaka
	(31) 102019126650	(31) 2021069682
		(32) 16.04.2021
		(33) Japan
		(51) F16J 15/02

F01D 11/00	F16K 27/02	B60T 8/36
F01D 25/24	F16K 27/04	H01F 7/08
F16J 15/08	E03C 1/02	H01F 7/14
(11) EP3837457	E03C 1/04	F16K 1/20
(21) EP19783981.4	(11) EP3945229	F16K 47/00
(47) 01.11.2023	(21) EP21150816.3	(11) EP3964741
(87) EP2019075206	(47) 01.11.2023	(21) EP21192142.4
18.06.2020	(22) 10.01.2021	(47) 01.11.2023
(22) 19.09.2019	(54) VALVE AND SHOWER DEVICE	(22) 19.08.2021
(54) SEAL ASSEMBLY FOR A SPLIT HOUSING	(73) Fujian Xihe Sanitary Ware Technology Co., Ltd.	(54) PLATE ANCHOR DAMPING DEVICE FOR TILTING ANCHOR VALVE, PLATE ANCHOR, AND TILTING ANCHOR VALVE WITH A PLATE ANCHOR DAMPING DEVICE
(73) Siemens Energy Global GmbH & Co. KG	(72) LIN, Xiaofa	(73) KNORR-BREMSE Systeme für Nutzfahrzeuge GmbH
(72) ALLEBROD, Dirk	LIN, Xiaoshan	(72) DEEG, Markus
KLÄN, Stephan	DENG, Xiaoqing	WÖRNER, Ralf
SONNEN, Stephan	Ji, Hejun	SÖHNLEIN, Julian
(31) 18212293	YU, Kaishi	RÖTHER, Friedbert
(32) 13.12.2018	LIU, Qiqiao	(72) DEEG, Markus
(33) European Patent Office (EPO)	(31) 202010744370	WÖRNER, Ralf
(51) F16J 15/10	(32) 29.07.2020	SÖHNLEIN, Julian
F25B 41/00	(33) China	RÖTHER, Friedbert
F16J 15/06	(51) F16K 11/074	(31) 102020123249
F16J 15/08	F16K 31/385	(32) 07.09.2020
F16L 23/18	G05G 1/02	(33) Germany
(11) EP3767137	G05G 1/08	(51) F16K 37/00
(21) EP18910186.8	E03C 1/02	F16K 27/08
(47) 01.11.2023	(11) EP4094000	(11) EP3786503
(87) JP2018009947	(21) EP20789006.2	(21) EP20193010.4
19.09.2019	(47) 01.11.2023	(47) 01.11.2023
(22) 14.03.2018	(87) EP2020077077	(22) 27.08.2020
(54) GASKET AND REFRIGERATION CYCLE DEVICE	29.07.2021	(54) POSITIONING DEVICE FOR A PROCESS ENGINEERING SYSTEM
(73) Mitsubishi Electric Corporation	(22) 28.09.2020	(73) Samson Aktiengesellschaft
(72) MAEDA, Katsuya	(54) CONTROL VALVE FOR AT LEAST ONE SANITARY FITTING, SAID CONTROL VALVE COMPRISING A DIAPHRAGM VALVE AND A MULTI-WAY VALVE	(72) KRAUSE, Sebastian
YAMAKAWA, Hiroyuki	(73) Grohe AG	MERSCHER, Michael
UENAKAI, Naoto	(72) MAINKA, David	KOINKE, Janusz
KAMIKAWA, Masaaki	BUCHMÜLLER, Janik	KUEHNBAUM, Joerg
(51) F16K 1/44	KUKLA, Sebastian	(31) 202019104694 U
F16K 1/48	(31) 102020101691	(32) 27.08.2019
(11) EP4088050	(32) 24.01.2020	(33) Germany
(21) EP21702814.1	(33) Germany	(51) F16K 43/00
(47) 01.11.2023	(51) F16K 11/20	F16K 3/24
(87) US2021012546	F16K 27/02	F16K 3/314
15.07.2021	F16K 37/00	F16K 3/32
(22) 07.01.2021	F16K 27/00	F16K 5/04
(54) POPPET VALVE WITH SIMULTANEOUSLY CONTACTING VALVE MEMBERS	F15B 13/08	F16K 5/06
(73) AUTOMATIC SWITCH COMPANY	F25B 41/34	F16K 5/10
(72) FREISINGER, Paul W.	(11) EP3690293	F16K 37/00
(31) 202016737814	(21) EP18862178.3	F24D 19/10
(32) 08.01.2020	(47) 01.11.2023	(11) EP3881008
(33) United States of America	(87) CN2018106664	(21) EP19802169.3
(51) F16K 3/08	04.04.2019	(47) 01.11.2023
F16K 27/04	(22) 20.09.2018	(87) EP2019080986
F16K 31/53	(54) BLOCK AND FLUID CONTROL DEVICE	22.05.2020
F16K 31/04	(73) Zhejiang Sanhua Intelligent Controls Co., Ltd.	(22) 12.11.2019
(11) EP4137722	(72) YANG, Shizhao	(54) BALANCING VALVE
(21) EP21191912.1	LIU, Xibo	(73) Aliaxis Research & Technology
(47) 01.11.2023	(31) 201710903015	(72) REY, Charlotte
(22) 18.08.2021	201721264027 U	LE GOFF, Jean-Philippe
(54) VALVE CARTRIDGE	(32) 29.09.2017	DELAIR, Vanessa
(73) Flühs Drehtechnik GmbH	29.09.2017	CAVALIE, Henri-Xavier
(72) Klawin, Tim-Florian	(33) China	AUDREZET, Baptiste
Lange, Lutz	China	COSTA, Stefano
(51) F16K 11/044	(51) F16K 31/06	CASTELLARO, Alberto
F16K 11/074	F16K 1/36	ZANNI, Rodolfo
F16K 31/524	F16K 25/00	(31) 100995
F16K 11/00		(32) 12.11.2018
		(33) Luxembourg
		(51) F16L 1/16



F16L 1/20	(73) Rohr, Inc.	(33) France
(11) EP3999762	(72) SHANER, Kristopher B.	(51) F16L 37/14
(21) EP20753879.4	RAMLAOUI, Jihad	(11) EP3734135
(47) 01.11.2023	RATAJAC, Aleksander	(21) EP20172479.6
(87) EP2020070355	TERREY, Colin R.	(47) 01.11.2023
21.01.2021	(31) 201916506781	(22) 30.04.2020
(22) 17.07.2020	(32) 09.07.2019	(54) FLUID CONNECTOR
(54) RECOVERING USED SUBSEA	(33) United States of America	(73) Gealan Formteile GmbH
PIPELINES	(51) F16L 21/035	(72) Saunus, Christian
(73) Subsea 7 Limited	B29C 53/08	Buheitel, Christian
(72) BRAZ FERREIRA, André	B29D 23/00	(31) 102019111535
(31) 201910289	(11) EP3803177	(32) 03.05.2019
(32) 18.07.2019	(21) EP19725179.6	(33) Germany
(33) United Kingdom	(47) 01.11.2023	(51) F16L 55/053
(51) F16L 1/20	(87) EP2019063255	F15B 1/04
F16L 3/237	28.11.2019	A47J 31/00
(11) EP3924657	(22) 22.05.2019	A47J 31/46
(21) EP20707170.5	(54) METHOD OF MANUFACTURING A	(11) EP4006400
(47) 01.11.2023	FLUID CIRCUIT WITH A CONNECTION	(21) EP21207222.7
(87) NL2020050078	FITTING HAVING AN OBLIQUE	(47) 01.11.2023
20.08.2020	ABUTMENT SURFACE	(22) 09.11.2021
(22) 13.02.2020	(73) Airbus Atlantic	(54) PRESSURE RELIEF DEVICE
(54) BUNDLE OF PIPELINES	(72) PERHERIN, Daniel	(73) A. u. K. Müller GmbH & Co. KG
(73) Lankhorst Engineered Products B.V.	(31) 1854443	(31) 102020131306
(72) ALEWIJN, Gijs	(32) 25.05.2018	(32) 26.11.2020
(31) 2022577	(33) France	(33) Germany
(32) 14.02.2019	(51) F16L 25/00	(51) F16L 55/18
(33) Netherlands	F16L 25/14	B65H 75/40
(51) F16L 3/123	F16L 19/028	(11) EP3931480
B64D 37/32	F16L 19/02	(21) EP20711313.5
B64D 37/00	(11) EP3742036	(47) 01.11.2023
(11) EP4006396	(21) EP20164609.8	(87) IB2020051088
(21) EP21214900.9	(47) 01.11.2023	20.08.2020
(47) 01.11.2023	(22) 20.03.2020	(22) 11.02.2020
(22) 23.03.2020	(54) CONNECTOR ASSEMBLY WITH	(54) INVERSION UNIT WITH EXPANDABLE
(54) FRANGIBLE ATTACHMENT FOR FUEL	CORRUGATED STEEL PIPE AND	CARRYING HANDLES AND
LINE SURVIVABILITY	CONNECTING METHOD	REMOVABLE WHEELBASE
(73) Bombardier Inc.	(73) EUROTIS S.r.l.	(73) Sacpro AB
(72) HURLEY, Sonny Zerah	(72) FRANCHI, Andrea Luigi	(72) STERNER, Fredrik
(31) 201962827935 P	(31) 20190006625	(31) 201962806842 P
(32) 02.04.2019	(32) 08.05.2019	(32) 17.02.2019
(33) United States of America	(33) Italy	(33) United States of America
(51) F16L 9/147	(51) F16L 33/08	(51) F16L 58/18
F16L 9/18	(11) EP3885627	G01L 1/24
F16L 57/02	(21) EP21164228.5	F16L 9/147
(11) EP3928016	(47) 01.11.2023	F16L 58/10
(21) EP20707576.3	(22) 23.03.2021	(11) EP3869079
(47) 01.11.2023	(54) HOSE CLIP	(21) EP21159089.8
(87) EP2020053993	(73) ContiTech Techno-Chemie GmbH	(47) 01.11.2023
27.08.2020	(72) Flach, Axel	(22) 24.02.2021
(22) 14.02.2020	Klose, Julian	(54) SHEATHED PIPE WITH SENSORS
(54) PIPE STRUCTURE AND METHOD FOR	(31) 102020204049	FOR MEASURING ENVIRONMENTAL
PRODUCING A PIPE STRUCTURE OF	(32) 27.03.2020	PARAMETERS
THIS TYPE	(33) Germany	(73) TDC International AG
(73) Alleima GmbH	(51) F16L 37/088	(72) WELKER, Daniel
(72) HEDVALL, Christofer	F16L 37/14	(31) 102020104780
FROBÖSE, Tomas	(11) EP3628908	(32) 24.02.2020
(31) 102019104536	(21) EP19199600.8	(33) Germany
(32) 22.02.2019	(47) 01.11.2023	(51) F16M 11/04
(33) Germany	(22) 25.09.2019	F16M 11/10
(51) F16L 19/00	(54) FLUID CONNECTION DEVICE FOR A	F16M 11/02
F16L 15/08	FLUID CIRCUIT OF A MOTOR VEHICLE	F16M 11/14
(11) EP3763982	(73) HUTCHINSON	F16M 11/20
(21) EP19212458.4	(72) THILLET, Antoine	F16M 11/28
(47) 01.11.2023	ESCURE, Steeven	E05B 73/00
(22) 29.11.2019	ULLY, Stéphane	F16M 11/22
(54) CONDUIT FLUID COUPLING WITH	(31) 1858982	F16M 13/02
ANTI-ROTATION LOCK	(32) 28.09.2018	

G06F 1/16	(54) GAS REPLACEMENT METHOD	25.08.2022
(11) EP3479003	(73) Mitsubishi Shipbuilding Co., Ltd.	(22) 02.08.2021
(21) EP17743080.8	(72) ISHIDA, Toshinori	(54) MODULAR FLOODLIGHT SYSTEM
(47) 01.11.2023	MORIMOTO, Shinsuke	(73) Google LLC
(87) IB2017053752	OGATA, Toshio	(72) SHIH, Poll
04.01.2018	(31) 2019229388	LIU, Che-Wei
(22) 23.06.2017	(32) 19.12.2019	LIU, Chia-Chi
(54) DEVICE FOR HOLDING AN ELECTRONIC GADGET	(33) Japan	CHOU, Wen-Pin
(73) Illinois Tool Works Inc.	(51) F17C 13/04	(31) 202117178804
(72) LEBEDEV, N.	(11) EP4111089	(32) 18.02.2021
RAINA, Vishal	(21) EP21706006.0	(33) United States of America
AMMANAGI, Somayya	(47) 01.11.2023	(51) F21S 10/00
RAMASUBBU, Sunder	(87) EP2021054428	G02B 19/00
(31) 201641022491	02.09.2021	G02B 27/10
(32) 30.06.2016	(22) 23.02.2021	G02B 27/18
(33) India	(54) AUTOMATIC OBSTRUCTION DEVICE OF A CIRCUIT FOR FILLING ONE OR MORE TANKS WITH A FLUID	G02B 5/02
(51) F16P 3/06	(73) PLASTIC OMNIUM NEW ENERGIES FRANCE	(11) EP3473922
(11) EP3663630	(72) BELLEC, Ronan	(21) EP18194690.6
(21) EP18000963.1	HUBATZECK, Nicolas	(47) 01.11.2023
(47) 01.11.2023	ARYAN, Ammar	(22) 16.09.2018
(22) 12.12.2018	CRIEL, Bjorn	(54) LIGHT PROJECTION DEVICE FOR MIXING MULTIPLE LIGHT SOURCES
(54) DEVICE TO IMPROVE SAFETY AT THE WORKPLACE	(31) 2001793	(73) The Boeing Company
(73) Politechnika Slaska	(32) 24.02.2020	(72) BURGESS, Michael J.
(72) Dobrowolska, Malgorzata	(33) France	VALENTINE, William H. JR.
Szabo, Stanislav	(51) F21K 9/232	MA, Jing
Gzik, Marek	F21V 23/00	WILCYNISKI, Paul J.
Wodarski, Piotr	F21V 23/04	(31) 201715783215
Jedrasiak, Karol	H01Q 1/00	(32) 13.10.2017
Nawrat, Aleksander	F21Y 105/10	(33) United States of America
Jurkojc, Jacek	F21Y 115/10	(51) F21S 10/02
Cekan, Peter	(11) EP3967920	F21V 1/20
(31) 42802218	(21) EP21196045.5	F21S 8/00
(32) 03.12.2018	(47) 01.11.2023	F21S 10/00
(33) Poland	(22) 10.09.2021	G02B 5/20
(51) F16P 3/14	(54) LIGHTING APPARATUS	G02B 5/00
G01L 1/20	(73) Leedarson Lighting Co., Ltd.	G03B 21/20
(11) EP3494375	(72) ZOU, Renhua	(11) EP3734145
(21) EP17772611.4	LIN, Youqin	(21) EP18897034.7
(47) 01.11.2023	LIN, Xianwu	(47) 01.11.2023
(87) EP2017069699	ZHAO, Fanglei	(87) CN2018107827
08.02.2018	WU, Zhixian	04.07.2019
(22) 03.08.2017	(31) 202022019132 U	(22) 27.09.2018
(54) PROTECTION DEVICE WITH A PRESSURE-SENSITIVE SENSOR FOR MONITORING AN INDUSTRIAL PLANT	(32) 15.09.2020	(54) COLOR TEMPERATURE COMPENSATION GOBO, AND COLOR TEMPERATURE COMPENSATION SYSTEM AND COLOR TEMPERATURE COMPENSATION METHOD THEREOF
(73) Pilz GmbH & Co. KG	(33) China	(73) Guangzhou Haoyang Electronic Co., Ltd.
(72) HART, Fabian	(51) F21K 9/64	(72) JIANG, Weikai
IBROCEVIC, Onedin	H01L 25/075	(31) 201711437134
KUCZERA, Matthias	(11) EP4055315	(32) 26.12.2017
SCHWEIKER, Matthias	(21) EP20803155.9	(33) China
NEUSCHWANDER, Bernd	(47) 01.11.2023	(51) F21S 41/141
TEKDAL, Fabian	(87) EP2020081204	F21V 5/04
CHERAY, Philippe	01.07.2021	F21V 9/08
(31) 102016114384	(22) 05.11.2020	F21V 29/503
(32) 03.08.2016	(54) LIGHTING SYSTEM FOR EVENLY DISTRIBUTED RADIATION OF LIGHT FROM LIGHT SOURCES	F21V 29/71
(33) Germany	(73) LightnTec GmbH	F21V 29/85
(51) F17C 13/00	(72) NEHRHOFF VON HOLDERBERG, Lutz	F21Y 115/10
B63B 25/12	(31) 102019220571	F21W 102/10
B63J 2/08	(32) 23.12.2019	F21S 45/47
F17C 9/00	(33) Germany	F21S 41/19
(11) EP4056886	(51) F21S 8/00	F21S 43/14
(21) EP20902565.9	(11) EP4065881	F21S 43/19
(47) 01.11.2023	(21) EP21762206.7	(11) EP3660389
(87) JP2020033891	(47) 01.11.2023	(21) EP18837483.9
24.06.2021	(87) US2021044212	(47) 01.11.2023
(22) 08.09.2020		

(87) CN2018097392 31.01.2019	(51) F21V 8/00 (11) EP3580492	(54) ROTATING ARM STRUCTURE OF LAMP AND LAMP WITH THE ROTATING ARM STRUCTURE
(22) 27.07.2018	(21) EP18701716.5	
(54) INTELLIGENTLY-CONNECTED VEHICLE LED HEADLIGHT USING GRAPHENE	(47) 01.11.2023	(73) Self Electronics Co., Ltd.
(73) Huzhou Mingshuo Optoelectronic Technology Co., Ltd.	(87) EP2018051464 16.08.2018	SELF ELECTRONICS Germany GmbH Lin, Wanjiang
Tunghsu Optoelectronic Technology Co., Ltd.	(22) 22.01.2018	(72) ZENG, Guoqing
(72) CHEN, Wei	(54) LAMP HAVING LIGHT GUIDE PLATE	(31) 202011142009
JIANG, Wei	(73) Zumtobel Lighting GmbH	(32) 22.10.2020
ZHOU, LiBin	(72) KELLER, Katharina	(33) China
(31) 201710626780	(31) 102017202123	<hr/>
(32) 27.07.2017	(32) 10.02.2017	(51) F21V 23/04
(33) China	(33) Germany	(11) EP3857122
<hr/>	<hr/>	(21) EP19779193.2
(51) F21S 41/143	(51) F21V 15/01	(47) 01.11.2023
F21S 41/153	F21V 17/06	(87) IB2019058160 02.04.2020
F21S 43/14	F21V 21/02	(22) 26.09.2019
F21S 43/15	(11) EP3853522	(54) A LIGHT RADIATION SOURCE AND CORRESPONDING ASSORTMENT
H01L 25/075	(21) EP19765682.0	(73) OSRAM GmbH
H01L 33/44	(47) 01.11.2023	(72) ALFIER, Alberto LI, Xiaolong
H01L 33/58	(87) EP2019073623 26.03.2020	(31) 201800009003
(11) EP3990822	(22) 04.09.2019	(32) 28.09.2018
(21) EP20734485.4	(54) SYSTEM TO BE MOUNTED ON A SUSPENDED POWER RAIL AND METHOD FOR ASSEMBLING THE SYSTEM ON A POWER RAIL	(33) Italy
(47) 01.11.2023	(73) Zumtobel Lighting GmbH	<hr/>
(87) EP2020067050 30.12.2020	(72) REIMER, Vitali SCHMIDT, Carsten SULZBACH, Lennart	(51) F21V 35/00 F21V 37/00 F21S 13/12
(22) 18.06.2020	(31) 102018123132	(11) EP3682164
(54) MOTOR VEHICLE LIGHTING DEVICE	(32) 20.09.2018	(21) EP18782638.3
(73) Valeo Vision	(33) Germany	(47) 01.11.2023
(72) DE LAMBERTERIE, Antoine VAL, Alexandre	<hr/>	(87) EP2018000432 21.03.2019
(31) 1907171	(51) F21V 21/005	(22) 13.09.2018
(32) 28.06.2019	F21S 4/28	(54) COMBUSTION LIGHT, IN PARTICULAR WIND LIGHT, AND SUSPENSION THEREFOR
(33) France	F16B 7/04	(73) Kaiser, Thomas Wassermann, Christian
<hr/>	F16B 7/18	(72) WASSERMANN, Christian
(51) F21V 5/00	(11) EP3899365	(31) 202017004777 U
F21V 5/04	(21) EP19828735.1	(32) 13.09.2017
G02B 27/09	(47) 01.11.2023	(33) Germany
(11) EP4075054	(87) EP2019086246 25.06.2020	<hr/>
(21) EP21168677.9	(22) 19.12.2019	(51) F22B 1/12 D21C 1/02 F22D 1/18
(47) 01.11.2023	(54) CONNECTION SYSTEM FOR A LUMINAIRE, AND A LIGHTING SYSTEM USING THE CONNECTION SYSTEM	(11) EP3446034
(22) 15.04.2021	(73) Signify Holding B.V.	(21) EP17729514.4
(54) LAMPSHADE MODULE CAPABLE OF REPLACING OPTICAL PROJECTION ELEMENTS	(72) NI, Hailin WANG, Xia	(47) 01.11.2023
(73) Smart Electric Works Co.,Ltd.	(31) PCT/CN2018/122346 19159034	(87) FI2017050295 26.10.2017
(72) YANG, JERRY	(32) 20.12.2018	(22) 19.04.2017
<hr/>	25.02.2019	(54) METHOD AND ARRANGEMENT FOR GENERATING PROCESS STEAM
(51) F21V 7/05	(33) World Intellectual Property Office (WIPO) European Patent Office (EPO)	(73) Andritz Oy
F21V 11/02	<hr/>	(72) MUHLI, Aki
F21Y 115/10	(51) F21V 21/30	(31) 20165352
F21Y 105/10	F21S 8/04	(32) 22.04.2016
(11) EP4139606	F21V 21/28	(33) Finland
(21) EP21718866.3	F21S 8/00	<hr/>
(47) 01.11.2023	F21V 21/34	(51) F22B 31/00
(87) EP2021059661 28.10.2021	F21Y 115/10	(11) EP3273162
(22) 14.04.2021	(11) EP3988839	(21) EP17185268.4
(54) LED LUMINAIRE WITH OPTICAL ELEMENT	(21) EP21167488.2	(47) 01.11.2023
(73) Signify Holding B.V.	(47) 01.11.2023	(22) 29.09.2014
(72) VISSENBERG, Michel, Cornelis, Josephus, Marie	(22) 08.04.2021	(54) THERMAL DEVICE, ITS USE, AND METHOD FOR HEATING A HEAT TRANSFER MEDIUM
ANSEMS, Johannes, Petrus, Maria VDOVIN, Olexandr, Valentynovych		(73) Valmet Technologies Oy
(31) 20170536		
(32) 21.04.2020		
(33) European Patent Office (EPO)		

(72) Kainu, Vesa	SENSOR IN A FUEL-GAS-POWERED	(72) DANKWARDT, Thomas
(31) 20136013	HEATING DEVICE	SICKERT, Kerstin
(32) 11.10.2013	(73) ebm-papst Landshut GmbH	BRUNNER, Martin
(33) Finland	(72) HENRICH, Hartmut	RAUSCH, Thorsten
(51) F23D 14/22	WALD, Stephan	(31) 102017213095
F23D 14/58	HERMANN, Jens	(32) 28.07.2017
(11) EP4158247	(31) 102019110976	(33) Germany
(21) EP21737790.2	(32) 29.04.2019	(51) F24C 15/10
(47) 01.11.2023	(33) Germany	F24C 3/08
(87) IB2021055779	(51) F24B 3/00	(11) EP4065898
06.01.2022	A47J 37/07	(21) EP20829203.7
(22) 29.06.2021	B65D 1/24	(47) 01.11.2023
(54) HYDROGEN GAS BURNER	B65D 81/36	(87) IB2020061220
(73) AMF Den Boer B.V.	(11) EP3685102	03.06.2021
(72) BIJKERK, Remco	(21) EP18785508.5	(22) 27.11.2020
DOMENICUCCI, Philip J.	(47) 01.11.2023	(54) A DOMESTIC COOKING STOVE FOR
(31) 202063045359 P	(87) EP2018000439	COMBUSTION OF LPG FUEL WITH
(32) 29.06.2020	28.03.2019	HIGH THERMAL EFFICIENCY
(33) United States of America	(22) 20.09.2018	(73) Bharat Petroleum Corporation Ltd.
(51) F23D 14/60	(54) SYSTEM CONSISTING OF A BRAZIER	Petroleum Conservation Research
F23N 1/02	AND A SEPARATOR	Association
F23N 5/18	(73) Kaiser, Thomas	(72) KULKARNI, Aniruddha Dilip
F23N 1/00	Wassermann, Christian	GARG, Rahul
F23N 5/12	(72) Kaiser, Thomas	YADAV, Satish Dayal
(11) EP4033148	Wassermann, Christian	MOONJELY, Renny Andrew
(21) EP21153258.5	(31) 202017004859 U	VOOLAPALLI, Ravi Kumar
(47) 01.11.2023	(32) 20.09.2017	BHARGAVA, Sanjay
(22) 25.01.2021	(33) Germany	PRATAP, Surendra
(54) METHOD AND CONTROLLER	(51) F24C 15/00	(31) 201921048627
FOR OPERATING A GAS BURNER	F24C 7/08	(32) 27.11.2019
APPLIANCE	F24C 14/00	(33) India
(73) Pittway Sarl	G01N 21/94	(51) F24C 15/16
(72) Munsterhuis, Wim	G01N 21/47	A47J 27/04
Baarda, Gerrit Jan	G01N 21/954	A47L 15/50
Kammerahl, Andreas	(11) EP3610199	(11) EP3933279
Petersmann, Martin	(21) EP18716132.8	(21) EP21188129.7
Quatmann, Anton	(47) 01.11.2023	(47) 01.11.2023
Oldehus, Ulrich	(87) EP2018057034	(22) 07.04.2020
Metker, Clemens	18.10.2018	(54) HOUSEHOLD APPLIANCE OR
(51) F23G 5/30	(22) 20.03.2018	COMMERCIAL APPLIANCE
(11) EP4028692	(54) DETERMINING A DEGREE OF	(73) Miele & Cie. KG
(21) EP20792293.1	CONTAMINATION IN A COOKING	(72) Peter, Sarah
(47) 01.11.2023	CHAMBER	(31) 102019116189
(87) EP2020075518	(73) BSH Hausgeräte GmbH	102019115976
18.03.2021	(72) DEUTSCH, Tobias	102019110605
(22) 11.09.2020	EITER, Hans-Martin	(32) 14.06.2019
(54) METHOD AND FURNACE FOR	HEIKEL, Barbara	12.06.2019
INCINERATING ORGANIC MATTER	HORN, Katrin	24.04.2019
DERIVED FROM THE TREATMENT	NEUMAYER, Dan	(33) Germany
OF INDUSTRIAL OR AGRICULTURAL	RANZENBERGER, Barbara	Germany
WASTE OR WASTEWATER, SUCH AS	ROTH, Kerstin	Germany
SLUDGE	STROBL, Veronika	(51) F24C 15/20
(73) Suez International	(31) 102017206058	(11) EP4027063
(72) BOURDAIS, Jean-Louis	(32) 10.04.2017	(21) EP22153673.3
(31) 1910166	(33) Germany	(47) 01.11.2023
(32) 13.09.2019	(51) F24C 15/02	(22) 28.02.2020
(33) France	F24C 15/04	(54) VAPOUR EXTRACTION DEVICE,
(51) F23N 5/12	(11) EP3658824	KITCHEN APPLIANCE COMPRISING
F23N 1/02	(21) EP18738311.2	A COOKER HOB AND VAPOUR
(11) EP3870899	(47) 01.11.2023	EXTRACTOR DEVICE AND METHOD
(21) EP20723328.9	(87) EP2018068534	FOR OPERATING A VAPOUR
(47) 01.11.2023	31.01.2019	EXTRACTION DEVICE
(87) EP2020061784	(22) 09.07.2018	(73) BSH Hausgeräte GmbH
05.11.2020	(54) COOKING APPLIANCE COMPRISING	(72) Fieger, Daniel
(22) 28.04.2020	A LOWERABLE DOOR, WHICH HAS A	Maurer, Eugen
(54) METHOD FOR CHECKING A GAS	SPECIFIC RETAINING SPRING FOR A	Neumann, Ulmar
MIXTURE SENSOR AND IONIZATION	BEARING BUSH	Schabinger, Stefan
	(73) BSH Hausgeräte GmbH	Schweinebart, Carsten

Wolters, Michael	F24F 11/81	(73) Daikin Europe N.V.
(31) 102019206240	F24F 13/10	DAIKIN INDUSTRIES, LTD.
(32) 30.04.2019	F24F 13/20	(72) Delanghe, Eddy
(33) Germany	(11) EP3714213	Coorens, Alain
(51) F24C 15/20	(21) EP18894724.6	Heintz, Nicolas
H05B 6/12	(47) 01.11.2023	Dangreau, Jonas
(11) EP3671046	(87) KR2018016789	de Clerck, Robbe
(21) EP19215982.0	04.07.2019	Demeyer, Paul
(47) 01.11.2023	(22) 27.12.2018	Coessens, Tim
(22) 13.12.2019	(54) AIR CONDITIONER	(51) F24F 1/36
(54) COOKING SYSTEM	(73) Samsung Electronics Co., Ltd.	F24F 13/22
(73) BSH Hausgeräte GmbH	(72) CHO, Sung-June	F24F 13/30
(72) Fanlo Egea, Laura	KIM, Kwon Jin	(11) EP3913290
Flesch, Sebastien	KIM, Sung Jae	(21) EP19909974.8
Galve Villa, Jose Eduardo	NA, Seon Uk	(47) 01.11.2023
Laurent, Guillaume	YUN, Yeon-Seob	(87) JP2019001461
Torrubia Marco, Demetrio	YUN, Young Uk	23.07.2020
(31) 201831244	LEE, Kyeong Ae	(22) 18.01.2019
(32) 19.12.2018	LIM, Byung Han	(54) OUTDOOR UNIT FOR AIR
(33) Spain	HA, Jong Kwon	CONDITIONER
(51) F24C 15/32	(31) 20170181213	(73) Mitsubishi Electric Corporation
(11) EP3686497	(32) 27.12.2017	(72) SHIMAZAKI, Misaki
(21) EP20159251.6	(33) Korea (Republic)	FURUKUBO, Kei
(47) 01.11.2023	(51) F24F 1/00	IWASAKI, Kazuhisa
(22) 03.07.2017	F28F 1/32	(51) F24F 1/48
(54) COMMERCIAL COOKING APPARATUS	F28F 13/08	F24F 1/56
(73) MA.TI.KA. S.r.l.	F24F 13/30	F24F 1/38
(72) SMITS, Stan	F24F 1/0059	F04D 19/00
(31) 102016212162	(11) EP3415827	F24F 13/08
(32) 04.07.2016	(21) EP17766988.4	F04D 29/54
(33) Germany	(47) 01.11.2023	(11) EP3770516
(51) F24D 19/10	(87) KR2017002824	(21) EP19771008.0
F16L 27/08	21.09.2017	(47) 01.11.2023
F16L 37/23	(22) 16.03.2017	(87) KR2019003327
(11) EP3789688	(54) AIR CONDITIONER	26.09.2019
(21) EP20194731.4	(73) Samsung Electronics Co., Ltd.	(22) 21.03.2019
(47) 01.11.2023	(72) KIM, Hyun Young	(54) OUTDOOR UNIT OF AIR
(22) 04.09.2020	(31) 2016052942	CONDITIONER
(54) MOUNTING MECHANISM FOR	(32) 16.03.2016	(73) LG Electronics Inc.
THERMOSTATIC DEVICES	(33) Japan	(72) KIM, Taejun
(73) Computime Ltd.	(51) F24F 1/0047	CHOI, Seokho
(72) CHAN, Dick Kwai	F24F 1/0071	OH, Siyoung
TAN, Ben Ren	(11) EP3786536	(31) 20180033373
(31) 201916561098	(21) EP20193433.8	(32) 22.03.2018
(32) 05.09.2019	(47) 01.11.2023	(33) Korea (Republic)
(33) United States of America	(22) 28.08.2020	(51) F24F 5/00
(51) F24D 19/10	(54) AIR CONDITIONER	F24F 13/04
F24D 19/00	(73) Samsung Electronics Co., Ltd.	F24F 13/068
F16K 31/00	(72) KIM, Hyunho	(11) EP3540319
F16K 27/02	KIM, Jihong	(21) EP19160721.7
G05D 23/02	MOON, Hongyeol	(47) 01.11.2023
(11) EP4123227	PARK, Wooyoung	(22) 05.03.2019
(21) EP22178988.6	SO, Byungyul	(54) PNEUMATIC RADIATION UNIT
(47) 01.11.2023	JEON, Mingu	(73) Kimura Kohki Co., Ltd.
(22) 14.06.2022	JUNG, Changwoo	(72) KIMURA, Keiichi
(54) ADAPTER FOR A RADIATOR WITH	(31) 20190107583	URANO, Katsuhiko
THERMOSTATIC CONTROL AND USE	(32) 30.08.2019	(31) 2018063924
OF THIS ADAPTER ON A RADIATOR	(33) Korea (Republic)	2018044837
(73) JAGA NV	(51) F24F 1/02	(32) 29.03.2018
(72) RUISON, Mark Antoon Gustaaf	F24F 13/20	13.03.2018
(31) 202105561	F24F 1/029	(33) Japan
(32) 19.07.2021	F24F 1/022	Japan
(33) Belgium	(11) EP3839360	(51) F24F 11/48
(51) F24F 1/00	(21) EP19218593.2	F24F 7/007
F24F 13/14	(47) 01.11.2023	F24F 11/58
F24F 13/08	(22) 20.12.2019	F24F 110/10
F24F 1/0014	(54) HEAT PUMP AND METHOD FOR	F24F 110/12
	INSTALLING THE SAME	F24F 120/10

F24F 11/00	F23B 80/04	(54) REFRIGERATION CYCLE DEVICE
F24F 11/65	F24H 3/06	(73) MITSUBISHI ELECTRIC CORPORATION
F24F 11/46	F24H 9/00	(72) MATSUMOTO, Takenori
F24F 11/56	(11) EP3757476	TAKENAKA, Shohei
F24F 11/77	(21) EP20180997.7	HIKONE, Takahito
(11) EP3795916	(47) 01.11.2023	KADOWAKI, Kimitaka
(21) EP18918790.9	(22) 19.06.2020	(51) F25B 13/00
(47) 01.11.2023	(54) HEATING APPARATUS	F25B 43/00
(87) JP2018018930	(73) Gruppo Piazzetta S.p.A.	F25B 1/00
21.11.2019	(72) PIAZZETTA, Carlo	F25B 1/10
(22) 16.05.2018	DE ZEN, Fabio	F25B 47/02
(54) AIR-CONDITIONING SYSTEM	(31) 201900010197	F25B 49/00
(73) Mitsubishi Electric Corporation	(32) 26.06.2019	(11) EP4015939
(72) KIDO, Shohei	(33) Italy	(21) EP20871746.2
(51) F24F 11/61	(51) F24H 3/04	(47) 01.11.2023
F24F 11/46	F24H 9/00	(87) JP2020025239
F24F 11/47	F24H 9/1863	08.04.2021
F24F 11/58	F24H 9/20	(22) 26.06.2020
F24F 110/10	(11) EP3882535	(54) REFRIGERATION DEVICE
F24F 110/12	(21) EP20164560.3	(73) Daikin Industries, Ltd.
F24F 11/63	(47) 01.11.2023	(72) TAKEGAMI, Masaaki
F24F 11/80	(22) 20.03.2020	TAGUCHI, Shuichi
G05B 15/02	(54) MODULAR INNER-CLIMATE	(31) 2019180544
G06N 20/00	INFLUENCING APPLIANCE	(32) 30.09.2019
(11) EP3862644	(73) EL-Björn AB	(33) Japan
(21) EP18936195.9	(72) JOHANSSON, Lars	(51) F25B 25/00
(47) 01.11.2023	ANDERSSON, Joakim	F25B 40/00
(87) JP2018036850	POPAJA, Armin	F25B 40/02
09.04.2020	(51) F24H 3/04	F25B 40/06
(22) 02.10.2018	F24H 9/18	F25B 31/00
(54) INFORMATION PROCESSING DEVICE	F24H 9/20	F25B 23/00
AND AIR-CONDITIONING SYSTEM	H05B 1/02	(11) EP3553421
PROVIDED WITH SAME	F24H 9/1863	(21) EP19162522.7
(73) Mitsubishi Electric Corporation	F24D 19/10	(47) 01.11.2023
(72) SATO, Yasushi	(11) EP3879200	(22) 13.03.2019
(51) F24F 12/00	(21) EP21159013.8	(54) THERMAL ENERGY STORAGE AND
(11) EP3404562	(47) 01.11.2023	HEAT REJECTION SYSTEM
(21) EP18020223.6	(22) 24.02.2021	(73) Rolls-Royce Corporation
(47) 01.11.2023	(54) RADIATOR WITH TEMPERATURE	Rolls-Royce North American
(22) 22.05.2018	LIMITATION	Technologies, Inc.
(54) RELATIONAL OPTIMISING PROCESS	(73) Zehnder Group International AG	(72) Spangler, Brian
FOR A HEAT EXCHANGER OF AN AIR	(72) Trzesowski, Tomasz	Snyder, Douglas
CONDITIONING SYSTEM	(31) 2782020	(31) 201816058445
(73) Howatherm Klimatechnik GmbH	(32) 12.03.2020	201862656508 P
(72) Kaup, Christoph	(33) Switzerland	(32) 08.08.2018
(31) 102017110912	(51) F25B 1/00	12.04.2018
(32) 19.05.2017	F25B 31/00	(33) United States of America
(33) Germany	F25B 49/02	United States of America
(51) F24F 12/00	(11) EP3575708	(51) F25B 31/00
F24F 5/00	(21) EP17894375.9	F25B 49/02
E04H 5/02	(47) 01.11.2023	(11) EP3604973
F24F 11/41	(87) JP2017002487	(21) EP19185117.9
(11) EP4098953	02.08.2018	(47) 01.11.2023
(21) EP22176192.7	(22) 25.01.2017	(22) 09.07.2019
(47) 01.11.2023	(54) REFRIGERATION CYCLE DEVICE	(54) AIR CONDITIONER
(22) 30.05.2022	(73) Mitsubishi Electric Corporation	(73) Panasonic Intellectual Property
(54) EVAPORATIVE COOLING UNIT AND	(72) ISHIYAMA, Hiroki	Management Co., Ltd.
DATA CENTER	SHIMAZU, Yusuke	(72) SUITA, Yoshitaka
(73) Huawei Digital Power Technologies Co.,	(51) F25B 1/00	OHKAWA, Kazunobu
Ltd.	F25B 41/00	SAITO, Shingo
(72) LI, Jian	F25B 13/00	(31) 2018142635
HU, Biao	F25B 41/40	(32) 30.07.2018
LU, Zhiyao	(11) EP4012290	(33) Japan
(31) 202110597645	(21) EP19940373.4	(51) F25B 41/20
(32) 31.05.2021	(47) 01.11.2023	(11) EP3722701
(33) China	(87) JP2019031084	(21) EP17934244.9
(51) F24H 3/02	11.02.2021	(47) 01.11.2023
F23B 50/12	(22) 07.08.2019	

(87) JP2017043754 13.06.2019	(22) 22.07.2019	(33) Korea (Republic)
(22) 06.12.2017	(54) DEFROST SYSTEM AND METHOD OF DEFROSTING AN EVAPORATOR	(51) F25D 29/00
(54) REFRIGERATION CYCLE DEVICE	SECTION OF A TEMPERATURE	(11) EP2995891
(73) Mitsubishi Electric Corporation	CONTROL UNIT	(21) EP15185841.2
(72) ISHIYAMA, Hiroki	(73) Carrier Corporation	(47) 01.11.2023
(51) F25B 41/20	(72) KONDRK, Jason R.	(22) 22.04.2014
F25B 43/00	(31) 201862711973 P	(54) REFRIGERATOR
(11) EP4109013	(32) 30.07.2018	(73) LG Electronics Inc.
(21) EP22175466.6	(33) United States of America	(72) KIM, Kwanyung
(47) 01.11.2023	(51) F25D 23/06	HONG, Samnyol
(22) 25.05.2022	F25D 31/00	KWON, Sungdu
(54) DEVICE HAVING REFRIGERANT CYCLE	(11) EP3431908	LEE, Ikkyu
(73) LG Electronics Inc.	(21) EP18177570.1	LEE, Myoungju
(72) CHO, Eunjun	(47) 01.11.2023	KIM, Jeonghwan
KIM, Minsoo	(22) 13.06.2018	(31) 20140045068
SEO, Hojin	(54) METHOD FOR PRECISELY POSITIONING AN INNER CASING IN AN EXTERNAL CASING OF AN AIR	20140045067
YANG, Dongkeun	CONDITIONED CABINET AND AIR	20140045066
(31) 20210080729	CONDITIONED CABINET	20130124739
(32) 22.06.2021	(73) Binder GmbH	20130044528
(33) Korea (Republic)	(72) Bernedo Juez, Paula	(32) 15.04.2014
(51) F25B 47/00	Zeller, Nina	15.04.2014
F25B 47/02	(31) 102017116527	18.10.2013
F25B 13/00	(32) 21.07.2017	23.04.2013
(11) EP3203165	(33) Germany	(33) Korea (Republic)
(21) EP17153516.4	(51) F25D 23/08	Korea (Republic)
(47) 01.11.2023	(11) EP3502602	Korea (Republic)
(22) 27.01.2017	(21) EP18211250.8	Korea (Republic)
(54) AIR CONDITIONER	(47) 01.11.2023	(51) F25D 29/00
(73) LG ELECTRONICS INC.	(22) 10.12.2018	(11) EP3742093
(72) SONG, Chiwoo	(54) REFRIGERATION AND/OR FREEZER DEVICE	(21) EP20175493.4
YOON, Pilhyun	(73) REHAU Industries SE & Co. KG	(47) 01.11.2023
KIM, Kakjoong	(72) Brettmann, Matthias	(22) 19.05.2020
JUNG, Jaehwa	Pardos, Santiago	(54) FRIDGE AND / OR FREEZER
(31) 20160010952	Willert, Manfred	(73) Liebherr-Hausgeräte Ochsenhausen GmbH
(32) 28.01.2016	Arslan, Erdinc	(72) NOTHELPER, Ilona
(33) Korea (Republic)	(31) 202017107822 U	PAUL, Annika
(51) F25D 3/08	(32) 21.12.2017	BERG, Philipp
B65D 81/38	(33) Germany	(31) 102019116628
(11) EP3634879	(51) F25D 25/02	102019113766
(21) EP18798368.9	(11) EP4073443	(32) 19.06.2019
(47) 01.11.2023	(21) EP20820907.2	23.05.2019
(87) US2018031897	(47) 01.11.2023	(33) Germany
15.11.2018	(87) EP2020084939	Germany
(22) 09.05.2018	17.06.2021	(51) F26B 3/22
(54) SHIPPING SYSTEM FOR STORING AND/OR TRANSPORTING TEMPERATURE-SENSITIVE MATERIALS	(22) 07.12.2020	F26B 17/00
(73) Cold Chain Technologies, LLC	(54) VACUUM DRAWER DEVICE FOR STORING FOOD	F26B 3/04
(72) RIZZO, Anthony	(73) Julius Blum GmbH	(11) EP3913311
LONGLEY, Amanda, Lynn	(72) BERTSCHI, Daniel	(21) EP21167893.3
NILSEN, James	(31) 15682019	(47) 01.11.2023
LEE, Tzeho	(32) 09.12.2019	(22) 12.04.2021
ORSINI, Richard	(33) Switzerland	(54) METHOD FOR DRYING BULK MATERIAL
PRANADI, Fery	(51) F25D 25/02	(73) Fritsche, Andreas
COOK, Gregory	F25D 23/06	(72) Fritsche, Andreas
(31) 201762503802 P	F25D 25/04	(31) 1162020
(32) 09.05.2017	(11) EP3764046	(32) 19.05.2020
(33) United States of America	(21) EP19199637.0	(33) Austria
(51) F25D 21/02	(47) 01.11.2023	(51) F26B 3/24
F25D 21/08	(22) 25.09.2019	F26B 11/16
(11) EP3830503	(54) REFRIGERATOR	F26B 23/00
(21) EP19749138.4	(73) LG ELECTRONICS INC.	F26B 23/10
(47) 01.11.2023	(72) CHOI, Kwang Hyun	F26B 17/20
(87) US2019042777	(31) 20190084448	(11) EP3948127
06.02.2020	(32) 12.07.2019	(21) EP19817950.9
		(47) 01.11.2023

(87) DE2019100995 27.05.2021	(47) 01.11.2023	(21) EP19857318.0
(22) 20.11.2019	(22) 24.11.2020	(47) 01.11.2023
(54) DEVICE FOR DRYING MOIST, FLOWABLE PRODUCTS	(54) APPARATUS AND METHOD FOR HEAT RECOVERY	(87) CN2019095551 12.03.2020
(73) Vettertec GmbH	(73) SFTec Oy	(22) 11.07.2019
(72) STANZEL, Ralf	(72) Isokääntä, Jani Roininen, Juha	(54) SLOTTED HEAT PIPE HAVING CIRCUMFERENTIAL SLOTS AND ASSEMBLY METHOD THEREOF
(51) F26B 11/04	(31) 20196012	(73) Beijing Institute of Space Mechanics & Electricity
(11) EP2437016	(32) 25.11.2019	(72) SHEN, Chunmei
(21) EP11183593.0	(33) Finland	LUO, Shikui
(47) 01.11.2023	(51) F28D 1/053	YANG, Tao
(22) 30.09.2011	F28F 9/013	LIU, Zhao
(54) DRYING DRUM FOR DOMESTIC WASTE AND METHOD FOR DRYING DOMESTIC WASTE	F28F 9/02	ZHAO, Zhenming
(73) ALBA 2 Energy GmbH	(11) EP3971507	CUI, Jin
(31) 102010047075	(21) EP19928811.9	YU, Feng
(32) 01.10.2010	(47) 01.11.2023	BAI, Jie
(33) Germany	(87) JP2019019127 19.11.2020	ZHAO, Shilei
(51) F27B 1/02	(22) 14.05.2019	ZHAO, Yu
C04B 2/12	(54) HEAT EXCHANGER AND REFRIGERATION CYCLE DEVICE	SHAO, Heqiang
F27B 1/10	(73) MITSUBISHI ELECTRIC CORPORATION	GAO, Teng
F27D 17/00	(72) MAEDA, Tsuyoshi	YANG, Ming
F27B 1/00	HIGASHIUE, Shinya	WEI, Qiang
(11) EP4182622	(51) F28D 3/02	ZHU, Xu
(21) EP22726002.3	F28D 1/02	(31) 201811022907
(47) 01.11.2023	(11) EP3922937	(32) 03.09.2018
(87) EP2022060929 03.11.2022	(21) EP19918713.9	(33) China
(22) 25.04.2022	(47) 01.11.2023	(51) F28F 3/04
(54) PARALLEL-FLOW REGENERATIVE SHAFT KILN AND METHOD FOR BURNING CARBONATE ROCK	(87) JP2019037863 17.09.2020	B22F 3/00
(73) Maerz Ofenbau AG	(22) 26.09.2019	F28F 13/18
thyssenkrupp Polysius GmbH	(54) VAPORIZATION DEVICE	(11) EP2975351
thyssenkrupp AG	(73) KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.)	(21) EP15176665.6
(72) PIRINGER, Hannes	(72) TSURU, Yoshihiko	(47) 01.11.2023
BUCHER, Patrick	SUMIDA, Yuji	(22) 14.07.2015
WALLIMANN, Roger	KAWATA, Kazuya	(54) ADDITIVE MANUFACTURED SURFACE FINNISH
SCHEFER, Dirk	HIGASHI, Kosuke	(73) RTX Corporation
(31) 202105326	CHIKAGUCHI, Satoshi	(72) OTT, Joe
102021204176	(31) 2019163411	FUNK, Stanley J.
(32) 27.04.2021	2019043442	COFFEY, Roger O.
27.04.2021	(32) 06.09.2019	STEMPINSKI, Shawn
(33) Belgium	11.03.2019	RUP, Jr., John J.
Germany	(33) Japan	DAUTOVA, Lyutsia
(51) F27D 3/12	Japan	MOURA, Dennis M.
F27D 5/00	(51) F28D 7/04	(31) 201462024023 P
C21D 9/00	F28D 7/00	(32) 14.07.2014
(11) EP3144622	F28F 9/02	(33) United States of America
(21) EP16188891.2	F28F 27/00	(51) F28F 9/02
(47) 01.11.2023	(11) EP3931508	F25B 39/00
(22) 15.09.2016	(21) EP20712443.9	F25B 41/00
(54) WORKPIECE CARRIER	(47) 01.11.2023	(11) EP3940329
(73) Graphite Materials GmbH	(87) EP2020055355 10.09.2020	(21) EP21195396.3
(72) LASSEL, Eduard Michael	(22) 28.02.2020	(47) 01.11.2023
(31) 202015104929 U	(54) HEAT EXCHANGER	(22) 05.04.2018
(32) 16.09.2015	(73) Reaction Engines Limited	(54) DISTRIBUTOR AND HEAT EXCHANGER
(33) Germany	(72) BURVILL, Thomas Charles NICHOL, Hamish Alexander	(73) MITSUBISHI ELECTRIC CORPORATION
(51) F28D 1/047	(31) 201902802	(72) AKAIWA, Ryota
C21B 3/08	(32) 01.03.2019	HIGASHIUE, Shinya
F22B 15/00	(33) United Kingdom	MOCHIZUKI, Atsushi
F28D 21/00	(51) F28D 15/02	(51) F28F 11/00
F28F 27/02	F28D 15/04	F28D 9/00
F27D 17/00	F28D 15/00	F28F 3/06
F28F 1/42	(11) EP3848661	F28F 3/08
(11) EP3825633		(11) EP3835704
(21) EP20209549.3		(21) EP19860109.8



(47) 01.11.2023	(73) Naval Group	(47) 01.11.2023
(87) JP2019034648	(72) GEIGER, Vincent	(22) 25.02.2020
19.03.2020	(31) 1911740	(54) PLUG GAUGE AND ASSOCIATED
(22) 03.09.2019	(32) 21.10.2019	SYSTEM AND METHOD FOR
(54) HEAT EXCHANGER	(33) France	TAKING MULTIPLE SIMULTANEOUS
(73) KABUSHIKI KAISHA KOBE SEIKO SHO	(51) F41H 5/013	DIAMETRIC MEASUREMENTS
(KOBEL STEEL, LTD.)	B65D 90/00	(73) The Boeing Company
(72) MITSUHASHI, Kenichiro	F42B 39/22	(72) ALBRECHT, Mark
KOGUSHI, Takashi	B65D 88/74	CHAN, Kwok Tung
YAMADA, Masato	B65D 90/08	SISCO, Tanni
TERADA, Susumu	B65D 90/22	GRAY, Everette D.
NOISHIKI, Koji	(11) EP4053489	(31) 201916287142
(31) 2018169773	(21) EP22159723.0	(32) 27.02.2019
(32) 11.09.2018	(47) 01.11.2023	(33) United States of America
(33) Japan	(22) 02.03.2022	(51) G01B 5/00
(51) F28F 13/18	(54) RETROFITTING SET FOR MILITARY	(11) EP3985346
(11) EP3728981	VEHICLES	(21) EP21196549.6
(21) EP18829421.9	(73) Krauss-Maffei Wegmann GmbH & Co.	(47) 01.11.2023
(47) 01.11.2023	KG	(22) 14.09.2021
(87) F12018050931	(72) Stodolka, Sascha	(54) RADIAL FORCE DEVICE FOR A
27.06.2019	Gottschlich, Christoph	CONTOUR MEASURING DEVICE AND
(22) 17.12.2018	Ferenzkiewicz, Thilo	MEASURING SYSTEM
(54) AN APPARATUS FOR COALESCENCE	(31) 102021105337	(73) JENOPTIK Industrial Metrology Germany
INDUCED DROPLET JUMPING	(32) 05.03.2021	GmbH
(73) Nokia Technologies Oy	(33) Germany	(72) Tomoscheit, Nils-Olaf
(72) ENRIGHT, Ryan	(51) F41H 13/00	Tuch, Carsten
LUNDY, Ross	G02B 27/14	(31) 102020127164
LEI, Shenghui	B23K 26/06	(32) 15.10.2020
CHAVAN, Shreyas	(11) EP2694911	(33) Germany
(31) 201715851406	(21) EP12725293.0	(51) G01B 5/00
(32) 21.12.2017	(47) 01.11.2023	G01B 5/255
(33) United States of America	(87) DE2012000288	G01B 7/315
(51) F41A 9/69	04.10.2012	G01B 11/275
(11) EP3988889	(22) 16.03.2012	G01B 21/26
(21) EP21000253.1	(54) RADIATING ELEMENT FOR	(11) EP3847414
(47) 01.11.2023	FOCUSSED ENERGY	(21) EP19758950.0
(22) 13.12.2018	(73) MBDA Deutschland GmbH	(47) 01.11.2023
(54) HOUSING FOR A CARTRIDGE	(72) GEIDEK, Franz	(87) EP2019072439
MAGAZINE FOR A HANDGUN AND	PROTZ, Rudolf	12.03.2020
CARTRIDGE MAGAZINE FOR A	ZOZ, Jürgen	(22) 22.08.2019
HANDGUN	NISSL, Norbert	(54) WHEEL HOLDER
(73) Schmeisser GmbH	(31) 102011015779	(73) Beissbarth Automotive Testing Solutions
(72) Schumacher, Andreas	(32) 01.04.2011	GmbH
Hoff, Thomas	(33) Germany	(72) PETERS, Stefanie
(31) 102018000740	(51) F41J 11/00	ILCHEV, Trendafil
(32) 30.01.2018	F41J 11/02	WAGMANN, Christian
(33) Germany	F24F 110/65	HOFMANN, Claudia
(51) F41A 21/48	(11) EP3861277	(31) 102018215165
(11) EP3800434	(21) EP19787490.2	(32) 06.09.2018
(21) EP19201455.3	(47) 01.11.2023	(33) Germany
(47) 01.11.2023	(87) NL2019050568	(51) G01B 5/008
(22) 04.10.2019	09.04.2020	G01B 5/20
(54) GUN, IN PARTICULAR A CARBINE	(22) 03.09.2019	B05B 15/00
(73) Glock Technology GmbH	(54) INDOOR SHOOTING RANGE	B08B 3/02
(72) Wutte, Andreas	(73) Ingenieursbureau en Technische	B08B 5/02
Bilgeri, Elmar	Handelsonderneming Autron B.V.	(11) EP3499176
(51) F41F 3/08	(72) MOERLAND, Jelle	(21) EP18192568.6
F42B 19/00	PONSEN, Arie	(47) 01.11.2023
F42B 22/00	(31) 2021750	(22) 04.09.2018
(11) EP3812690	(32) 03.10.2018	(54) NOZZLE INSPECTION METHOD AND
(21) EP20202966.6	(33) Netherlands	APPARATUS
(47) 01.11.2023	(51) G01B 3/26	(73) Sugino Machine Limited
(22) 21.10.2020	G01B 7/13	(72) Hiroki, HAREMAKI
(54) METHOD AND SYSTEM FOR	G01B 7/287	(31) 201762599212 P
OPTIMISING THE ATTACK STRATEGY	G01B 5/12	(32) 15.12.2017
OF AT LEAST ONE TARGET BY AT	G01B 3/46	(33) United States of America
LEAST ONE UNDERWATER WEAPON	(11) EP4134619	(51) G01B 7/00
LAUNCHED FROM A CARRIER	(21) EP22192998.7	F02M 65/00

F02M 57/00	(72) OGIEN, Jonas	(51) G01B 11/27
F02M 51/06	(31) 1913670	G02B 13/16
F15B 13/04	(32) 03.12.2019	(11) EP3540373
F15B 15/28	(33) France	(21) EP19154912.0
(11) EP3252426	(51) G01B 9/04	(47) 01.11.2023
(21) EP16743487.7	G01B 11/24	(22) 31.01.2019
(47) 01.11.2023	G02B 21/00	(54) SYSTEM AND METHOD FOR
(87) JP2016052527	(11) EP3811025	RECEIVING SIGNAL INFORMATION
04.08.2016	(21) EP19728915.0	FOR NETWORKING USING A FREE
(22) 28.01.2016	(47) 01.11.2023	SPACE OPTICAL LINK
(54) DISPLACEMENT DETECTION DEVICE	(87) EP2019063867	(73) The Boeing Company
(73) Melexis Technologies SA	26.12.2019	(72) La Fata, Christopher M.
(72) YOSHIYA, Takumi	(22) 28.05.2019	(31) 201815922542
(31) 2015015061	(54) DEVICE FOR CHROMATIC CONFOCAL	(32) 15.03.2018
(32) 29.01.2015	OPTICAL MEASUREMENT AND	(33) United States of America
(33) Japan	CONFOCAL IMAGING OF A	
(51) G01B 7/16	MEASUREMENT OBJECT, AND	(51) G01B 17/02
(11) EP3690387	METHOD	C21B 7/24
(21) EP18862478.7	(73) Precitec Optronik GmbH	C21C 5/44
(47) 01.11.2023	(72) DIETZ, Christoph	F27D 21/00
(87) JP2018035706	SCHÖNLEBER, Martin	G01M 7/08
04.04.2019	PICHOT, Jean-Francois	G01N 29/04
(22) 26.09.2018	ANDRÉ, Stephan	G01N 29/44
(54) STRAIN GAUGE	(31) 102019001498	G01N 29/46
(73) Minebea Mitsumi Inc.	102018114860	G01M 5/00
(72) ASAKAWA, Toshiaki	(32) 06.03.2019	(11) EP4065928
AIZAWA, Yuta	20.06.2018	(21) EP20816635.5
TODA, Shinya	(33) Germany	(47) 01.11.2023
TAKATA, Shintaro	Germany	(87) IB2020061212
NIWA, Shinichi	(51) G01B 11/06	03.06.2021
(31) 2017191820	G01B 11/26	(22) 27.11.2020
(32) 29.09.2017	B23K 26/03	(54) SYSTEM AND METHOD FOR
(33) Japan	B22F 10/25	ESTIMATING BOTH THICKNESS AND
(51) G01B 9/02	B22F 10/38	WEAR STATE OF REFRACTORY
G01N 21/552	B22F 12/90	MATERIAL OF A METALLURGICAL
G01N 21/45	B23K 26/34	FURNACE
G01D 5/26	B33Y 50/02	(73) ArcelorMittal
G01N 33/68	(11) EP4015987	(72) GÓMEZ GARCÍA, Pablo
(11) EP3427003	(21) EP20383119.3	FERNANDEZ ALVAREZ, José Paulino
(21) EP17709074.3	(47) 01.11.2023	BAQUET GONZÁLEZ, Ignacio
(47) 01.11.2023	(22) 18.12.2020	SÍMARO, José Tomás
(87) EP2017055269	(54) HEIGHT MEASURING SYSTEM IN	HERRERO BLANCO, Ignacio
14.09.2017	LASER METAL DEPOSITIONS AND	FERNÁNDEZ DIÉGUEZ, Enol
(22) 07.03.2017	CORRESPONDING MEASURING	SUÁREZ LÁZARE, Carlos Javier
(54) COMPACT INTERFEROMETER,	METHOD	(31) PCT/IB2019/060326
RELATED BIO-CHEMICAL SENSOR	(73) LORTEK S. COOP.	(32) 29.11.2019
AND MEASUREMENT DEVICE	(72) GARCÍA DE LA YEDRA BASURTO, Aitor	(33) World Intellectual Property Office (WIPO)
(73) Université de Technologie de Troyes	PEREIRA FALCON, Juan, Carlos	(51) G01B 21/04
(72) BRUYANT, Aurélien	BOROVKOV, Herman	G01B 5/008
VAILLANT, Julien	(51) G01B 11/24	G01B 11/00
WU, Tzu-Heng	G01B 11/275	(11) EP3194884
LIN, Chii-Wann	(11) EP4012328	(21) EP15771443.7
(31) PCT/EP2016/054852	(21) EP21213897.8	(47) 01.11.2023
(32) 08.03.2016	(47) 01.11.2023	(87) US2015050803
(33) World Intellectual Property Office (WIPO)	(22) 10.12.2021	24.03.2016
(51) G01B 9/02091	(54) SYSTEM AND METHOD OF OPTICAL	(22) 17.09.2015
G01B 9/04	SCANNING OF A VEHICLE FOR	(54) MULTI-MODE PORTABLE
G02B 21/00	MEASURING AND/OR CONTROLLING	COORDINATE MEASURING MACHINE
G02B 21/36	THE VEHICLE AND/OR PARTS	(73) Hexagon Metrology, Inc
(11) EP4070144	THEREOF	(72) FERRARI, Paul
(21) EP20824465.7	(73) Texa S.p.A.	JUNG, Hyun, Kwon
(47) 01.11.2023	VEHICLE SERVICE GROUP ITALY	(31) 201462059693 P
(87) EP2020083951	S.R.L.	201462052846 P
10.06.2021	(72) VIANELLO, Bruno	(32) 03.10.2014
(22) 30.11.2020	MAMBRILLA, Massimo	19.09.2014
(54) DEVICES AND METHODS FOR LINE-	(31) 202000030578	(33) United States of America
SCANNING MICROSCOPY	(32) 11.12.2020	United States of America
(73) Damae Medical	(33) Italy	(51) G01B 21/04
		G01B 5/016

B08B 5/02	(54) A NAVIGATION ROUTE PLANNING	(21) EP20755128.4
(11) EP3850299	METHOD FOR AUTONOMOUS	(47) 01.11.2023
(21) EP19773482.5	VEHICLES	(87) CA2020050182
(47) 01.11.2023	(73) Baidu.com Times Technology (Beijing)	20.08.2020
(87) GB2019052532	Co., Ltd.	(22) 12.02.2020
19.03.2020	Baidu USA LLC	(54) RADIO FREQUENCY WIRELESS
(22) 11.09.2019	(72) YU, Ning	SENSING DEVICE
(54) TOOL SETTING APPARATUS AND	ZHU, Fan	(73) His Majesty The King in Right of Canada
METHOD FOR A MACHINE TOOL	(51) G01C 23/00	as Represented by The Minister of
(73) Renishaw PLC	G08G 5/02	Natural Resources Canada
(72) ALI, Rizwan	(11) EP3978879	(72) HE, Youliang
(31) 18193696	(21) EP21198972.8	PODLESNY, Maciej
(32) 11.09.2018	(47) 01.11.2023	(31) 201962804859 P
(33) European Patent Office (EPO)	(22) 24.09.2021	(32) 13.02.2019
(51) G01C 9/00	(54) SYSTEMS AND METHODS FOR	(33) United States of America
B60Q 1/10	VISUALIZING AN ASSUMED LATERAL	(51) G01D 5/353
G01C 21/16	AND VERTICAL FLIGHT PATH ON AN	(11) EP4115150
(11) EP3571466	AVIONIC DISPLAY	(21) EP21723647.0
(21) EP17783932.1	(73) Honeywell International Inc.	(47) 01.11.2023
(47) 01.11.2023	(72) BOUDA, Tomas	(87) EP2021059917
(87) FR2017052535	MACHACKOVA, Petra	21.10.2021
12.04.2018	DOPITA, Stepan	(22) 16.04.2021
(22) 21.09.2017	LACKO, Ivan	(54) OPTICAL FIBRE BASED
(54) AUTONOMOUS METHOD AND DEVICE	(31) 202017061060	MEASUREMENT SYSTEM, METHOD
FOR DETERMINING THE PITCH	(32) 01.10.2020	OF MEASURING PARAMETERS, AND
ATTITUDE OF A MOTOR VEHICLE	(33) United States of America	COMPUTER PROGRAM PRODUCT
(73) AML Systems	(51) G01D 5/14	(73) Inphotech Spolka z Ograniczona
(72) KOULOUH, Hassan	G01D 5/245	Odpowiedzialnoscia
RIVIER, Cyril	(11) EP4025875	(72) MARKIEWICZ, Krzysztof
LOPEZ, Daniel	(21) EP20768538.9	KACZOROWSKI, Jakub
(31) 1659692	(47) 01.11.2023	SZOSTKIEWCZ, Lukasz
(32) 07.10.2016	(87) EP2020074565	DOMINGUEZ LOPEZ, Alejandro
(33) France	11.03.2021	NAPIERALA, Marek
(51) G01C 21/20	(22) 03.09.2020	NASILOWSKI, Tomasz
B60W 30/095	(54) METHOD AND SYSTEM FOR	(31) 20461529
B62D 15/02	DETERMINING POSITION	(32) 17.04.2020
G01C 21/34	DISPLACEMENTS	(33) European Patent Office (EPO)
G05D 1/02	(73) Universität Rostock	(51) G01D 5/353
B60W 60/00	(72) FALKENSTEIN, Jens-Werner	G01N 21/47
(11) EP4019899	(31) 102019123951	G08B 13/186
(21) EP21210139.8	(32) 06.09.2019	G01H 9/00
(47) 01.11.2023	(33) Germany	G08B 29/20
(22) 24.11.2021	(51) G01D 5/14	(11) EP3510363
(54) METHOD AND APPARATUS FOR	G01D 11/24	(21) EP17847826.9
CREATING DRIVING ROUTE OF	(11) EP4025874	(47) 01.11.2023
AUTONOMOUS VEHICLE AND	(21) EP19769724.6	(87) AU2017050985
COMPUTER PROGRAM THEREFOR	(47) 01.11.2023	15.03.2018
(73) RideFlux Inc.	(87) EP2019073736	(22) 08.09.2017
(72) KIM, Jiwoong	11.03.2021	(54) METHOD FOR DISTRIBUTED
CHO, Himchan	(22) 05.09.2019	ACOUSTIC SENSING
PARK, Junghee	(54) ANGULAR DISPLACEMENT	(73) Fiber Sense Limited
YUN, Ho	MEASURING ARRANGEMENT,	(72) ENGLUND, Mark Andrew
JEONG, Hawook	ANGULAR DISPLACEMENT	(31) 2016903617
(31) 20200182744	MEASURING SYSTEM AND ELECTRIC	(32) 08.09.2016
(32) 24.12.2020	MOTOR	(33) Australia
(33) Korea (Republic)	(73) Fraba B.V.	(51) G01D 11/24
(51) G01C 21/32	(72) LÖKEN, Michael	G01D 5/12
G01C 21/34	GONZALEZ, Carmen Alejandro Sanchez	H01R 12/71
B60W 60/00	(51) G01D 5/16	G01D 21/00
G01C 21/36	G01M 3/16	G01D 5/20
G05D 1/02	G01M 3/18	(11) EP3822589
B60W 30/18	G01N 17/04	(21) EP18926137.3
(11) EP3987249	H01P 3/12	(47) 01.11.2023
(21) EP20927100.6	H04B 13/00	(87) JP2018026463
(47) 01.11.2023	G01D 21/00	16.01.2020
(87) CN2020081474	H04B 5/00	(22) 13.07.2018
30.09.2021	H04B 13/02	(54) DETECTION DEVICE
(22) 26.03.2020	(11) EP3924695	(73) MIKUNI CORPORATION

(72) TSUJI, Ichiro HIEI, Masaki	Ciobanu, Calin Franks, Kevin	(72) TAKEMURA, Kouichi SHIBA, Fumikazu NAKABAYASHI, Yuji
(51) G01F 1/002 G01F 1/663	(31) 201816146090 (32) 28.09.2018	(31) 2010276592 (32) 13.12.2010
(11) EP3479074	(33) United States of America	(33) Japan
(21) EP17737435.2 (47) 01.11.2023	(51) G01F 1/58 (11) EP3649440	(51) G01F 1/66 G01F 15/14 G01F 15/18
(87) US2017039464 04.01.2018	(21) EP18733831.4 (47) 01.11.2023	(11) EP3734235 (21) EP20179746.1 (47) 01.11.2023
(22) 27.06.2017	(87) EP2018066260 10.01.2019	(22) 08.02.2011
(54) FLOW METER WITH ADAPTABLE BEAM CHARACTERISTICS	(22) 19.06.2018	(47) 01.11.2023
(73) Hach Company	(54) METHOD FOR PRODUCING A MAGNETIC INDUCTIVE FLOWMETER, AND MAGNETIC INDUCTIVE FLOWMETER	(72) DRACHMANN, Jens (31) PA201000306 (32) 12.04.2010 (33) Denmark
(72) RICK, David, Langley PAOLI, Ernie, Ray KING, Philip, N.	(73) Endress+Hauser Flowtec AG (72) TSCHUDIN, Beat	(54) ULTRASONIC CONSUMPTION METER (73) Apator Miitors ApS
(31) 201615198911 (32) 30.06.2016	(31) 102017115156 (32) 06.07.2017	(72) DRACHMANN, Jens (31) PA201000306 (32) 12.04.2010 (33) Denmark
(33) United States of America	(31) 102017115156 (32) 06.07.2017 (33) Germany	(51) G01F 1/667 (11) EP3894799 (21) EP19808758.7 (47) 01.11.2023 (87) EP2019082014 18.06.2020 (22) 21.11.2019
(51) G01F 1/36 G01F 25/10 G01F 1/50 G01F 15/06	(51) G01F 1/58 G01F 1/60 (11) EP3120116 (21) EP15764244.8 (47) 01.11.2023 (87) US2015018880 24.09.2015	(54) ULTRASOUND TRANSDUCER ARRANGEMENT OF A CLAMP- ON ULTRASOUND FLOW MEASURING UNIT, AND A CLAMP-ON ULTRASOUND FLOW MEASURING UNIT AND METHOD FOR STARTING UP THE CLAMP-ON ULTRASOUND FLOW MEASURING UNIT
(11) EP3199927 (21) EP16157348.0 (47) 01.11.2023 (22) 25.02.2016	(22) 05.03.2015 (54) MAGNETIC CORE CONFIGURATION FOR MAGNETIC FLOWMETERS (73) Micro Motion, Inc. (72) ROVNER, Bruce D. MESSENGER, Samuel E. DREIER, Jared J. BEYL, John C.	(73) Endress + Hauser Flowtec AG (72) GRUNWALD, Sascha BRUMBERG, Oliver MURRAY, Alexander BERGER, Andreas WIEST, Achim (31) 102018132055 (32) 13.12.2018 (33) Germany
(54) A METHOD AND A SYSTEM FOR METERING FLOW THROUGH A FLUID CONDUIT	(73) Micro Motion, Inc. (72) ROVNER, Bruce D. MESSENGER, Samuel E. DREIER, Jared J. BEYL, John C.	(31) 201414502519 201461955117 P (32) 30.09.2014 18.03.2014 (33) United States of America United States of America
(73) ABB Schweiz AG (72) van Dal, J. C. H. M. (31) 16153571 (32) 01.02.2016 (33) European Patent Office (EPO)	(31) 201414502519 201461955117 P (32) 30.09.2014 18.03.2014 (33) United States of America United States of America	(31) 102018132055 (32) 13.12.2018 (33) Germany
(51) G01F 1/56 G01F 15/18 C09D 127/18 G01F 1/58 G01F 1/60 H01B 1/12	(31) 201414502519 201461955117 P (32) 30.09.2014 18.03.2014 (33) United States of America United States of America	(51) G01F 1/684 G01F 15/14 B21D 39/04 B21D 26/08 B21D 26/14 (11) EP3956639 (21) EP20716436.9 (47) 01.11.2023 (87) EP2020059058 22.10.2020 (22) 31.03.2020 (54) METHOD FOR PRODUCING A PROBE OF A THERMAL FLOWMETER, PROBE OF A THERMAL FLOWMETER, AND THERMAL FLOWMETER
(11) EP3676570 (21) EP18849489.2 (47) 01.11.2023	(51) G01F 1/60 (11) EP4078100 (21) EP20817286.6 (47) 01.11.2023 (87) EP2020084082 24.06.2021	(51) G01F 1/684 G01F 15/14 B21D 39/04 B21D 26/08 B21D 26/14 (11) EP3956639 (21) EP20716436.9 (47) 01.11.2023 (87) EP2020059058 22.10.2020 (22) 31.03.2020 (54) METHOD FOR PRODUCING A PROBE OF A THERMAL FLOWMETER, PROBE OF A THERMAL FLOWMETER, AND THERMAL FLOWMETER
(87) US2018047515 07.03.2019 (22) 22.08.2018	(22) 01.12.2020 (54) METHOD OF OPERATING A MAGNETIC INDUCTIVE FLOWMETER (73) Endress + Hauser Flowtec AG (72) SCHMALZRIED, Frank RUFER, Heinz DRAHM, Wolfgang KÜNG, Thomas	(51) G01F 1/684 G01F 15/14 B21D 39/04 B21D 26/08 B21D 26/14 (11) EP3956639 (21) EP20716436.9 (47) 01.11.2023 (87) EP2020059058 22.10.2020 (22) 31.03.2020 (54) METHOD FOR PRODUCING A PROBE OF A THERMAL FLOWMETER, PROBE OF A THERMAL FLOWMETER, AND THERMAL FLOWMETER
(54) CONDUCTIVE POLYMER REFERENCE CONNECTION FOR MAGNETIC FLOWMETER	(22) 01.12.2020 (54) METHOD OF OPERATING A MAGNETIC INDUCTIVE FLOWMETER (73) Endress + Hauser Flowtec AG (72) SCHMALZRIED, Frank RUFER, Heinz DRAHM, Wolfgang KÜNG, Thomas	(51) G01F 1/684 G01F 15/14 B21D 39/04 B21D 26/08 B21D 26/14 (11) EP3956639 (21) EP20716436.9 (47) 01.11.2023 (87) EP2020059058 22.10.2020 (22) 31.03.2020 (54) METHOD FOR PRODUCING A PROBE OF A THERMAL FLOWMETER, PROBE OF A THERMAL FLOWMETER, AND THERMAL FLOWMETER
(73) Micro Motion Inc. (72) GOSLING, Arthur S. WEIGELT, Chad T. MESSENGER, Samuel E. ANDERSON, Erik D.	(73) Endress + Hauser Flowtec AG (72) SCHMALZRIED, Frank RUFER, Heinz DRAHM, Wolfgang KÜNG, Thomas	(51) G01F 1/684 G01F 15/14 B21D 39/04 B21D 26/08 B21D 26/14 (11) EP3956639 (21) EP20716436.9 (47) 01.11.2023 (87) EP2020059058 22.10.2020 (22) 31.03.2020 (54) METHOD FOR PRODUCING A PROBE OF A THERMAL FLOWMETER, PROBE OF A THERMAL FLOWMETER, AND THERMAL FLOWMETER
(31) 201715692741 (32) 31.08.2017 (33) United States of America	(31) 102019135278 (32) 19.12.2019 (33) Germany	(73) Endress+Hauser Flowtec AG (72) BADARLIS, Anastasios GABERTHÜEL, Stephan GRÜN, Alexander SCHULTHEIS, Hanno BAUR, Tobias BARTH, Martin ARNOLD, Martin HABERT, Mathieu (31) 102019110312
(51) G01F 1/58 (11) EP3628982 (21) EP19196865.0 (47) 01.11.2023 (22) 12.09.2019	(51) G01F 1/66 (11) EP2653840 (21) EP11848264.5 (47) 01.11.2023 (87) JP2011006811 21.06.2012 (22) 06.12.2011	(73) Endress+Hauser Flowtec AG (72) BADARLIS, Anastasios GABERTHÜEL, Stephan GRÜN, Alexander SCHULTHEIS, Hanno BAUR, Tobias BARTH, Martin ARNOLD, Martin HABERT, Mathieu (31) 102019110312
(54) FULL BORE MAGNETIC FLOWMETER ASSEMBLY	(87) JP2011006811 21.06.2012 (22) 06.12.2011 (54) FLOW VOLUME MEASURING DEVICE (73) Panasonic Holdings Corporation	(73) Endress+Hauser Flowtec AG (72) BADARLIS, Anastasios GABERTHÜEL, Stephan GRÜN, Alexander SCHULTHEIS, Hanno BAUR, Tobias BARTH, Martin ARNOLD, Martin HABERT, Mathieu (31) 102019110312
(73) Georg Fischer Signet LLC (72) Smith, Michael T. Gross, Paxton	(22) 06.12.2011 (54) FLOW VOLUME MEASURING DEVICE (73) Panasonic Holdings Corporation	(73) Endress+Hauser Flowtec AG (72) BADARLIS, Anastasios GABERTHÜEL, Stephan GRÜN, Alexander SCHULTHEIS, Hanno BAUR, Tobias BARTH, Martin ARNOLD, Martin HABERT, Mathieu (31) 102019110312

(32) 18.04.2019	AND DIAGNOSTIC TOOLS FOR	(21) EP18835142.3
(33) Germany	CONFIGURING A FLOWMETER	(47) 01.11.2023
(51) G01F 1/74	SYSTEM	(87) AU2018050757
G01F 15/02	(73) Micro Motion Inc.	24.01.2019
G01N 9/00	(72) BUTTLER, Marc Allan	(22) 18.07.2018
G01N 11/16	PATTEN, Andrew Timothy	(54) METHOD AND SYSTEM FOR
G01F 1/84	(31) 201862696664 P	DISTRIBUTED ACOUSTIC SENSING IN
(11) EP3963293	(32) 11.07.2018	A MARINE ENVIRONMENT
(21) EP20715866.8	(33) United States of America	(73) Fiber Sense Limited
(47) 01.11.2023	(51) G01F 25/10	(72) ENGLUND, Mark Andrew
(87) EP2020059050	G01F 15/02	(31) 2017902820
05.11.2020	G01F 1/84	(32) 18.07.2017
(22) 31.03.2020	G01B 21/08	(33) Australia
(54) MEASURING DEVICE FOR	G01N 3/56	(51) G01J 1/02
CHARACTERIZING A NON-	G01N 17/00	G01J 5/0813
HOMOGENEOUS, FLOWABLE MEDIUM	(11) EP2739944	G01J 5/22
(73) Endress+Hauser Process Solutions AG	(21) EP12742830.8	G01J 5/20
(72) ZHU, Hao	(47) 01.11.2023	G01J 5/02
RIEDER, Alfred	(87) EP2012064011	H01L 27/144
LIN, Yaoying	07.02.2013	H10N 15/00
(31) 102019003075	(22) 17.07.2012	H10N 19/00
(32) 30.04.2019	(54) METHOD FOR DETECTING A DEPOSIT	(11) EP3933357
(33) Germany	FORMATION OR AN ABRASION IN A	(21) EP19917332.9
(51) G01F 1/84	FLOW METER	(47) 01.11.2023
(11) EP3999817	(73) Endress+Hauser Flowtec AG	(87) JP2019037205
(21) EP20733791.6	(72) RIEDER, Alfred	03.09.2020
(47) 01.11.2023	DRAHM, Wolfgang	(22) 24.09.2019
(87) EP2020066974	ZHU, Hao	(54) INFRARED SENSOR AND INFRARED
21.01.2021	HUBER, Christof	SENSOR ARRAY
(22) 18.06.2020	KUMAR, Vivek	(73) Panasonic Intellectual Property
(54) CORIOLIS MEASURING SENSOR	KIRST, Michael	Management Co., Ltd.
AND CORIOLIS MEASURING DEVICE	(31) 102011080415	(72) TAKAHASHI, Kouhei
HAVING A CORIOLIS MEASURING	(32) 04.08.2011	TAMBO, Naoki
SENSOR	(33) Germany	NAKAMURA, Kunihiko
(73) Endress + Hauser Flowtec AG	(51) G01F 25/20	FUJIKANE, Masaki
(72) POHL, Johan	G01F 23/296	NAITO, Yasuyuki
BITTO, Ennio	(11) EP3969853	(31) 2019035360
(31) 102019119231	(21) EP20718633.9	(32) 28.02.2019
(32) 16.07.2019	(47) 01.11.2023	(33) Japan
(33) Germany	(87) EP2020060038	(51) G01J 1/42
(51) G01F 23/263	19.11.2020	C09K 9/02
(11) EP3865830	(22) 08.04.2020	H10K 30/30
(21) EP21152375.8	(54) MONITORING THE CONDITION OF A	H10K 39/30
(47) 01.11.2023	VIBRONIC SENSOR	H10K 85/10
(22) 18.08.2014	(73) Endress+Hauser SE+Co. KG	(11) EP3479082
(54) LIQUID LEVEL SENSING SYSTEMS	(72) UPPENKAMP, Kaj	(21) EP17739212.3
(73) Goodrich Corporation	STRITTMATTER, Christian	(47) 01.11.2023
(72) Periyathamby, Sabeshan S.	WERNET, Armin	(87) EP2017066281
Lei, Martin	D'ANGELICO, Sascha	04.01.2018
Shearer, Jon	(31) 102019112866	(22) 30.06.2017
Harr, John A.	(32) 16.05.2019	(54) UV DOSIMETER WITH COLOUR
Mackulin, Bryan J.	(33) Germany	CHANGE
(31) 201414318181	(51) G01G 17/08	(73) Thüringisches Institut für Textil- und
201361868412 P	G01G 21/22	Kunststoff-Forschung e.V.
(32) 27.06.2014	(11) EP3521780	(72) SCHRÖDNER, Mario
21.08.2013	(21) EP19157882.2	SCHACHE, Hannes
(33) United States of America	(47) 01.11.2023	BLANKENBURG, Lars
United States of America	(22) 10.02.2012	KONKIN, Gulnara
(51) G01F 25/10	(54) WEIGHING APPARATUS WITH A	(31) 102016007932
G01F 1/84	PLATFORM	(32) 30.06.2016
(11) EP3821214	(73) Janner, Siegfried	(33) Germany
(21) EP19745481.2	(72) Janner, Siegfried	(51) G01J 3/00
(47) 01.11.2023	(31) 102011000682	G01J 3/02
(87) US2019040840	(32) 11.02.2011	G01J 3/26
16.01.2020	(33) Germany	(11) EP2976605
(22) 08.07.2019	(51) G01H 9/00	(21) EP14779143.8
(54) METHODS FOR OPERATING A	G01V 8/24	(47) 01.11.2023
FLOWMETER DIAGNOSTIC TOOL	(11) EP3655735	(87) US2014031369

09.10.2014	(51) G01J 3/45	(11) EP4090928
(22) 20.03.2014	G01J 3/02	(21) EP21700880.4
(54) SPECTROSCOPIC	G01N 21/31	(47) 01.11.2023
CHARACTERIZATION OF SEAFOOD	(11) EP3686568	(87) EP2021050734
(73) Viavi Solutions Inc.	(21) EP18858106.0	22.07.2021
(72) O'BRIEN, Nada, A.	(47) 01.11.2023	(22) 14.01.2021
HULSE, Charles, A.	(87) JP2018033394	(54) ELECTRON-GAS THERMOELECTRIC
SIESLER, Heinz, W.	28.03.2019	SENSOR
HSIUNG, Changmeng	(22) 10.09.2018	(73) Commissariat à l'Energie Atomique et
(31) 201361804106 P	(54) FOURIER SPECTROSCOPIC	aux Energies Alternatives
(32) 21.03.2013	ANALYZER	(72) SAVELLI, Guillaume
(33) United States of America	(73) Yokogawa Electric Corporation	BRYAN, Charlotte
(51) G01J 3/02	(72) SUZUKI, Yasuyuki	ESCOFFIER, René
G01J 3/06	NAKAMURA, Yukihiko	PLISSONNIER, Marc
G01J 3/10	NISHI, Masashi	(31) 2000402
G01J 3/28	NAMATAME, Tetsushi	(32) 16.01.2020
G01J 3/453	(31) 2017178656	(33) France
A61B 5/00	(32) 19.09.2017	(51) G01K 7/42
G01B 9/02	(33) Japan	G01K 1/18
(11) EP3760990	(51) G01J 3/45	G01K 13/02
(21) EP20167240.9	G01J 3/26	G01K 1/143
(47) 01.11.2023	G01J 3/42	(11) EP3857192
(22) 31.03.2020	G01J 3/443	(21) EP19866156.3
(54) METHOD AND SHEAR-INVARIANT	G01B 9/02	(47) 01.11.2023
MICHELSON TYPE INTERFEROMETER	G01J 3/28	(87) US2019051911
FOR SINGLE-SHOT-IMAGING FT-	(11) EP3407037	02.04.2020
SPECTROSCOPY	(21) EP18177855.6	(22) 19.09.2019
(73) Universität Stuttgart	(47) 01.11.2023	(54) NON-INVASIVE PROCESS FLUID
(72) KÖRNER, Klaus	(22) 01.05.2015	TEMPERATURE INDICATION FOR
HERKOMMER, Alois M.	(54) FABRY-PEROT INTERFEROMETER	HIGH TEMPERATURE APPLICATIONS
(51) G01J 3/02	BASED SATELLITE DETECTION OF	(73) Rosemount Inc.
G01J 3/10	ATMOSPHERIC TRACE GASES	(72) RUD, Jason H.
(11) EP3722758	(73) Ghgsat Inc.	(31) 201816139341
(21) EP20175538.6	(72) SLOAN, James J.	(32) 24.09.2018
(47) 01.11.2023	DURAK, Berke	(33) United States of America
(22) 13.11.2013	GAINS, David	(51) G01L 1/22
(54) PORTABLE SPECTROMETER	RICCI, Francesco	G01G 3/14
(73) Viavi Solutions Inc.	MCKEEVER, Jason	G01G 19/18
(72) HRUSKA, Curtis, R.	LAMORE, Joshua	(11) EP3438628
HULSE, Charles, A.	SDAO, Mark	(21) EP18184594.2
BRYARS, Brett, J.	LATENDRESSE, Vincent	(47) 01.11.2023
VON GUNTEN, Marc, K.	LAVOIE, Jonathan	(22) 20.07.2018
PEDERSON, Christopher, G.	KRUZELECKY, Roman	(54) LOAD MEASURING DEVICE AND
O'BRIEN, Nada, A.	(31) 201462003289 P	OPERATING METHOD FOR SAME
ZIEBA, Jerry	(32) 27.05.2014	(73) Neumann & Müller GmbH & Co. KG
(31) 201361784811 P	(33) United States of America	(31) 102017117553
201261725923 P	(51) G01K 3/04	(32) 02.08.2017
(32) 14.03.2013	G01N 31/22	(33) Germany
13.11.2012	(11) EP4058764	(51) G01L 1/22
(33) United States of America	(21) EP20812431.3	G01L 9/00
United States of America	(47) 01.11.2023	G01L 9/04
(51) G01J 3/02	(87) IB2020060567	G01L 25/00
G01J 3/44	20.05.2021	G01L 27/00
G02B 21/00	(22) 10.11.2020	(11) EP3771895
(11) EP3899460	(54) TIME-TEMPERATURE INDICATOR	(21) EP19189371.8
(21) EP19850763.4	(73) E.O.S. S.p.A.	(47) 01.11.2023
(47) 01.11.2023	Maccagnani, Stefano	(22) 31.07.2019
(87) FR2019053162	(72) AMATO, Andrea	(54) TEMPERATURE COMPENSATED
25.06.2020	MACCAGNANI, Stefano	STRAIN GAUGE MEASUREMENTS
(22) 18.12.2019	(31) 201900020853	(73) ABB Schweiz AG
(54) APPARATUS AND METHOD	(32) 12.11.2019	(72) SZASZ, Paul
FOR LIGHT-BEAM SCANNING	(33) Italy	DECKER, Andreas
MICROSPECTROMETRY	(51) G01K 7/02	(51) G01L 5/00
(73) Horiba France SAS	H01L 23/38	(11) EP3508831
(72) FROIGNEUX, Emmanuel	H01L 27/06	(21) EP18213561.6
(31) 1873992	H01L 29/20	(47) 01.11.2023
(32) 21.12.2018	H01L 29/778	(22) 18.12.2018
(33) France	H10N 10/17	

(54) ROLLER WITH INTEGRATED LOAD DETECTION	(31) 201715637232 201762469954 P	18.03.2021
(73) Aktiebolaget SKF	(32) 29.06.2017	(22) 09.09.2020
(72) Den Haak, Nicolaas Simon Willem van Amerongen, Gertjan	(33) United States of America United States of America	(54) APPARATUS FOR MEASURING SOIL CONTACT STRESSES
(31) 102018200048	(51) G01L 19/14	(73) Oxford University Innovation Limited
(32) 03.01.2018	G01L 9/00	(72) SHEIL, Brian
(33) Germany	(11) EP3090242	TEMPLEMAN, Jack
(51) G01L 5/22	(21) EP14828252.8	(31) 201912976
G01L 1/20	(47) 01.11.2023	(32) 09.09.2019
(11) EP3775818	(87) FR2014053451	(33) United Kingdom
(21) EP19718906.1	09.07.2015	(51) G01M 5/00
(47) 01.11.2023	(22) 19.12.2014	G01N 3/02
(87) GB2019000058	(54) DEVICE FOR MEASURING PRESURE	(11) EP3387502
17.10.2019	(73) Valeo Systèmes de Contrôle Moteur	(21) EP16873643.7
(22) 10.04.2019	(72) ZAKRZEWSKI, Piotr	(47) 01.11.2023
(54) SENSING PHYSICAL ATTRIBUTES	GELEZ, Nicolas	(87) US2016064894
(73) Peratech Holdco Ltd	(31) 1363750	15.06.2017
(72) AFENTAKIS, Themistoklis	(32) 31.12.2013	(22) 05.12.2016
(31) 201814821	(33) France	(54) INTELLIGENT AUTOMATED LOAD CONTROL SYSTEM AND METHOD
201862657067 P	(51) G01L 21/34	(73) Mechanical Testing Services, LLC
(32) 12.09.2018	(11) EP3998466	(72) SCHWIND, Brian E.
13.04.2018	(21) EP19944839.0	PURVIS, Daniel
(33) United Kingdom	(47) 01.11.2023	LIN, Albert
United States of America	(87) JP2019036191	(31) 201615367373
(51) G01L 9/12	18.03.2021	201562265721 P
G01L 19/04	(22) 13.09.2019	(32) 02.12.2016
G01L 9/00	(54) IONIZATION GAUGE AND CARTRIDGE THEREFOR	10.12.2015
(11) EP2706337	(73) Canon Anelva Corporation	(33) United States of America
(21) EP13183106.7	(72) KAWASAKI, Yohsuke	United States of America
(47) 01.11.2023	(51) G01M 3/00	(51) G01M 11/00
(22) 05.09.2013	G01M 3/24	G01N 21/95
(54) Capacitive pressure sensor	(11) EP3428603	G01N 21/55
(73) DYNISCO INSTRUMENTS LLC	(21) EP16727214.5	(11) EP4001877
(72) Barron, Leo E.	(47) 01.11.2023	(21) EP20209308.4
Czazasty, John A.	(87) ES2016070157	(47) 01.11.2023
(31) 201213607584	03.11.2016	(22) 23.11.2020
(32) 07.09.2012	(22) 11.03.2016	(54) SYSTEM AND METHOD TO CONTROL THE QUALITY OF A REFLECTOR BODY OF A LAMP FOR MOTOR VEHICLES
(33) United States of America	(54) DEVICE FOR DETECTING WATER LEAKS IN PIPELINES AND LEAK DETECTION METHOD	(73) Marelli Automotive Lighting Italy S.p.A.
(51) G01L 19/00	(73) Aganova S.L.	Con Socio Unico
(11) EP3800456	(72) RAMIREZ GARCIA, Agustin	(72) PARONI, Sara
(21) EP20196999.5	(31) 201530574	SVETTINI, Marco
(47) 01.11.2023	(32) 28.04.2015	DEL LINZ, Mirco
(22) 18.09.2020	(33) Spain	FONTANOT, Tommaso
(54) PRESSURE DETECTION DEVICE	(51) G01M 3/36	(51) G01M 17/007
(73) Surpass Industry Co., Ltd.	(11) EP3887789	(11) EP3671174
(72) ABO, Kazuo	(21) EP19812992.6	(21) EP20151784.4
(31) 2019182197	(47) 01.11.2023	(47) 01.11.2023
(32) 02.10.2019	(87) EP2019083089	(22) 05.09.2014
(33) Japan	04.06.2020	(54) DYNAMIC OPERATOR BEHAVIOR ANALYZER
(51) G01L 19/06	(22) 29.11.2019	(73) Crown Equipment Corporation
G01L 13/00	(54) LEAK DETECTION	(72) MANCI, Lewis H.
G01L 13/02	(73) Heuft Systemtechnik GmbH	SWIFT, Philip W.
G01L 9/00	(72) HEUFT, Bernhard	WALTZ, Lucas B.
G01L 19/00	KURZ, Jürgen	(31) 201361874172 P
G01L 19/14	(31) 102018130325	(32) 05.09.2013
(11) EP3593105	(32) 29.11.2018	(33) United States of America
(21) EP18763385.4	(33) Germany	(51) G01N 1/22
(47) 01.11.2023	(51) G01M 5/00	G01N 1/28
(87) US2018021300	(11) EP4028742	B01D 53/04
13.09.2018	(21) EP20772378.4	B01J 20/06
(22) 07.03.2018	(47) 01.11.2023	B01J 20/28
(54) PRESSURE SENSOR HAVING OVERPRESSURE PROTECTION WITH REDUCED OUTPUT ERROR	(87) GB2020052163	B01J 20/32
(73) Honeywell International Inc.		B82Y 30/00
(72) HERSHEY, George		
DAUGERT, Richard D.		

B01J 20/20	18.06.2020	(54) OPTICAL DETECTOR SCATTER CAP ASSEMBLY HAVING A REMOVABLE SCATTER BAR AND METHODS OF USING THE SAME
G01N 33/00	(22) 12.12.2018	(73) Becton, Dickinson and Company
G01N 1/40	(54) PLANAR VIBRATORY DENSITOMETER, DENSITOMETER MEMBER, AND RELATED METHOD	(72) PETERSEN, Timothy Wayne
(11) EP3351920	(73) Micro Motion Inc.	KERSTEN, Veronica Lauren
(21) EP16845916.2	(72) MACDONALD, George Alexander	(31) 201562181092 P
(47) 01.11.2023	G01N 15/06	(32) 17.06.2015
(87) JP2016004053	G01N 15/14	(33) United States of America
23.03.2017	G01N 21/05	(51) G01N 17/02
(22) 06.09.2016	G01N 21/15	G01N 17/00
(54) CHEMICAL SUBSTANCE CONCENTRATOR AND CHEMICAL SUBSTANCE DETECTION DEVICE	G01N 21/53	(11) EP3940367
(73) Panasonic Holdings Corporation	G01N 21/63	(21) EP21178879.9
(72) NAKAO, Atsuo	G01N 21/65	(47) 01.11.2023
HANAI, Yosuke	G01N 21/85	(22) 10.06.2021
(31) 2015184559	G01N 3/44	(54) METHOD AND DEVICE FOR MEASURING THE SIZE OF ONE OR MORE DAMAGED PORTIONS
(32) 18.09.2015	G02B 7/02	(73) MAZDA MOTOR CORPORATION
(33) Japan	G01N 21/03	(72) Asada, Teruaki
(51) G01N 1/22	(11) EP3589933	Sasaki, Katsunobu
G08B 21/12	(21) EP18760299.0	Shigenaga, Tsutomu
(11) EP3245495	(47) 01.11.2023	(31) 2020107340
(21) EP16737947.8	(87) US2018020312	(32) 22.06.2020
(47) 01.11.2023	07.09.2018	(33) Japan
(87) US2016013558	(22) 28.02.2018	(51) G01N 21/03
21.07.2016	(54) FLUID FLOW CELL INCLUDING A SPHERICAL LENS	G01N 21/31
(22) 15.01.2016	(73) Marqmetrix Inc.	G01D 5/14
(54) MODULAR GAS MONITORING SYSTEM	(72) PROSKUROWSKI, Giora	(11) EP3828526
(73) Industrial Scientific Corporation	MARQUARDT, Brian James	(21) EP20179928.5
(72) BELSKI, Timothy, J.	(31) 201762606133 P	(47) 01.11.2023
BRENUSTUHL, Rodney, David	201762464994 P	(22) 25.08.2016
FUTRELL, Joshua, Allen	(32) 04.05.2017	(54) PATH LENGTH CALIBRATION SYSTEM AND METHOD
HUGHES, Charles, Dennis	28.02.2017	(73) Thermo Electron Scientific Instruments LLC
MIKULIN, Thomas, Michael	(33) United States of America	(72) ASHMEAD, Damian W.
SUWALSKI, Henry, J.	United States of America	HOWARD, James V.
TIMCO, Daniel, James	(51) G01N 15/12	KIM, Kevin K.
(31) 201562104194 P	C12Q 1/18	BRAASCH, Andrew Martin
(32) 16.01.2015	(11) EP3853585	(31) 201662306793 P
(33) United States of America	(21) EP19772813.2	201562220536 P
(51) G01N 3/08	(47) 01.11.2023	(32) 11.03.2016
F16P 3/00	(87) GB2019052593	18.09.2015
G01N 3/20	26.03.2020	(33) United States of America
G01N 3/02	(22) 16.09.2019	United States of America
(11) EP3948216	(54) IMPEDANCE FLOW CYTOMETRY METHODS	(51) G01N 21/15
(21) EP20721948.6	(73) University of Southampton	G01N 21/25
(47) 01.11.2023	THE UNIVERSITY OF WESTERN AUSTRALIA	G01N 21/31
(87) US2020025636	(72) MORGAN, Hywel	G01N 21/51
01.10.2020	SPENCER, Daniel	G01N 21/64
(22) 30.03.2020	INGLIS, Timothy John Jay	G01N 35/00
(54) COLLISION MITIGATION APPARATUS AND MATERIAL TESTING SYSTEMS HAVING COLLISION MITIGATION APPARATUS	PATON, Teagan	G01N 35/04
(73) Illinois Tool Works, Inc.	MULRONEY, Kieran	(11) EP3662258
(72) CONTI, Richard A.	(31) 201815122	(21) EP18840821.5
BURNWORTH, Jaron D.	(32) 17.09.2018	(47) 01.11.2023
(31) 202016832708	(33) United Kingdom	(87) US2018043755
201962825424 P	(51) G01N 15/14	07.02.2019
(32) 27.03.2020	G01N 21/17	(22) 25.07.2018
28.03.2019	G01N 33/48	(54) METHODS AND APPARATUS FOR IMAGING SPECIMENS AND/OR SAMPLE CONTAINERS
(33) United States of America	G01N 15/10	(73) Siemens Healthcare Diagnostics Inc.
United States of America	(11) EP3311135	(72) WISSMANN, Patrick
(51) G01N 9/00	(21) EP16812155.6	POLLACK, Benjamin S.
G01N 11/16	(47) 01.11.2023	(31) 201762538927 P
(11) EP3894828	(87) US2016036232	(32) 31.07.2017
(21) EP18836990.4	22.12.2016	
(47) 01.11.2023	(22) 07.06.2016	
(87) US2018065242		



(33) United States of America	(22) 15.01.2015	(32) 23.05.2019
(51) G01N 21/25	(54) METHOD AND APPARATUS FOR CLASSIFYING A SEED AS INBRED OR HYBRID	(33) Denmark
G01N 21/55		(51) G01N 21/88
G01N 21/84		G01N 21/95
G01N 21/31	(73) Dutch Terahertz Inspection Services B.V.	(11) EP3792619
G01N 21/958	(72) BARYCHEV, Andrei Mikhailovitch	(21) EP19196820.5
G01M 11/02	BELITSKAYA, Alena Vladimirovna	(47) 01.11.2023
(11) EP4165394	KHUDCHENKO, Andrey	(22) 11.09.2019
(21) EP21731477.2	Vyacheslavovich	(54) ASSEMBLY FOR DETECTING FAULTS ON A BODY OF A MOTOR VEHICLE
(47) 01.11.2023	DE GROOT, Cornelia Catharina	(73) Proov Station
(87) EP2021065406		(72) TISSANDIER, Gabriel
16.12.2021	(51) G01N 21/64	BERNARD, Cédric
(22) 09.06.2021	G01N 21/77	PERRET-MEYER, Alexandre
(54) MEASURING DEVICE AND METHOD FOR MEASURING A REFLECTIVITY OF COATED OPTICAL ELEMENTS	(11) EP3629011	
(73) Trioptics GmbH	(21) EP19209994.3	(51) G01N 21/95
(72) WERSCHNIK, Jan	(47) 01.11.2023	G01N 21/55
FRANZ, Stefan	(2) 15.09.2009	G01N 21/94
(31) 102020115544	(54) INTEGRATED OPTICAL DEVICE	(11) EP3786621
(32) 11.06.2020	(73) Pacific Biosciences Of California, Inc.	(21) EP19822795.1
(33) Germany	(72) ZHONG, Cheng, Frank	(47) 01.11.2023
(51) G01N 21/25	LUNDQUIST, Paul	(87) KR2019007473
G01N 21/78	FOQUET, Mathieu	26.12.2019
G01N 21/82	KORLACH, Jonas	(22) 21.06.2019
C12M 1/34	BAYANDORIAN, Hovig	(54) FOREIGN MATERIAL INSPECTION SYSTEM OF DISPLAY UNIT
C12M 1/32	(31) 192326 P	(73) LG Chem, Ltd.
C12M 1/00	(32) 16.09.2008	(72) LEE, Beom Seok
B01L 3/00	(33) United States of America	KIM, Chan Soo
(11) EP3556844	(51) G01N 21/66	JANG, Eung Jin
(21) EP16924151.0	G01N 21/67	BAEK, Sung Hyun
(47) 01.11.2023	G01N 21/68	LIM, Yu Jin
(87) JP2016087301	A61B 5/00	(31) 20180072249
21.06.2018	A61B 18/12	(32) 22.06.2018
(22) 14.12.2016	A61B 17/00	(33) Korea (Republic)
(54) CULTURE INSTRUMENT	A61B 18/00	(51) G01N 21/952
(73) Hitachi High-Tech Corporation	(11) EP3964822	A63B 29/02
(72) UEMATSU, Chihiro	(21) EP20194405.5	D07B 1/14
FUJITA, Hiroko	(47) 01.11.2023	B66B 7/12
MASUYA, Akira	(22) 03.09.2020	G01L 5/102
(51) G01N 21/3563	(54) DEVICE AND METHOD FOR TISSUE ANALYSIS	(11) EP3627144
G01N 21/359	(73) Erbe Elektromedizin GmbH	(21) EP19198148.9
G01N 33/02	(72) JÄGER, Jan	(47) 01.11.2023
G01N 21/84	DANIEL, Yannick	(22) 18.09.2019
(11) EP3679348	(51) G01N 21/67	(54) METHOD FOR CHECKING A ROPE
(21) EP18902391.4	G01J 3/443	(73) Commissariat à l'Énergie Atomique et aux Énergies Alternatives
(47) 01.11.2023	(11) EP3968007	(72) DANIELE, Norbert
(87) IL2018050715	(21) EP21196558.7	(31) 1858544
01.08.2019	(47) 01.11.2023	(32) 20.09.2018
(22) 02.07.2018	(22) 02.03.2016	(33) France
(54) SYSTEM AND METHOD FOR EVALUATING FRUITS AND VEGETABLES	(54) PLASMA-BASED OPTICAL EMISSION METHOD FOR DETECTING IMPURITIES IN A GAS	(51) G01N 23/09
(73) Clarifruit Ltd.	(73) Mécanique Analytique Inc.	G01T 3/06
(72) SCHWARTZER, Avi	(72) GAMACHE, Yves	(11) EP3721214
BOYARKSI, Ruby	(31) 201562129231 P	(21) EP18885680.1
(31) 201815878429	(32) 06.03.2015	(47) 01.11.2023
(32) 24.01.2018	(33) United States of America	(87) US2018064573
(33) United States of America	(51) G01N 21/71	13.06.2019
(51) G01N 21/3581	(11) EP3973275	(22) 07.12.2018
G06V 10/764	(21) EP20718827.7	(54) MODERATED NEUTRON SENSOR
G06V 10/14	(47) 01.11.2023	(73) Quaesta Instruments, LLC
G06F 18/2411	(87) IB2020053242	(72) ZREDA, Marek
(11) EP3245505	26.11.2020	HAMANN, Steven
(21) EP15702854.9	(22) 05.04.2020	(31) 201762596315 P
(47) 01.11.2023	(54) AUTO-FOCUSSING LIBS SYSTEM	(32) 08.12.2017
(87) NL2015050024	(73) FOSS Analytical A/S	(33) United States of America
21.07.2016	(72) ADÉN, Daniel	(51) G01N 23/223
	FADIL, Ahmed	G01B 15/02
	(31) PA201900627	

G01N 23/2209	(32) 13.09.2015	21.09.2017
(11) EP3951370	(33) Denmark	(22) 16.03.2017
(21) EP19922291.0	(51) G01N 27/327	(54) VOLTAMMETRIC ANALYSIS SYSTEM,
(47) 01.11.2023	G01N 33/487	A METHOD FOR VOLTAMMETRIC
(87) JP2019047933	G01N 33/02	ANALYSIS AND A COMPUTER
08.10.2020	(11) EP3347709	PROGRAM PRODUCT FOR USE WITH
(22) 06.12.2019	(21) EP16763544.0	THE VOLTAMMETRIC ANALYSIS
(54) X-RAY FLUORESCENCE	(47) 01.11.2023	SYSTEM
SPECTROMETER	(87) EP2016071544	(73) La Trobe University
(73) Rigaku Corporation	16.03.2017	(72) HOGAN, Conor
(72) KATAOKA, Yoshiyuki	(22) 13.09.2016	ELTON, Darrell
MORIYAMA, Takao	(54) HANDHELD APPARATUS,	LOKE, Seng
(31) 2019065572	DISPOSABLE TEST UNIT AND	(31) 2016901027
(32) 29.03.2019	HANDHELD TEST METER FOR	(32) 18.03.2016
(33) Japan	TESTING A SAMPLE OF PREPARED	(33) Australia
(51) G01N 25/00	FOOD FOR ALLERGENS AND/OR	(51) G01N 27/447
G01N 33/22	FOOD INTOLERANCE INGREDIENTS	G01N 30/74
G01N 25/18	(73) Pro-ino Development APS	G01N 21/45
B67D 7/32	(72) HANSEN, Jens	G01N 21/51
B67D 7/04	(31) 201500540	G01N 21/53
B67D 7/68	(32) 13.09.2015	G01N 30/60
B67D 7/08	(33) Denmark	G01N 30/88
(11) EP3676880	(51) G01N 27/333	G01N 15/14
(21) EP18850412.0	A61B 5/145	G01N 15/02
(47) 01.11.2023	G01N 33/74	G01N 15/10
(87) US2018048551	B01D 61/38	(11) EP3347711
07.03.2019	A61B 5/1468	(21) EP15766047.3
(22) 29.08.2018	C12Q 1/00	(47) 01.11.2023
(54) FUEL DELIVERY SYSTEM HAVING	(11) EP3788355	(87) EP2015001804
CORROSIVE DETECTION ASSEMBLY	(21) EP19726532.5	16.03.2017
(73) Veeder-Root Company	(47) 01.11.2023	(22) 07.09.2015
(72) BEVINS, James T.	(87) US2019030599	(54) METHOD AND APPARATUS FOR
KUNZ, Donald	07.11.2019	DETECTING PARTICLES, LIKE
HUNTER, Lawrence	(22) 03.05.2019	BIOLOGICAL MACROMOLECULES OR
CORNETT, Kenneth D.	(54) MEMBRANE ENHANCED SENSORS	NANOPARTICLES
BAGLIONI, Adriano	AND FABRICATION METHODS	(73) Max-Planck-Gesellschaft zur Förderung
BERRIO, Gaston	(73) University of Cincinnati	der Wissenschaften e.V.
(31) 201762551567 P	(72) HEIKENFELD, Jason, Charles	(72) SANDOGHDAR, Vahid
(32) 29.08.2017	YUAN, Yuchan	PILIARIK, Marek
(33) United States of America	DEBROSSE, Madeleine	KÖNIG, Katharina
(51) G01N 27/18	BROTHERS, Michael, Charles	(51) G01N 27/72
(11) EP3901623	(31) 201862666921 P	G01N 27/90
(21) EP19901184.2	(32) 04.05.2018	B07C 5/344
(47) 01.11.2023	(33) United States of America	(11) EP3098600
(87) JP2019037256	(51) G01N 27/406	(21) EP14878820.1
25.06.2020	G01N 27/407	(47) 01.11.2023
(22) 24.09.2019	(11) EP4083616	(87) JP2014074845
(54) GAS SENSOR	(21) EP22162775.5	23.07.2015
(73) TDK Corporation	(47) 01.11.2023	(22) 19.09.2014
(72) TANABE Kei	(22) 17.03.2022	(54) SURFACE PROPERTY INSPECTION
(31) 2018235644	(54) GAS SENSOR AND METHOD FOR	METHOD
(32) 17.12.2018	MANUFACTURING THE GAS SENSOR	(73) Sintokogio, Ltd.
(33) Japan	(73) Niterra Co., Ltd.	(72) MAKINO, Yoshiyasu
(51) G01N 27/327	(72) Liu, Sunchao	OTA, Kazuhiro
G01N 33/487	Oba, Takehiro	KAGA, Hideaki
(11) EP3347710	Masuda, Kenji	(31) 2014024198
(21) EP16766911.8	(31) 2021210400	2014007788
(47) 01.11.2023	2021075817	(32) 12.02.2014
(87) EP2016071547	(32) 24.12.2021	20.01.2014
16.03.2017	(32) 28.04.2021	(33) Japan
(22) 13.09.2016	(33) Japan	Japan
(54) USE OF HANDELD APPARATUS,	(51) G01N 27/416	(51) G01N 29/02
DISPOSABLE TEST UNIT AND	G01N 27/327	G01N 29/036
HANDHELD TEST METER FOR	(11) EP3430386	(11) EP3511709
TESTING A SAMPLE OF BODY FLUID	(21) EP17765576.8	(21) EP19151288.8
(73) Pro-ino Development APS	(47) 01.11.2023	(47) 01.11.2023
(72) HANSEN, Jens	(47) 01.11.2023	(22) 10.01.2019
(31) 201500541	(87) AU2017050232	

(54) ACOUSTIC WAVE SENSORS AND METHODS OF SENSING A GAS-PHASE ANALYTE	(54) Ultrasonic array transducer holder and guide for flanges having cutouts and asymmetric geometry	G01N 33/483 G01N 29/02 G01N 29/06 G01N 29/24 G01N 29/44 G01N 33/487
(73) Rohm and Haas Electronic Materials LLC Rohm And Haas Electronic Materials Korea Ltd.	(73) The Boeing Company (72) Anderson, Patrick L. Fetzer, Barry A.	(11) EP3289351 (21) EP16789347.8 (47) 01.11.2023 (87) DK2016050110 10.11.2016
(72) GILMORE, Christopher RACHFORD, Aaron A. YOON, Hee Jae MURPHY, Jaclyn TREFONAS III, Peter WANG, Deyan	(31) 201213601612 (32) 31.08.2012 (33) United States of America (51) G01N 29/26 B06B 1/06 G01S 15/89 G01N 29/24 G01N 29/32	(22) 28.04.2016 (54) DEVICE WITH A MICRO OR NANO MECHANICAL BASED SENSOR FOR DETECTION OF DECOMPOSITION MOLECULES LIKE BIOGENIC AMINES (ASSOCIATED WITH FOOD SPOILAGE AND CERTAIN HUMAN DISEASES AMONG OTHERS) AND SUBSEQUENT COMPUTATION FOR DETERMINATION OF FRESHNESS AND EXPIRATION DATE
(31) 201862617324 P (32) 15.01.2018 (33) United States of America	(11) EP4022298 (21) EP20765376.7 (47) 01.11.2023 (87) NL2020050529 04.03.2021 (22) 27.08.2020 (54) OPTIMIZATION OF AN ACOUSTIC MEMBRANE ARRAY	(63) AmiNIC ApS (72) HVAM, Jeanette ROBERTSON, Elizabeth HAMMER, Runi (31) 201500266 (32) 01.05.2015 (33) Denmark
(51) G01N 29/024 G01N 29/032 G01N 29/07 G01N 29/11 G01N 29/30 G01N 29/46 G01N 29/44	(31) 19194134 (32) 28.08.2019 (33) European Patent Office (EPO) (51) G01N 33/00 G01N 1/22 H01J 49/04 G01N 27/62 F26B 5/10	(51) G01N 33/18 C02F 1/00 G01N 21/64 G01N 21/17 (11) EP3355055 (21) EP18153173.2 (47) 01.11.2023 (22) 24.01.2018 (54) METHOD FOR DETECTING AND CONTROLLING THE AMOUNT OF CATIONIC SPECIES IN A WATER STREAM
(11) EP3325960 (21) EP16734578.4 (47) 01.11.2023 (87) EP2016063863 26.01.2017 (22) 16.06.2016 (54) DEVICE FOR EXAMINING BODY TISSUE USING ACOUSTIC SPECTROSCOPY	(73) Nederlandse Organisatie voor toegepast-natuurwetenschappelijk Onderzoek TNO (72) AKKERMAN, Hylke Broer VAN NEER, Paul Louis Maria Joseph VOLKER, Arno Willem Frederik	(51) G01N 33/18 C02F 1/00 G01N 21/64 G01N 21/17 (11) EP3355055 (21) EP18153173.2 (47) 01.11.2023 (22) 24.01.2018 (54) METHOD FOR DETECTING AND CONTROLLING THE AMOUNT OF CATIONIC SPECIES IN A WATER STREAM
(73) Sonovum GmbH (72) WROBEL, Mirosław (31) 102015118226 15177198 (32) 26.10.2015 17.07.2015 (33) Germany European Patent Office (EPO)	(31) 19194134 (32) 28.08.2019 (33) European Patent Office (EPO) (51) G01N 33/00 G01N 1/22 H01J 49/04 G01N 27/62 F26B 5/10	(51) G01N 33/18 C02F 1/00 G01N 21/64 G01N 21/17 (11) EP3355055 (21) EP18153173.2 (47) 01.11.2023 (22) 24.01.2018 (54) METHOD FOR DETECTING AND CONTROLLING THE AMOUNT OF CATIONIC SPECIES IN A WATER STREAM
(51) G01N 29/04 G01N 29/07 G01N 29/265 G01N 29/30 G01N 29/44 F01D 5/28 F01D 5/30	(31) 19194134 (32) 28.08.2019 (33) European Patent Office (EPO) (51) G01N 33/00 G01N 1/22 H01J 49/04 G01N 27/62 F26B 5/10	(51) G01N 33/18 C02F 1/00 G01N 21/64 G01N 21/17 (11) EP3355055 (21) EP18153173.2 (47) 01.11.2023 (22) 24.01.2018 (54) METHOD FOR DETECTING AND CONTROLLING THE AMOUNT OF CATIONIC SPECIES IN A WATER STREAM
(11) EP3803371 (21) EP19726942.6 (47) 01.11.2023 (87) EP2019063111 05.12.2019 (22) 21.05.2019 (54) COMPOSITE FAN BLADE ROOT	(73) Atonarp Inc. (72) MURTHY, Prakash Sreedhar BOUMSELLEK, Said	(51) G01N 33/18 C02F 1/00 G01N 21/64 G01N 21/17 (11) EP3355055 (21) EP18153173.2 (47) 01.11.2023 (22) 24.01.2018 (54) METHOD FOR DETECTING AND CONTROLLING THE AMOUNT OF CATIONIC SPECIES IN A WATER STREAM
(73) Rolls-Royce plc (72) GALL, Christopher NEWNHAM, Anthony (31) 201808939 (32) 31.05.2018 (33) United Kingdom	(31) 2016175922 (32) 08.09.2016 (33) Japan (51) G01N 33/00 G01N 27/16 E21F 17/18 G08B 21/18	(51) G01N 33/487 B01L 3/00 (11) EP3405786 (21) EP17702317.3 (47) 01.11.2023 (87) EP2017051221 27.07.2017 (22) 20.01.2017 (54) MOLDED FLOW CHANNEL
(51) G01N 29/22 G01N 29/265 G01N 29/06	(11) EP4043873 (21) EP22155727.5 (47) 01.11.2023 (22) 08.02.2022 (54) GAS DETECTION APPARATUS AND GAS DETECTION METHOD USING DETECTOR AND MODULATOR	(73) F. Hoffmann-La Roche AG (72) YUAN, Robert A. WÓJTOWICZ, Janusz B. LIU, Edward STOTHERS, Kenneth WALLGREN, Markus (31) 201662286826 P 201662281662 P 201662281663 P (32) 25.01.2016 21.01.2016 21.01.2016
(11) EP2703807 (21) EP13182108.4 (47) 01.11.2023 (22) 28.08.2013	(73) Dräger Safety AG & Co. KGaA (72) Baesler, Malte Balhorn, Sandra Osswald, Jürgen (31) 102021103563 (32) 16.02.2021 (33) Germany (51) G01N 33/12	(31) 201662286826 P 201662281662 P 201662281663 P (32) 25.01.2016 21.01.2016 21.01.2016

(33) United States of America United States of America United States of America	FOR THE ELIMINATION OF AIR BUBBLES IN THE PRODUCTION OF AN ENGINEERED VASCULAR TISSUE	(73) Zoetis Services LLC (72) CUESICO, Cristina WALKER, Jeremy MEHRA, Rajesh K. ARON, Kenneth P. BLEILE, Dennis M. (31) 201161562302 P (32) 21.11.2011 (33) United States of America
(51) G01N 33/487 C12Q 1/68 B82Y 15/00 H01L 29/16 G01N 27/414 (11) EP3540436 (21) EP19172912.8 (47) 01.11.2023 (22) 12.09.2008 (54) HIGH-RESOLUTION MOLECULAR SENSOR (73) President And Fellows Of Harvard College (72) Xiong, Qihua Xie, Ping Fang, Ying Lieber, Charles M. (31) 993388 P (32) 12.09.2007 (33) United States of America	(73) 1Lab SA (72) TRESOLDI, Claudia VANTAGGIATO, Cristina (31) 201700093925 (32) 16.08.2017 (33) Italy (51) G01N 33/50 C40B 30/04 A61K 39/00 C40B 40/02 G01N 33/574 G01N 33/68 C12Q 1/68886 A61K 39/39 C40B 40/10 G16B 35/20 (11) EP3580561 (21) EP18707815.9 (47) 01.11.2023 (87) US2018017849 16.08.2018 (22) 12.02.2018 (54) HLA-BASED METHODS AND COMPOSITIONS AND USES THEREOF (73) BioNTech US Inc. (72) ABELIN, Jennifer, Grace OSLUND, Rob, Carl HACOHEN, Nir BARTHELME, Dominik ROONEY, Michael (31) 201762461162 P 201762457978 P (32) 20.02.2017 12.02.2017 (33) United States of America United States of America	(51) G01N 33/564 (11) EP3973293 (21) EP20726132.2 (47) 01.11.2023 (87) EP2020063886 26.11.2020 (22) 19.05.2020 (54) USE OF PROTEINS PD-1 AND CD38 AS MARKERS OF AN ACTIVE AUTO- IMMUNE PATHOLOGY (73) Nantes Université Centre Hospitalier Universitaire De Nantes INSERM - Institut National de la Santé et de la Recherche Médicale (72) RENAND, Amédée CONCHON, Sophie GOURNAY, Jérôme AUBLE, Héléne HABES, Sarah (31) 1905358 (32) 22.05.2019 (33) France
(51) G01N 33/50 B01L 3/00 (11) EP3812766 (21) EP20197833.5 (47) 01.11.2023 (22) 05.09.2017 (54) MEDICAL ANALYSIS DEVICE AND CELL ANALYSIS METHOD (73) Sumitomo Rubber Industries, Ltd. Yamagata University (72) MINAGAWA, Yasuhisa TANAKA, Masaru HOSHIBA, Takashi SHIBUYA, Tomokazu (31) 2016191616 (32) 29.09.2016 (33) Japan	(51) G01N 33/50 C07K 16/08 (11) EP3408671 (21) EP17703606.8 (47) 01.11.2023 (87) US2017014974 03.08.2017 (22) 25.01.2017 (54) METHODS FOR ASSAYING T-CELL DEPENDENT BISPECIFIC ANTIBODIES (73) F. Hoffmann-La Roche AG (72) LEE, Ho, Young JIANG, Guoying WONG, Pin, Yee CAREY, Kendall (31) 201662286862 P (32) 25.01.2016 (33) United States of America	(51) G01N 33/574 (11) EP3832309 (21) EP19844633.8 (47) 01.11.2023 (87) KR2019009139 06.02.2020 (22) 24.07.2019 (54) COMPOSITION FOR DIAGNOSIS OF BONE METASTASIS OF CANCER AND KIT COMPRISING SAME (73) Cytogen, Inc. (72) CHO, Sun Wook (31) 20180090914 (32) 03.08.2018 (33) Korea (Republic)
(51) G01N 33/50 C12N 5/071 (11) EP3669190 (21) EP18765185.6 (47) 01.11.2023 (87) IB2018055944 21.02.2019 (22) 07.08.2018 (54) A RELIABLE AND REPRODUCIBLE INDUSTRIALISATION PROCESS	(51) G01N 33/543 (11) EP4071475 (21) EP22167499.7 (47) 01.11.2023 (22) 08.04.2022 (54) ASSAY DEVICE (73) Abbott Rapid Diagnostics International Unlimited Company (72) CHEN, Jet GOU, Larkin WANG, Jianfeng GAO, Amasong HU, Hyde (31) PCT/CN2021/085947 (32) 08.04.2021 (33) World Intellectual Property Office (WIPO) (51) G01N 33/543 G01N 33/53 G01N 33/58 G01N 33/569 G01N 33/68 G01N 33/558 (11) EP3489685 (21) EP18196372.9 (47) 01.11.2023 (22) 20.11.2012 (54) SIGNAL AMPLIFICATION IN LATERAL FLOW AND RELATED IMMUNOASSAYS	(51) G01N 33/574 G01N 33/68 (11) EP4031872 (21) EP20768073.7 (47) 01.11.2023 (87) EP2020075666 25.03.2021 (22) 14.09.2020 (54) IMMUNOTHERAPY MARKERS (73) VITO NV Universiteit Antwerpen (72) BERGHMANS, Eline GEERT, Baggerman EVELIEN, Smits PATRICK, Pauwels (31) 19197602 (32) 16.09.2019 (33) European Patent Office (EPO) (51) G01N 33/68 (11) EP3663764 (21) EP20153859.2

(47) 01.11.2023	(72) VIOLA, Francesco	(31) 2019129018
(22) 08.04.2015	WALKER, William F.	(32) 11.07.2019
(54) PROTEIN BIOMARKERS FOR	(31) 201161443084 P	(33) Japan
ACUTE, SUBACUTE AND CHRONIC	(32) 15.02.2011	(51) G01P 15/097
TRAUMATIC INJURIES OF THE	(33) United States of America	(11) EP3798642
CENTRAL NERVOUS SYSTEM	(51) G01N 33/92	(21) EP20196367.5
(73) University of Florida Research	G01N 33/533	(47) 01.11.2023
Foundation, Inc.	G01N 33/52	(22) 16.09.2020
The Research Foundation for the State	G01N 33/68	(54) CORIOLIS VIBRATORY
University of New York	(11) EP3077827	ACCELEROMETER SYSTEM
(72) WANG, Kevin Ka-Wang	(21) EP14866898.1	(73) Northrop Grumman Systems Corporation
YANG, Zhihui	(47) 01.11.2023	(72) Stewart, Robert E.
MOGHIEB, Ahmed	(87) US2014068240	(31) 201916584332
RUBENSTEIN, Richard	11.06.2015	(32) 26.09.2019
(31) 201461976733 P	(22) 02.12.2014	(33) United States of America
(32) 08.04.2014	(54) DETERMINATION OF THE UNBOUND	(51) G01P 15/125
(33) United States of America	FREE FATTY ACID PROFILES IN	G01P 21/00
(51) G01N 33/68	BIOLOGICAL AND INDUSTRIAL	(11) EP3387449
(11) EP3422006	SPECIMENS	(21) EP16813141.5
(21) EP18157264.5	(73) Kleinfeld, Alan M.	(47) 01.11.2023
(47) 01.11.2023	(72) HUBER, Andrew	(87) IB2016057480
(22) 21.12.2010	(31) 201461947865 P	15.06.2017
(54) DETECTION OF RISK OF PRE-	201361911409 P	(22) 09.12.2016
ECLAMPSIA	(32) 04.03.2014	(54) ACCELEROMETER COMMON MODE
(73) University College Cork, National	03.12.2013	SELF-TEST
University of Ireland, Cork	(33) United States of America	(73) Panasonic Holdings Corporation
(72) KENNY, Louise	United States of America	(72) CORONATO, Luca
NEWTON BAKER, Philip	(51) G01N 35/00	GAFFORELLI, Giacomo
BROADHURST, David	(11) EP3460483	GIAMBASTIANI, Adolfo
(31) 288465 P	(21) EP17193173.6	MAZZARELLA, Federico
(32) 21.12.2009	(47) 01.11.2023	MUSAZZI, Massimiliano
(33) United States of America	(22) 26.09.2017	FOLZ, Michele
(51) G01N 33/68	(54) CALIBRATION METHOD	(31) 201615370385
G01N 33/543	(73) F. Hoffmann-La Roche AG	201562265906 P
G01N 33/573	(72) KLINGAUF, Mirko	(32) 06.12.2016
(11) EP3800474	(51) G01N 35/00	10.12.2015
(21) EP20197258.5	B25J 15/02	(33) United States of America
(47) 01.11.2023	B25J 15/08	United States of America
(22) 30.03.2012	B65G 47/90	(51) G01R 15/04
(54) DETECTION OF MULTIPLE ANALYTES	F16B 2/12	G01R 1/18
(73) TGR BIOSCIENCES PTY LTD	B25J 9/16	H02G 5/06
(72) SHEEHAN, Antony James	B25J 13/08	(11) EP2696206
OSMOND, Ronald Ian William	B25J 15/10	(21) EP12005696.5
CROUCH, Michael Francis	(11) EP3798639	(47) 01.11.2023
(31) 201161523687 P	(21) EP20197878.0	(22) 06.08.2012
201161470395 P	(47) 01.11.2023	(54) Medium or high voltage arrangement with
201161470359 P	(22) 23.09.2020	cable connection terminal
(32) 15.08.2011	(54) GRIPPER AND METHOD FOR	(73) ABB Schweiz AG
31.03.2011	AUTOMATED HANDLING OF SAMPLE	(72) Podzemny, Jaromir
31.03.2011	TUBES	Javora, Radek
(33) United States of America	(73) Scinomix, Inc.	(51) G01R 19/00
United States of America	(72) King, Edward	G01R 19/10
United States of America	Malterer, Nigel	H02H 1/06
(51) G01N 33/86	Chrisco, Michael	H02H 3/33
G01N 29/032	(31) 201916579927	H02H 3/347
G01N 29/02	(32) 24.09.2019	H02H 9/04
G01N 33/49	(33) United States of America	(11) EP3594699
G01N 29/024	(51) G01N 35/10	(21) EP19177898.4
(11) EP2676143	G01N 35/00	(47) 01.11.2023
(21) EP12865373.0	(11) EP3786644	(22) 03.06.2019
(47) 01.11.2023	(21) EP20182310.1	(54) DIFFERENTIAL PROTECTION DEVICE
(87) US2012025278	(47) 01.11.2023	(73) HAGER-ELECTRO SAS
18.07.2013	(22) 25.06.2020	(72) DOLISY, Bastien
(22) 15.02.2012	(54) AUTOMATED ANALYZER AND	JOYEUX, Patrice
(54) CHARACTERIZATION OF BLOOD	METHOD OF CONTROLLING THE	(31) 1856437
HEMOSTASIS AND OXYGEN	AUTOMATED ANALYZER	(32) 12.07.2018
TRANSPORT PARAMETERS	(73) JEOL Ltd.	(33) France
(73) Hemosonics, Llc	(72) ASAKURA, Makoto	

(51) G01R 19/165 G01R 15/18 H05B 47/25	(31) 2018180874 (32) 26.09.2018 (33) Japan	(54) POWER DEVICE MONITORING SYSTEM AND MONITORING METHOD (73) LS Electric Co., Ltd.
(11) EP4133289 (21) EP21715580.3 (47) 01.11.2023 (87) EP2021058042 14.10.2021 (22) 26.03.2021	(51) G01R 29/08 (11) EP3809145 (21) EP20195900.4 (47) 01.11.2023 (22) 14.09.2020	(72) KANG, Sunghoo (31) 20190042103 (32) 10.04.2019 (33) Korea (Republic)
(54) ENERGY METERING AND SURGE CURRENT DETECTION (73) Signify Holding B.V. (72) MISDOM, Johannes, Adrianus, Cornelis (31) 20169051 (32) 09.04.2020 (33) European Patent Office (EPO)	(54) SYSTEM FOR ANALYZING ELECTROMAGNETIC RADIATION (73) Rohde & Schwarz GmbH & Co. KG (72) Ruster, Thomas, Dr. (31) 201916653423 (32) 15.10.2019 (33) United States of America	(51) G01R 31/34 (11) EP3652551 (21) EP18755948.9 (47) 01.11.2023 (87) US2018041805 17.01.2019 (22) 12.07.2018
(51) G01R 19/30 (11) EP3825702 (21) EP20206390.5 (47) 01.11.2023 (22) 09.11.2020	(51) G01R 31/12 (11) EP4105667 (21) EP22176813.8 (47) 01.11.2023 (22) 01.06.2022	(54) TECHNIQUE TO DETECT MOTOR LEAKAGE FLUX ANOMALIES (73) ITT Manufacturing Enterprises LLC (72) WILLIAMS, Dean Patrick (31) 201715648855 (32) 13.07.2017 (33) United States of America
(54) SYSTEMS AND METHODS FOR DERIVING INFORMATION FROM SAMPLED DATA ON A HIGH SPEED DATA ACQUISITION DEVICE (73) Schneider Electric USA, Inc. (72) McPhalen, Erin C. (31) 201916721100 201962937411 P (32) 19.12.2019 19.11.2019 (33) United States of America United States of America	(54) METHOD FOR MEASURING THE PARTIAL DISCHARGE OF AT LEAST ONE MEDIUM VOLTAGE CABLE OF A MEDIUM VOLTAGE NETWORK (73) Westnetz GmbH (72) Scholten-Reintjes, Matthias Bleier, Alina Lührsen, Helmut Temmen, Lucas Bernhard (31) 102021114223 (32) 01.06.2021 (33) Germany	(51) G01R 31/34 H02J 9/06 G01R 31/42 (11) EP3968039 (21) EP20801435.7 (47) 01.11.2023 (87) JP2020005451 12.11.2020 (22) 13.02.2020 (54) LOAD TESTING DEVICE (73) Tatsumi Ryoki Co., Ltd (72) KONDO, Toyoshi (31) 2019226234 2019087900 (32) 16.12.2019 07.05.2019 (33) Japan Japan
(51) G01R 22/06 G01R 31/40 G01R 22/10 G01R 21/133 (11) EP3867653 (21) EP19779761.6 (47) 01.11.2023 (87) EP2019074671 23.04.2020 (22) 16.09.2019	(51) G01R 31/12 G01R 27/26 (11) EP3168630 (21) EP14889786.1 (47) 01.11.2023 (87) KR2014007965 14.01.2016 (22) 27.08.2014	(51) G01R 31/36 H01M 10/42 H01M 10/44 H01M 10/48 H02J 7/00 G01R 31/389 G01R 31/392 (11) EP3754351 (21) EP19755245.8 (47) 01.11.2023 (87) JP2019001009 22.08.2019 (22) 16.01.2019
(54) CHARGING SYSTEM WITH AN ELECTRIC METER AND A CHARGING CABLE (73) Isabellenhütte Heusler GmbH & Co. KG (72) LEPPER, Andreas POLLMANN, Michael (31) 102018125598 (32) 16.10.2018 (33) Germany	(54) APPARATUS FOR DIAGNOSING CONDITION AND MEASURING REMAINING LIFE OF POWER CABLE BY USING VERY LOW FREQUENCY TAN DELTA MEASURED DATA, AND METHOD THEREFOR (73) Korea Electric Power Corporation Mokpo National Maritime University Industry - Academic Cooperation Foundation (72) KIM, Sung-Min KIM, Dongsub JEON, Si Sik KIM, Byung-Suk IM, Jangsub (31) 20140085889 (32) 09.07.2014 (33) Korea (Republic)	(54) DEVICE FOR DETERMINING ABNORMALITY IN SECONDARY BATTERY (73) DENSO CORPORATION (72) YAMAMOTO, Nobuo YAMADA, Ichiro YOSHIDA, Shuhei NAKAMURA, Masaya YAMAKI, Takehiko SUZUKI, Hiroyasu HAYASHI, Katsuki (31) 2018024388 (32) 14.02.2018 (33) Japan
(51) G01R 27/26 G01N 27/00 G01R 29/12 (11) EP3859355 (21) EP19865218.2 (47) 01.11.2023 (87) JP2019036732 02.04.2020 (22) 19.09.2019	(51) G01R 31/26 G01R 19/165 G01R 19/32 (11) EP3955013 (21) EP20786853.0 (47) 01.11.2023 (87) KR2020004038 15.10.2020 (22) 25.03.2020	(51) G01R 31/367 G01R 31/3828
(54) MEASUREMENT DEVICE AND MEASUREMENT METHOD (73) Yokogawa Electric Corporation Hosei University (72) KATSUYAMA, Jun MATSUMOTO, Yoshinori SHINAGAWA, Mitsuru		

G01R 31/3842	(22) 09.05.2020	G01R 33/3815
G01R 31/387	(54) DIAGNOSIS METHOD FOR	H01F 6/04
G01R 31/388	DISTINGUISHING MICRO-SHORT-	(11) EP3783345
G01R 31/374	CIRCUIT FAULT OF BATTERY FROM	(21) EP19867276.8
(11) EP3647802	SMALL-CAPACITY FAULT OF BATTERY	(47) 01.11.2023
(21) EP17915535.3	(73) University of Shanghai for Science and	(87) JP2019038234
(47) 01.11.2023	Technology	02.04.2020
(87) JP2017023914	(72) ZHENG, Yuejiu	(22) 27.09.2019
03.01.2019	LUO, Qi	(54) MAGNET UNIT FOR NUCLEAR
(22) 29.06.2017	ZHOU, Long	MAGNETIC RESONANCE AND
(54) REMAINING BATTERY ENERGY	(31) 202010358554	MAGNETIC FIELD GENERATING
ESTIMATION DEVICE, REMAINING	(32) 29.04.2020	DEVICE FOR NUCLEAR MAGNETIC
BATTERY ENERGY ESTIMATION	(33) China	RESONANCE
METHOD, AND PROGRAM	(51) G01R 31/42	(73) NIPPON STEEL CORPORATION
(73) Kabushiki Kaisha Toshiba	H02H 3/20	(72) MORITA, Mitsuru
Toshiba Energy Systems & Solutions	H02H 3/24	(31) 2018184892
Corporation	H02H 3/26	(32) 28.09.2018
(72) TOHARA, Masahiro	H02H 3/46	(33) Japan
KIUCHI, Masako	H02H 7/125	(51) G01R 33/44
KAWACHI, Shunsuke	(11) EP3035069	G01R 33/48
MIZUTANI, Mami	(21) EP15199923.2	G01R 33/565
KOBAYASHI, Takenori	(47) 01.11.2023	A61B 5/00
(51) G01R 31/382	(22) 14.12.2015	(11) EP3446135
G01R 31/385	(54) TRACKER FOR ELECTRIC MACHINE	(21) EP17786801.5
G01R 31/392	(73) Schneider Electric Industries SAS	(47) 01.11.2023
(11) EP3736587	(72) PERRIN, Alain	(87) US2017029155
(21) EP20173525.5	LEPRETTRE, Benoit	26.10.2017
(47) 01.11.2023	CONRATH, Christian	(22) 24.04.2017
(22) 07.05.2020	(31) 1462539	(54) SPECTRAL BIN UN-ALIASING FOR
(54) A METHOD AND A SYSTEM FOR	(32) 16.12.2014	REDUCED FIELD-OF-VIEW MAGNETIC
ESTIMATION OF REMAINING USEFUL	(33) France	RESONANCE IMAGING NEAR METAL
LIFE IN LITHIUM BASED BATTERIES	(51) G01R 31/52	IMPLANTS
(73) Tata Consultancy Services Limited	H02H 1/00	(73) Medical College of Wisconsin
(72) BADWEKAR, Kaustubh Rajendra	(11) EP3872511	(72) KOCH, Kevin, Matthew
DINGARI, Naga Neehar	(21) EP21156818.3	NENCKA, Andrew Scott
MYNAM, Mahesh	(47) 01.11.2023	(31) 201662326453 P
RAI, Beena	(22) 12.02.2021	(32) 22.04.2016
(31) 201921018433	(54) A NEW TYPE OF ARC FAULT	(33) United States of America
(32) 08.05.2019	DETECTION DEVICE (AFDD) AND ITS	(51) G01R 33/50
(33) India	DETECTION METHOD	G01R 33/54
(51) G01R 31/389	(73) Siemens Aktiengesellschaft	G01R 33/56
H01M 10/42	(72) Du, Feng	G01R 33/48
H01M 10/48	Yi, Xing	G01R 33/563
(11) EP3639048	Chen, Wei Gang	(11) EP3179263
(21) EP18832057.6	Fu, Ling	(21) EP16203155.3
(47) 01.11.2023	(31) 202010131412	(47) 01.11.2023
(87) CA2018050858	(32) 28.02.2020	(22) 09.12.2016
17.01.2019	(33) China	(54) DICTIONARY-FREE MAGNETIC
(22) 13.07.2018	(51) G01R 33/36	RESONANCE PARAMETER
(54) CIRCUIT AND METHOD FOR	(11) EP3775952	INFERENCE FOR FINGERPRINTING
ELECTROCHEMICAL IMPEDANCE	(21) EP19712208.8	RECONSTRUCTION
SPECTROSCOPY	(47) 01.11.2023	(73) Siemens Healthcare GmbH
(73) The Governing Council of the University	(87) EP2019057418	(72) CHEN, Xiao
of Toronto	03.10.2019	MAILHE, Boris
eLeapPower Ltd.	(22) 25.03.2019	Nadar, Mariappan
(72) GONG, Zhe	(54) RADIO FREQUENCY ANTENNA	WANG, Qiu
TRESCASES, Olivier	ELEMENT WITH AN OPTICAL BACK-	(31) 201514965765
(31) 201762532172 P	END	(32) 10.12.2015
(32) 13.07.2017	(73) Koninklijke Philips N.V.	(33) United States of America
(33) United States of America	(72) LIPS, Oliver	(51) G01S 5/02
(51) G01R 31/392	VAN DER MARK, Martinus, Bernardus	G01S 13/75
G01R 31/396	(31) 18164927	G01S 13/82
G01R 31/367	(32) 29.03.2018	G06K 7/10
(11) EP3933422	(33) European Patent Office (EPO)	G08B 13/24
(21) EP20891420.0	(51) G01R 33/38	(11) EP3571521
(47) 01.11.2023	G01N 24/00	(21) EP18741440.4
(87) CN2020089321	H01F 6/00	(47) 01.11.2023
04.11.2021	H01F 5/00	(87) US2018014050

26.07.2018	(51) G01S 5/14	G01S 7/497
(22) 17.01.2018	G01S 5/02	G01S 13/86
(54) SYSTEM AND METHOD FOR	(11) EP3797312	G01S 17/86
DETECTING MOVEMENT OF A	(21) EP19726777.6	G01S 13/931
MOBILE ASSET AND CONTROLLING	(47) 01.11.2023	G01S 17/931
OPERATIONS OF THE ASSET BASED	(87) SE2019050460	G01S 13/87
ON ITS MOVEMENT	28.11.2019	G01S 17/87
(73) Booz Allen Hamilton Inc.	(22) 20.05.2019	G06V 20/56
(72) SWARTZ, John C.	(54) SYSTEM FOR POSITIONING ANIMAL	G06V 20/58
HEFNER, Anthony	TAGS, METHOD OF DETERMINING	G01S 7/00
RICHARDS, Charles W., IV	A LOCATION OF AN INTERMEDIATE	G01S 17/02
MYERS, Gary Jason	BASE STATION	(11) EP3827277
WELSH, Matthias	(73) DeLaval Holding AB	(21) EP19737704.7
(31) 201715824659	(72) FLORCZAK, Keld	(47) 01.11.2023
201715408055	(31) 1850609	(87) EP2019067991
(32) 28.11.2017	(32) 23.05.2018	30.01.2020
17.01.2017	(33) Sweden	(22) 04.07.2019
(33) United States of America	(51) G01S 7/02	(54) METHOD, SYSTEM AND ELECTRONIC
United States of America	G01S 13/34	COMPUTING DEVICE FOR CHECKING
(51) G01S 5/02	G01S 13/93	SENSOR DEVICES OF VEHICLES, IN
G08B 25/08	G01S 13/931	PARTICULAR OF MOTOR VEHICLES
G08B 25/10	G01S 13/87	(73) AUDI AG
G08B 29/26	H04B 1/69	(72) BRUNS, Erich
G08B 13/191	H04B 17/318	VENATOR, Moritz
(11) EP3827274	G01S 7/00	(31) 102018212249
(21) EP19737783.1	H04K 1/00	(32) 24.07.2018
(47) 01.11.2023	H04K 3/00	(33) Germany
(87) EP2019069092	H04K 1/08	(51) G01S 7/41
30.01.2020	(11) EP3824310	G01S 13/42
(22) 16.07.2019	(21) EP19737309.5	G01S 13/931
(54) METHOD FOR CONFIGURING A	(47) 01.11.2023	G01S 13/58
TRACKING SYSTEM, TRACKING	(87) US2019036684	G01S 13/72
SYSTEM, LIGHTING SYSTEM	23.01.2020	(11) EP3454079
INCORPORATING A TRACKING	(22) 12.06.2019	(21) EP17190576.3
SYSTEM AND COMPUTER PROGRAM	(54) RADAR TRANSMISSION TIME	(47) 01.11.2023
(73) Signify Holding B.V.	INTERVAL RANDOMIZED RADAR	(22) 12.09.2017
(72) WETZKER, Gunnar	TRANSMISSIONS	(54) METHOD TO DETERMINE THE
(31) 18185661	(73) QUALCOMM INCORPORATED	SUITABILITY OF A RADAR TARGET
(32) 26.07.2018	(72) GULATI, Kapil	AS A POSITIONAL LANDMARK
(33) European Patent Office (EPO)	LI, Junyi	(73) Aptiv Technologies Limited
(51) G01S 5/10	SUBRAMANIAN, Sundar	(72) IOFFE, Alexander
H04W 64/00	HAMILTON, Michael John	DOERR, Wolfgang
G01S 1/02	(31) 201916437118	IURGEL, Uri
(11) EP3805780	201862700458 P	STATNIKOV, Konstantin
(21) EP20210478.2	(32) 11.06.2019	YAN, Honghui
(47) 01.11.2023	19.07.2018	(51) G01S 7/41
(22) 04.04.2019	(33) United States of America	G01S 13/42
(54) WIRELESS POSITIONING	United States of America	G01S 13/931
(73) Teknologian Tutkimuskeskus VTT Oy	(51) G01S 7/40	G01S 13/58
(72) KÄMÄRÄINEN, Jukka	G01S 7/497	G01S 13/72
(31) 20185350	G01S 13/86	G01S 13/02
(32) 11.04.2018	(11) EP3650884	(11) EP3454080
(33) Finland	(21) EP19195670.5	(21) EP17190579.7
(51) G01S 5/14	(47) 01.11.2023	(47) 01.11.2023
G01S 5/00	(22) 05.09.2019	(22) 12.09.2017
(11) EP3781964	(54) METHOD AND APPARATUS FOR	(54) SINGLE SCATTERER TEST USING
(21) EP19716453.6	DETERMINING RELATIVE POSE,	PHASE CHANGE
(47) 01.11.2023	DEVICE AND MEDIUM	(73) Aptiv Technologies Limited
(87) EP2019059687	(73) Apollo Intelligent Driving Technology	(72) STATNIKOV, Konstantin
24.10.2019	(Beijing) Co., Ltd.	IOFFE, Alexander
(22) 15.04.2019	(72) ZHOU, Xun	(51) G01S 7/41
(54) DETERMINING A LOCATION OF A	XIE, Yuanfan	G01S 13/42
MOBILE DEVICE	LI, Shirui	G01S 13/931
(73) ASSA ABLOY AB	WANG, Liang	G01S 13/58
(72) OLSSON, Håkan	(31) 201811045093	G01S 13/72
(31) 18167916	(32) 07.09.2018	G01S 13/02
(32) 19.04.2018	(33) China	(11) EP3454081
(33) European Patent Office (EPO)	(51) G01S 7/40	(21) EP17190581.3



(47) 01.11.2023	B06B 1/06	(54) MOTORCYCLE WITH OBSTACLE
(22) 12.09.2017	(11) EP3411730	SENSOR
(54) SINGLE SCATTERER TEST USING	(21) EP17700839.8	(73) PIAGGIO & C. S.p.A.
AMPLITUDE AND A PLURALITY OF	(47) 01.11.2023	(72) SANTUCCI, Mario Donato
RECEIVE ELEMENTS	(87) EP2017051128	DI TANNA, Onorino
(73) Aptiv Technologies Limited	10.08.2017	(31) 201600082299
(72) IOFFE, Alexander	(22) 20.01.2017	(32) 04.08.2016
STATNIKOV, Konstantin	(54) ULTRASOUND IMAGING SYSTEM AND	(33) Italy
DOERR, Wolfgang	METHOD	
(51) G01S 7/481	(73) Koninklijke Philips N.V.	(51) G01S 15/89
G01S 17/93	(72) FISH, David Andrew	G10K 11/34
(11) EP3775978	ARNOLDUSSEN, Gerardus Johannus	G01S 7/52
(21) EP19714338.1	Jacobus Maria	(11) EP3472644
(47) 01.11.2023	OUZOUNOV, Sotir Filipov	(21) EP17740065.2
(87) EP2019056919	TOTEV, Emil Dimitrov	(47) 01.11.2023
03.10.2019	(31) 16154161	(87) GB2017051766
(22) 20.03.2019	(32) 04.02.2016	21.12.2017
(54) MACROSCOPIC LIDAR DEVICE	(33) European Patent Office (EPO)	(22) 16.06.2017
(73) Robert Bosch GmbH	(51) G01S 13/00	(54) ACOUSTIC SUB-APERTURE
(72) KAMIL, Mustafa	G01S 7/41	PROCESSING FOR ULTRASOUND
HOLLECZEK, Annemarie	G01S 13/42	IMAGING
(31) 102018204708	G01S 13/58	(73) Imperial College Innovations Limited
(32) 28.03.2018	(11) EP3640674	(72) STANZIOLA, Antonio
(33) Germany	(21) EP18923764.7	TANG, Mengxing
(51) G01S 7/481	(47) 01.11.2023	(31) 201610504
G02B 26/08	(87) CN2018103362	(32) 16.06.2016
G02B 26/10	05.03.2020	(33) United Kingdom
G01S 17/42	(22) 30.08.2018	(51) G01S 17/10
(11) EP3602105	(54) GESTURE RECOGNITION METHOD,	G01B 11/25
(21) EP18716495.9	TERMINAL, AND STORAGE MEDIUM	G06T 7/593
(47) 01.11.2023	(73) GUANGDONG OPPO MOBILE	G01S 17/89
(87) DE2018100275	TELECOMMUNICATIONS CORP., LTD.	G01B 11/24
27.09.2018	(72) ZHOU, Anfu	G01S 7/481
(22) 26.03.2018	MA, Huadong	G01S 17/36
(54) ANGULAR MAGNETIC FIELD SENSOR	LIU, Jianhua	G01S 17/48
FOR A SCANNER	YANG, Ning	G01S 17/66
(73) Blickfeld GmbH	(51) G01S 13/87	G01S 17/86
(72) PETIT, Florian	G01S 13/931	G01S 17/88
(31) 102017002862	G06V 20/58	G06T 7/521
(32) 24.03.2017	G01S 13/86	(11) EP3586165
(33) Germany	(11) EP3293542	(21) EP18710594.5
(51) G01S 7/497	(21) EP16187849.1	(47) 01.11.2023
G01S 17/88	(47) 01.11.2023	(87) US2018019300
G01S 17/87	(22) 08.09.2016	30.08.2018
G01S 17/894	(54) APPARATUS FOR SENSING A	(22) 23.02.2018
H04N 23/60	VEHICULAR ENVIRONMENT WHEN	(54) SINGLE-FREQUENCY TIME-OF-
(11) EP3844948	FITTED TO A VEHICLE	FLIGHT DEPTH COMPUTATION USING
(21) EP19856037.7	(73) KNORR-BREMSE Systeme für	STEREOSCOPIC DISAMBIGUATION
(47) 01.11.2023	Nutzfahrzeuge GmbH	(73) Microsoft Technology Licensing, LLC
(87) US2019048518	(72) Németh, Huba	(72) BLEYER, Michael
05.03.2020	Balogh, Levente	PRICE, Raymond Kirk
(22) 28.08.2019	(51) G01S 13/931	DEMANDOLX, Denis
(54) DEPTH-SENSING COMPUTER VISION	B60Q 1/46	(31) 201715444161
SYSTEM	B60Q 1/44	(32) 27.02.2017
(73) Veo Robotics, Inc.	G01S 15/931	(33) United States of America
(72) DENENBERG, Scott	G01S 17/931	(51) G01S 17/10
PERSITS, Lev	B60Q 5/00	G01S 7/489
VU, Clara	B60Q 1/38	G01S 7/486
RANDALL, Robert Craig	B60Q 1/50	G01S 7/481
SOBALVARRO, Patrick	B62J 6/045	G01S 7/497
CHAMORRO, Valentina	B62M 7/12	(11) EP3149514
MALKIN, Gene	B62J 6/26	(21) EP14728149.7
MOEL, Alberto	(11) EP3494410	(47) 01.11.2023
(31) 201862724941 P	(21) EP17754203.2	(87) EP2014061105
(32) 30.08.2018	(47) 01.11.2023	03.12.2015
(33) United States of America	(87) IB2017054780	(22) 28.05.2014
(51) G01S 7/52	08.02.2018	(54) COMPENSATED DISTANCE
G01S 15/89	(22) 04.08.2017	MEASUREMENT METHODS AND
		APPARATUS

(73) Trimble AB	(21) EP15793375.5	(32) 04.03.2019
(72) LEKÁS, Johan	(47) 01.11.2023	(33) United States of America
SVANHOLM, Set	(87) US2015026730	(51) G01V 1/38
KOSAKOWSKI, Alex Slawomir	19.11.2015	(11) EP2596381
(51) G01S 19/15	(22) 20.04.2015	(21) EP11810261.5
G01S 19/20	(54) RUNNING LOCATION PROVIDER	(47) 01.11.2023
(11) EP3929627	PROCESSES	(87) US2011044494
(21) EP21169241.3	(73) Google LLC	26.01.2012
(47) 01.11.2023	(72) CHRISTIE, David, Nicholas	(22) 19.07.2011
(22) 19.04.2021	NARAYANAN, Vidya	(54) Process for acquiring marine seismic
(54) SPLIT VERTICAL ADVANCED	(31) 201414530997	data using distinctive composite
RECEIVER AUTONOMOUS INTEGRITY	201461994546 P	sequences of pulses
MONITORING	(32) 03.11.2014	(73) ConocoPhillips Company
(73) HONEYWELL AEROSPACE SAS	16.05.2014	(72) EICK, Peter, M.
(72) CYPRIANO, Lucas Almeida	(33) United States of America	BREWER, Joel, D.
DVORSKA, Jolana Kristufkova	United States of America	JANISZEWSKI, Frank, D.
SKALICKY, Jakub	(51) G01V 1/30	MOSHER, Charles, C.
OREJAS, Martin	G01V 1/38	(31) 365631 P
(31) 202016910641	G01V 1/22	365663 P
(32) 24.06.2020	G01V 1/40	201161494952 P
(33) United States of America	(11) EP3788414	(32) 19.07.2010
(51) G01S 19/39	(21) EP19729585.0	19.07.2010
(11) EP3736608	(47) 01.11.2023	09.06.2011
(21) EP19305582.9	(87) IB2019053521	(33) United States of America
(47) 01.11.2023	07.11.2019	United States of America
(22) 07.05.2019	(22) 30.04.2019	United States of America
(54) METHOD OF ESTIMATING A	(54) CORRECTING A DIGITAL SEISMIC	(51) G01V 3/32
CONSTRAINED ZONOTOPE	IMAGE USING A FUNCTION OF SPEED	G01R 33/44
ENCLOSING A STATE REPRESENTING	OF SOUND IN WATER DERIVED FROM	E21B 47/00
MOTION OF AT LEAST ONE	FIBER OPTIC SENSING	(11) EP3585978
MOBILE TARGET GOVERNED BY A	(73) Chevron U.S.A. Inc.	(21) EP17915593.2
NONLINEAR MODEL	(72) DAVIES, Kevin John	(47) 01.11.2023
(73) Institut Supérieur de l'Aéronautique et de	(31) 201815971829	(87) US2017039700
l'Espace	(32) 04.05.2018	03.01.2019
Centre National de la Recherche	(33) United States of America	(22) 28.06.2017
Scientifique (CNRS)	(51) G01V 1/36	(54) CONSTRUCTING NUCLEAR
(72) BOLTING, Jan	(11) EP3391095	MAGNETIC RESONANCE (NMR)
FERGANI, Soheib	(21) EP16813312.2	DEVICES BASED ON COST AND
(51) G01S 19/45	(47) 01.11.2023	STRUCTURAL CONSTRAINTS
G01S 5/00	(87) US2016064891	(73) Halliburton Energy Services, Inc.
G08G 1/16	22.06.2017	(72) REIDERMAN, Arcady
G01S 19/40	(22) 05.12.2016	(51) G01V 5/00
G01S 19/51	(54) METHOD FOR CORRECTION OF	(11) EP3040743
(11) EP3655799	SEISMIC RECEIVER CLOCK DRIFT	(21) EP15202838.7
(21) EP18733549.2	(73) BP Corporation North America Inc.	(47) 01.11.2023
(47) 01.11.2023	(72) ETGEN, John Theodore	(22) 28.12.2015
(87) EP2018066016	(31) 201662319860 P	(54) INSPECTION METHODS AND
24.01.2019	201562269459 P	SYSTEMS
(22) 15.06.2018	(32) 08.04.2016	(73) Nuctech Company Limited
(54) METHOD FOR PROVIDING AND	18.12.2015	(72) CHEN, Zhiqiang
IMPROVING A POSITIONAL	(33) United States of America	ZHANG, Li
PROBABILITY DISTRIBUTION FOR	United States of America	ZHAO, Ziran
GNSS RECEIVE DATA	(51) G01V 1/36	LIU, Yaohong
(73) Robert Bosch GmbH	G01V 1/42	ZHANG, Duokun
(72) DOLGOV, Maxim	G06N 3/02	GU, Jianping
FUCHS, Hendrik	E21B 47/00	LI, Qiang
LLATSER MARTI, Ignacio	(11) EP3935419	ZHANG, Jian
WILDSCHUETTE, Florian	(21) EP20708182.9	(31) 201410844405
MICHALKE, Thomas	(47) 01.11.2023	(32) 30.12.2014
(31) 102017212603	(87) IB2020051127	(33) China
(32) 21.07.2017	10.09.2020	(51) G01V 8/12
(33) Germany	(22) 12.02.2020	G01D 11/26
(51) G01S 19/48	(54) SYSTEM AND METHOD FOR	(11) EP4047326
G01S 19/34	REDUCING NOISE IN DISTRIBUTED	(21) EP21213963.8
G01S 5/02	ACOUSTIC SENSING DATA	(47) 01.11.2023
H04W 64/00	(73) Chevron U.S.A. Inc.	(22) 13.12.2021
H04W 52/02	(72) ZHANG, Lin	(54) SENSOR ARRANGEMENT
(11) EP3143814	(31) 201916291912	(73) Leuze electronic GmbH + Co. KG

(72) Ullmann, Thomas Bauer, Matthias	(51) G02B 3/04	G02B 1/118
(31) 202021100883 U	(11) EP3762747	G02B 5/20
(32) 23.02.2021	(21) EP19719628.0	(11) EP3244240
(33) Germany	(47) 01.11.2023	(21) EP16735087.5
(51) G01V 8/12	(87) JP2019010126	(47) 01.11.2023
G02B 27/00	12.09.2019	(87) JP2016050467
H01H 35/00	(22) 06.03.2019	14.07.2016
H01H 11/00	(54) OPTIC, LUMINAIRE, AND METHOD	(22) 08.01.2016
C09D 5/16	FOR FABRICATING OPTIC	(54) DISPLAY BODY AND ARTICLE
G02B 1/18	(73) Mitsubishi Electric Corporation	(73) Toppan Printing Co., Ltd.
G01D 11/26	(72) BRAND, Matthew	(72) NAGANO, Akira
G02B 19/00	(31) 201815917074	(31) 2015002617
(11) EP3933872	(32) 09.03.2018	(32) 08.01.2015
(21) EP20762210.1	(33) United States of America	(33) Japan
(47) 01.11.2023	(51) G02B 3/14	(51) G02B 5/22
(87) JP2020008345	G02B 7/02	G02B 5/128
03.09.2020	G02B 27/64	(11) EP3100084
(22) 28.02.2020	G03B 5/02	(21) EP15756702.5
(54) PHOTOELECTRIC SENSOR AND	G03B 5/04	(47) 01.11.2023
METHOD FOR MANUFACTURING	H04N 23/45	(87) US2015012992
SAME	H04N 23/55	19.11.2015
(73) OMRON Corporation	H04N 23/58	(22) 27.01.2015
(72) NAKAMURA, Jumpei	H04N 23/62	(54) COLORED RETROREFLECTIVE
NAKASHIMA, Hirotaka	H04N 23/67	ARTICLES
KOMAI, Kazunari	H04N 23/69	(73) 3M Innovative Properties Company
OIKAWA, Takahiro	G02B 13/00	(72) MCCOY, Michael A.
(31) 2019036501	G03B 3/10	NIWAS, Shri
(32) 28.02.2019	G03B 37/04	(31) 201461934021 P
(33) Japan	(11) EP3515058	(32) 31.01.2014
(51) G01V 99/00	(21) EP17851102.8	(33) United States of America
G01V 1/50	(47) 01.11.2023	(51) G02B 5/30
G01V 1/30	(87) KR2017009978	B29D 11/00
(11) EP3776270	22.03.2018	G02C 7/12
(21) EP19781798.4	(22) 12.09.2017	G02B 1/04
(47) 01.11.2023	(54) DUAL CAMERA MODULE	(11) EP3680695
(87) US2019024494	(73) LG Innotek Co., Ltd.	(21) EP18852824.4
10.10.2019	(72) MOON, Young Seop	(47) 01.11.2023
(22) 28.03.2019	KIM, Ui Jun	(87) JP2018032651
(54) SYSTEMS AND METHODS FOR USING	KIM, Han Young	14.03.2019
PROBABILITIES OF LITHOLOGIES IN	KIM, Hyung	(22) 03.09.2018
AN INVERSION	LEE, Sang Hun	(54) POLARIZING SHEET AND POLARIZING
(73) Chevron U.S.A. Inc.	(31) 20160147688	LENS PROVIDED WITH SAME
(72) HOVERSTEN, Gary Michael	20160118037	(73) Polyplastics-Evonik Corporation
BANDURA, Laura	20160118031	(72) FUJINAKA, Toshihiko
HALPERT, Adam	(32) 07.11.2016	OMAE, Hitomi
(31) 201815943535	13.09.2016	(31) 2017171788
(32) 02.04.2018	13.09.2016	(32) 07.09.2017
(33) United States of America	(33) Korea (Republic)	(33) Japan
(51) G02B 1/00	Korea (Republic)	(51) G02B 5/30
G02B 5/18	Korea (Republic)	G02F 1/137
G02B 13/14	(51) G02B 5/00	G02F 1/139
B82Y 20/00	(11) EP3161543	G02F 1/1337
(11) EP3913405	(21) EP15814996.3	G02F 1/13363
(21) EP21169860.0	(47) 01.11.2023	(11) EP3848735
(47) 01.11.2023	(87) US2015036602	(21) EP19857312.3
(22) 22.04.2021	07.01.2016	(47) 01.11.2023
(54) OPTICAL DEVICE AND IMAGING	(22) 19.06.2015	(87) KR2019011381
DEVICE INCLUDING THE SAME	(54) 360 DEGREE PRIVACY FILM	12.03.2020
(73) Samsung Electronics Co., Ltd.	(73) 3M Innovative Properties Company	(22) 04.09.2019
(72) SIDDIQUE, Radwanul Hasan	(72) LARSEN, Jeremy, K.	(54) DEVICE HAVING VARIABLE
WANG, Yibing Michelle	HALVERSON, Kurt, J.	TRANSMITTANCE
(31) 202016906917	SOLOMON, Jeffrey, L.	(73) LG Chem, Ltd.
202063016188 P	(31) 201462018713 P	(72) LIM, Eun Jung
(32) 19.06.2020	(32) 30.06.2014	GIM, Min Jun
27.04.2020	(33) United States of America	BELYAEV, Sergey
(33) United States of America	(51) G02B 5/18	OH, Dong Hyun
United States of America	B42D 25/328	(31) 20180105600
	G09F 19/12	20180105598

(32) 04.09.2018 04.09.2018	(51) G02B 6/124 G01S 7/481	(11) EP3945352 (21) EP21188072.9
(33) Korea (Republic) Korea (Republic)	G02B 6/12 G02B 6/122	(47) 01.11.2023 (22) 27.07.2021
(51) G02B 5/30 G02F 1/139 G02F 1/137 G02F 1/1337 G02F 1/13363	G02B 6/34 G02B 26/08 G02F 1/13 G02F 1/295 G02B 6/293	(54) ADAPTER TIP AND MICROSCOPE SYSTEM FOR INSPECTION OF FIBER- OPTIC CONNECTOR ENDFACES (73) EXFO Inc. (72) FILION, Jean COTE, Olivier
(11) EP3848734 (21) EP19857093.9 (47) 01.11.2023 (87) KR2019011382 12.03.2020	(11) EP3764135 (21) EP19763760.6 (47) 01.11.2023 (87) JP2019002313 12.09.2019	(31) 202063059209 P (32) 31.07.2020 (33) United States of America
(22) 04.09.2019 (54) DEVICE HAVING VARIABLE TRANSMITTANCE (73) LG Chem, Ltd. (72) LIM, Eun Jung BELYAEV, Sergey GIM, Min Jun OH, Dong Hyun	(22) 24.01.2019 (54) OPTICAL DEVICE AND OPTICAL DETECTION SYSTEM (73) Panasonic Intellectual Property Management Co., Ltd. (72) HASHIYA, Akira INADA, Yasuhisa HIRASAWA, Taku	(51) G02B 6/44 (11) EP3685204 (21) EP18759527.7 (47) 01.11.2023 (87) US2018045766 28.03.2019 (22) 08.08.2018 (54) FIBER OPTIC SPLICE TRAY (73) Corning Research & Development Corporation
(31) 20180105599 (32) 04.09.2018 (33) Korea (Republic)	(31) 2019005562 2018049962 2018043288	(72) KUBINSKI, Nico (31) 201762560829 P (32) 20.09.2017 (33) United States of America
(51) G02B 6/02 G01D 5/353 (11) EP3811131 (21) EP19814198.8 (47) 01.11.2023 (87) US2019035429 12.12.2019	(32) 16.01.2019 16.03.2018 09.03.2018 (33) Japan Japan Japan	(51) G02B 6/44 (11) EP3191884 (21) EP15770710.0 (47) 01.11.2023 (87) US2015049296 17.03.2016 (22) 10.09.2015 (54) UNIFICATION CLIP TO COORDINATE MOVEMENT OF SPLICE TRAYS, METHOD AND SYSTEM TO COORDINATE MOVEMENT OF SPLICE TRAYS
(22) 04.06.2019 (54) OVERLAPPING FIBER GRATINGS (73) Intuitive Surgical Operations, Inc. (72) FROGGATT, Mark E. CHILDERS, Brooks	(47) 01.11.2023 (22) 15.03.2018 (54) METHOD OF FORMING CLADDING MODE STRIPPER FOR USE WITH OPTICAL SYSTEMS (73) Ofs Fitel Llc, A Delaware Limited Liability Company	(73) Panduit Corp (72) WILTJER, Jerry A. BROUWER, Shaun P. KUFFEL, Gregory L. KWASNY, Joel D. LUI, Kai C. NOVAK, Benjamin S. SANDERS, Joseph E.
(31) 201862680217 P (32) 04.06.2018 (33) United States of America	(31) 201715460304 (32) 16.03.2017 (33) United States of America	(31) 201514848757 201462049442 P (32) 09.09.2015 12.09.2014 (33) United States of America United States of America
(51) G02B 6/12 (11) EP3958032 (21) EP21199538.6 (47) 01.11.2023 (22) 28.01.2014 (54) ATHERMAL OPTICAL FILTER WITH ACTIVE TUNING AND SIMPLIFIED CONTROL (73) OpenLight Photonics, Inc. (72) ROTH, Jonathan Edgar SPARACIN, Daniel Knight FISH, Gregory Alan	(51) G02B 6/30 G02B 6/10 (11) EP3571537 (21) EP18713047.1 (47) 01.11.2023 (87) US2018014162 26.07.2018 (22) 18.01.2018 (54) SYSTEM AND METHOD FOR ATTACHING OPTICAL FIBERS TO CHIPS (73) University of Rochester (72) CARDENAS, Jaime NAURIYAL, Juniyali	(51) G02B 6/44 (11) EP3690507 (21) EP20164712.0 (47) 01.11.2023 (22) 26.06.2015 (54) AN AERIAL MICROMODULE OPTICAL CABLE (73) Prysman S.p.A. (72) TATAT, Olivier TESTU, Jean-Marc
(31) 201313751492 (32) 28.01.2013 (33) United States of America	(31) 201762448470 P (32) 20.01.2017 (33) United States of America	(51) G02B 7/00 G02B 7/02 (11) EP3796062 (21) EP20196458.2 (47) 01.11.2023
(51) G02B 6/12 G01N 21/77 (11) EP3492909 (21) EP17204932.2 (47) 01.11.2023 (22) 01.12.2017 (54) CHEMICAL SENSING DEVICE USING FLUORESCENT SENSING MATERIAL (73) ams AG (72) Sagmeister, Martin Sidorov, Victor Kraft, Jochen	(51) G02B 6/38 G02B 21/00 G02B 23/24	

(22) 16.09.2020	04.02.2021	(32) 19.10.2012
(54) DUAL VOICE COIL LINEAR TRANSLATOR	(22) 28.07.2020	(33) Germany
(73) Thorlabs Inc.	(54) ZOOM LENS, CAMERA MODULE AND ELECTRONIC DEVICE	(51) G02B 21/06
(72) Cherny, John Mitchell, Brian Morgus, Tyler	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	B23K 26/064
(31) 201962903215 P	(72) YANG, Xin	G02F 1/13
(32) 20.09.2019	(31) 201910703072	G02B 27/18
(33) United States of America	(32) 31.07.2019	G02B 26/06
(51) G02B 7/02	(33) China	B23K 26/067
B81C 3/00	(51) G02B 17/06	B23K 26/082
C03C 27/00	G02B 23/04	B23K 26/0622
G02B 7/18	G02B 23/06	G02B 13/22
G01R 33/26	G02B 27/10	G02B 21/00
(11) EP3049846	G02B 27/14	G02B 21/14
(21) EP14784573.9	(11) EP3916462	G03H 1/00
(47) 01.11.2023	(21) EP21174542.7	G03H 1/22
(87) US2014057902	(47) 01.11.2023	G03H 1/08
02.04.2015	(22) 18.05.2021	B23K 101/40
(22) 26.09.2014	(54) OPTICAL INSTRUMENT WITH TELESCOPE FUNCTION AND MULTIPLE CHANNELS	B23K 103/00
(54) ANODICALLY BONDED CELLS WITH OPTICAL ELEMENTS	(73) Airbus Defence and Space SAS	(11) EP2919055
(73) Trustees of Princeton University	(72) PASTERNAK, Frédéric	(21) EP13853886.3
(72) DURAL, Nezhì ROMALIS, Michael, V.	(31) 2005561	(47) 01.11.2023
(31) 201361883222 P	(32) 26.05.2020	(87) JP2013078986
(32) 27.09.2013	(33) France	15.05.2014
(33) United States of America	(51) G02B 21/00	(22) 25.10.2013
(51) G02B 7/105	G01N 21/64	(54) LIGHT IRRADIATION DEVICE
G03B 3/10	G02B 21/16	(73) Hamamatsu Photonics K.K.
G01R 15/18	G02B 27/58	(72) TAKIGUCHI Yuu
G02B 7/28	(11) EP3717951	(31) 2012248443
(11) EP3480640	(21) EP18836501.9	(32) 12.11.2012
(21) EP16907400.2	(47) 01.11.2023	(33) Japan
(47) 01.11.2023	(87) IB2018059492	(51) G02B 21/06
(87) KR2016007039	06.06.2019	G01N 21/64
04.01.2018	(22) 30.11.2018	G02B 21/36
(22) 30.06.2016	(54) METHOD OF ILLUMINATING AT LEAST ONE BIOLOGICAL SAMPLE, THREE-DIMENSIONAL HIGH RESOLUTION DEPLETION MICROSCOPY METHOD AND CORRESPONDING MICROSCOPE	(11) EP3693781
(54) CAMERA MODULE AND AUTO-FOCUS METHOD THEREOF	(73) Fondazione Istituto Italiano di Tecnologia	(21) EP18865061.8
(73) LG Electronics Inc.	(72) BIANCHINI, Paolo	(47) 01.11.2023
(72) KWON, Youngman KANG, Hyungjoo KWON, Sungdu LEE, Jayong PARK, Haejin HONG, Samnyol	DEGUCHI, Takahiro DIASPRO, Alberto	(87) JP2018023180
(51) G02B 13/14	(31) 201700137607	11.04.2019
G02B 3/14	(32) 30.11.2017	(22) 19.06.2018
G02C 7/08	(33) Italy	(54) FLUORESCENCE MICROSCOPE DEVICE AND FLUORESCENCE MICROSCOPE SYSTEM
G02B 26/00	(51) G02B 21/00	(73) Sony Group Corporation
(11) EP3910398	G02B 21/16	(72) DOWAKI Suguru
(21) EP20305494.5	G02B 21/36	(31) 2017193116
(47) 01.11.2023	(11) EP2909669	(32) 02.10.2017
(22) 13.05.2020	(21) EP13798551.1	(33) Japan
(54) THREE-STATE OPTICAL ARTICLE AND METHOD FOR CONTROLLING SAME	(47) 01.11.2023	(51) G02B 21/14
(73) ESSILOR INTERNATIONAL	(87) DE2013200195	G02B 21/36
(72) HAMLAOUI, Samy CHENE, Sylvain FERMIGIER, Bruno	24.04.2014	G02B 27/00
(51) G02B 15/177	(22) 27.09.2013	G01N 33/483
G02B 15/14	(54) X-MICROSCOPE AND A METHOD FOR EXAMINING A SAMPLE USING A MICROSCOPE	G06V 20/69
(11) EP4006612	(73) Leica Microsystems CMS GmbH	G06V 10/764
(21) EP20847669.7	(72) SCHREIBER, Frank KUSCHEL, Lioba MRAWEK, Patric WIDZGOWSKI, Bernd	G06N 20/00
(47) 01.11.2023	(31) 102012219136	(11) EP3674686
(87) CN2020105208		(21) EP18848312.7
		(47) 01.11.2023
		(87) JP2018021742
		28.02.2019
		(22) 06.06.2018
		(54) LEARNING DEVICE, METHOD, AND PROGRAM FOR DISCRIMINATOR
		(73) FUJIFILM Corporation
		(72) TSUJIMOTO Takayuki
		(31) 2017162052
		(32) 25.08.2017
		(33) Japan

(51) G02B 21/36	G02F 1/1335	(54) MULTIVIEW BACKLIGHTING
G02B 21/24	G02F 1/29	EMPLOYING PLASMONIC MULTIBEAM
G02B 7/28	G02F 1/313	ELEMENTS
H04N 1/40	(11) EP3593196	(73) LEIA Inc.
(11) EP3625611	(21) EP18764233.5	(72) FATTAL, David A.
(21) EP18883460.0	(47) 01.11.2023	AIETA, Francesco
(47) 01.11.2023	(87) US2018021089	<hr/>
(87) US2018062905	13.09.2018	(51) G02C 7/06
06.06.2019	(22) 06.03.2018	G02C 7/02
(22) 28.11.2018	(54) HEAD-MOUNTED LIGHT FIELD	G02C 7/04
(54) DUAL PROCESSOR IMAGE	DISPLAY WITH INTEGRAL IMAGING	(11) EP3676659
PROCESSING	AND WAVEGUIDE PRISM	(21) EP18851786.6
(73) Leica Biosystems Imaging, Inc.	(73) Arizona Board of Regents on behalf of	(47) 01.11.2023
(72) DAILEY, Timothy	the University of Arizona	(87) IB2018056415
(31) 201762591418 P	(72) HUA, Hong	07.03.2019
(32) 28.11.2017	HUANG, Hekun	(22) 24.08.2018
(33) United States of America	(31) 201762469100 P	(54) OPTICAL LENS FOR VISION
<hr/>	(32) 09.03.2017	CORRECTION
(51) G02B 27/00	(33) United States of America	(73) Shanghai Ticon Optical Co., Ltd.
G02B 27/09	<hr/>	St. Shine Optical Co., Ltd.
(11) EP2711745	(51) G02B 27/01	APP Vision Care, Inc.
(21) EP13181193.7	H04N 13/332	Eyescon Biomed. Co., Ltd.
(47) 01.11.2023	G06T 7/586	(72) CHEN, Ming-Hsien
(22) 21.08.2013	G01B 11/24	CHOU, Yu-Jan
(54) METHOD OF PRODUCING A	(11) EP3769146	TSAN, Chiu-Hsien
REFLECTIVE OR REFRACTIVE	(21) EP19716259.7	HUANG, Shang-Jen
SURFACE	(47) 01.11.2023	(31) 106129178
(73) Ecole Polytechnique Fédérale de	(87) US2019021955	(32) 28.08.2017
Lausanne	26.09.2019	(33) Taiwan, Chinese Taipei
(72) Pauly, Mark	(22) 13.03.2019	<hr/>
Kiser, Thomas	(54) HYBRID DEPTH DETECTION AND	(51) G02F 1/00
(31) 12184255	MOVEMENT DETECTION	E06B 3/67
(32) 13.09.2012	(73) Microsoft Technology Licensing, LLC	E06B 9/24
(33) European Patent Office (EPO)	(72) PRICE, Raymond Kirk	(11) EP3676661
<hr/>	BLEYER, Michael	(21) EP18743556.5
(51) G02B 27/01	REIDY, Christopher Francis	(47) 01.11.2023
(11) EP4141520	(31) 201815933101	(87) EP2018070585
(21) EP22150536.5	(32) 22.03.2018	07.03.2019
(47) 01.11.2023	(33) United States of America	(22) 30.07.2018
(22) 07.01.2022	<hr/>	(54) INSULATING GLASS WITH ELECTRIC
(54) FOLDING OPTICAL WAVEGUIDE	(51) G02B 27/02	CONNECTION ELEMENT
NEAR-TO-EYE DISPLAY DEVICE	A61B 3/028	(73) SAINT-GOBAIN GLASS FRANCE
(73) Shu, Wei	H04N 5/64	(72) MESSERE, Rino
(72) SHU, Wei	G02B 27/01	(31) 17188493
GUO, Manli	A61B 3/00	(32) 30.08.2017
HE, Xiaoguang	(11) EP3690517	(33) European Patent Office (EPO)
(31) 202110996666	(21) EP18861853.2	<hr/>
(32) 27.08.2021	(47) 01.11.2023	(51) G02F 1/025
(33) China	(87) JP2018033827	G02F 1/225
<hr/>	04.04.2019	(11) EP3507649
(51) G02B 27/01	(22) 12.09.2018	(21) EP17771625.5
G02B 5/00	(54) IMAGE PROJECTION DEVICE	(47) 01.11.2023
G02B 5/04	(73) QD Laser, Inc.	(87) US2017049880
B60K 35/00	(72) SUZUKI, Makoto	08.03.2018
G02B 27/00	YAMAMOTO, Megumi	(22) 01.09.2017
(11) EP3834031	MORINO, Seiji	(54) METHOD AND SYSTEM FOR A
(21) EP19749240.8	KANEKO, Chizuru	VERTICAL JUNCTION HIGH-SPEED
(47) 01.11.2023	(31) 2017189998	PHASE MODULATOR
(87) EP2019069425	(32) 29.09.2017	(73) Luxtera, Inc.
13.02.2020	(33) Japan	(72) MEKIS, Attila
(22) 18.07.2019	<hr/>	SAHNI, Subal
(54) METHOD FOR OPERATING A VISUAL	(51) G02B 30/33	DE KONINCK, Yannick
FIELD DISPLAY DEVICE FOR A	F21V 8/00	MASINI, Gianlorenzo
MOTOR VEHICLE	G02B 6/122	GHOLAMI, Faezeh
(73) Bayerische Motoren Werke	(11) EP3574353	(31) 201662382326 P
Aktiengesellschaft	(21) EP17893617.5	(32) 01.09.2016
(72) HUBER, Wolfgang-Andreas	(47) 01.11.2023	(33) United States of America
(31) 102018213269	(87) US2017015685	<hr/>
(32) 08.08.2018	02.08.2018	(51) G02F 1/13
(33) Germany	(22) 30.01.2017	E06B 9/24
<hr/>		G02F 1/1334
(51) G02B 27/01		(11) EP3796073

(21) EP19803438.1	(54) ARRAY SUBSTRATE AND	(72) YANG, Xin
(47) 01.11.2023	MANUFACTURING METHOD	(31) 201920802996 U
(87) JP2019019266	THEREFOR, AND DISPLAY DEVICE	201910464864
21.11.2019	AND MANUFACTURING METHOD	201920810445 U
(22) 15.05.2019	THEREFOR	201910465513
(54) DIMMING DEVICE, MANAGEMENT	(73) BOE Technology Group Co., Ltd.	(32) 30.05.2019
METHOD FOR DIMMING DEVICE,	(72) LONG, Chunping	30.05.2019
AND PRODUCTION METHOD FOR	WU, Xinyin	30.05.2019
DIMMING DEVICE	QIAO, Yong	30.05.2019
(73) Toppan Printing Co., Ltd.	(31) 201721438535 U	(33) China
(72) YAMADA Takehiro	(32) 01.11.2017	China
HIGASHI Yusuke	(33) China	China
(31) 2018094150	(51) G02F 1/1523	China
(32) 15.05.2018	G02F 1/1516	(51) G03B 13/36
(33) Japan	G02F 1/15	(11) EP3718296
(51) G02F 1/1333	(11) EP3686666	(21) EP19741472.5
G02F 1/13	(21) EP18856359.7	(47) 01.11.2023
(11) EP3731003	(47) 01.11.2023	(87) KR2019000104
(21) EP20169283.7	(87) KR2018010599	25.07.2019
(47) 01.11.2023	21.03.2019	(22) 03.01.2019
(22) 14.04.2020	(22) 11.09.2018	(54) ELECTRONIC DEVICE AND METHOD
(54) MANUFACTURING APPARATUS FOR A	(54) METHOD FOR MANUFACTURING	FOR CONTROLLING AUTOFOCUS OF
PROTECTIVE FILM	ELECTROCHROMIC DEVICE	CAMERA
(73) Samsung Display Co., Ltd.	(73) LG Chem, Ltd.	(73) Samsung Electronics Co., Ltd.
(72) KIM, WONJU	(72) KIM, Yong Chan	(72) KIM, Eunho
RYU, DOHYUNG	KIM, Ki Hwan	PARK, Jaehyoung
JUNG, Wu Hyeon	SHON, Jeong Woo	WON, Jonghoon
HWANG, Daehyun	JO, Pil Sung	(31) 20180005722
(31) 20190047751	(31) 20180106524	(32) 16.01.2018
(32) 24.04.2019	20170119271	(33) Korea (Republic)
(33) Korea (Republic)	(32) 06.09.2018	(51) G03B 15/02
(51) G02F 1/1333	18.09.2017	G03B 15/03
G06F 1/16	(33) Korea (Republic)	G03B 37/00
G09F 9/30	Korea (Republic)	(11) EP4133332
(11) EP3745187	(51) G02F 1/155	(21) EP21717813.6
(21) EP20187212.4	E06B 9/24	(47) 01.11.2023
(47) 01.11.2023	G02F 1/15	(87) EP2021058904
(22) 04.07.2017	E06B 3/67	14.10.2021
(54) ROLLABLE DISPLAY APPARATUS	G02F 1/153	(22) 06.04.2021
(73) Samsung Display Co., Ltd.	(11) EP3458908	(54) CAMERA SYSTEM FOR INSPECTING
(72) Kim, Min-Sung	(21) EP17800331.5	PIPES AND/OR DUCTS
Seo, Tae An	(47) 01.11.2023	(73) Rausch GmbH
Lee, Jung Hun	(87) US2017033837	(72) EGLIN, Renè
Choi, Jin Hwan	23.11.2017	(31) 102020002207
(31) 20160084846	(22) 22.05.2017	(32) 08.04.2020
(32) 05.07.2016	(54) METHOD OF RESISTIVE COATING	(33) Germany
(33) Korea (Republic)	FOR VOLTAGE UNIFORMITY	(51) G03B 17/56
(51) G02F 1/1345	(73) Gentex Corporation	G03B 15/03
(11) EP3901696	(72) STEPHENSON, Michael T.	B64D 47/04
(21) EP21170019.0	FRANZ, Sue F.	B64D 47/08
(47) 01.11.2023	LUTEN, Henry A.	H04N 23/56
(22) 22.04.2021	ANDERSON, John S.	(11) EP4066056
(54) DISPLAY DEVICE	(31) 201662339301 P	(21) EP20812240.8
(73) Samsung Display Co., Ltd.	(32) 20.05.2016	(47) 01.11.2023
(72) EOM, Cheol Hwan	(33) United States of America	(87) EP2020082816
CHOI, Deok Young	(51) G02F 1/155	03.06.2021
(31) 20200048821	G02F 1/161	(22) 20.11.2020
(32) 22.04.2020	H04M 1/02	(54) DIRECTION ADJUSTABLE DRONE
(33) Korea (Republic)	G02F 1/157	ACCESSORY
(51) G02F 1/1362	(11) EP3754421	(73) Tundra Drone AS
G02F 1/1343	(21) EP20177481.7	(72) VALIO, Tim
G02F 1/1337	(47) 01.11.2023	SOMBY, Tor Erik
(11) EP3705935	(22) 29.05.2020	(31) 20191417
(21) EP18873105.3	(54) ELECTROCHROMIC DEVICE	(32) 29.11.2019
(47) 01.11.2023	AND ELECTRONIC APPARATUS	(33) Norway
(87) CN2018107968	COMPRISING THE SAME	(51) G03B 21/14
09.05.2019	(73) GUANGDONG OPPO MOBILE	G02B 7/02
(22) 27.09.2018	TELECOMMUNICATIONS CORP., LTD.	G02B 7/04

G02B 7/08	(51) G03F 7/00	(72) FURUICHI, Yuusuke
G02B 17/08	G03F 7/20	ADACHI, Tomoya
G03B 5/06	(11) EP3620858	SOMEYA, Yukimichi
G03B 21/00	(21) EP19192535.3	SEKI, Takayuki
G03B 21/28	(47) 01.11.2023	(31) 2018184393
H04N 5/74	(22) 20.08.2019	(32) 28.09.2018
(11) EP3882697	(54) EXPOSURE APPARATUS AND	(33) Japan
(21) EP19883931.8	METHOD OF MANUFACTURING	(51) G05B 15/02
(47) 01.11.2023	ARTICLE	(11) EP3693814
(87) JP2019040646	(73) CANON KABUSHIKI KAISHA	(21) EP20154439.2
22.05.2020	(72) HOMMA, Masato	(47) 01.11.2023
(22) 16.10.2019	KAWAHARA, Izumi	(22) 29.01.2020
(54) PROJECTION DEVICE	(31) 2019096250	(54) MAPPING A LOOP OBJECT TO A
(73) FUJIFILM Corporation	2018169120	FEEDBACK LOOP
(72) SHIMIZU, Hitoshi	(32) 22.05.2019	(73) Honeywell International Inc. Intellectual
OMATA, Takeharu	10.09.2018	Property - Patent Services
(31) 2018213326	(33) Japan	(72) POLURI, Nagasree
(32) 13.11.2018	Japan	KARUNAKARAN, Deenadayalan
(33) Japan	(51) G03F 9/00	P, Seema
(51) G03B 21/16	(11) EP3026491	MAKAM, Ankith
G03B 21/20	(21) EP15196752.8	(31) 201916268202
G03B 33/08	(47) 01.11.2023	(32) 05.02.2019
(11) EP3413129	(22) 27.11.2015	(33) United States of America
(21) EP17812457.4	(54) POSITION DETERMINING DEVICE,	(51) G05B 17/02
(47) 01.11.2023	POSITION DETERMINING METHOD,	(11) EP3926420
(87) CN2017081203	LITHOGRAPHIC APPARATUS, AND	(21) EP20180249.3
21.12.2017	METHOD FOR MANUFACTURING	(47) 01.11.2023
(22) 20.04.2017	OBJECT	(22) 16.06.2020
(54) COLOR-WHEEL HEAT-DISSIPATION	(73) CANON KABUSHIKI KAISHA	(54) MAKING TIME-SERIES PREDICTIONS
APPARATUS AND PROJECTION	(72) TAMURA, Koichi	OF A COMPUTER-CONTROLLED
DEVICE HAVING SAME HEAT-	(31) 2015171202	SYSTEM
DISSIPATION APPARATUS	2014242526	(73) Robert Bosch GmbH
(73) Appotronics Corporation Limited	(32) 31.08.2015	(72) Gerwin, Sebastian
(72) DU, Lunchun	28.11.2014	Kandemir, Melih
HUANG, Min	(33) Japan	Look, Andreas
MIN, Lan	Japan	Rakitsch, Barbara
LI, Yi	(51) G03G 9/113	(51) G05B 17/02
(31) 201610421892	G03G 9/107	G08G 1/00
(32) 14.06.2016	(11) EP3629090	G08G 1/16
(33) China	(21) EP19198479.8	(11) EP3913596
(51) G03B 21/28	(47) 01.11.2023	(21) EP20215271.6
G02B 26/02	(22) 19.09.2019	(47) 01.11.2023
G03H 1/00	(54) CARRIER FOR FORMING	(22) 18.12.2020
G02B 5/30	ELECTROPHOTOGRAPHIC IMAGE,	(54) METHOD FOR CONTROLLING
G02B 26/08	TWO-COMPONENT DEVELOPER,	SIMULATION VEHICLE AND
G02B 27/09	DEVELOPER FOR REPLENISHMENT,	ELECTRONIC DEVICE
G02B 27/10	IMAGE FORMING APPARATUS,	(73) Apollo Intelligent Driving Technology
G03H 1/08	PROCESS CARTRIDGE, AND IMAGE	(Beijing) Co., Ltd.
G03H 1/22	FORMING METHOD	(72) ZHOU, Jie
G02B 27/28	(73) Ricoh Company, Ltd.	ZHAO, Ming
G03B 21/20	(72) TAKABAYASHI, Yuuya	ZHANG, Liancheng
H04N 9/31	SOGAME, Junjiroh	LI, Hao
(11) EP3667412	NAKAGAWA, Shinya	WU, Hang
(21) EP19211732.3	FUJII, Katsuhiko	GUO, Qiang
(47) 01.11.2023	(31) 2018185263	ZHOU, Sunjie
(22) 28.07.2014	(32) 28.09.2018	DONG, Fangfang
(54) PROJECTOR DISPLAY SYSTEMS	(33) Japan	MAO, Jiming
HAVING NON-MECHANICAL MIRROR	(51) G03G 15/20	LI, Bo
BEAM STEERING	(11) EP3857312	(31) 202010431980
(73) Dolby Laboratories Licensing Corporation	(21) EP19782764.5	(32) 20.05.2020
(72) GORNY, Douglas J.	(47) 01.11.2023	(33) China
RICHARDS, Martin J.	(87) JP2019036396	(51) G05B 19/042
(31) 201461979248 P	02.04.2020	(11) EP3983853
201361860203 P	(22) 17.09.2019	(21) EP20723860.1
(32) 14.04.2014	(54) HEATING DEVICE, BELT HEATING	(47) 01.11.2023
30.07.2013	DEVICE, FIXING DEVICE, AND IMAGE	(87) EP2020062529
(33) United States of America	FORMING APPARATUS	17.12.2020
United States of America	(73) Ricoh Company, Ltd.	(22) 06.05.2020



(54) AUTOMATION FIELD DEVICE	1750942	MEASURING DEVICE AND
(73) Endress+Hauser SE+Co. KG	(32) 30.10.2017	COMPUTER PROGRAM
(72) GERWIG, Simon	17.07.2017	(73) Hexagon Technology Center GmbH
STRITTMATTER, Christian	(33) Sweden	(72) WAGNER, Michael
LUGLI, Roberto	Sweden	(51) G05B 19/418
(31) 102019116193	(51) G05B 19/418	G06Q 10/06
(32) 14.06.2019	(11) EP4158431	G06Q 50/04
(33) Germany	(21) EP21724623.0	G06N 20/20
(51) G05B 19/042	(47) 01.11.2023	(11) EP3961327
(11) EP4155845	(87) EP2021061969	(21) EP20193181.3
(21) EP21198850.6	02.12.2021	(47) 01.11.2023
(47) 01.11.2023	(22) 06.05.2021	(22) 27.08.2020
(22) 24.09.2021	(54) MAINTENANCE PLANNING SYSTEM,	(54) ASSEMBLY ASSISTANCE DEVICE AND
(54) METHOD FOR CONFIGURING A	METHOD AND COMPUTER PROGRAM	METHOD
DEVICE OF AN INDUSTRIAL MACHINE	FOR DETERMINING MAINTENANCE	(73) Omron Europe B.V.
(73) SICK AG	MEASURES FOR A PRODUCTION	(72) STELLAS, Antonis
(72) Fecher, Harald	INSTALLATION, IN PARTICULAR A	(51) G05B 23/02
Kerscher, Thilo	PRODUCTION INSTALLATION IN THE	(11) EP3940491
Ketterer, Stefan	METAL PRODUCTION INDUSTRY, THE	(21) EP20774457.4
(51) G05B 19/042	NON-FERROUS OR STEEL INDUSTRY	(47) 01.11.2023
F04D 15/00	OR MASTER ALLOY MANUFACTURE	(87) JP2020011282
(11) EP3373085	(73) SMS Group GmbH	24.09.2020
(21) EP18000245.3	(72) HAEUSLER, Christoph	(22) 13.03.2020
(47) 01.11.2023	SCHULZ, Sebastian	(54) MONITORING DEVICE, MONITORING
(22) 12.03.2018	WILK, Claus	METHOD AND MONITORING
(54) CIRCUIT ARRANGEMENT WITH	MOHR, Christian	PROGRAM
MULTI-FUNCTIONAL INPUT, IN	(31) 102020206477	(73) SUMITOMO HEAVY INDUSTRIES, LTD.
PARTICULAR FOR THE CONTROL	(32) 25.05.2020	(72) KADOWAKI, Masanori
AND REGULATION ELECTRONICS OF	(33) Germany	(31) 2019048584
A PUMP UNIT	(51) G05B 19/418	(32) 15.03.2019
(73) WILO SE	(11) EP3903156	(33) Japan
(72) Lapp-Emden, Christoph	(21) EP19856482.5	(51) G05B 23/02
Weßling, Thomas	(47) 01.11.2023	(11) EP4062246
Syri, Patrick	(87) IB2019061363	(21) EP20808176.0
(31) 102017002296	02.07.2020	(47) 01.11.2023
(32) 11.03.2017	(22) 26.12.2019	(87) FI2020050739
(33) Germany	(54) METHOD AND SYSTEM FOR	27.05.2021
(51) G05B 19/05	CONTROLLING A PROCESS IN A	(22) 09.11.2020
G05B 19/04	PROCESS PLANT	(54) MEASUREMENT RESULT ANALYSIS
(11) EP3608736	(73) ABB Schweiz AG	BY ANOMALY DETECTION AND
(21) EP18188231.7	(72) BHAT, Shrikant	IDENTIFICATION OF ANOMALOUS
(47) 01.11.2023	(31) 201841049702	VARIABLES
(22) 09.08.2018	(32) 28.12.2018	(73) Elisa Oyj
(54) APPARATUS COMPRISING A	(33) India	(72) HEIKKILÄ, Rasmus
PROCESS CONTROL SYSTEM AND	(51) G05B 19/418	(31) 20195989
AT LEAST ONE PROCESS MODULE,	B21D 1/12	(32) 19.11.2019
RELATED METHOD AND DATA	B21D 3/16	(33) Finland
STORAGE MEDIUM	(11) EP3761131	(51) G05B 23/02
(73) ABB Schweiz AG	(21) EP20181495.1	F28F 19/00
(72) Hoernicke, Mario	(47) 01.11.2023	(11) EP3971671
Stark, Katharina	(22) 22.06.2020	(21) EP21197077.7
(51) G05B 19/409	(54) METHOD AND ROBOT SYSTEM	(47) 01.11.2023
G06Q 10/06	FOR FORMING, IN PARTICULAR	(22) 16.09.2021
G06F 3/0484	CORRECTION AND / OR	(54) SYSTEM AND METHOD FOR
(11) EP3655902	STRAIGHTENING, OF PARTS	IDENTIFICATION AND FORECASTING
(21) EP18835189.4	(73) AutomationsRobotic GmbH	FOULING OF HEAT EXCHANGERS IN
(47) 01.11.2023	(72) Steiger, Alexander	A REFINERY
(87) SE2018050771	(31) 102019117951	(73) Tata Consultancy Services Limited
24.01.2019	(32) 03.07.2019	(72) JADHAV, VISHAL SUDAM
(22) 17.07.2018	(33) Germany	DEODHAR, ANIRUDH
(54) CONFIGURING AN INDUSTRIAL	(51) G05B 19/418	SRINIVAS, SAKHINANA SAGAR
AUTOMATION SYSTEM	G01B 21/00	RUNKANA, VENKATARAMANA
FOR INTERNET-OF-THINGS	(11) EP3848767	(31) 202021040367
ACCESSIBILITY	(21) EP20151540.0	(32) 17.09.2020
(73) Beijer Electronics AB	(47) 01.11.2023	(33) India
(72) HÅKANSSON, Tommy	(22) 13.01.2020	(51) G05B 23/02
CARLSSON, Mats	(54) METHOD FOR QUALITY CONTROL	G01D 3/08
(31) 1751339	OF WORKPIECES AND COORDINATE	

(11) EP4053661	(51) G05D 1/02	(33) China
(21) EP22159185.2	(11) EP3964914	(51) G05D 1/10
(47) 01.11.2023	(21) EP21194292.5	(11) EP4024155
(22) 28.02.2022	(47) 01.11.2023	(21) EP20383175.5
(54) MEASUREMENT DATA RECORDING APPARATUS, METHOD, AND PROGRAM	(22) 01.09.2021	(47) 01.11.2023
(73) Yokogawa Electric Corporation	(54) SYSTEMS AND METHODS FOR FACILITATING MATERIALS-HANDLING VEHICLE OPERATIONAL COMPLIANCE	(22) 30.12.2020
(72) TSUDUKI, Jun	(73) Hyster-Yale Group, Inc.	(54) METHOD, SYSTEM AND COMPUTER PROGRAM PRODUCT OF CONTROL OF UNMANNED AERIAL VEHICLES
(31) 2021032089	(72) DRAAYER, Nicholas M.	(73) Fundación Tecnalia Research & Innovation
(32) 01.03.2021	(72) MCDERMOTT, Ryan P.	(72) Sagasti Mota, Diego
(33) Japan	(31) 202063073680 P	Aguirrezabal Colino, Pablo
(51) G05B 23/02	(32) 02.09.2020	Gomez Bengoa, Judit
G05B 17/02	(33) United States of America	García Canales, Juan
(11) EP3673337	(51) G05D 1/02	(51) G05D 3/12
(21) EP18773214.4	B25J 11/00	F16M 13/04
(47) 01.11.2023	B25J 9/16	F16M 11/38
(87) EP2018076259	A47L 9/28	(11) EP3751379
04.04.2019	A47L 11/40	(21) EP18905537.9
(22) 27.09.2018	(11) EP3846980	(47) 01.11.2023
(54) SYSTEM, METHOD AND CONTROL UNIT FOR DIAGNOSIS AND LIFE PREDICTION OF ONE OR MORE ELECTRO-MECHANICAL SYSTEMS	(21) EP19857721.5	(87) CN2018085554
(73) Siemens Aktiengesellschaft	(47) 01.11.2023	15.08.2019
(72) HANDE, Vidyabhushana	(87) KR2019011251	(22) 04.05.2018
NAIR, Sudev	12.03.2020	(54) HANDHELD GIMBAL CONTROL METHOD AND CONTROL APPARATUS
(31) 17194193	(22) 02.09.2019	(73) Guilin Zhishen Information Technology Co., Ltd.
(32) 29.09.2017	(54) PLURALITY OF AUTONOMOUS MOBILE ROBOTS AND CONTROLLING METHOD FOR THE SAME	(72) LIAO, Yilun
(33) European Patent Office (EPO)	(73) LG Electronics Inc.	(31) 201810132674
(51) G05B 23/02	(72) KWAK, Donghoon	(32) 09.02.2018
G06Q 10/06	KO, Kyoungsuk	(33) China
G05B 19/042	LEE, Sungwook	(51) G05D 16/20
(11) EP3617824	(31) 20190020081	F16K 31/00
(21) EP18191269.2	201862727562 P	(11) EP3979035
(47) 01.11.2023	(32) 20.02.2019	(21) EP20199332.6
(22) 28.08.2018	06.09.2018	(47) 01.11.2023
(54) SYSTEM, APPARATUS AND METHOD OF MANAGING AN ASSET USING AN ASSET MODEL	(33) Korea (Republic)	(22) 30.09.2020
(73) Siemens Aktiengesellschaft	United States of America	(54) DOME PRESSURE REGULATOR
(72) NAIR, Sudev	(51) G05D 1/02	(73) Witt GmbH & Co. Holding und Handels-KG
BOSCO, Arianna	B62D 1/00	(72) BENDER, Martin
HEINRICH, Christoph	B62D 1/28	(51) G06F 1/16
HILDEBRANDT, Marcel	B62D 65/18	G06F 1/20
KHALIL, Mohamed	(11) EP4080313	H04M 1/02
(51) G05D 1/00	(21) EP22174640.7	(11) EP3865972
(11) EP3948464	(47) 01.11.2023	(21) EP21154912.6
(21) EP20702093.4	(22) 30.04.2020	(47) 01.11.2023
(47) 01.11.2023	(54) TREATMENT SYSTEM FOR TREATING WORKPIECES	(22) 03.02.2021
(87) EP2020051603	(73) Eisenmann GmbH	(54) DISPLAY DEVICE
08.10.2020	(72) Schulze, Herbert	(73) Samsung Display Co., Ltd.
(22) 23.01.2020	(31) 102019117036	(72) YOO, BUGYOON
(54) METHOD AND APPARATUS FOR CONTROLLING A VEHICLE BY MEANS OF A REMOTE OPERATOR	(32) 25.06.2019	KIM, YUNJAE
(73) Robert Bosch GmbH	(33) Germany	(31) 20200018561
(72) ECKERT, Kurt	(51) G05D 1/10	(32) 14.02.2020
BLANK, Frederik	(11) EP3742250	(33) Korea (Republic)
WALOSSEK, Erik	(21) EP20184620.1	(51) G06F 1/16
GERALDY, Alexander	(47) 01.11.2023	H04M 1/02
BENAM, Behzad	(22) 21.09.2017	(11) EP3722923
WOLTER, Jan	(54) METHOD, APPARATUS AND SYSTEM FOR CONTROLLING UNMANNED AERIAL VEHICLE	(21) EP20158803.5
SCHWARDMANN, Jens	(73) Beijing Xiaomi Mobile Software Co., Ltd.	(47) 01.11.2023
FLOESS, Karl Theo	(72) CHENG, Yue	(22) 21.02.2020
(31) 102019204939	XIE, Yan	(54) ELECTRONIC DEVICE
(32) 05.04.2019	CHU, Yueyue	(73) Acer Incorporated
(33) Germany	(31) 201610848392	(72) Huang, Yi-Ta
	(32) 23.09.2016	Ling, Cheng-Nan
		Lee, Wu-Chen

Tai, Wen-Chieh	(33) United States of America	(73) Raytheon Company
Chuang, Kun-You	(51) G06F 1/20	(72) MILLER, Kenneth V.
(31) 108204527 U	H01L 23/367	(31) 202016744789
(32) 12.04.2019	H01L 23/40	(32) 16.01.2020
(33) Taiwan, Chinese Taipei	(11) EP4062259	(33) United States of America
(51) G06F 1/16	(21) EP20820497.4	(51) G06F 3/01
H04M 1/02	(47) 01.11.2023	(11) EP2701037
(11) EP3497539	(87) FR2020052142	(21) EP13177696.5
(21) EP17752536.7	27.05.2021	(47) 01.11.2023
(47) 01.11.2023	(22) 20.11.2020	(22) 23.07.2013
(87) US2017045398	(54) ON-BOARD COMPUTER	(54) CONTEXT-DEPENDENT HAPTIC
15.02.2018	WITH INTERPOSER ON THE	CONFIRMATION SYSTEM
(22) 04.08.2017	MICROPROCESSOR CHIP	(73) Immersion Corporation
(54) CAM LOCK HINGE FOR	(73) Safran Electronics & Defense	(72) Birnbaum, David
DETERMINANT MOVEMENT	(72) POILVET, Christophe	Ullrich, Christopher J.
(73) Microsoft Technology Licensing, LLC	CHARRIER, Nicolas	Bothsa, Marcus Aurelius
(72) TAZBAZ, Errol Mark	MONTOYA, Michael	(31) 201213593626
MCCLARY, Gary Russell	(31) 1913042	(32) 24.08.2012
(31) 201615234724	(32) 21.11.2019	(33) United States of America
(32) 11.08.2016	(33) France	(51) G06F 3/01
(33) United States of America	(51) G06F 1/20	A63F 13/285
(51) G06F 1/18	H01L 23/367	(11) EP3483701
H05K 7/14	H05K 7/20	(21) EP17823825.9
(11) EP3617838	(11) EP3921718	(47) 01.11.2023
(21) EP19193363.9	(21) EP20701183.4	(87) JP2017014379
(47) 01.11.2023	(47) 01.11.2023	11.01.2018
(22) 23.08.2019	(87) EP2020051161	(22) 06.04.2017
(54) COMPUTER COMPONENT HOLDING	13.08.2020	(54) INFORMATION PROCESSING
APPARATUS	(22) 17.01.2020	DEVICE, INFORMATION PROCESSING
(73) Quanta Computer Inc.	(54) COMPUTER SYSTEM AND	METHOD, AND PROGRAM
(72) Tsornng, Yaw-Tzornng	THERMALLY CONDUCTIVE BODY	(73) Sony Group Corporation
Liu, You-Jin	(73) Fujitsu Client Computing Limited	(72) YOKOYAMA, Ryo
Chang, Chun	(72) NEUKAM, Wilhelm	YAMANO, Ikuo
(31) 201916426847	(31) 102019103071	NAKAGAWA, Yusuke
201862723250 P	(32) 07.02.2019	(31) 2016134717
(32) 30.05.2019	(33) Germany	(32) 07.07.2016
27.08.2018	(51) G06F 1/20	(33) Japan
(33) United States of America	H05K 7/20	(51) G06F 3/01
United States of America	(11) EP3548986	G01S 15/87
(51) G06F 1/20	(21) EP17876717.4	G01S 7/524
G06F 1/18	(47) 01.11.2023	G01S 7/527
(11) EP3399385	(87) US2017055174	G01S 15/00
(21) EP18173337.9	07.06.2018	G01S 15/66
(47) 01.11.2023	(22) 04.10.2017	G01S 15/88
(22) 05.06.2014	(54) COOLING USING ADJUSTABLE	(11) EP3650987
(54) COMPUTER INTERNAL	THERMAL COUPLING	(21) EP18205131.8
ARCHITECTURE	(73) Intel Corporation	(47) 01.11.2023
(73) Apple Inc.	(72) AOKI, Russell S.	(22) 08.11.2018
(72) DEGNER, Brett W.	KULKARNI, Devdatta P.	(54) APPARATUS AND METHOD FOR
KALINOWSKI, Caitlin Elizabeth	TATE, Alan W.	TRACKING MOVEMENT OF AN
KOSOGLOW, Richard D.	STEINBRECHER, Robin A.	OBJECT
BANKO, Joshua D.	JENSEN, Ralph W.	(73) Vestel Elektronik Sanayi ve Ticaret A.S.
NARAJOWSKI, David H.	(31) 201615366799	(72) KIRISKEN, Barbaros
BERK, Jonathan L.	(32) 01.12.2016	(51) G06F 3/01
LECLERC, Michael E.	(33) United States of America	G02B 27/01
MCBROOM, Michael D.	(51) G06F 1/26	G06F 1/16
IGBAL, Asif	G06F 21/55	(11) EP3712748
MICHELSSEN, Paul S.	G06F 21/81	(21) EP20156162.8
SIN, Mark K.	G06F 1/30	(47) 01.11.2023
BAKER, Paul A.	H04B 3/54	(22) 07.02.2020
SONTAG, Harold L.	(11) EP4091083	(54) HEADS-UP DISPLAY SYSTEM AND
YUEN, Wai Ching	(21) EP20839485.8	METHOD
CASEBOLT, Matthew P.	(47) 01.11.2023	(73) Sony Interactive Entertainment Inc.
FETTERMAN, Kevin S.	(87) US2020065056	(72) WILLIAMS, Nigel John
CALKINS, Alexander C.	22.07.2021	WALKER, Andrew William
MCBROOM, Daniel L.	(22) 15.12.2020	CLARKE, Jake Leigh
(31) 201361832709 P	(54) COMMUNICATING AN EVENT TO A	STARKEY, Robert Christopher
(32) 07.06.2013	REMOTE ENTITY	(31) 201903738

(32) 19.03.2019	(51) G06F 3/02	KUSAKABE, Yuri
(33) United Kingdom	H03K 17/97	IKEDA, Takuya
(51) G06F 3/01	A63F 13/24	(31) 2017250391
G02B 27/01	A63F 13/218	(32) 27.12.2017
G06F 3/0346	G06F 3/0346	(33) Japan
G06T 19/00	G06F 3/03	(51) G06F 3/0354
(11) EP3548995	(11) EP3652621	G06F 3/038
(21) EP17879305.5	(21) EP18740414.0	G06F 3/044
(47) 01.11.2023	(47) 01.11.2023	(11) EP3347797
(87) US2017048957	(87) US2018038703	(21) EP16751777.0
14.06.2018	07.03.2019	(47) 01.11.2023
(22) 28.08.2017	(22) 21.06.2018	(87) US2016045661
(54) END OF SESSION DETECTION IN AN AUGMENTED AND/OR VIRTUAL REALITY ENVIRONMENT	(54) MECHANICALLY ADAPTABLE PRESSABLE USER INPUT DEVICE	16.03.2017
(73) Google LLC	(73) Microsoft Technology Licensing, LLC	(22) 05.08.2016
(72) TOFF, Jason	(72) ROBINSON, Jonathan, Shea	(54) PRESSURE SENSITIVE STYLUS
(31) 201615369478	SCHMITZ, Aaron	(73) Microsoft Technology Licensing, LLC
(32) 05.12.2016	GASSOWAY, Gabriel, Michael, Rask	(72) BAREL, Eliyahu
(33) United States of America	SCHROEDER, Andrew, McKinley	(31) 201514848527
(51) G06F 3/01	(31) 201715691463	(32) 09.09.2015
G09G 3/00	(32) 30.08.2017	(33) United States of America
G02B 27/01	(33) United States of America	(51) G06F 3/041
G06F 3/03	(51) G06F 3/0354	(11) EP3470970
(11) EP3714350	B29C 63/42	(21) EP17831396.1
(21) EP18793722.2	B43K 23/00	(47) 01.11.2023
(47) 01.11.2023	D03D 1/00	(87) KR2017007919
(87) US2018053143	B43K 29/08	25.01.2018
04.04.2019	B43K 21/00	(22) 21.07.2017
(22) 27.09.2018	B43K 8/00	(54) ELECTRONIC DEVICE AND TOUCH INPUT SENSING METHOD OF ELECTRONIC DEVICE
(54) METHOD AND DEVICE FOR EYE TRACKING USING EVENT CAMERA DATA	B43K 5/00	(73) Samsung Electronics Co., Ltd.
(73) Apple Inc.	B43K 7/00	(72) LEE, Jeongjin
(72) BEDIKIAN, Raffi A.	B29C 63/24	CHO, Youngho
KURZ, Daniel	B29C 63/00	CHAE, Iljo
JIA, Li	D03D 3/02	HONG, Changhee
GEBAUER, Thomas	B29L 31/00	KIM, Mooyoung
PETLJANSKI, Branko	B29L 31/34	(31) 20160093281
(31) 201762564875 P	(11) EP3931673	(32) 22.07.2016
(32) 28.09.2017	(21) EP20710377.1	(33) Korea (Republic)
(33) United States of America	(47) 01.11.2023	(51) G06F 3/041
(51) G06F 3/01	(87) US2020017402	(11) EP3663897
G09G 5/00	03.09.2020	(21) EP19209123.9
G06F 1/16	(22) 10.02.2020	(47) 01.11.2023
G06F 3/147	(54) TEXTILE COVERING FOR ELECTRONIC DEVICE	(22) 14.11.2019
G06F 3/0488	(73) Microsoft Technology Licensing, LLC	(54) INFORMATION INPUT DEVICE
G06F 3/0484	(72) BOGAN, Kelly Marie	(73) Renesas Electronics Corporation
G06F 3/048	GHIONI, Lincoln Matthew	(72) NIIKURA, Kentarou
G06F 3/04847	CHURIKOV, Anatoly	(31) 2018226226
G06F 3/04886	SANDOVAL, Paul Ryan	(32) 03.12.2018
(11) EP3338167	(31) 201916285033	(33) Japan
(21) EP16837314.0	(32) 25.02.2019	(51) G06F 3/041
(47) 01.11.2023	(33) United States of America	(11) EP3789860
(87) KR2016009049	(51) G06F 3/0354	(21) EP20183130.2
23.02.2017	G06F 3/038	(47) 01.11.2023
(22) 17.08.2016	G06F 3/03	(22) 30.06.2020
(54) ELECTRONIC DEVICE AND CONTROL METHOD THEREOF	G06F 3/042	(54) DISPLAY DEVICE WITH TOUCHSCREEN
(73) Samsung Electronics Co., Ltd.	(11) EP3734422	(73) LG Display Co., Ltd.
(72) PARK, Seong Woong	(21) EP18897540.3	(72) KIM, Jong-Hoy
KANG, Byung Jin	(47) 01.11.2023	JEON, Chang-Hoon
KIM, Nam Hoi	(87) JP2018035490	(31) 20190111732
LEE, Do Hyung	04.07.2019	(32) 09.09.2019
LEE, Sae Rom	(22) 25.09.2018	(33) Korea (Republic)
(31) 20150116324	(54) INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, AND INFORMATION PROCESSING SYSTEM	(51) G06F 3/041
(32) 18.08.2015	(73) Sony Group Corporation	B32B 9/00
(33) Korea (Republic)	(72) IDA, Kentaro	B32B 27/30
		(11) EP3791247

(21) EP19724222.5	(21) EP19915574.8	01.06.2019
(47) 01.11.2023	(47) 01.11.2023	06.05.2019
(87) FI2019050348	(87) CN2019082734	(33) Denmark
14.11.2019	22.10.2020	Denmark
(22) 03.05.2019	(22) 15.04.2019	Denmark
(54) AN ELECTRICALLY CONDUCTIVE MULTILAYER FILM INCLUDING A COATING LAYER	(54) ELECTRICAL CAPACITANCE DETECTION METHOD FOR TOUCH DISPLAY PANEL, ELECTRICAL CAPACITANCE DETECTION CIRCUIT FOR TOUCH DISPLAY PANEL, AND TOUCH DISPLAY PANEL	Denmark Denmark Denmark Denmark
(73) Canatu Oy	(73) Shenzhen Goodix Technology Co., Ltd.	Denmark
(72) MIKLADAL, Bjørn Fridur TIAN, Dewei	(72) JIANG, Hong LI, Guopao	United States of America United States of America United States of America United States of America
(31) 20185429	(51) G06F 3/048	United States of America
(32) 09.05.2018	(11) EP3792738	United States of America
(33) Finland	(21) EP20206197.4	United States of America
(51) G06F 3/041	(47) 01.11.2023	United States of America
G06F 3/044	(22) 03.04.2020	United States of America
(11) EP3678000	(54) USER INTERFACES FOR CAPTURING AND MANAGING VISUAL MEDIA	(51) G06F 3/048
(21) EP18851724.7	(73) Apple Inc.	G16H 10/20
(47) 01.11.2023	(72) MANZARI, Johnnie Behkish	G16H 20/00
(87) JP2018030265	DESH PANDE, Alok	(11) EP3844601
07.03.2019	LUPINETTI, Nick	(21) EP20866969.7
(22) 14.08.2018	HANKEY, M. Evans	(47) 01.11.2023
(54) INPUT DEVICE	DYE, Alan C.	(87) US2020054121
(73) Alps Alpine Co., Ltd.	FEDERIGHI, Craig M.	08.04.2021
(72) MATSUDA Atsushi	SANTOS, Andre Souza Dos PAUL, Grant	(22) 02.10.2020
(31) 2017164888	SORRENTINO III, William A.	(54) APPARATUS FOR DETERMINING MOBILE APPLICATION USER ENGAGEMENT
(32) 29.08.2017	PRESTON, Daniel Trent	(73) Click Therapeutics, Inc.
(33) Japan	BROUGHTON, Lee S.	(72) PENA, Caroline
(51) G06F 3/041	GIRLING, Lukas Robert Tom McCORMACK, Jon	RODAMMER, Katie, Nicole
G06F 3/044	HUBEL, Paul	(31) 201962909572 P
(11) EP3901747	(31) PA201970605	(32) 02.10.2019
(21) EP19900317.9	PA201970603	(33) United States of America
(47) 01.11.2023	PA201970601	(51) G06F 3/0481
(87) JP2019046986	PA201970600	G06F 3/04842
25.06.2020	PA201970595	G06F 3/0488
(22) 02.12.2019	PA201970592	G06F 3/033
(54) INPUT DEVICE	PA201970593	G06F 3/0354
(73) Alps Alpine Co., Ltd.	201916586344	G06F 3/038
(72) HASHIDA, Junji	201916586314	G16H 30/40
TAKAHASHI, Toru	201916584693	G16H 40/63
SAWADA, Toru	201916584100	(11) EP3994558
MASUMOTO, Yoshifumi	201916584044	(21) EP20734568.7
HIGUCHI, Shinichi	201916582595	(47) 01.11.2023
TSUKAMOTO, Koji	201916583020	(87) EP2020068434
YAMAI, Tomoyuki	201962897968 P	07.01.2021
TAKEDA, Akihiro	201962856036 P	(22) 01.07.2020
SHIGA, Sadakazu	201962844110 P	(54) METHOD FOR ADAPTING SENSITIVITY OF A POINTING DEVICE, COMPUTER PROGRAM AND IMAGE EVALUATION DEVICE
(31) 2018235638	(32) 27.09.2019	(73) Koninklijke Philips N.V.
(32) 17.12.2018	26.09.2019	(72) ARORA, Saurabh
(33) Japan	26.09.2019	KAWATHEKAR, Devdatt, Vilas, Rao
(51) G06F 3/044	26.09.2019	(31) 19183751
(11) EP3657310	26.09.2019	(32) 02.07.2019
(21) EP19198889.8	27.09.2019	(33) European Patent Office (EPO)
(47) 01.11.2023	27.09.2019	(51) G06F 3/0482
(22) 23.09.2019	26.09.2019	G06F 3/04883
(54) TOUCH PANEL AND TOUCH DISPLAY DEVICE	26.09.2019	G06F 3/0484
(73) LG Display Co., Ltd.	26.09.2019	B60K 35/00
(72) LEE, HwiDeuk	26.09.2019	B60K 37/06
LEE, DeukSu	27.09.2019	(11) EP3726360
LEE, JaeGyun	27.09.2019	(21) EP18889928.0
LEE, Yangsik	26.09.2019	
(31) 20180146390	26.09.2019	
(32) 23.11.2018	26.09.2019	
(33) Korea (Republic)	25.09.2019	
(51) G06F 3/044	25.09.2019	
(11) EP3940517	09.09.2019	

(47) 01.11.2023	(73) Samsung Electronics Co., Ltd.	OBJECT BY MEANS OF A PRINTER,
(87) CN2018120214	(72) CHO, Hyunsoo	AND PRINTING SYSTEM HAVING AT
20.06.2019	KIM, Dong-Min	LEAST TWO PRINTERS
(22) 11.12.2018	(31) 20190094250	(73) Phoenix Contact GmbH & Co. KG
(54) DEVICE AND METHOD FOR	(32) 02.08.2019	(72) ISAAK, Peter
CONTROLLING VEHICLE	(33) Korea (Republic)	SCHIERHOLZ, Albrecht
COMPONENT	(51) G06F 3/06	(31) 102015119681
(73) NIO (Anhui) Holding Co., Ltd.	G06F 12/0804	(32) 13.11.2015
(72) DONG, Yiwei	G06F 13/16	(33) Germany
LIU, Yuxiang	G06F 12/126	(51) G06F 3/12
(31) 201711346266	(11) EP3230879	G06F 1/3203
(32) 15.12.2017	(21) EP15891389.7	(11) EP3783476
(33) China	(47) 01.11.2023	(21) EP20188957.3
(51) G06F 3/0488	(87) US2015051688	(47) 01.11.2023
G06F 3/0481	10.11.2016	(22) 31.07.2020
G06F 3/0482	(22) 23.09.2015	(54) APPARATUS AND METHOD FOR
G06F 9/451	(54) STORAGE MEMORY DIRECT ACCESS	REDUCING ENERGY USE IN A MULTI-
(11) EP3568758	(73) Hewlett Packard Enterprise Development	FUNCTION DEVICE
(21) EP18747651.0	LP	(73) Xerox Corporation
(47) 01.11.2023	(72) ZUCKERMAN, Boris	(72) VEERANATHAN, Thillaivasan
(87) KR2018001350	VOIGHT, Douglas L.	POULOSE, Lijo
09.08.2018	BHATTACHARYA, Suparna	SUBRAMANIYAN, Sudhakar
(22) 31.01.2018	(31) 2256CH2015	(31) 201916543740
(54) METHOD FOR SWITCHING	(32) 02.05.2015	(32) 19.08.2019
APPLICATIONS, AND ELECTRONIC	(33) India	(33) United States of America
DEVICE THEREOF	(51) G06F 3/06	(51) G06F 3/16
(73) Samsung Electronics Co., Ltd.	G06F 12/0862	G06F 3/048
(72) NAM, Seung Wook	(11) EP3791255	G06F 3/03
KIM, Youngmi	(21) EP19800211.5	(11) EP4057129
KIM, Youngseong	(47) 01.11.2023	(21) EP22171812.5
BANG, Hyo-Sang	(87) US2019028841	(47) 01.11.2023
LEE, Sangsu	14.11.2019	(22) 29.03.2019
LEE, Youngjay	(22) 24.04.2019	(54) ATTENTION AWARE VIRTUAL
LEE, Jae Myoung	(54) PREFETCH SIGNALING IN MEMORY	ASSISTANT DISMISSAL
LIM, Kyungsoo	SYSTEM OR SUB-SYSTEM	(73) Apple Inc.
YIM, Soe-Youn	(73) MICRON TECHNOLOGY, INC.	(72) HINDI, Musa M.
JUNG, Martin	(72) HASBUN, Robert, Nasry	DASARI, Rohit
CHO, Jinhoon	GANS, Dean, D.	TRAN, Trungtin
LEE, Hyun Yeul	DARUWALLA, Sharookh	(31) PA201870382
(31) 20170013728	(31) 201816116533	201816039099
(32) 31.01.2017	201815975617	201862679332 P
(33) Korea (Republic)	(32) 29.08.2018	(32) 12.06.2018
(51) G06F 3/0488	09.05.2018	18.07.2018
G06F 3/04886	(33) United States of America	01.06.2018
G06F 1/16	United States of America	(33) Denmark
A63F 13/2145	(51) G06F 3/12	United States of America
(11) EP3660650	(11) EP3786776	United States of America
(21) EP19200199.8	(21) EP20187127.4	(51) G06F 7/535
(47) 01.11.2023	(47) 01.11.2023	G06F 7/72
(22) 27.09.2019	(22) 22.07.2020	(11) EP3885897
(54) METHOD FOR OPERATING A	(54) IMAGE FORMING APPARATUS, IMAGE	(21) EP21174955.1
FOLDING DISPLAY SCREEN,	FORMING SYSTEM, AND METHOD	(47) 01.11.2023
TERMINAL AND STORAGE MEDIUM	OF CONTROLLING IMAGE FORMING	(22) 22.08.2019
(73) Beijing Xiaomi Mobile Software Co., Ltd.	APPARATUS	(54) FLOAT DIVISION BY CONSTANT
(72) LIANG, Zhe	(73) Toshiba Tec Kabushiki Kaisha	INTEGER USING A PREDETERMINED
LU, Zhenzhou	(72) YURUZUME, Satoshi	NUMBER OF MODULO UNITS
LI, Xiaodong	(31) 2019154084	(73) Imagination Technologies Limited
LI, Lan	(32) 26.08.2019	(72) KÁLLÉN, Jonas
(31) 201811458286	(33) Japan	ELLIOTT, Sam
(32) 30.11.2018	(51) G06F 3/12	(31) 201813701
(33) China	(11) EP3374851	(32) 22.08.2018
(51) G06F 3/06	(21) EP16795311.6	(33) United Kingdom
G06F 12/02	(47) 01.11.2023	(51) G06F 8/40
(11) EP3771976	(87) EP2016077411	(11) EP3198442
(21) EP20183702.8	18.05.2017	(21) EP15766835.1
(47) 01.11.2023	(22) 11.11.2016	(47) 01.11.2023
(22) 02.07.2020	(54) METHOD FOR INPUTTING PRINT	(87) EP2015071692
(54) STORAGE DEVICE	DATA FOR PRINTING ON A PRINT	31.03.2016

(22) 22.09.2015	(54) CLOUD-BASED DECISION	(32) 22.03.2019
(54) SPECULATIVE AND ITERATIVE	MANAGEMENT PLATFORM	22.03.2019
EXECUTION OF DELAYED DATA FLOW	(73) Fair Isaac Corporation	22.03.2019
GRAPHS	(72) PRISMOM, Joshua	(33) United States of America
(73) Commissariat à l'Énergie Atomique et	PALSKOI, Andrei	United States of America
aux Énergies Alternatives	CRIBBS, John Daniel	United States of America
(72) DUBRULLE, Paul	JORGE, Fernando Felipe Campos	(51) G06F 9/455
GOUBIER, Thierry	Donati	G06F 9/50
LOUISE, Stéphane	WELLS, Stuart Clarkson	(11) EP3571586
(31) 1458979	(31) 201461928951 P	(21) EP18709821.5
(32) 23.09.2014	(32) 17.01.2014	(47) 01.11.2023
(33) France	(33) United States of America	(87) US2018014128
(51) G06F 8/41	(51) G06F 9/448	26.07.2018
(11) EP3906470	G06F 9/54	(22) 18.01.2018
(21) EP19839485.0	H04W 12/08	(54) DYNAMIC AND APPLICATION-
(47) 01.11.2023	H04W 12/082	SPECIFIC VIRTUALIZED GRAPHICS
(87) US2019066678	(11) EP3726379	PROCESSING
09.07.2020	(21) EP18899249.9	(73) Amazon Technologies, Inc.
(22) 17.12.2019	(47) 01.11.2023	(72) FEATONBY, Malcolm
(54) TECHNIQUES FOR SCHEDULING	(87) CN2018121719	LIU, Yuxuan
INSTRUCTIONS IN COMPILING	18.07.2019	CHANDANI, Umesh
SOURCE CODE	(22) 18.12.2018	PHILLIPS, JR., John Merrill
(73) Microsoft Technology Licensing, LLC	(54) METHOD AND DEVICE FOR	WILT, Nicholas Patrick
(72) LI, Xiang	AUTHORIZATION WITHDRAWAL	BHAT, Adithya
DOUGHERTY, Michael Alan	(73) HUawei TECHNOLOGIES CO., LTD.	KURTZ, Douglas Cotton
PEIXOTTO, David McCarthy	(72) GE, Cuili	SURANI, Mihir Sadruddin
(31) 201816237012	YANG, Yanmei	(31) 201715409482
(32) 31.12.2018	(31) 201810035792	(32) 18.01.2017
(33) United States of America	(32) 15.01.2018	(33) United States of America
(51) G06F 8/41	(33) China	(51) G06F 9/455
(11) EP3143500	(51) G06F 9/455	G06F 9/50
(21) EP15726797.2	(11) EP4086763	G06F 9/54
(47) 01.11.2023	(21) EP22168881.5	G06F 13/40
(87) US2015030543	(47) 01.11.2023	(11) EP3519953
19.11.2015	(22) 19.04.2022	(21) EP17784751.4
(22) 13.05.2015	(54) SYSTEM FOR MANAGING ACCESS	(47) 01.11.2023
(54) HANDLING VALUE TYPES	RIGHTS FOR VIRTUAL MACHINES IN A	(87) US2017054175
(73) Oracle International Corporation	MULTI-CORE PROCESSING SYSTEM,	05.04.2018
(72) ROSE, John Robert	RELATED INTEGRATED CIRCUIT,	(22) 28.09.2017
GOETZ, Brian	DEVICE AND METHOD.	(54) INTERMEDIATE HOST INTEGRATED
STEELE, Guy	(73) STMicroelectronics Application GmbH	CIRCUIT BETWEEN A VIRTUAL
(31) 201514699129	STMicroelectronics International N.V.	MACHINE INSTANCE AND CUSTOMER
201461992753 P	(72) VITTORELLI, Boris	PROGRAMMABLE LOGIC
(32) 29.04.2015	BATRA, Simrata	(73) Amazon Technologies Inc.
13.05.2014	SOOD, Vivek Kumar	(72) DAVIS, Mark Bradley
(33) United States of America	BARANWAL, Deepak	KHAN, Asif
United States of America	(31) 202100011639	PETTEY, Christopher Joseph
(51) G06F 8/61	(32) 06.05.2021	IZENBERG, Erez
G06F 8/65	(33) Italy	BSHARA, Nafea
(11) EP3884375	(51) G06F 9/455	(31) 201615279164
(21) EP19769344.3	G06F 9/50	(32) 28.09.2016
(47) 01.11.2023	(11) EP3942409	(33) United States of America
(87) US2019049316	(21) EP20716004.5	(51) G06F 9/455
11.03.2021	(47) 01.11.2023	G06F 9/50
(22) 03.09.2019	(87) US2020020209	G06F 21/53
(54) ACCELERATING APPLICATION AND	01.10.2020	H04L 9/40
SUB-PACKAGE INSTALLATIONS	(22) 27.02.2020	(11) EP3189646
(73) Google LLC	(54) BIN-PACKING VIRTUAL MACHINE	(21) EP15837520.4
(72) PATTERSON, Matthew	WORKLOADS USING FORECASTED	(47) 01.11.2023
GAO, Liyuan	CAPACITY USAGE	(87) US2015047922
(51) G06F 9/44	(73) Amazon Technologies, Inc.	10.03.2016
G06F 8/34	(72) GABRIELSON, Jacob Adam	(22) 01.09.2015
G06F 8/36	BURGIN, Joshua M.	(54) METHOD AND APPARATUS
G06F 9/445	BONNETT, Brad	FOR AUTOMATING SECURITY
(11) EP3982256	TANG, Kai Fan	PROVISIONING OF WORKLOADS
(21) EP21196450.7	(31) 201916362545	(73) CA, Inc.
(47) 01.11.2023	201916362542	(72) BANERJEE, Deb
(22) 08.01.2015	201916362539	(31) 201414474477

(32) 02.09.2014	G06F 15/78	201414460312
(33) United States of America	(11) EP3542269	201414460314
(51) G06F 9/455	(21) EP17809409.0	201414319902
H04L 67/00	(47) 01.11.2023	201414319880
H04L 67/63	(87) US2017061190	(32) 12.12.2014
(11) EP3872630	24.05.2018	11.11.2014
(21) EP21169626.5	(22) 10.11.2017	17.09.2014
(47) 01.11.2023	(54) NETWORKED PROGRAMMABLE	17.09.2014
(22) 21.04.2021	LOGIC SERVICE PROVIDER	11.09.2014
(54) REQUEST PROCESSING METHOD	(73) Amazon Technologies, Inc.	19.08.2014
AND APPARATUS, ELECTRONIC	(72) JOHNSON, Robert, Michael	14.08.2014
DEVICE, AND COMPUTER STORAGE	BSHARA, Nafea	14.08.2014
MEDIUM	WILSON, Matthew, Shawn	30.06.2014
(73) BEIJING BAIDU NETCOM SCIENCE	(31) 201615354765	30.06.2014
AND TECHNOLOGY CO. LTD.	(32) 17.11.2016	(33) United States of America
(72) GAO, Yan	(33) United States of America	United States of America
SUN, Yixing	(51) G06F 9/50	United States of America
(31) 202010603582	G06N 3/063	United States of America
(32) 29.06.2020	G06N 3/045	United States of America
(33) China	G06N 3/0464	United States of America
(51) G06F 9/48	(11) EP3404587	United States of America
G06F 9/50	(21) EP17738111.8	United States of America
(11) EP3458956	(47) 01.11.2023	United States of America
(21) EP17772807.8	(87) CN2017070628	United States of America
(47) 01.11.2023	20.07.2017	(51) G06F 9/54
(87) US2017051202	(22) 09.01.2017	(11) EP3572942
29.03.2018	(54) CNN PROCESSING METHOD AND	(21) EP19175500.8
(22) 12.09.2017	DEVICE	(47) 01.11.2023
(54) PEER-TO-PEER DISTRIBUTED	(73) Tencent Technology (Shenzhen)	(22) 20.05.2019
COMPUTING SYSTEM FOR	Company Limited	(54) INDIRECT COMMAND BUFFERS FOR
HETEROGENEOUS DEVICE TYPES	(72) ZHU, Ben	GRAPHICS PROCESSING
(73) Apple Inc.	(31) 201610017755	(73) Apple Inc.
(72) WILLIAMS, Oliver, M.	(32) 12.01.2016	(72) Imbrogno, Michael
(31) 201615274748	(33) China	Valient, Michal
(32) 23.09.2016	(51) G06F 9/50	(31) 201815984931
(33) United States of America	G06N 99/00	(32) 21.05.2018
(51) G06F 9/50	(11) EP3161635	(33) United States of America
(11) EP3705996	(21) EP15739127.7	(51) G06F 9/54
(21) EP20166685.6	(47) 01.11.2023	(11) EP2506147
(47) 01.11.2023	(87) US2015038608	(21) EP12161064.6
(22) 21.09.2018	07.01.2016	(47) 01.11.2023
(54) METHOD FOR USING A COMPUTER	(22) 30.06.2015	(22) 23.03.2012
UNIT AND VEHICLE	(54) MACHINE LEARNING SERVICE	(54) EPOLL OPTIMISATIONS
(73) Mercedes-Benz Group AG	(73) Amazon Technologies, Inc.	(73) Xilinx, Inc.
(72) Weber, Thomas	(72) DIRAC, Leo Parker	(72) Pope, Steve
(31) 102017008956	CORREA, Nicolle M.	Riddoch, David
(32) 25.09.2017	INGERMAN, Aleksandr Mikhaylovich	(31) 201161470396 P
(33) Germany	KRISHNAN, Sriram	(32) 31.03.2011
(51) G06F 9/50	LI, Jin	(33) United States of America
G06F 11/34	PUVVADI, Sudhakar Rao	(51) G06F 9/54
(11) EP2710461	ZARANDIOON, Saman	H04L 67/55
(21) EP12790012.4	DANNAKER, Charles Eric	H04W 68/00
(47) 01.11.2023	RAMAKRISHNAN, Rakesh	(11) EP3090342
(87) US2012038642	ZHENG, Tianming	(21) EP14827986.2
29.11.2012	ZHUO, Donghui	(47) 01.11.2023
(22) 18.05.2012	AGARWAL, Tarun	(87) US2014072556
(54) CROSS-CLOUD COMPUTING FOR	STEELE, Robert Matthias	09.07.2015
CAPACITY MANAGEMENT AND	QIAN, Jun	(22) 29.12.2014
DISASTER RECOVERY	BRUECKNER, Michael	(54) METHODS, SYSTEMS, AND MEDIA
(73) Microsoft Technology Licensing, LLC	HERBRICH, Ralf	FOR MANAGING NOTIFICATIONS
(72) WATSON, Eric B.	BLICK, Daniel	DIRECTED TO MULTIPLE
FARHANGI, Alireza	LEE, Polly Po Yee	APPLICATIONS INSTALLED ON A
IYER, Kannan C.	(31) 201414569458	USER DEVICE
(31) 201113111953	201414538723	(73) Google LLC
(32) 20.05.2011	201414489448	(72) LEWIS, Justin
(33) United States of America	201414489449	DAVERIN, Joseph
(51) G06F 9/50	201414484201	(31) 201314145135
	201414463434	(32) 31.12.2013



(33) United States of America	(47) 01.11.2023	SOTOUDEH, Seyed Yahya
(51) G06F 11/10	(87) US2020025864	TOLL, Bret L.
G11C 29/42	22.10.2020	RAPPOPORT, Lihu
G11C 29/52	(22) 31.03.2020	PAPWORTH, David
(11) EP4030435	(54) TIMEOUT MODE FOR STORAGE	ALLEN, James D.
(21) EP21859806.8	DEVICES	(51) G06F 12/0811
(47) 01.11.2023	(73) Microsoft Technology Licensing, LLC	G06F 12/0888
(87) CN2021100853	(72) LEE, Scott Chao-Chueh	G06F 12/0897
03.03.2022	MATTHEW, Bryan Stephen	(11) EP3580660
(22) 18.06.2021	SHANKAR, Vinod R.	(21) EP18702533.3
(54) DATA TRANSMISSION CIRCUIT AND	(31) 201916388114	(47) 01.11.2023
MEMORY	(32) 18.04.2019	(87) GB2018050213
(73) Changxin Memory Technologies, Inc.	(33) United States of America	16.08.2018
(72) Ji, Kangling	(51) G06F 11/36	(22) 25.01.2018
Li, Hongwen	G06F 8/75	(54) CACHE BYPASS
(31) 202010877861	G06N 20/00	(73) ARM Limited
(32) 27.08.2020	(11) EP3740873	(72) JALAL, Jamshed
(33) China	(21) EP19703000.0	FILIPPO, Michael
(51) G06F 11/22	(47) 01.11.2023	MATHEWSON, Bruce James
F24F 11/38	(87) US2019013419	MANNAVA, Phanindra Kumar
F24F 11/88	25.07.2019	(31) 201715427409
G06F 11/07	(22) 14.01.2019	(32) 08.02.2017
F24F 11/50	(54) TIME-WEIGHTED RISKY CODE	(33) United States of America
F24F 11/54	PREDICTION	(51) G06F 12/0831
F24F 11/63	(73) Microsoft Technology Licensing, LLC	G06F 12/1018
(11) EP3819769	(72) CHENG, Xi	G06F 12/1045
(21) EP19910476.1	SUNDARESAN, Neelakantan	(11) EP3534267
(47) 01.11.2023	TANG, Mingwei	(21) EP19159829.1
(87) JP2019051573	(31) 201816005663	(47) 01.11.2023
23.07.2020	201862619810 P	(22) 27.02.2019
(22) 27.12.2019	(32) 11.06.2018	(54) COHERENCY MANAGER
(54) ENVIRONMENT CONTROL SYSTEM	21.01.2018	(73) Imagination Technologies Limited
AND AIR CONDITIONER OR AIR-	(33) United States of America	(72) ROBINSON, Martin John
CONDITIONING SYSTEM	United States of America	LANDERS, Mark
(73) DAIKIN INDUSTRIES, LTD.	(51) G06F 12/0804	(31) 201803288
(72) YAMADA, Eisuke	(11) EP3036641	(32) 28.02.2018
NAKAGAWA, Akira	(21) EP14837367.3	(33) United Kingdom
MORITA, Kouhei	(47) 01.11.2023	(51) G06F 12/0864
(31) 2019006721	(87) US2014051691	(11) EP3814912
(32) 18.01.2019	26.02.2015	(21) EP18924868.5
(33) Japan	(22) 19.08.2014	(47) 01.11.2023
(51) G06F 11/30	(54) NON-DESTRUCTIVE WRITE/READ	(87) CN2018093549
G06F 17/40	LEVELING	02.01.2020
G06F 11/36	(73) Everspin Technologies, Inc.	(22) 29.06.2018
G06F 8/41	(72) ANDRE, Thomas	(54) TECHNIQUES TO SUPPORT A
G06F 8/75	(31) 201361868221 P	HOLISTIC VIEW OF CACHE CLASS OF
(11) EP3789882	(32) 21.08.2013	SERVICE FOR A PROCESSOR CACHE
(21) EP20173279.9	(33) United States of America	(73) INTEL Corporation
(47) 01.11.2023	(51) G06F 12/0808	(72) BHANDARU, Malini K.
(22) 06.05.2020	G06F 12/0817	GASPARAKIS, Iosif
(54) AUTOMATIC CONFIGURATION OF	G06F 12/0831	RANGANATH, Sunku
LOGGING INFRASTRUCTURE FOR	(11) EP3889787	QIAO, Liyong
SOFTWARE DEPLOYMENTS USING	(21) EP21168711.6	ZANG, Rui
SOURCE CODE	(47) 01.11.2023	ILANGOVAN, Dakshina
(73) Palantir Technologies Inc.	(22) 12.12.2016	FENG, Shaohe
(72) ROSS, James	(54) APPARATUSES AND METHODS FOR A	VERPLANKE, Edwin
FINK, Robert	PROCESSOR ARCHITECTURE	AUTEE, Priya
(31) 201916670839	(73) Intel Corporation	YANG, Lin A.
201962897474 P	(72) BRANDT, Jason W.	(51) G06F 13/12
(32) 31.10.2019	CHAPPELL, Robert S.	G06F 13/28
09.09.2019	CORBAL, Jesus	G06F 13/38
(33) United States of America	GROCHOWSKI, Edward T.	H04L 47/22
United States of America	GUNTHER, Stephen H.	H04L 47/56
(51) G06F 11/34	GUY, Buford M.	H04L 49/901
G06F 11/07	HUFF, Thomas R.	H04L 49/90
G06F 3/06	HUGHES, Christopher J.	(11) EP4006735
(11) EP3956771	OULD-AHMED-VALL, Elmoustapha	(21) EP22151467.2
(21) EP20723240.6	SINGHAL, Ronak	(47) 01.11.2023

(22) 24.09.2019	(33) United States of America	(54) ENHANCED PROCESSING OF TIME
(54) FINE GRAIN TRAFFIC SHAPING	United States of America	SERIES DATA VIA PARALLELIZATION
OFFLOAD FOR A NETWORK	(51) G06F 16/17	OF INSTRUCTIONS
INTERFACE CARD	H04L 9/32	(73) Palantir Technologies Inc.
(73) Google LLC	(11) EP3623963	(72) Higgins, Andrew
(72) CHANDRA, Prashant	(21) EP18866263.9	Powell, Thomas
DUKKIPATI, Nandita	(47) 01.11.2023	Raschkowski, Willi
VALANCIUS, Vytautas	(87) CN2018107512	Woodward, Samantha
(31) 201816146373	18.04.2019	Duffield, Benjamin
(32) 28.09.2018	(22) 26.09.2018	(31) 201916533016
(33) United States of America	(54) LOG ENTRY DUPLICATION	201862733515 P
(51) G06F 13/38	METHOD AND DEVICE, COMPUTER	(32) 06.08.2019
G06F 13/40	EQUIPMENT, AND STORAGE MEDIUM	19.09.2018
(11) EP3557430	(73) Tencent Technology (Shenzhen)	(33) United States of America
(21) EP19167569.3	Company Limited	United States of America
(47) 01.11.2023	(72) GUO, Rui	(51) G06F 16/25
(22) 05.04.2019	LI, Maocai	(11) EP3937027
(54) SYSTEM AND METHOD FOR	ZHANG, Jianjun	(21) EP21174227.5
MAXIMIZING PORT BANDWIDTH WITH	WANG, Zongyou	(47) 01.11.2023
MULTI-CHANNEL DATA PATHS	LIANG, Jun	(22) 18.05.2021
(73) AVAGO TECHNOLOGIES	TU, Haitao	(54) METHOD AND APPARATUS FOR
INTERNATIONAL SALES PTE. LIMITED	ZHAO, Qi	PROCESSING LABEL DATA, DEVICE,
(72) Wu, Kenny	LIU, Binhua	AND STORAGE MEDIUM
Gervasio Jr., Gregorio	ZHU, Dawei	(73) BEIJING BAIDU NETCOM SCIENCE
Chhabra, Lalit	QIN, Qing	AND TECHNOLOGY CO., LTD.
Shenoy, Ravi	(31) 201710949026	(72) QUAN, Weilong
(31) 201815956633	(32) 12.10.2017	WANG, Dong
(32) 18.04.2018	(33) China	ZHAO, Yuyang
(33) United States of America	(51) G06F 16/22	(31) 202011037355
(51) G06F 13/38	(11) EP3814928	(32) 27.09.2020
G06F 13/40	(21) EP19783855.0	(33) China
G06F 13/42	(47) 01.11.2023	(51) G06F 16/332
H04L 1/00	(87) US2019052731	G06F 16/33
H04L 1/08	02.04.2020	(11) EP3635572
G06F 13/12	(22) 24.09.2019	(21) EP18793723.0
G06F 11/10	(54) SYSTEM AND METHOD FOR EARLY	(47) 01.11.2023
H04L 12/12	REMOVAL OF TOMBSTONE RECORDS	(87) US2018053454
(11) EP3822802	IN DATABASE	04.04.2019
(21) EP21150857.7	(73) salesforce.com, inc.	(22) 28.09.2018
(47) 01.11.2023	(72) FANGHAENEL, Thomas	(54) SUBQUERY GENERATION FROM A
(22) 24.03.2020	CHONG, Terry	QUERY
(54) ORDERED SETS FOR HIGH-SPEED	MARTIN, Jameison Bear	(73) Google LLC
INTERCONNECTS	(31) 201816139717	(72) VUSKOVIC, Vladimir
(73) INTEL Corporation	(32) 24.09.2018	LANGE, Joseph
(72) DAS SHARMA, Debendra	(33) United States of America	BEHZADI, Behshad
(31) 201916723868	(51) G06F 16/23	NOWAK-PRZYGODZKI, Marcin M.
201962846913 P	(11) EP3814930	(31) 201762564800 P
(32) 20.12.2019	(21) EP19783856.8	(32) 28.09.2017
13.05.2019	(47) 01.11.2023	(33) United States of America
(33) United States of America	(87) US2019052733	(51) G06F 16/438
United States of America	02.04.2020	G06F 16/683
(51) G06F 13/40	(22) 24.09.2019	(11) EP3839766
G06F 3/06	(54) SYSTEM AND METHOD FOR BULK	(21) EP20215039.7
(11) EP3608791	REMOVAL OF RECORDS IN A	(47) 01.11.2023
(21) EP19190605.6	DATABASE	(22) 17.12.2020
(47) 01.11.2023	(73) Salesforce.com, Inc.	(54) SYSTEMS AND METHODS FOR
(22) 07.08.2019	(72) FANGHAENEL, Thomas	A MUSIC FEATURE FILE AND
(54) NON-VOLATILE MEMORY SWITCH	(31) 201816140523	COORDINATED LIGHT SHOW
WITH HOST ISOLATION	(32) 24.09.2018	(73) Harman Professional Denmark ApS
(73) Marvell World Trade Ltd.	(33) United States of America	(72) RASMUSSEN, Niels, Joergen
(72) GUO, Liping	(51) G06F 16/2452	HANSEN, Claus, Ellevang
LI, Yingdong	G06F 16/2453	(31) 201962951863 P
FUREY, Scott	(11) EP3627347	(32) 20.12.2019
SURI, Salil	(21) EP19194745.6	(33) United States of America
(31) 201916532272	(47) 01.11.2023	(51) G06F 16/55
201862715713 P	(22) 30.08.2019	G06N 3/084
(32) 05.08.2019		G06T 7/246
07.08.2018		G06V 10/44

G06V 10/82	G06N 3/045	RUMBLE, Terezinha
G06V 20/52	G06N 3/063	GRAMMER, George C.
G06N 3/045	G06N 3/084	LAMARCA, Michael
G06V 10/764	(11) EP3346392	(31) 201815911613
(11) EP3471026	(21) EP17207877.6	201762561743 P
(21) EP18192821.9	(47) 01.11.2023	(32) 05.03.2018
(47) 01.11.2023	(22) 15.12.2017	22.09.2017
(22) 05.09.2018	(54) DISTRIBUTED MATRIX	(33) United States of America
(54) METHOD FOR ACQUIRING BOUNDING BOX CORRESPONDING TO AN OBJECT IN AN IMAGE BY USING CONVOLUTIONAL NEURAL NETWORK INCLUDING TRACKING NETWORK AND COMPUTING DEVICE USING THE SAME	MULTIPLICATION FOR NEURAL NETWORKS	United States of America
(73) StradVision, Inc.	(73) INTEL Corporation	(51) G06F 21/10
(72) KIM, Yongjoong	(72) KORTHIKANTI, Vijay Anand R.	G06F 21/62
NAM, Woonhyun	KLOSS, Carey K.	(11) EP3964983
BOO, Sukhoon	KALAI AH, Aravind	(21) EP21181426.4
SUNG, Myungchul	KHOSROW SHAHI, Amir	(47) 01.11.2023
YEO, Donghun	(31) 201615395527	(22) 24.06.2021
RYU, Wooju	(32) 30.12.2016	(54) DEMAND BASED DATA ACQUISITION METHODS USING A TRUSTED DEVICE
JANG, Taewong	(33) United States of America	(73) Alipay (Hangzhou) Information Technology Co., Ltd.
JEONG, Kyungjoong	(51) G06F 18/2413	(72) YANG, Wenyu
JE, Hongmo	G06V 10/44	YANG, Renhui
CHO, Hojin	G06V 20/69	LIU, Qin
(31) 201715783442	(11) EP4030340	CHEN, Yuan
(32) 13.10.2017	(21) EP21152396.4	LI, Shubo
(33) United States of America	(47) 01.11.2023	XIONG, Qin
(51) G06F 16/903	(22) 19.01.2021	(31) 202010921425
G11C 16/08	(54) METHOD FOR DETECTION OF PRESENCE OF DIFFERENT ANTINUCLEAR ANTIBODY FLUORESCENCE PATTERN TYPES WITHOUT COUNTER STAINING AND DEVICE FOR SAME	(32) 04.09.2020
G11C 16/04	(73) EUROIMMUN Medizinische Labordiagnostika AG	(33) China
G06F 3/06	(72) KRAUSE, Christopher	(51) G06F 21/30
G06F 16/245	KRAUTH, Jens	G06F 21/31
(11) EP3920050	GERLACH, Stefan	G06F 21/32
(21) EP21182175.6	MARZ AHL, Christian	G06F 21/33
(47) 01.11.2023	HAHN, Melanie	H04L 9/40
(22) 06.09.2019	VOIGT, Jörn	H04L 9/32
(54) ON-CHIP NON-VOLATILE MEMORY (NVM) SEARCH	(51) G06F 18/25	G06F 21/64
(73) Western Digital Technologies, Inc.	G06V 10/80	G06F 21/45
(72) SHARON, Eran	G06V 20/10	H04L 9/00
MARCU, Alon	(11) EP2583252	(11) EP4050503
BENISTY, Shay	(21) EP11796407.2	(21) EP21205772.3
HAHN, Judah Gamliel	(47) 01.11.2023	(47) 01.11.2023
ALROD, Idan	(87) US2011040612	(22) 03.10.2016
BAZARSKY, Alexander	22.12.2011	(54) METHODS AND SYSTEMS FOR IDENTITY CREATION, VERIFICATION AND MANAGEMENT
NAVON, Ariel	(22) 16.06.2011	(73) Financial & Risk Organisation Limited
ZAMIR, Ran	(54) FOREST INVENTORY ASSESSMENT USING REMOTE SENSING DATA	(72) COSTA FAIDELLA, David
(31) 201816232639	(73) Yale University	SCHUKAI, Robert Joseph
(32) 26.12.2018	(72) PARISA, Zachary	MANUEL, Scott Ryan
(33) United States of America	(31) 397867 P	PIERLEONI, Marco
(51) G06F 17/14	(32) 16.06.2010	THOMAS, Jason A.
H03H 17/02	(33) United States of America	(31) 201562270658 P
G01S 7/288	(51) G06F 21/00	(32) 22.12.2015
(11) EP3809286	G06Q 20/00	(33) United States of America
(21) EP20201823.0	G06Q 10/06	(51) G06F 21/31
(47) 01.11.2023	(11) EP3460691	G06F 21/32
(22) 14.10.2020	(21) EP18195994.1	G06F 21/62
(54) METHOD FOR FILTERING WITH REDUCED LATENCY AND ASSOCIATED DEVICES	(47) 01.11.2023	G06F 21/33
(73) THALES	(22) 21.09.2018	G06F 21/45
(72) HODE, Jean-Michel	(54) METHODS AND APPARATUS FOR MANAGEMENT OF INTRUSION DETECTION SYSTEMS USING VERIFIED IDENTITY	H04L 9/40
(31) 1911523	(73) Johnson Controls Tyco IP Holdings LLP	(11) EP3639501
(32) 16.10.2019	(72) JARVIS, Graeme	(21) EP18816540.1
(33) France		(47) 01.11.2023
(51) G06F 17/16		(87) US2018037355
		20.12.2018
		(22) 13.06.2018
		(54) SYSTEMS AND METHODS FOR DIFFERENTIATED IDENTIFICATION

FOR CONFIGURATION AND OPERATION	(73) Johnson Controls Tyco IP Holdings LLP	(51) G06F 21/57
(73) Young Jones, June	(72) JARVIS, Graeme	G06F 9/44
(72) Jones, Michael Timothy	RUMBLE, Terezinha	G06F 11/30
(31) 201816000832	GRAMMER, George C.	G06F 8/61
201762520462 P	LAMARCA, Michael	G06F 8/654
(32) 05.06.2018	(31) 201815911560	(11) EP4042306
15.06.2017	201762561743 P	(21) EP20764879.1
(33) United States of America	(32) 05.03.2018	(47) 01.11.2023
United States of America	22.09.2017	(87) US2020046875
(51) G06F 21/31	(33) United States of America	15.04.2021
G06F 21/64	United States of America	(22) 19.08.2020
H04L 9/32	(51) G06F 21/36	(54) SECURE INSTALLATION OF
H04L 9/00	G06F 21/57	BASEBOARD MANAGEMENT
G06F 21/32	G06F 21/62	CONTROLLER FIRMWARE VIA A
(11) EP3794475	G06F 21/78	PHYSICAL INTERFACE
(21) EP19726983.0	G06F 21/82	(73) Microsoft Technology Licensing, LLC
(47) 01.11.2023	G06F 9/455	(72) LADKANI, Neeraj
(87) EP2019063542	(11) EP3623979	KELLY, Bryan David
28.11.2019	(21) EP19196829.6	(31) 201916595159
(22) 24.05.2019	(47) 01.11.2023	(32) 07.10.2019
(54) GENERATING ELECTRONIC	(22) 11.09.2019	(33) United States of America
SIGNATURES	(54) METHOD FOR SECURE STORAGE	(51) G06F 21/57
(73) Yoti Holding Limited	IN A NETWORK OF AN IMAGE OF A	H04L 9/06
(72) HUSSAIN, Alttaf	CONTAINER IN A DIRECTORY OF	H04L 9/32
(31) 201812172	CONTAINERS	G06F 8/65
201808656	(73) Bull SAS	H04L 9/08
(32) 26.07.2018	(72) BOUAZIZ, M'hamed	H04L 9/40
25.05.2018	(31) 1858165	G06F 21/44
(33) United Kingdom	(32) 12.09.2018	G06F 9/445
United Kingdom	(33) France	(11) EP3920063
(51) G06F 21/32	(51) G06F 21/54	(21) EP19913150.9
G06F 3/0488	H04L 9/32	(47) 01.11.2023
G06F 3/01	H04L 9/00	(87) JP2019050128
G06F 21/36	(11) EP3979110	06.08.2020
H04L 9/40	(21) EP21211138.9	(22) 20.12.2019
(11) EP3403211	(47) 01.11.2023	(54) SAFETY SYSTEM AND MAINTENANCE
(21) EP16822803.9	(22) 26.10.2018	METHOD
(47) 01.11.2023	(54) COMPUTER SYSTEM AND METHOD	(73) OMRON Corporation
(87) US2016064820	FOR DISTRIBUTED PRIVACY-	(72) MUNETA, Yasuo
20.07.2017	PRESERVING SHARED EXECUTION	NAGATA, Yuta
(22) 02.12.2016	OF ONE OR MORE PROCESSES	(31) 2019114342
(54) USER INTERFACE FOR A MOBILE	(73) Digital Asset (Switzerland) GmbH	2019012603
DEVICE	(72) LITSIOS, James	(32) 20.06.2019
(73) Qualcomm Incorporated	MEIER, Simon	28.01.2019
(72) OGUZ, Seyfullah Halit	MARIC, Ognjen	(33) Japan
EL-MALEH, Khaled Helmi	BLEIKERTZ, Sören	Japan
SENSHARMA, Saurabh	MAZZOLI, Francesco	(51) G06F 21/60
KULATHU RAMACHANDRAN, Arvind	(31) 2017904367	G06F 21/55
(31) 201614996943	(32) 27.10.2017	(11) EP3563284
(32) 15.01.2016	(33) Australia	(21) EP17826366.1
(33) United States of America	(51) G06F 21/55	(47) 01.11.2023
(51) G06F 21/34	G06F 21/57	(87) US2017066238
G06Q 20/32	H04L 9/40	05.07.2018
G06Q 20/36	(11) EP3876122	(22) 14.12.2017
G06Q 20/38	(21) EP21158994.0	(54) INTELLIGENCE AND ANALYSIS
G06Q 20/40	(47) 01.11.2023	DRIVEN SECURITY AND COMPLIANCE
G06Q 50/26	(22) 24.02.2021	RECOMMENDATIONS
G06Q 50/30	(54) SYSTEM, METHOD AND	(73) Microsoft Technology Licensing, LLC
G07F 17/00	COMPUTER READABLE MEDIUM	(72) LARSON, Karissa C.
G06F 21/00	FOR IDENTIFYING MISSING	SU, Churli
(11) EP3460693	ORGANIZATIONAL SECURITY	LIANG, Wenjie
(21) EP18196220.0	DETECTION SYSTEM RULES	CHEN, Binyan
(47) 01.11.2023	(73) CyberProof Israel LTD.	APPLEBY, Ben
(22) 24.09.2018	(72) ALSHECH, Eran	JANARDHAN, Anupama
(54) METHODS AND APPARATUS FOR	AMRAM, Adam	XU, Ning
IMPLEMENTING IDENTITY AND ASSET	(31) 202062983678 P	(31) 201715462466
SHARING MANAGEMENT	(32) 01.03.2020	201662440934 P
	(33) United States of America	(32) 17.03.2017

30.12.2016	G06F 16/215	(21) EP19881124.2
(33) United States of America	(11) EP3798891	(47) 01.11.2023
United States of America	(21) EP20195915.2	(87) JP2019034741
(51) G06F 21/60	(47) 01.11.2023	14.05.2020
G06F 21/62	(22) 14.09.2020	(22) 04.09.2019
(11) EP3796197	(54) SYSTEMS AND METHODS FOR	(54) VIBRATION ANALYSIS OF A
(21) EP19802678.3	DETECTING PERSONALLY	LAMINATED IRON CORE
(47) 01.11.2023	IDENTIFIABLE INFORMATION	(73) JFE Steel Corporation
(87) CN2019086689	(73) Tata Consultancy Services Limited	(72) NAMIKAWA, Misao
21.11.2019	(72) Kulkarni, Aniket Dilip	(31) 2018209138
(22) 13.05.2019	Patwardhan, Nikhil	(32) 06.11.2018
(54) INFORMATION PROCESSING	Dani, Jayant	(33) Japan
METHOD AND INFORMATION	ROY, Ashim	(51) G06F 30/12
PROCESSING SYSTEM FOR	Desik, Anantha	G06F 30/17
ENCRYPTOR	Paul, Spondita	(11) EP3751436
(73) Netsunion Clearing Corporation	(31) 201921039258	(21) EP19747361.4
(72) TENG, Zhizhang	(32) 27.09.2019	(47) 01.11.2023
ZHAO, Tong	(33) India	(87) JP2019003874
SHEN, Cunjing	(51) G06F 21/62	08.08.2019
LI, Chaoqun	G06F 21/64	(22) 04.02.2019
(31) 201810455257	G06Q 20/02	(54) DESIGN ASSISTANCE SYSTEM
(32) 14.05.2018	G06Q 20/10	(73) Misumi Corporation
(33) China	G06Q 20/38	(72) UZAWA, Hiroyuki
(51) G06F 21/60	G06Q 20/32	NIRE, Tomohiro
G06F 21/64	H04L 9/32	(31) 2018018337
G06F 21/57	H04L 9/40	(32) 05.02.2018
G06F 21/14	H04W 12/02	(33) Japan
(11) EP3731127	H04W 12/108	(51) G06F 30/13
(21) EP19220257.0	H04W 12/60	B26D 5/00
(47) 01.11.2023	H04L 9/00	B28D 7/00
(22) 31.12.2019	G06Q 30/06	B26F 1/38
(54) CONTROL SYSTEM AND	G06Q 40/00	(11) EP3944120
METHOD THEREOF FOR SECURE	G06Q 20/40	(21) EP21186769.2
MANUFACTURING	(11) EP3816923	(47) 01.11.2023
(73) ECOLUX Technology Co., Ltd.	(21) EP19880093.0	(22) 20.07.2021
(72) LAI, Yu-Cheng	(47) 01.11.2023	(54) METHOD FOR THE DETERMINATION
LU, Chia-Yen	(87) CN2019104955	OF BLANK PARAMETERS FOR
(31) 108114769	07.05.2020	PANELS AND METHOD FOR
(32) 26.04.2019	(22) 09.09.2019	PRODUCING PANELS FOR THE
(33) Taiwan, Chinese Taipei	(54) BLOCKCHAIN-BASED PRIVATE	PANELLING OF A SURFACE
(51) G06F 21/60	TRANSACTIONS AND USAGE	(73) artEmotional GmbH
H04W 12/02	METHOD AND APPARATUS	(72) Nabbefeld, Jonas
H04W 4/029	THEREFOR	Bangert, Dennis
G06V 10/22	(73) Advanced New Technologies Co., Ltd.	Keller, Jan-Peter
G06V 20/52	(72) PAN, Dong	(31) 102020004351
(11) EP3862902	(31) 201811283594	(32) 20.07.2020
(21) EP21155627.9	(32) 31.10.2018	(33) Germany
(47) 01.11.2023	(33) China	(51) G06F 30/23
(22) 05.02.2021	(51) G06F 30/00	G06F 111/10
(54) SYSTEM AND METHOD FOR PRIVACY-	(11) EP3206143	(11) EP3485404
AWARE ANALYSIS OF VIDEO	(21) EP16201218.1	(21) EP17761931.9
STREAMS	(47) 01.11.2023	(47) 01.11.2023
(73) C2RO Cloud Robotics Inc.	(22) 29.11.2016	(87) IN2017050295
(72) BADALONE, Riccardo	(54) SYSTEM AND METHOD FOR	25.01.2018
FAROKHI, Soodeh	MANAGING VARIATIONS IN A	(22) 18.07.2017
HAJI ABOLHASSANI, Amir Abbas	PRODUCT STRUCTURE FOR A	(54) EIGEN AUGMENTATION METHODS
DUGUAY, Felix-Olivier	PRODUCT	FOR ELECTROMAGNETIC
BARRETT, Neil	(73) The Boeing Company	MODELLING AND SIMULATION
ERFANI, Mostafa	(72) CALLAHAN, Sean M.	(73) Indian Institute of Science
VARGAS MORENO, Aldo Enrique	PUTERBAUGH, Kevin D.	Bosch Global Software Technologies
(31) 202063085515 P	(31) 201615042933	Private Limited
202062970482 P	(32) 12.02.2016	(72) GOPE, Dipanjan
(32) 30.09.2020	(33) United States of America	CHATTERJEE, Gourav
05.02.2020	(51) G06F 30/00	DAS, Arkaprovo
(33) United States of America	G01N 29/04	VEDICHERLA, Sreenivasulu Reddy
United States of America	G01H 13/00	(31) 201641024555
(51) G06F 21/62	G01N 3/32	(32) 18.07.2016
G06F 16/28	(11) EP3862904	(33) India

(51) G06K 7/10	G08B 13/24	(51) G06K 19/077
(11) EP3743847	(11) EP4026042	(11) EP4198823
(21) EP19704509.9	(21) EP20780409.7	(21) EP22155993.3
(47) 01.11.2023	(47) 01.11.2023	(47) 01.11.2023
(87) US2019014753	(87) US2020049587	(22) 09.02.2022
01.08.2019	11.03.2021	(54) SMART CARD WITH RADIO
(22) 23.01.2019	(22) 05.09.2020	ANTENNAS
(54) MOBILE HIGH DENSITY READ	(54) INCREASED POWER TAG READ	(73) IDEMIA The Netherlands B.V.
CHAMBERS FOR SCANNING RFID	CYCLE	(72) ALI, Ahmed
TAGGED ITEMS	(73) Sensormatic Electronics LLC	(31) 2113850
(73) Avery Dennison Retail Information	(72) TRIVELPIECE, Steve E.	(32) 17.12.2021
Services LLC	BERGMAN, Adam S.	(33) France
(72) ROTH, Mark	RIGGERT, Eric F.	<hr/>
(31) 201862620527 P	SOTO, Manuel A.	(51) G06M 1/04
(32) 23.01.2018	(31) 202017012752	A61M 15/00
(33) United States of America	201962897248 P	(11) EP4014164
<hr/>	(32) 04.09.2020	(21) EP20758296.6
(51) G06K 7/10	06.09.2019	(47) 01.11.2023
(11) EP4036789	(33) United States of America	(87) GB2020051939
(21) EP22163691.3	United States of America	18.02.2021
(47) 01.11.2023	<hr/>	(22) 13.08.2020
(22) 17.04.2017	(51) G06K 17/00	(54) DOSE COUNTING MECHANISM
(54) INDICIA READING DEVICE AND	G06K 19/07	(73) SANDOZ AG
METHODS FOR DECODING	G06K 7/10	(72) COTTON, Matthew Richard
DECODABLE INDICIA EMPLOYING	G06F 3/00	COCKER, Robin Craig
STEREOSCOPIIC IMAGING	(11) EP4033407	BLAIR, Arlo Christopher
(73) Hand Held Products, Inc.	(21) EP21305094.1	CHRISTIE, Ewen Humphrey
(72) THURIES, Serge	(47) 01.11.2023	(31) 201911576
ACKLEY, H. Sprague	(22) 26.01.2021	(32) 13.08.2019
(31) 201615138358	(54) PAPER-CRAFT DIGITIZATION	(33) United Kingdom
(32) 26.04.2016	(73) Soci�t� BIC	<hr/>
(33) United States of America	(72) DUFFY, David	(51) G06N 3/045
<hr/>	ELLIOTT-BOWMAN, Bernadette	(11) EP3459017
(51) G06K 7/10	<hr/>	(21) EP16826910.8
(11) EP3921765	(51) G06K 19/07	(47) 01.11.2023
(21) EP20716690.1	G06K 19/077	(87) US2016069589
(47) 01.11.2023	G06K 19/02	23.11.2017
(87) DE2020100082	H01Q 1/22	(22) 30.12.2016
13.08.2020	(11) EP4032021	(54) PROGRESSIVE NEURAL NETWORKS
(22) 07.02.2020	(21) EP20781258.7	(73) Deepmind Technologies Limited
(54) ANTENNA BOX FOR RFID READERS,	(47) 01.11.2023	(72) RABINOWITZ, Neil Charles
IN PARTICULAR FOR TABLE	(87) US2020051077	DESJARDINS, Guillaume
APPLICATIONS, IN PARTICULAR	25.03.2021	RUSU, Andrei-Alexandru
IN THE FIELD OF MEDICAL	(22) 16.09.2020	KAVUKCUOGLU, Koray
TECHNOLOGY, AND RFID READER	(54) SYSTEMS AND METHODS FOR	HADSELL, Raia Thais
HAVING SUCH AN ANTENNA BOX	PROVIDING TAGS ADAPTED TO BE	PASCANU, Razvan
(73) Asanus Medizintechnik GmbH	INCORPORATED WITH OR IN ITEMS	KIRKPATRICK, James
(72) SCHORER, Armin	(73) Sensormatic Electronics LLC	SOYER, Hubert Josef
(31) 102019103097	(72) TRIVELPIECE, Steve E.	(31) 201662339719 P
(32) 07.02.2019	PETERSEN, Bjoern	(32) 20.05.2016
(33) Germany	BERGMAN, Adam S.	(33) United States of America
<hr/>	VILAÇA, Jo�o	<hr/>
(51) G06K 7/10	CHANDRAMOWLE, Gopal	(51) G06N 3/045
G06K 7/00	GARCIA, Carlos G.	G06N 3/0895
G06F 21/35	SEQUEIRA, Melwyn F.	G06N 3/092
G07C 9/20	(31) 201916685584	G06F 40/30
G07C 9/29	201962902355 P	(11) EP3602409
(11) EP3729383	(32) 15.11.2019	(21) EP18729406.1
(21) EP18808045.1	18.09.2019	(47) 01.11.2023
(47) 01.11.2023	(33) United States of America	(87) EP2018064703
(87) EP2018083385	United States of America	13.12.2018
27.06.2019	<hr/>	(22) 05.06.2018
(22) 03.12.2018	(51) G06K 19/077	(54) SELECTING ACTIONS USING MULTI-
(54) AGGREGATOR OF IDENTIFICATION	(11) EP3327634	MODAL INPUTS
DEVICES	(21) EP16200610.0	(73) Deepmind Technologies Limited
(73) Electricit� de France	(47) 01.11.2023	(72) HERMANN, Karl Moritz
(72) TONNOIR, Sandrine	(22) 25.11.2016	BLUNSOM, Philip
(31) 1762485	(54) RFID TRANSPONDER WEB	HILL, Felix George
(32) 19.12.2017	(73) Confidex Oy	(31) 201762515458 P
(33) France	(72) Ahokas, Heikki	(32) 05.06.2017
<hr/>	Pylv�n�inen, Miika	(33) United States of America
(51) G06K 7/10		

(51) G06N 3/063	23.10.2020	(54) METHOD AND SYSTEM FOR
G06F 9/30	(33) United States of America	ASSESSING SOIL CARBON
G06F 9/38	United States of America	SEQUESTRATION OF A FARM BASED
G06T 1/60	(51) G06N 99/00	ON REMOTE SENSING
G06N 3/0464	G06F 5/01	(73) Tata Consultancy Services Limited
(11) EP3479302	G06N 3/063	(72) SAKKAN, MARIAPPAN
(21) EP17740501.6	G06F 7/48	MOHITE, JAYANTRAO
(47) 01.11.2023	G06F 8/41	SIVALINGAM, RAVINKUMAR
(87) US2017036441	G06F 9/46	SAWANT, SURYAKANT ASHOK
04.01.2018	G06N 20/00	SARANGI, SANAT
(22) 07.06.2017	(11) EP3452961	PAPPULA, SRINIVASU
(54) CONVOLUTIONAL NEURAL NETWORK	(21) EP17796609.0	(31) 202121040117
ON PROGRAMMABLE TWO	(47) 01.11.2023	(32) 03.09.2021
DIMENSIONAL IMAGE PROCESSOR	(87) US2017031477	(33) India
(73) Google LLC	16.11.2017	(51) G06Q 10/0635
(72) SHACHAM, Ofer	(22) 06.05.2017	G06Q 50/04
PATTERSON, David	(54) AN APPARATUS FOR HARDWARE	G05B 9/02
MARK, William R.	ACCELERATED MACHINE LEARNING	F16P 3/14
MEIXNER, Albert	(73) Intel Corporation	(11) EP4002240
FINCHELSTEIN, Daniel Frederic	(72) BRUESTLE, Jeremy	(21) EP21198858.9
REDGRAVE, Jason Rupert	NG, Choong	(47) 01.11.2023
(31) 201615201204	(31) 201715588558	(22) 24.09.2021
(32) 01.07.2016	201662333214 P	(54) METHOD AND SYSTEM FOR RISK
(33) United States of America	(32) 05.05.2017	ASSESSMENT OF A MACHINE
(51) G06N 3/063	07.05.2016	(73) SICK AG
G11C 11/54	(33) United States of America	(72) Albert, Magnus
G06N 3/088	United States of America	Mollbach, Erik
G11C 7/10	(51) G06N 99/00	Patrik, Feth
G11C 13/00	G06N 20/00	(31) 102020129839
G11C 16/04	(11) EP3660754	(32) 12.11.2020
G11C 17/16	(21) EP19215787.3	(33) Germany
(11) EP3432226	(47) 01.11.2023	(51) G06Q 10/08
(21) EP18166423.6	(22) 07.09.2017	(11) EP3886015
(47) 01.11.2023	(54) COMMUNICATION EFFICIENT	(21) EP18940891.7
(22) 09.04.2018	FEDERATED LEARNING	(47) 01.11.2023
(54) CONTROL PLANE ORGANISATION	(73) Google LLC	(87) CN2018125142
FOR FLEXIBLE DIGITAL DATA PLANE	(72) MCMAHAN, Hugh Brendan	28.05.2020
(73) IMEC vzw	BACON, David Morris	(22) 29.12.2018
Katholieke Universiteit Leuven KU	KONECNY, Jakub	(54) ROBOT-BASED INVENTORY ORDER
Leuven Research & Development	YU, Xinnan	PICKING METHOD, APPARATUS,
(72) CATHHOOR, Francky	(31) 201662400019 P	SYSTEM, AND ELECTRONIC DEVICE,
RAGHAVAN, Praveen	(32) 26.09.2016	AND STORAGE MEDIUM
GARBIN, Daniele	(33) United States of America	(73) Sirius Robotics Co., Ltd.
RODOPOULOS, Dimitrios	(51) G06Q 10/00	(72) YANG, Zhiqin
ZOGRAFOS, Odysseas	G06Q 30/02	WAN, Qi
(31) 17182232	G06Q 50/06	(31) 201811371579
(32) 19.07.2017	(11) EP3718061	(32) 19.11.2018
(33) European Patent Office (EPO)	(21) EP17811523.4	(33) China
(51) G06N 3/084	(47) 01.11.2023	(51) G06Q 10/08
G06N 3/045	(87) EP2017081036	G06Q 10/10
G06N 3/082	06.06.2019	G06Q 50/32
G06N 7/01	(22) 30.11.2017	(11) EP3029618
(11) EP4073715	(54) TECHNIQUE FOR UTILITY NETWORK	(21) EP14306940.9
(21) EP21758477.0	MANAGEMENT	(47) 01.11.2023
(47) 01.11.2023	(73) Telefonaktiebolaget LM Ericsson (publ)	(22) 02.12.2014
(87) JP2021025874	(72) GÓDOR, István	(54) Multinode distributed integrity of
28.04.2022	HÁGA, Péter	producing files
(22) 02.07.2021	KALLUS, Zsófia	(73) Quadiant Technologies France
(54) TRAINING A NEURAL NETWORK	(51) G06Q 10/04	(72) Ashworth, Peter
USING GRAPH-BASED TEMPORAL	G06Q 50/02	(51) G06Q 10/109
CLASSIFICATION	A01B 79/00	G06Q 10/1093
(73) Mitsubishi Electric Corporation	H04W 4/021	G06Q 10/20
(72) MORITZ, Niko	H04W 4/029	G06Q 50/30
HORI, Takaaki	(11) EP4145365	(11) EP3654260
LE ROUX, Jonathan	(21) EP22170934.8	(21) EP19206175.2
(31) 202117235074	(47) 01.11.2023	(47) 01.11.2023
202063104627 P	(22) 29.04.2022	(22) 30.10.2019
(32) 20.04.2021		

(54) METHOD AND APPARATUS FOR DETERMINING AND PRESENTING A SPATIAL-TEMPORAL MOBILITY PATTERN OF A VEHICLE WITH RESPECT TO A USER BASED ON USER APPOINTMENTS	G06Q 20/18 G07F 13/02 G07B 15/06 (11) EP3425577 (21) EP18181332.0 (47) 01.11.2023 (22) 03.07.2018	(54) SECURE REMOTE PAYMENT TRANSACTION PROCESSING
(73) HERE Global B.V.	(54) SYSTEM AND METHOD FOR PAYING THE REFUELING OF A VEHICLE	(73) Visa International Service Association
(72) BEAUREPAIRE, Jerome KROME, Sven	(73) MOVYON S.p.A.	(72) SHEETS, John WAGNER, Kim AABYE, Christian LIU, Frederick KARPENKO, Igor POWELL, Glenn PIRZADEH, Kiushan
(31) 201816191111	(72) RIBOLINI, Daniele	(31) 201361880154 P 201361871814 P 201361863869 P 201361957948 P
(32) 14.11.2018	TOLAINI, Sandro	(32) 19.09.2013 29.08.2013 08.08.2013 15.07.2013
(33) United States of America	(31) 201700075277	(33) United States of America United States of America United States of America United States of America
(51) G06Q 10/20 G05B 23/02 G10L 15/22 G01M 17/007 G07C 5/08	(32) 05.07.2017 (33) Italy	(51) G06Q 30/02 G06F 21/62
(11) EP3570131	(51) G06Q 20/32 G06Q 20/34 G06Q 20/36 G06Q 20/40 G07F 17/00	(11) EP2619669 (21) EP11827473.7 (47) 01.11.2023 (87) US2011052623 29.03.2012
(21) EP18839661.8	(11) EP3839857	(22) 21.09.2011
(47) 01.11.2023	(21) EP21150414.7	(54) METHODS AND APPARATUS TO DETERMINE IMPRESSIONS USING DISTRIBUTED DEMOGRAPHIC INFORMATION
(87) CN2018079611 26.09.2019	(47) 01.11.2023	(73) The Nielsen Company (US), LLC
(22) 20.03.2018	(22) 25.05.2016	(72) MAZUMDAR, Mainak GERAGHTY, Kevin HEFFERNAN, Ronan KALUS, Mark PAPARO, Ari SPLAINE, Steven, J.
(54) INTELLIGENT DIAGNOSTIC ASSISTANCE METHOD, DEVICE, AND APPARATUS	(54) USER INTERFACE FOR LOYALTY ACCOUNTS AND PRIVATE LABEL ACCOUNTS FOR A WEARABLE DEVICE	(31) 385553 P 386543 P
(73) Shenzhen Launch Software Co., Ltd.	(73) Apple Inc.	(32) 22.09.2010 26.09.2010
(72) LIU, Jun WEI, Zewei ZHAN, Wei	(72) VAN OS, Marcel SUZUKI, Gregg YANG, Lawrence Y. ANTON, Peter D. PITSCHER, Donald W.	(33) United States of America United States of America
(51) G06Q 10/20 G06Q 30/0283	(31) 201562230430 P	(51) G06Q 30/02 G06Q 30/06 G06Q 30/0251 G06Q 30/0601 H04L 67/125 H04L 67/306
(11) EP3523713	(32) 05.06.2015	(11) EP3780537 (21) EP19780784.5 (47) 01.11.2023 (87) CN2019080737 10.10.2019
(21) EP17781585.9	(33) United States of America	(22) 01.04.2019
(47) 01.11.2023	(51) G06Q 20/34 G06Q 20/38 G07F 7/08 G06F 21/62 G06F 21/64 G06F 21/72 H04L 9/08 H04L 9/32	(54) STORE SYSTEM, AND METHOD AND APPARATUS FOR PROCESSING INFORMATION OF CLOTHES TO BE TRIED ON
(87) US2017050771 12.04.2018	(11) EP4092597 (21) EP21174291.1 (47) 01.11.2023 (22) 18.05.2021	(73) ALIBABA GROUP HOLDING LIMITED
(22) 08.09.2017	(54) PORTABLE DEVICE FOR THE EXCHANGE, TRANSFER AND TRANSPORT OF SENSITIVE DIGITAL INFORMATION	(72) SHI, Keyang SHENG, Ding BIN, Lin GUO, Jianfeng
(54) SYSTEM AND METHOD FOR PROVIDING AN INTERACTIVE VEHICLE DIAGNOSTIC DISPLAY	(73) Knobs S.r.l. (72) BIANCHI, Mattia BRUSCHI, Francesco MOLINARI, Mauro RANA, Vincenzo TUMIATI, Manuel	
(73) Snap-on Incorporated	(51) G06Q 20/40 G06Q 20/32 G06Q 20/38	
(72) MERG, Patrick, S. MERCER, Todd BROZOVICH, Roy, Steven COSTANTINO, David	(11) EP3022700 (21) EP14825781.9 (47) 01.11.2023 (87) US2014046764 22.01.2015	
(31) 201615286169	(22) 15.07.2014	
(32) 05.10.2016		
(33) United States of America		
(51) G06Q 20/02 G06Q 20/22 G06Q 20/32 G06Q 20/38 G06Q 20/40		
(11) EP2993633		
(21) EP15181631.1		
(47) 01.11.2023		
(22) 19.08.2015		
(54) MOBILE-MERCHANT PROXIMITY SOLUTION FOR FINANCIAL TRANSACTIONS		
(73) Apple Inc.		
(72) MEHDI, Ziat DIEBOLT, Kyle		
(31) 201414475485		
(32) 02.09.2014		
(33) United States of America		
(51) G06Q 20/14		



HE, Shurong	201762442718 P	(21) EP19864787.7
YAO, Didi	(32) 01.11.2017	(47) 01.11.2023
FENG, Wei	02.03.2017	(87) US2019053826
XIE, Weizhi	11.01.2017	02.04.2020
ZHU, Wei	05.01.2017	(22) 30.09.2019
WANG, Jianhong	(33) United States of America	(54) METHODS, APPARATUSES,
JIA, Menglei	United States of America	AND SYSTEMS FOR 3-D
HU, Xiaoying	United States of America	PHENOTYPING AND PHYSIOLOGICAL
(31) 201810299211	United States of America	CHARACTERIZATION OF BRAIN
(32) 04.04.2018	(51) G06T 5/50	LESIONS AND SURROUNDING
(33) China	G06T 7/00	TISSUE
(51) G06Q 30/0601	(11) EP3506195	(73) The Board of Regents of The University
G06F 9/50	(21) EP17843405.6	of Texas System
G06F 8/60	(47) 01.11.2023	(72) OKUDA, Darin, T.
(11) EP3610369	(87) JP2017028903	SIVAKOLUNDU, Dinesh, K.
(21) EP18785215.7	01.03.2018	(31) 201862738270 P
(47) 01.11.2023	(22) 09.08.2017	(32) 28.09.2018
(87) US2018027596	(54) IMAGE PROCESSING DEVICE,	(33) United States of America
18.10.2018	IMAGE PROCESSING METHOD, AND	(51) G06T 7/00
(22) 13.04.2018	COMPUTER-READABLE RECORDING	G06T 7/11
(54) TECHNOLOGIES FOR CREATING	MEDIUM	(11) EP3830791
AND DISTRIBUTING INTEGRATION	(73) NEC Corporation	(21) EP19768769.2
CONNECTORS IN A CLOUD SERVICE	(72) KANEKO Eiji	(47) 01.11.2023
BROKERAGE SYSTEM	(31) 2016165819	(87) EP2019074119
(73) CloudBlue LLC	(32) 26.08.2016	19.03.2020
(72) GREBENSHIKOV, Vladimir	(33) Japan	(22) 10.09.2019
KUZKIN, Maxim	(51) G06T 7/00	(54) 3-D CONVOLUTIONAL NEURAL
KHAEROV, Aleksandr	(11) EP3770807	NETWORKS FOR ORGAN
(31) 201762485665 P	(21) EP20191462.9	SEGMENTATION IN MEDICAL IMAGES
(32) 14.04.2017	(47) 01.11.2023	FOR RADIOOTHERAPY PLANNING
(33) United States of America	(22) 04.05.2016	(73) Google LLC
(51) G06Q 40/00	(54) COMPUTER-ASSISTED TUMOR	(72) NIKOLOV, Stanislav
(11) EP3796246	RESPONSE ASSESSMENT AND	BLACKWELL, Samuel
(21) EP19803256.7	EVALUATION OF THE VASCULAR	DE FAUW, Jeffrey
(47) 01.11.2023	TUMOR BURDEN	ROMERA-PAREDES, Bernardino
(87) CN2019086692	(73) Smith, Andrew Dennis	MEYER, Clemens
21.11.2019	(72) Smith, Andrew Dennis	ASKHAM, Harry
(22) 13.05.2019	(31) 201562156836 P	HUGHES, Cian
(54) ACCOUNT CLEARING AND	(32) 04.05.2015	BACK, Trevor
RECONCILIATION METHOD,	(33) United States of America	LEDSAM, Joseph R.
APPARATUS, AND COMPUTER	(51) G06T 7/00	RONNEBERGER, Olaf
DEVICE	(11) EP3195257	(31) 201862729054 P
(73) Netsunion Clearing Corporation	(21) EP15763677.0	(32) 10.09.2018
(72) ZHANG, Qun	(47) 01.11.2023	(33) United States of America
ZHANG, Zhiyuan	(87) US2015046011	(51) G06T 7/00
LI, Ping	10.03.2016	G06T 7/11
(31) 201810454908	(22) 20.08.2015	G06T 7/12
(32) 14.05.2018	(54) SYSTEMS AND METHODS FOR	(11) EP3211561
(33) China	SEGMENTING MEDICAL IMAGES	(21) EP15853412.3
(51) G06Q 50/10	BASED ON ANATOMICAL LANDMARK-	(47) 01.11.2023
H04N 21/81	BASED FEATURES	(87) CN2015081838
H04N 21/4728	(73) Elekta, Inc.	28.04.2016
H04N 21/4788	(72) HAN, Xiao	(22) 10.08.2015
H04N 21/6587	ZHOU, Yan	(54) LIVER BOUNDARY IDENTIFICATION
(11) EP4083900	(31) 201414474407	METHOD, AND SYSTEM
(21) EP22179470.4	(32) 02.09.2014	(73) Wuxi Hisky Medical Technologies Co.,
(47) 01.11.2023	(33) United States of America	Ltd.
(22) 05.01.2018	(51) G06T 7/00	(72) SHAO, Jinhua
(54) VIRTUAL REALITY EXPERIENCE	A61B 5/055	SUN, Jin
SHARING	G06T 7/10	DUAN, Houli
(73) Samsung Electronics Co., Ltd.	G06T 7/11	(31) 201410564295
(72) DICKERSON, Andrew Joseph	A61B 5/026	(32) 21.10.2014
BOUAZIZI, Imed	A61B 5/145	(33) China
BUDAGAVI, Madhukar	G01R 33/48	(51) G06T 7/00
LIM, Young-Kwon	G01R 33/563	G06T 7/11
(31) 201715801174	G01R 33/56	G06T 7/187
201762465883 P	A61B 5/00	(11) EP3975116
201762444840 P	(11) EP3857509	(21) EP21197421.7

(47) 01.11.2023	(73) Laralab GmbH	Owechko, Yuri
(22) 17.09.2021	(72) Praceus, Julian	Korchev, Dmitriy
(54) DETECTING DISPLACEMENTS AND/OR DEFECTS IN A POINT CLOUD USING CLUSTER-BASED CLOUD-TO-CLOUD COMPARISON	Vasilev, Aleksei	Kim, Kyungnam
(73) Faro Technologies, Inc.	(51) G06T 7/215	Zhang, Zhiqi
(72) WOLKE, Matthias	G06T 7/277	(31) 201313953758
PATLOLLA, Prashanth Reddy	(11) EP3798976	(32) 30.07.2013
(31) 202117338890	(21) EP20198607.2	(33) United States of America
202063082206 P	(47) 01.11.2023	(51) G06T 7/73
(32) 04.06.2021	(22) 28.09.2020	B25J 9/16
23.09.2020	(54) METHOD AND SYSTEM FOR DETERMINING DYNAMISM IN A SCENE BY PROCESSING A DEPTH IMAGE	H04N 13/257
(33) United States of America	(73) Tata Consultancy Services Limited	H04N 13/271
United States of America	(72) SINHA, ARNAB	H04N 13/239
(51) G06T 7/11	(31) 201921039592	G05D 1/02
G06T 7/143	(32) 30.09.2019	(11) EP3347875
G06T 7/174	(33) India	(21) EP16852719.0
G06T 7/194	(51) G06T 7/32	(47) 01.11.2023
G06T 7/136	(11) EP3387620	(87) US2016054809
(11) EP3762899	(21) EP16822920.1	06.04.2017
(21) EP19727066.3	(47) 01.11.2023	(22) 30.09.2016
(47) 01.11.2023	(87) EP2016080509	(54) LOCALIZATION OF A ROBOT IN AN ENVIRONMENT USING DETECTED EDGES OF A CAMERA IMAGE FROM A CAMERA OF THE ROBOT AND DETECTED EDGES DERIVED FROM A THREE-DIMENSIONAL MODEL OF THE ENVIRONMENT
(87) IB2019053140	15.06.2017	(73) Intrinsic Innovation LLC
24.10.2019	(22) 09.12.2016	(72) MICHEL, Philipp
(22) 16.04.2019	(54) METHOD FOR ALIGNING AT LEAST ONE PART OF ONE DIGITAL IMAGE TO AT LEAST ONE PART OF ANOTHER DIGITAL IMAGE	(31) 201514873430
(54) OBJECT SEGMENTATION IN A SEQUENCE OF COLOR IMAGE FRAMES BASED ON ADAPTIVE FOREGROUND MASK UPSAMPLING	(73) QIAGEN GmbH	(32) 02.10.2015
(73) Sony Group Corporation	(72) SCHUSTER, Guido	(33) United States of America
(72) TAKEDA, Hiroyuki	ZERFASS, Thorsten	(51) G06T 11/20
GHARAVI-ALKHANSARI, Mohammad	UNTERER, Thomas	G09G 5/24
(31) 201815958435	HAUTH, Jan	(11) EP3803795
(32) 20.04.2018	LOHEL, Maiko	(21) EP19729670.0
(33) United States of America	(31) 15199409	(47) 01.11.2023
(51) G06T 7/11	(32) 10.12.2015	(87) EP2019064252
G06T 7/187	(33) European Patent Office (EPO)	12.12.2019
(11) EP3631755	(51) G06T 7/579	(22) 03.06.2019
(21) EP17910943.4	G06T 7/73	(54) METHOD AND APPARATUS FOR ANISOTROPICALLY MODIFYING TEXT ATTRIBUTES TO COMPLY WITH A RESOLUTION LIMIT
(47) 01.11.2023	(11) EP3847619	(73) Esko Software BV
(87) CN2017085817	(21) EP19772917.1	(72) XU, Neil
29.11.2018	(47) 01.11.2023	VAN BAEL, Kris
(22) 25.05.2017	(87) US2019049643	(31) 201810569451
(54) METHOD AND APPARATUS FOR REPRESENTING ENVIRONMENTAL ELEMENTS, SYSTEM, AND VEHICLE/ROBOT	12.03.2020	(32) 05.06.2018
(73) Bayerische Motoren Werke Aktiengesellschaft	(22) 05.09.2019	(33) China
(72) DOEMLING, Maximilian	(54) UNSUPERVISED DEPTH PREDICTION NEURAL NETWORKS	(51) G06T 13/40
JIANG, Wanli	(73) Google LLC	G06T 15/50
LI, Qianshan	(72) CASSER, Vincent Michael	G06T 19/20
XU, Hongshan	PIRK, Soeren	(11) EP3598392
GRANZOW, Sebastian	MAHJOURIAN, Reza	(21) EP19196087.1
XU, Tao	ANGELOVA, Anelia	(47) 01.11.2023
LI, Jianpeng	(31) 201862727502 P	(22) 21.11.2017
LV, Shuhan	(32) 05.09.2018	(54) TRAVERSAL SELECTION OF COMPONENTS FOR A GEOMETRIC MODEL
(51) G06T 7/12	(33) United States of America	(73) DreamWorks Animation LLC
(11) EP3629287	(51) G06T 7/593	(72) BRYSON, Stuart
(21) EP18196601.1	(11) EP2833322	PAPP, Esteban
(47) 01.11.2023	(21) EP14178716.8	FARSON, Peter
(22) 25.09.2018	(47) 01.11.2023	POWELL, Alex
(54) ASSISTED OR AUTOMATIC GENERATING OF A DIGITAL REPRESENTATION OF AN ANNULUS STRUCTURE OF A VALVE OF A HUMAN INTERNAL ORGAN	(22) 28.07.2014	(31) 201715639959
	(54) Stereo-motion method of three-dimensional (3-D) structure information extraction from a video for fusion with 3-D point cloud data	(32) 30.06.2017
	(73) The Boeing Company	(33) United States of America
	(72) Mundhenk, Terrell Nathan	(51) G06T 15/06
	Chen, Hai-Wen	

G06T 15/40	(72) NAKATA, Yohei	G06T 7/12
G06T 17/00	OHYAMA, Shinji	G06N 3/084
G06T 15/50	YAMAGUCHI, Takuya	G06N 20/10
(11) EP3714433	TAKEUCHI, Kazuma	G06N 3/048
(21) EP18811687.5	(31) 2018043119	G06N 5/01
(47) 01.11.2023	2017145999	G06N 7/01
(87) US2018059915	(32) 09.03.2018	G06V 10/44
23.05.2019	28.07.2017	(11) EP3620980
(22) 09.11.2018	(33) Japan	(21) EP19178056.8
(54) RAY-TRIANGLE INTERSECTION	Japan	(47) 01.11.2023
TESTING WITH TETRAHEDRAL	(51) G06V 10/20	(22) 04.06.2019
PLANES	G06V 10/75	(54) LEARNING METHOD, LEARNING
(73) Microsoft Technology Licensing, LLC	G06V 30/24	DEVICE FOR DETECTING LANE BY
(72) STANARD, James D.	(11) EP3048564	USING CNN AND TESTING METHOD,
(31) 201715818540	(21) EP16152487.1	TESTING DEVICE USING THE SAME
(32) 20.11.2017	(47) 01.11.2023	(73) Stradvision, Inc.
(33) United States of America	(22) 22.01.2016	(72) KIM, Kye-Hyeon
(51) G06T 15/08	(54) PROBE PLACEMENT FOR IMAGE	KIM, Yongjoong
G06T 7/50	PROCESSING	KIM, Insu
G06T 7/11	(73) Cognex Corporation	KIM, Hak-Kyoung
(11) EP3501010	(72) Barker, Simon	NAM, Woonhyun
(21) EP17842251.5	Michael, David J.	BOO, SukHoon
(47) 01.11.2023	Silver, William M.	SUNG, Myungchul
(87) US2017047696	(31) 201514603969	YEO, Donghun
22.02.2018	(32) 23.01.2015	RYU, Wooju
(22) 19.08.2017	(33) United States of America	JANG, Taewoong
(54) RENDERING OPERATIONS USING	(51) G06V 10/70	JEONG, Kyungjoong
SPARSE VOLUMETRIC DATA	(11) EP3152707	JE, Hongmo
(73) MOVIDIUS LTD.	(21) EP15728340.9	CHO, Hojin
(72) CAULFIELD, Sam	(47) 01.11.2023	(31) 201816121670
MOLONEY, David Macdara	(87) US2015033063	(32) 05.09.2018
BAUGH, Gary Garfield Barrington	10.12.2015	(33) United States of America
(31) 201662377471 P	(22) 28.05.2015	(51) G06V 20/56
(32) 19.08.2016	(54) DATA FUSION ANALYSIS FOR	G06V 10/764
(33) United States of America	MARITIME AUTOMATIC TARGET	(11) EP3690709
(51) G06T 15/20	RECOGNITION	(21) EP20151660.6
H04N 13/106	(73) Raytheon Company	(47) 01.11.2023
H04N 13/133	(72) SATHYENDRA, Harsha Modur	(22) 14.01.2020
H04N 13/15	STEPHAN, Bryan D.	(54) LEARNING METHOD AND LEARNING
H04N 13/271	(31) 201414295193	DEVICE OF RECURRENT NEURAL
H04N 13/111	(32) 03.06.2014	NETWORK FOR AUTONOMOUS
H04N 5/77	(33) United States of America	DRIVING SAFETY CHECK FOR
G06T 19/20	(51) G06V 10/74	CHANGING DRIVING MODE BETWEEN
(11) EP3241155	G06V 10/764	AUTONOMOUS DRIVING MODE
(21) EP15876285.6	G06V 10/94	AND MANUAL DRIVING MODE, AND
(47) 01.11.2023	(11) EP3195260	TESTING METHOD AND TESTING
(87) US2015068118	(21) EP15842878.9	DEVICE USING THEM
07.07.2016	(47) 01.11.2023	(73) StradVision, Inc.
(22) 30.12.2015	(87) SG2015050317	(72) KIM, Kye-Hyeon
(54) EXPOSURE COMPUTATION VIA	24.03.2016	KIM, Yongjoong
DEPTH-BASED COMPUTATIONAL	(22) 15.09.2015	KIM, Hak-Kyoung
PHOTOGRAPHY	(54) IMAGE RECOGNITION SYSTEM AND	NAM, Woonhyun
(73) Dell Products, L.P.	METHOD	BOO, SukHoon
(72) BASCHE, Todd	(73) Temasek Life Sciences Laboratory	SUNG, Myungchul
ANCONA, Rocco	Limited	SHIN, Dongsoo
(31) 201414587462	(72) SWAMINATHAN, Muthukaruppan	YEO, Donghun
(32) 31.12.2014	SJÖBLOM, Tobias	RYU, Wooju
(33) United States of America	CHEONG, Ian	LEE, Myeong-Chun
(51) G06V 10/10	PILOTO, Obdulio	LEE, Hyungsoo
G06V 20/56	(31) 201462050414 P	JANG, Taewoong
(11) EP3435286	(32) 15.09.2014	JEONG, Kyungjoong
(21) EP18185374.8	(33) United States of America	JE, Hongmo
(47) 01.11.2023	(51) G06V 20/56	CHO, Hojin
(22) 25.07.2018	G06V 10/762	(31) 201916723753
(54) IMAGING CONTROL DEVICE AND	G06V 10/764	201962798946 P
IMAGING CONTROL METHOD	G06V 10/82	(32) 20.12.2019
(73) Panasonic Intellectual Property	G06N 3/045	30.01.2019
Corporation of America	G06F 18/232	(33) United States of America

United States of America	(87) EP2017073186	(54) ELECTRONIC ACCESS CONTROL DEVICE AND ACCESS CONTROL METHOD
(51) G06V 20/58	22.03.2018	
(11) EP3403216	(22) 14.09.2017	
(21) EP17704817.0	(54) DYNAMIC REGISTRATION SEED	(73) Legic Identsystems AG
(47) 01.11.2023	(73) IDEX BIOMETRICS ASA	(72) PLÜSS, Marcel
(87) IB2017000035	(72) BAUCHSPIES, Roger, A	STUDERUS, Paul
20.07.2017	(31) 201615265539	(31) 951142014
(22) 11.01.2017	(32) 14.09.2016	(32) 23.06.2014
(54) SYSTEMS AND METHODS FOR AUGMENTING UPRIGHT OBJECT DETECTION	(33) United States of America	(33) Switzerland
(73) Mobileye Vision Technologies Ltd.	(51) G06V 40/13	(51) G07C 9/20
(72) KARIO, Jack	(11) EP3457320	G06F 21/35
BABA, Tomer	(21) EP18190446.7	G06F 21/31
DAGAN, Erez	(47) 01.11.2023	G06F 21/32
(31) 201662277068 P	(22) 23.08.2018	(11) EP3624072
(32) 11.01.2016	(54) BIOMETRIC INFORMATION DETECTING DEVICE AND DISPLAY APPARATUS HAVING THE SAME	(21) EP19197143.1
(33) United States of America	(73) Samsung Display Co., Ltd.	(47) 01.11.2023
(51) G06V 20/69	(72) Choe, Weonjun	(22) 13.09.2019
(11) EP4100869	In, Hai-jung	(54) IDENTIFICATION ADAPTER AND IDENTIFICATION DEVICE
(21) EP21702575.8	Kim, Jinwoo	(73) Astra Gesellschaft Für Asset Management MbH&Co. Kg
(47) 01.11.2023	Jang, Hyoungwook	(72) Stobbe, Anatoli
(87) EP2021051781	(31) 20170118871	Stobbe, Nicolas
12.08.2021	(32) 15.09.2017	(31) 102018122758
(22) 27.01.2021	(33) Korea (Republic)	(32) 17.09.2018
(54) A SYSTEM FOR PROCESSING A WHOLE SLIDE IMAGE, WSI, OF A BIOPSY	(51) G06V 40/13	(33) Germany
(73) Koninklijke Philips N.V.	G06V 40/12	(51) G07D 11/00
(72) BLANCHET, Lionel, Michel	G02F 1/1333	G07F 19/00
BAX, Laurie	(11) EP3631683	B65B 5/10
SÁNCHEZ SÁNCHEZ C, Carlos	(21) EP18861316.0	G07D 11/125
BUYUKAYDIN, Duygu	(47) 01.11.2023	E05G 1/06
CHU, Wen-Yang	(87) KR2018008167	E05G 7/00
VAN GESTEL, Anja	04.04.2019	(11) EP4007994
(31) 20156178	(22) 19.07.2018	(21) EP20765371.8
(32) 07.02.2020	(54) ELECTRONIC DEVICE WITH OPTICAL SENSOR	(47) 01.11.2023
(33) European Patent Office (EPO)	(73) Samsung Electronics Co., Ltd.	(87) IB2020058234
(51) G06V 20/69	(72) LEE, Jin-Eui	11.03.2021
(11) EP3507769	SEO, Young-Min	(22) 04.09.2020
(21) EP17847615.6	LEE, Young-Soo	(54) A SYSTEM FOR THE SAFE COUPLING OF A RE-USABLE BAG TO A BANKNOTE HANDLING AND STORING MACHINE AND RELEVANT USE METHOD
(47) 01.11.2023	PARK, Yong-Cheol	(73) CIMA S.p.A.
(87) US2017049823	RHEE, Bong-Jae	(72) RAZZABONI, Nicoletta
08.03.2018	(31) 20170127352	RAZZABONI, Vittorio
(22) 01.09.2017	(32) 29.09.2017	(31) 201900015638
(54) SYSTEMS AND METHODS FOR SINGLE MOLECULE QUANTIFICATION	(33) Korea (Republic)	(32) 05.09.2019
(73) Invitae Corporation	(51) G06V 40/16	(33) Italy
(72) JONES, Hywel Bowden	(11) EP2793167	(51) G07D 11/12
MCEVOY, Andrea Lynn	(21) EP14158067.0	G07D 11/00
(31) 201662383378 P	(47) 01.11.2023	(11) EP3859694
(32) 02.09.2016	(22) 06.03.2014	(21) EP19866362.7
(33) United States of America	(54) Expression estimation device, control method, control program, and recording medium	(47) 01.11.2023
(51) G06V 30/32	(73) OMRON CORPORATION	(87) JP2019036204
(11) EP3862918	(72) Murakami, Tatsuya	02.04.2020
(21) EP20305120.6	Ohta, Takashi	(22) 13.09.2019
(47) 01.11.2023	(31) 2013084868	(54) PAPER SHEET PROCESSING DEVICE
(22) 07.02.2020	(32) 15.04.2013	(73) GLORY LTD.
(54) STRUCTURAL DECOMPOSITION IN HANDWRITING	(33) Japan	(72) NOMURA, Youji
(73) MyScript	(51) G07C 9/00	TANAIKE, Takashi
(72) LORIAN, Nicolas	(11) EP3158541	(31) 2018180432
VERGNE, Julien	(21) EP15730962.6	(32) 26.09.2018
(51) G06V 40/10	(47) 01.11.2023	(33) Japan
(11) EP3513354	(87) EP2015001232	(51) G07D 11/18
(21) EP17776957.7	30.12.2015	(11) EP3786907
(47) 01.11.2023	(22) 18.06.2015	(21) EP19220184.6
		(47) 01.11.2023

(22) 31.12.2019	(47) 01.11.2023	(21) EP21150553.2
(54) A MEDIA ROTATION MECHANISM	(22) 05.12.2013	(47) 01.11.2023
(73) NCR Corporation	(54) Occupancy Sensor	(22) 07.01.2021
(72) VETTRAINO, Peter Roy	(73) Read, Dale	(54) DEVICE FOR DETECTING
GRANT, Andrew Robert	(72) Read, Dale	HAZARDOUS BEHAVIOUR OF AT
WALKER, Ian James	(31) 201218199	LEAST ONE PERSON, ASSOCIATED
DENNY, Ian McFarlane	(32) 10.10.2012	DETECTION METHOD AND
(31) 201916556401	(33) United Kingdom	DETECTION NETWORK
(32) 30.08.2019	(51) G08B 13/191	(73) KXKJM
(33) United States of America	G01J 5/08	(72) ROMERO, Xavier
(51) G07D 11/40	G01J 5/0806	KOUL À WELL, John
G07D 11/13	G01J 5/10	MHANNA, Kristel
(11) EP3822926	(11) EP3624077	RINCON, Maria
(21) EP20203415.3	(21) EP18194757.3	BOUBET, Kataline
(47) 01.11.2023	(47) 01.11.2023	(31) 2000157
(22) 22.10.2020	(22) 17.09.2018	(32) 09.01.2020
(54) CASSETTE AND AUTOMATED TELLER	(54) OBJECT DETECTION SENSOR	(33) France
MACHINE INCLUDING THE SAME	NETWORK FOR CALCULATING A	(51) G08B 21/04
(73) HYOSUNG TNS INC.	MOTION PATH OF AN OBJECT	A62B 35/00
(72) LEE, Jungwhan	(73) Zumtobel Lighting GmbH	A62B 1/10
KIM, Jun Young	Tridonic GmbH & Co. KG	(11) EP3665664
PARK, Chang Ho	(72) Jelcic, Vana	(21) EP18844966.4
OH, Hye Bin	Mitterbacher, Andre	(47) 01.11.2023
(31) 20190144586	Burtscher, Florian	(87) IB2018056014
(32) 12.11.2019	(51) G08B 17/00	14.02.2019
(33) Korea (Republic)	G08B 29/18	(2) 09.08.2018
(51) G07F 17/32	G08B 7/06	(54) FALL ARRESTING DEVICE EVENT
(11) EP3417430	G08B 15/00	GENERATION AND MONITORING
(21) EP16766919.1	G08B 13/24	(73) 3M Innovative Properties Company
(47) 01.11.2023	(11) EP3980980	(72) BLACKFORD, Matthew J.
(87) EP2016071601	(21) EP20727682.5	HAMEED, Zohaib
24.08.2017	(47) 01.11.2023	JESME, Ronald D.
(22) 13.09.2016	(87) EP2020064889	(31) 201762543564 P
(54) DICE RECOGNITION	10.12.2020	(32) 10.08.2017
DEVICE&METHOD OF RECOGNIZING	(22) 28.05.2020	(33) United States of America
DICE	(54) EMERGENCY RADIO FREQUENCY-	(51) G08B 21/04
(73) Arranged bv	BASED SENSING FUNCTION	G08B 29/22
(72) EURLINGS, Martin	(73) Signify Holding B.V.	(11) EP4143806
VAES, Joris	(72) KRAJNC, Hugo, Jose	(21) EP21731310.5
(31) 16166788	DEIXLER, Peter	(47) 01.11.2023
16156018	(31) 201962857914 P	(87) IL2021050591
(32) 25.04.2016	19183821	25.11.2021
16.02.2016	(32) 06.06.2019	(22) 21.05.2021
(33) European Patent Office (EPO)	02.07.2019	(54) DEVICE AND METHOD FOR
European Patent Office (EPO)	(33) United States of America	DETERMINING A STATUS OF A
(51) G08B 13/14	European Patent Office (EPO)	PERSON
G08B 21/02	(51) G08B 19/00	(73) Essence Smartcare Ltd.
G08B 29/04	G08B 13/196	(72) KATZ, Barak
(11) EP3321902	G08B 29/18	BIRAN, Yechezkel Alon
(21) EP17201468.0	B64C 1/00	AMIR, Ohad
(47) 01.11.2023	(11) EP4035136	SCHNAPP, Jonathan Mark
(22) 13.11.2017	(21) EP20789337.1	BAR SHIMON, Eliav
(54) SYSTEMS, METHODS AND ARTICLES	(47) 01.11.2023	(31) 202007587
TO PREVENT UNAUTHORIZED	(87) US2020052268	(32) 21.05.2020
REMOVAL OF MOBILE PROCESSOR-	01.04.2021	(33) United Kingdom
BASED DEVICES FROM DESIGNATED	(22) 23.09.2020	(51) G08B 29/16
AREAS	(54) AUTONOMOUS HOME SECURITY	G08B 17/10
(73) Datalogic IP Tech S.r.l.	DEVICES	G08B 19/00
(72) Bottazzi, Marco	(73) Amazon Technologies Inc.	(11) EP3404633
(31) 201615351053	(72) METZNER, Jordan Anthony	(21) EP18172793.4
(32) 14.11.2016	PATERSON, Michael Edward James	(47) 01.11.2023
(33) United States of America	WILD, Benjamin	(22) 17.05.2018
(51) G08B 13/19	SIMINOFF, James Wyatt	(54) APPARATUS FOR MONITORING
G08B 13/191	(31) 201916584721	ATMOSPHERIC CHARACTERISTICS
G08C 17/02	(32) 26.09.2019	AND DETECTING FIRES
G08B 21/22	(33) United States of America	(73) Pruneri, Marco
(11) EP2725564	(51) G08B 21/04	(72) Pruneri, Marco
(21) EP13195917.3	(11) EP3848916	(31) 201700053602

(32) 17.05.2017	G08G 1/00	(47) 01.11.2023
(33) Italy	H04W 4/02	(87) KR2020012609
(51) G08G 1/00	H04W 4/08	25.03.2021
G08G 1/01	H04W 4/40	(22) 18.09.2020
G06Q 10/08	(11) EP3857529	(54) DISPLAY MODULE AND ELECTRONIC
(11) EP3513365	(21) EP19868098.5	DEVICE INCLUDING THE SAME
(21) EP17772802.9	(47) 01.11.2023	(73) Samsung Electronics Co., Ltd.
(47) 01.11.2023	(87) CN2019105037	(72) CHOI, Jonghwan
(87) US2017050996	02.04.2020	(31) 20200096411
22.03.2018	(22) 10.09.2019	20190116400
(22) 11.09.2017	(54) A VEHICLE-INITIATED APPROACH TO	(32) 31.07.2020
(54) ROBOTIC TRAFFIC DENSITY BASED	JOINING A GROUP	20.09.2019
GUIDANCE	(73) QUALCOMM Incorporated	(33) Korea (Republic)
(73) Amazon Technologies, Inc.	(72) CAO, Yiqing	Korea (Republic)
(72) CALDER, Michael	CHEN, Wanshi	(51) G09F 9/30
(31) 201615264331	LI, Yan	G09F 9/33
(32) 13.09.2016	(31) PCT/CN2018/108430	G09F 9/35
(33) United States of America	(32) 28.09.2018	G09F 13/08
(51) G08G 1/01	(33) World Intellectual Property Office (WIPO)	G09F 19/12
G08G 1/017	(51) G08G 1/16	G09F 19/16
G08G 1/04	B60W 60/00	G09F 19/22
G08G 1/054	G01C 21/30	G09F 9/37
G06V 20/13	G01C 21/36	G09F 19/20
G06V 20/17	B60W 50/14	G09F 13/00
G06V 20/10	B60W 50/02	G09F 13/12
G06V 20/56	G01S 7/40	G09F 13/04
G08G 5/00	G01S 7/41	G09F 13/10
(11) EP3876213	(11) EP4086876	G09F 23/00
(21) EP21183679.6	(21) EP22179026.4	(11) EP3828872
(47) 01.11.2023	(47) 01.11.2023	(21) EP20209744.0
(22) 05.07.2021	(22) 11.09.2018	(47) 01.11.2023
(54) TRAFFIC MONITORING METHOD,	(54) DRIVING ASSIST METHOD AND	(22) 25.11.2020
APPARATUS, DEVICE AND STORAGE	DRIVING ASSIST DEVICE	(54) INFORMATION DISPLAY DEVICE
MEDIUM	(73) NISSAN MOTOR Co., Ltd.	(73) Panasonic Intellectual Property
(73) Beijing Baidu Netcom Science	Renault s.a.s	Management Co., Ltd.
Technology Co., Ltd.	(72) ASAI, Toshihiro	(72) Matsumoto, Masaharu
(72) WANG, Yuan	NOJIRI, Takahiro	(31) 201962941736 P
ZHAO, Jin	(51) G09F 9/00	(32) 28.11.2019
SU, Xing	H05B 33/02	(33) United States of America
DENG, Shewei	G02F 1/13363	(51) G09G 3/20
YANG, Xiang	G02F 1/1335	(11) EP3866150
ZHOU, Hao	G02B 5/30	(21) EP20196197.6
YAN, Jing	G02B 5/20	(47) 01.11.2023
QIN, Shenglin	H10K 50/86	(22) 15.09.2020
CONG, Xiaoliang	C09K 11/61	(54) PROCESSING METHOD, DEVICE
ZHANG, Yaling	(11) EP3401894	AND STORAGE MEDIUM FOR EYE
(31) 202011157702	(21) EP17735964.3	PROTECTION MODE
(32) 26.10.2020	(47) 01.11.2023	(73) Beijing Xiaomi Mobile Software Co., Ltd.
(33) China	(87) JP2017000090	(72) ZHAI, Dong
(51) G08G 1/07	13.07.2017	(31) 202010089324
G08G 1/0955	(22) 05.01.2017	(32) 12.02.2020
(11) EP3905218	(54) IMAGE DISPLAY DEVICE	(33) China
(21) EP20171678.4	(73) Dainippon Printing Co., Ltd.	(51) G09G 3/20
(47) 01.11.2023	Koike, Yasuhiro	G06F 3/041
(22) 27.04.2020	(72) KOIKE, Yasuhiro	G09G 3/3225
(54) METHOD AND SYSTEM FOR	KURODA, Takashi	G09G 3/36
PROVIDING MAP AND SPAT	YAMAMOTO, Kana	(11) EP3582213
MESSAGES FOR A NEWLY	(31) 2016003057	(21) EP19179960.0
ESTABLISHED SET OF AT LEAST ONE	2016003056	(47) 01.11.2023
TRAFFIC LIGHT	(32) 08.01.2016	(22) 13.06.2019
(73) Volkswagen Aktiengesellschaft	08.01.2016	(54) TOUCH DISPLAY DEVICE, DATA
(72) Kleinau, Sandra	(33) Japan	DRIVING CIRCUIT, AND DRIVING
Rech, Bernd	Japan	METHOD
Bagdonat, Thorsten	(51) G09F 9/30	(73) LG Display Co., Ltd.
Lehmann, Bernd	G06F 1/16	(72) KIM, HoonBae
Gläser, Stefan	F16C 11/04	KIM, CheolSe
Engel, Monique	(11) EP3997689	KIM, SungChul
(51) G08G 1/0967	(21) EP20866883.0	KIM, SunYeop

KANG, Seongkyu	G09G 3/20	ZHAO, Chun
(31) 20180068110	(11) EP3915102	(31) 20180098659
(32) 14.06.2018	(21) EP20705573.2	(32) 23.08.2018
(33) Korea (Republic)	(47) 01.11.2023	(33) Korea (Republic)
(51) G09G 3/20	(87) US2020014050	(51) G10H 1/00
G09G 5/02	30.07.2020	H04L 65/75
(11) EP3306598	(22) 17.01.2020	H04L 65/403
(21) EP15891404.4	(54) BACKPLANE CONFIGURATIONS AND	H04L 67/131
(47) 01.11.2023	OPERATIONS	(11) EP3673634
(87) CN2015089996	(73) Google LLC	(21) EP18756374.7
08.12.2016	(72) HE, Gang	(47) 01.11.2023
(22) 18.09.2015	(31) 202016739740	(87) EP2018070300
(54) DISPLAY METHOD AND DISPLAY	201962796394 P	28.02.2019
DEVICE	(32) 10.01.2020	(22) 26.07.2018
(73) BOE Technology Group Co., Ltd.	24.01.2019	(54) COLLABORATIVE SESSION OVER A
Beijing BOE Optoelectronics Technology	(33) United States of America	NETWORK
Co., Ltd.	United States of America	(73) Falmouth University
(72) CHEN, Chungchun	(51) G09G 3/3233	(72) ROFE, Michael David
LIU, Peng	G09G 3/3291	REUBEN PARIS, Federico
LU, Pengcheng	(11) EP3651147	(31) 201713554
DONG, Xue	(21) EP17916900.8	(32) 23.08.2017
(31) 201510303504	(47) 01.11.2023	(33) United Kingdom
(32) 05.06.2015	(87) CN2017101161	(51) G10K 11/175
(33) China	10.01.2019	A61B 5/00
(51) G09G 3/20	(22) 11.09.2017	(11) EP3961619
G09G 5/10	(54) AMOLED PIXEL DRIVING CIRCUIT	(21) EP19930120.1
G09G 3/3225	AND PIXEL DRIVING METHOD	(47) 01.11.2023
(11) EP3629318	(73) Shenzhen China Star Optoelectronics	(87) JP2019020243
(21) EP19199523.2	Semiconductor Display Technology Co.,	26.11.2020
(47) 01.11.2023	Ltd.	(22) 22.05.2019
(22) 25.09.2019	(72) CHEN, Xiaolong	(54) INFORMATION PROCESSING DEVICE,
(54) METHOD AND APPARATUS FOR	(31) 201710546473	SOUND MASKING SYSTEM, CONTROL
COMPENSATING OPERATING	(32) 06.07.2017	METHOD, AND CONTROL PROGRAM
PARAMETER OF DISPLAY CIRCUIT	(33) China	(73) Mitsubishi Electric Corporation
(73) Beijing Xiaomi Mobile Software Co., Ltd.	(51) G09G 3/36	(72) HANDA, Kaori
(72) Zhang, Yuan	G11C 19/28	KIMURA, Masaru
(31) 201811126004	(11) EP3611720	(51) G10L 15/22
(32) 26.09.2018	(21) EP17902276.9	G06F 3/16
(33) China	(47) 01.11.2023	H04M 1/724
(51) G09G 3/32	(87) CN2017101848	G10L 17/00
(11) EP4027327	27.09.2018	G10L 15/08
(21) EP19944219.5	(22) 15.09.2017	H04M 1/72451
(47) 01.11.2023	(54) SHIFT REGISTER UNIT, GATE DRIVING	(11) EP3807875
(87) CN2019104235	CIRCUIT, AND DRIVING METHOD	(21) EP18759811.5
11.03.2021	(73) BOE Technology Group Co., Ltd.	(47) 01.11.2023
(22) 03.09.2019	Hefei Xinsheng Optoelectronics	(87) US2018045924
(54) PIXEL DRIVING CIRCUIT, PIXEL	Technology Co., Ltd.	13.02.2020
DRIVING METHOD, DISPLAY PANEL,	(72) LI, Meng	(22) 09.08.2018
AND DISPLAY DEVICE	LI, Yongqian	(54) HOTWORD RECOGNITION AND
(73) BOE Technology Group Co., Ltd.	XU, Pan	PASSIVE ASSISTANCE
(72) XUAN, Minghua	ZHANG, Miao	(73) Google LLC
CHEN, Xiaochuan	(31) 201710166678	(72) ALTHAUS, Jan
LIU, Dongni	(32) 20.03.2017	SHARIFI, Matthew
(51) G09G 3/3233	(33) China	(51) G10L 15/32
(11) EP3564938	(51) G09G 5/10	G06F 3/16
(21) EP19172155.4	(11) EP3813056	H04W 4/44
(47) 01.11.2023	(21) EP19852105.6	G06F 40/205
(22) 02.05.2019	(47) 01.11.2023	G10L 15/30
(54) DRIVING VOLTAGE SETTING DEVICE	(87) KR2019009887	G10L 15/183
AND METHOD OF SETTING DRIVING	27.02.2020	G10L 15/22
VOLTAGE FOR DISPLAY DEVICE	(22) 07.08.2019	(11) EP3958256
(73) Samsung Display Co., Ltd.	(54) DISPLAY DEVICE AND METHOD	(21) EP21213354.0
(72) Pyo, Si Beak	FOR CONTROLLING BRIGHTNESS	(47) 01.11.2023
(31) 20180051333	THEREOF	(22) 09.12.2021
(32) 03.05.2018	(73) Samsung Electronics Co., Ltd.	(54) VOICE PROCESSING METHOD,
(33) Korea (Republic)	(72) LIM, Jaemoon	APPARATUS, DEVICE AND STORAGE
(51) G09G 3/3233	KIM, Joseph	MEDIUM FOR VEHICLE-MOUNTED
	JEONG, Younghoon	DEVICE

(73) Apollo Intelligent Connectivity (Beijing) Technology Co., Ltd.	(73) Dolby International AB	(11) EP3846165
(72) WANG, Kun	(72) Leif Jonas, SAMUELSSON	(21) EP20199583.4
HE, Xueyan	PURNHAGEN, Heiko	(47) 01.11.2023
HE, Wence	(31) 201361827264 P	(22) 01.10.2020
(31) 202011530797	(32) 24.05.2013	(54) AUTOMATIC TONEARM LIFTER
(32) 22.12.2020	(33) United States of America	(73) Ya Horng Electronic Co., Ltd.
(33) China	(51) G10L 21/0232	Thorens GmbH
(51) G10L 17/00	H04R 21/439	(72) HUANG, Jin-Yi
H04R 3/00	G10L 25/78	KÜRTEN, Gunter
G10L 21/0216	G10L 21/0208	(31) 108148705
G10L 15/26	(11) EP3375195	(32) 31.12.2019
(11) EP3824653	(21) EP16864703.0	(33) Taiwan, Chinese Taipei
(21) EP19755979.2	(47) 01.11.2023	(51) G11C 7/06
(47) 01.11.2023	(87) US2016043819	(11) EP3926628
(87) NL2019050450	18.05.2017	(21) EP21765813.7
23.01.2020	(22) 25.07.2016	(47) 01.11.2023
(22) 16.07.2019	(54) ANNOYANCE NOISE SUPPRESSION	(87) CN2021073804
(54) METHODS FOR A VOICE PROCESSING SYSTEM	(73) Dolby Laboratories Licensing Corporation	07.10.2021
(73) SPEAKSEE HOLDING B.V.	(72) KLIMANIS, Gints	(22) 26.01.2021
(72) VAN DER VEN, Marcellus Wilhelmus	PARKS, Anthony	(54) SENSE AMPLIFIER, MEMORY, AND DATA READ-OUT METHOD
HAZELEBACH, Jari Tamas	LANMAN III, Richard Fritz	(73) Changxin Memory Technologies, Inc.
(31) 2021308	KRAFT, Noah	(72) CAO, Kanyu
(32) 16.07.2018	JAFFE, Matthew J.	CHI, Sungsoo
(33) Netherlands	BAKER, Jeff	SHANG, WeiBing
(51) G10L 19/008	(31) 201514952761	WANG, Ying
G10L 19/00	201514941458	(31) 202010237828
G10L 19/02	(32) 25.11.2015	(32) 30.03.2020
G10L 19/04	13.11.2015	(33) China
G10L 19/12	(33) United States of America	(51) G11C 11/16
G10L 19/20	United States of America	G11C 7/10
(11) EP3493204	(51) G10L 21/0364	G11C 7/20
(21) EP18215268.6	G10L 21/0208	G11C 29/00
(47) 01.11.2023	G10L 25/63	(11) EP3520108
(22) 14.07.2009	(11) EP3792918	(21) EP17857235.0
(54) METHOD FOR ENCODING OF INTEGRATED SPEECH AND AUDIO	(21) EP20195635.6	(47) 01.11.2023
(73) Electronics and Telecommunications Research Institute	(47) 01.11.2023	(87) US2017052953
Kwangwoon University Industry-Academic Collaboration Foundation	(22) 11.09.2020	05.04.2018
(72) LEE, Tae Jin	(54) DIGITAL AUTOMATIC GAIN CONTROL METHOD AND APPARATUS	(22) 22.09.2017
BEACK, Seung Kwon	(73) Yealink (Xiamen) Network Technology Co., Ltd.	(54) A METHOD OF READING DATA FROM A MEMORY DEVICE USING DYNAMIC REDUNDANCY REGISTERS
KIM, Minje	(72) HE, Zhihui	(73) Integrated Silicon Solution, (Cayman) Inc.
JANG, Dae Young	LIN, Lifeng	(72) EL BARAJI, Mourad
SEO, Jeongil	KANG, Yuanxun	BERGER, Neal
KANG, Kyeongok	(31) 201910860075	LOUIE, Benjamin, Stanley
HONG, Jin Woo	(32) 11.09.2019	CRUDELE, Lester, M.
PARK, Hochong	(33) China	HILLMAN, Daniel, L.
PARK, Young-cheol	(51) G10L 21/038	(31) 201615277799
(31) 20090061608	G10L 19/24	(32) 27.09.2016
20080134297	(11) EP4224474	(33) United States of America
20080068369	(21) EP23180373.5	(51) G11C 11/16
(32) 07.07.2009	(47) 01.11.2023	H10N 50/10
26.12.2008	(22) 11.12.2009	H10N 50/85
14.07.2008	(54) AUDIO BANDWIDTH EXTENSION DECODER, CORRESPONDING METHOD AND COMPUTER PROGRAM	(11) EP3979345
(33) Korea (Republic)	(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	(21) EP21205243.5
Korea (Republic)	(72) NAGEL, Frederik	(47) 01.11.2023
Korea (Republic)	FUCHS, Guillaume	(22) 13.11.2018
(51) G10L 19/038	DISCH, Sascha	(54) MAGNETORESISTIVE STACK
G10L 19/008	HERRE, Jürgen	(73) Everspin Technologies, Inc.
G10L 19/00	GRIEBEL, Christian	(72) SUN, Jijun
(11) EP3961622	(31) 122552 P	SLAUGHTER, Jon
(21) EP21198240.0	(32) 15.12.2008	WHIG, Renu
(47) 01.11.2023	(33) United States of America	(31) 201762591945 P
(22) 23.05.2014	(51) G11B 3/32	(32) 29.11.2017
(54) AUDIO ENCODER	G11B 3/085	(33) United States of America
		(51) G11C 11/56



G11C 11/22	(22) 21.06.2013	(54) SYSTEMS AND METHODS FOR
H04B 3/32	(54) SYSTEMS AND METHODS FOR	PATIENT-SPECIFIC IMAGING AND
(11) EP3841577	GENERATING BIOMARKER	MODELING OF DRUG DELIVERY
(21) EP19851239.4	SIGNATURES WITH INTEGRATED	(73) HeartFlow, Inc.
(47) 01.11.2023	DUAL ENSEMBLE AND GENERALIZED	(72) CHOI, Gilwoo
(87) US2019046406	SIMULATED ANNEALING	GRADY, Leo
27.02.2020	TECHNIQUES	TAYLOR, Charles A.
(22) 13.08.2019	(73) Philip Morris Products S.A.	HUNLEY, Stanley, C.
(54) PRE-DISTORTION FOR MULTI-LEVEL	(72) XIANG, Yang	(31) 201562219490 P
SIGNALING	HOENG, Julia	(32) 16.09.2015
(73) MICRON TECHNOLOGY, INC.	MARTIN, Florian	(33) United States of America
(72) SPIRKL, Wolfgang, Anton	(31) 201261662812 P	(51) G16H 20/17
RICHTER, Michael, Dieter	(32) 21.06.2012	G16H 40/67
BROX, Martin	(33) United States of America	H04L 9/32
MAYER, Peter	(51) G16H 15/00	H04W 12/041
HEIN, Thomas	G16H 30/40	H04W 12/0471
(31) 201916538301	G21C 3/00	H04W 12/069
201862720813 P	(11) EP3766078	H04W 12/50
(32) 12.08.2019	(21) EP19711587.6	(11) EP3639274
21.08.2018	(47) 01.11.2023	(21) EP18732707.7
(33) United States of America	(87) EP2019056577	(47) 01.11.2023
United States of America	19.09.2019	(87) EP2018065661
(51) G16B 25/10	(22) 15.03.2019	20.12.2018
(11) EP4022623	(54) METHOD AND SYSTEM FOR	(22) 13.06.2018
(21) EP20751143.7	GENERATING MEDICAL IMAGE BASED	(54) A DIALYSIS MACHINE, EXTERNAL
(47) 01.11.2023	ON TEXTUAL DATA IN MEDICAL	MEDICAL EQUIPMENT AND METHODS
(87) EP2020071981	REPORT	FOR ESTABLISHING SECURE
04.03.2021	(73) Koninklijke Philips N.V.	COMMUNICATION BETWEEN A
(22) 05.08.2020	(72) FARRI, Oladimeji, Feyisetan	DIALYSIS MACHINE AND EXTERNAL
(54) METHOD AND KIT TO PREDICT CELL	SREENIVASAN, Rithesh	MEDICAL EQUIPMENT
DEATH IN RESPONSE TO BIOTIC AND/	BASAWARAJ PATIL OKALY, Vikram	(73) Baxter International Inc.
OR ABIOTIC STIMULI	PATIL, Ravindra, Balasaheb	Baxter Healthcare SA
(73) Stazione Zoologica Anton Dohrn	PALANISAMY, Krishnamoorthy	(72) EKDAHL, Olof
(72) IANORA, Adrianna	(31) 201862643816 P	WENNBERG, Bo
SANSONE, Clementina	(32) 16.03.2018	EKLUND, Niklas
CHIUSANO, Maria Luisa	(33) United States of America	KARLSSON, Christian
ROMANO, Giovanna	(51) G16H 20/00	MA, Ding
GALASSO, Christian	A61B 5/00	(31) 1750761
TANGHERLINI, Michael	A61B 5/369	201762519994 P
BRUNET, Christophe	A61M 21/00	(32) 15.06.2017
(31) 201900012624	A61M 21/02	15.06.2017
(32) 26.08.2019	(11) EP3729445	(33) Sweden
(33) Italy	(21) EP18830470.3	United States of America
(51) G16B 30/00	(47) 01.11.2023	(51) G16H 20/40
G16B 45/00	(87) EP2018086061	G16H 40/63
(11) EP3642746	27.06.2019	A61M 1/28
(21) EP18731102.2	(22) 20.12.2018	(11) EP3637427
(47) 01.11.2023	(54) SLEEP STAGE PREDICTION AND	(21) EP19207114.0
(87) EP2018066278	INTERVENTION PREPARATION BASED	(47) 01.11.2023
27.12.2018	THEREON	(22) 23.01.2009
(22) 19.06.2018	(73) Koninklijke Philips N.V.	(54) DISPOSABLE COMPONENTS FOR
(54) METHOD AND APPARATUS FOR	(72) GARCIA MOLINA, Gary, Nelson	FLUID LINE AUTOCONNECT SYSTEMS
PERFORMING A NORMALIZATION	BRESCH, Erik	AND METHODS
IN THE CONTEXT OF SEQUENCING	GROSSEKATHÖFER, Ulf	(73) DEKA Products Limited Partnership
ANALYSIS	HEINRICH, Adrienne	(72) McGill, David W.
(73) Qiagen GmbH	PASTOOR, Sander, Theodoor	Scarpaci, Jacob W.
(72) OESTERREICH CARRILLO, Fernando	(31) 201762608646 P	Dale, James D.
LOHEL, Maiko	(32) 21.12.2017	Helmore, Simon C.
ZERFASS, Thorsten	(33) United States of America	Demers, Jason A.
(31) 17177001	(51) G16H 20/10	(31) 58469 P
(32) 20.06.2017	G16H 50/50	11967 P
(33) European Patent Office (EPO)	(11) EP3350731	(32) 03.06.2008
(51) G16B 40/20	(21) EP16779220.9	23.01.2008
(11) EP2864919	(47) 01.11.2023	(33) United States of America
(21) EP13731739.2	(87) US2016052301	United States of America
(47) 01.11.2023	23.03.2017	(51) G16H 30/40
(87) EP2013062982	(22) 16.09.2016	G06N 3/04
27.12.2013		G06T 7/00

G06N 3/084	(21) EP21704351.2	G21C 17/10
G06N 3/045	(47) 01.11.2023	G01T 1/24
G06N 3/047	(87) US2021013305	H01L 31/0232
(11) EP3511942	29.07.2021	H01L 31/10
(21) EP19151565.9	(22) 13.01.2021	H01L 31/115
(47) 01.11.2023	(54) AUTOMATED CONVERSION OF DRUG	(11) EP4109473
(22) 14.01.2019	LIBRARIES	(21) EP22000179.6
(54) CROSS-DOMAIN IMAGE ANALYSIS	(73) CareFusion 303, Inc.	(47) 01.11.2023
USING DEEP IMAGE-TO-IMAGE	(72) CHEN, Evan	(22) 10.06.2020
NETWORKS AND ADVERSARIAL	KNIGHT, Claire	(54) METHOD TO DETECT AND LOCATE
NETWORKS	SULLIVAN, Brian	THE IN-CORE POSITION OF
(73) Siemens Healthcare GmbH	(31) 202062965107 P	FUEL BUNDLES WITH CLADDING
(72) ZHOU, Shaohua Kevin	(32) 23.01.2020	PERFORATIONS IN CANDU-STYLE
MIAO, Shun	(33) United States of America	NUCLEAR REACTORS
LIAO, Rui	(51) G16H 40/63	(73) Westinghouse Electric Company Llc
TUYSUZOGLU, Ahmet	H04W 12/06	(72) Heibel, Michael D.
ZHENG, Yefeng	(11) EP3537959	Arndt, Jeffrey L.
(31) 201815872408	(21) EP17891497.4	(31) 201916439061
(32) 16.01.2018	(47) 01.11.2023	(32) 12.06.2019
(33) United States of America	(87) US2017060169	(33) United States of America
(51) G16H 40/60	19.07.2018	(51) H01B 1/06
G16H 20/17	(22) 06.11.2017	H01M 4/62
A61M 5/14	(54) SYSTEMS AND METHODS	H01M 10/052
A61M 5/142	FOR WIRELESS PHYSIOLOGY	H01M 10/0562
G16H 40/40	MONITORING	C01F 17/36
G16H 40/67	(73) 3M Innovative Properties Company	C01G 25/00
(11) EP3160545	(72) BEDINGHAM, William	C01G 27/00
(21) EP15814101.0	ZINN, Jeffrey G.	(11) EP3736831
(47) 01.11.2023	(31) 201662421063 P	(21) EP18898736.6
(87) US2015038633	(32) 11.11.2016	(47) 01.11.2023
07.01.2016	(33) United States of America	(87) JP2018041898
(22) 30.06.2015	(51) G21C 13/02	11.07.2019
(54) INFUSION PUMP ERROR DISPLAY	G21C 15/22	(22) 13.11.2018
(73) ICU Medical, Inc.	G21C 15/02	(54) SOLID ELECTROLYTE MATERIAL AND
(72) MILLS, Gary	G21C 15/04	BATTERY
WILSON, Kristina	G21C 3/40	(73) Panasonic Intellectual Property
CUDNEY, James	G21C 21/00	Management Co., Ltd.
COZMI, Mihaela	G21C 3/38	(72) SAKAI Akihiro
MARKER, Wanda	G21C 5/02	ASANO, Tetsuya
RINDA, Jeffrey	G21C 5/14	SAKAIDA Masashi
KRABBE, Dennis	G21C 7/10	NISHIO Yusuke
(31) 201462019198 P	G21C 7/14	MIYAZAKI Akinobu
(32) 30.06.2014	G21C 7/18	HASEGAWA Shinya
(33) United States of America	B22F 10/85	(31) 2018000429
(51) G16H 40/60	B22F 12/90	(32) 05.01.2018
G16H 20/30	(11) EP3815112	(33) Japan
(11) EP3316259	(21) EP19825028.4	(51) H01B 3/02
(21) EP17199545.9	(47) 01.11.2023	H01B 3/20
(47) 01.11.2023	(87) US2019038253	H01B 7/29
(22) 01.11.2017	02.01.2020	H01B 17/32
(54) METHOD FOR RECOGNIZING USER	(22) 20.06.2019	H01B 17/34
ACTIVITY AND ELECTRONIC DEVICE	(54) UNIVERSAL INVERTED REACTOR	H01B 7/00
FOR THE SAME	AND METHOD FOR DESIGN AND	(11) EP3640953
(73) Samsung Electronics Co., Ltd.	MANUFACTURE OF UNIVERSAL	(21) EP19198372.5
(72) Jo, Yanggu	INVERTED REACTOR	(47) 01.11.2023
Ryu, Seungbeom	(73) BWXT Nuclear Energy, Inc.	(22) 19.09.2019
Lee, Byungjun	(72) RUSSELL, II, William E.	(54) COAXIAL CABLE SYSTEM FOR GAS
Lee, Wonhee	BERGMAN, Joshua J.	TURBINE ENGINE
Kang, Jeong Gwan	CIRTAİN, Jonathan W.	(73) Rolls-Royce Corporation
Kim, Taeho	GRAMLICH, Craig D.	(72) Costello, John
Park, Jeong-Min	INMAN, James B.	Dalley, Robert
(31) 20160144215	LEVASSEUR, Matthew P.	(31) 201816191062
(32) 01.11.2016	MILLER, Joseph K.	201862748076 P
(33) Korea (Republic)	ZIEGLER, Ryan Z.	(32) 14.11.2018
(51) G16H 40/63	(31) 201862688255 P	19.10.2018
G16H 40/67	(32) 21.06.2018	(33) United States of America
G16H 40/40	(33) United States of America	United States of America
(11) EP4094270	(51) G21C 17/04	(51) H01B 3/56

(11) EP3987553	ENCODING A PROGRAMMABLE AND/	(54) POWER MODULE
(21) EP20715062.4	OR REPROGRAMMABLE MAGNETIC	(73) Delta Electronics (Shanghai) Co., Ltd.
(47) 01.11.2023	SOFT DEVICE	(72) LAN, Lin
(87) EP2020059011	(73) Max-Planck-Gesellschaft zur Förderung	ZHANG, Weiqiang
24.12.2020	der Wissenschaften e.V.	ZHANG, Quanliang
(22) 30.03.2020	(72) Alapan, Yunus	(31) 201911055495
(54) DIELECTRIC-INSULATION OR ARC- EXTINCTION FLUID	Karacakol, Alp	(32) 31.10.2019
(73) Hitachi Energy Switzerland AG	Sitti, Metin	(33) China
(72) TEPPATI, Valeria	(51) H01F 1/18	(51) H01F 27/02
BUFFONI, Saskia	C09D 5/08	H01F 27/22
DOIRON, Charles	C09D 7/61	(11) EP3796342
OVER, Daniel	C09D 7/40	(21) EP19382808.4
SIMKA, Philipp	C08K 3/32	(47) 01.11.2023
RADISAVLJEVIC, Branimir	H01F 1/147	(22) 18.09.2019
(31) 19181655	(11) EP3836169	(54) A POWER TRANSFORMER ASSEMBLY
(32) 21.06.2019	(21) EP21152940.9	AND A THERMAL CONDUCTIVE
(33) European Patent Office (EPO)	(47) 01.11.2023	COMPOUND FOR SEALING A POWER
(51) H01B 5/14	(22) 02.09.2010	TRANSFORMER ASSEMBLY
H01B 13/00	(54) ELECTRICAL STEEL SHEET AND	(73) Premo, S.A.
C03C 17/36	METHOD FOR MANUFACTURING THE	(72) NAVARRO PÉREZ, Francisco Ezequiel
(11) EP4020502	SAME	(51) H01F 38/14
(21) EP20900882.0	(73) Nippon Steel Corporation	H01F 27/255
(47) 01.11.2023	(72) TAKEDA, Kazutoshi	H01F 27/36
(87) CN2020128329	KOSUGE, Kenji	H01F 27/28
24.06.2021	ARAI, Satoshi	H01F 27/40
(22) 12.11.2020	ISHIZUKA, Kiyokazu	B60L 53/12
(54) ELECTRONIC DEVICE COMPRISING A	(31) 2009213486	H02J 7/00
CONDUCTIVE ELECTRODE	(32) 15.09.2009	H02J 50/70
(73) Honor Device Co., Ltd.	(33) Japan	H02J 50/12
(72) SHANG, Panju	(51) H01F 1/40	H02J 50/00
SI, Hui	H01F 10/193	(11) EP3679639
YOU, Jinsong	(11) EP3794618	(21) EP18853480.4
ZHENG, Hong	(21) EP19727294.1	(47) 01.11.2023
WU, Bin	(47) 01.11.2023	(87) US2018049783
(31) 201911329101	(87) EP2019061778	14.03.2019
(32) 20.12.2019	21.11.2019	(22) 06.09.2018
(33) China	(22) 08.05.2019	(54) WIRELESS POWER TRANSFER PAD
(51) H01B 7/42	(54) RARE EARTH METAL-FREE HARD	WITH FERRITE CHIMNEY
B60L 53/18	MAGNETS	(73) Wireless Advanced Vehicle
H01B 9/00	(73) Max-Planck-Gesellschaft zur Förderung	Electrification, Inc.
(11) EP3624141	der Wissenschaften e.V.	(72) LETHELLIER, Patrice
(21) EP18194581.7	(72) STINSHOFF, Rolf	(31) 201762554960 P
(47) 01.11.2023	SAHOO, Roshnee	201762554950 P
(22) 14.09.2018	FELSER, Claudia	(32) 06.09.2017
(54) COOLABLE INDIVIDUAL LINE AND	(31) 18172355	06.09.2017
CHARGING CABLE	(32) 15.05.2018	(33) United States of America
(73) BRUGG eConnect AG	(33) European Patent Office (EPO)	United States of America
(72) MARTINEZ VALL, Albert	(51) H01F 6/02	(51) H01F 41/02
OSLISLOK, Tomasz	H01F 6/06	H01F 41/00
SEKULA, Oldrich	(11) EP3940725	H01F 41/076
DIETIKER, Hans	(21) EP21185162.1	H01F 41/061
(51) H01F 1/08	(47) 01.11.2023	H01F 17/04
H01F 1/117	(22) 10.10.2017	H01F 27/28
H01F 1/28	(54) TOROIDAL FIELD COIL ASSEMBLY	H01F 27/29
H01F 1/37	(73) Tokamak Energy Ltd	B29C 43/18
H01F 1/375	(72) SLADE, Robert	B29C 43/52
H01F 7/02	(31) 201618333	B22F 1/08
A61B 34/00	(32) 31.10.2016	B22F 1/10
H01F 13/00	(33) United Kingdom	B22F 3/12
(11) EP3905282	(51) H01F 27/02	B29K 83/00
(21) EP20171719.6	H01F 27/08	B29K 105/16
(47) 01.11.2023	H05K 7/20	B29K 505/00
(22) 28.04.2020	H02M 1/00	B29L 31/34
(54) METHOD OF FABRICATING	H02M 5/00	(11) EP3985694
PROGRAMMABLE AND/OR	(11) EP3817013	(21) EP21213756.6
REPROGRAMMABLE MAGNETIC	(21) EP20204365.9	(47) 01.11.2023
SOFT DEVICE AND METHOD OF	(47) 01.11.2023	(22) 03.09.2015
	(22) 28.10.2020	

(54) MANUFACTURING METHOD OF COIL COMPONENT	(47) 01.11.2023	H01H 31/36
(73) SUMIDA CORPORATION	(87) GB2017050662	(11) EP3857583
(72) TAKAHASHI, Motomi	14.09.2017	(21) EP19769075.3
KAJIYAMA, Tomohiro	(22) 10.03.2017	(47) 01.11.2023
TANAKA, Teruaki	(54) SUPERCAPACITOR ASSEMBLY AND METHOD OF OPERATING A SUPERCAPACITOR	(87) EP2019073401
SAKAMOTO, Shinichi	(73) Oxcion Limited	02.04.2020
OKI, Juichi	(72) VOLLER, Stephen David	(22) 03.09.2019
KAWARAI, Mitsugu	WALDER, Timothy	(54) CONTACT ARM AND CONTACT-ESTABLISHING METHOD FOR A DISCONNECT SWITCH
OTSUKA, Tsutomu	RAJENDRAN, Marappa	(73) Siemens Energy Global GmbH & Co. KG
(31) 201410462552	TUCK, Jonathan	(72) ROHMANN, Mariusz
(32) 11.09.2014	(31) 201612687	SCHRÄDER, Dirk
(33) China	201604133	(31) 102018216721
(51) H01G 2/06	(32) 21.07.2016	(32) 28.09.2018
H01G 4/38	10.03.2016	(33) Germany
H01G 4/40	(33) United Kingdom	(51) H01H 3/26
H05K 1/18	United Kingdom	(11) EP3963617
H05K 3/34	(51) H01G 11/78	(21) EP20721217.6
H01G 4/30	H01G 11/82	(47) 01.11.2023
(11) EP4035193	H01G 11/84	(87) EP2020061293
(21) EP20780637.3	H01M 50/116	19.11.2020
(47) 01.11.2023	H01M 50/119	(22) 23.04.2020
(87) EP2020076586	H01M 50/121	(54) DRIVE SYSTEM FOR A SWITCH, AND METHOD FOR DRIVING A SWITCH
01.04.2021	H01M 50/129	(73) Maschinenfabrik Reinhausen GmbH
(22) 23.09.2020	H01M 50/186	(72) PRÜSSING, Kathrin
(54) CAPACITOR ASSEMBLY	H01M 50/55	SCHMEISSER, Michael
(73) Prodrive Technologies Innovation Services B.V.	(11) EP3267506	SCHIMBERA, Jürgen
(72) HAGENAAR, Michel Alexander	(21) EP16758949.8	ZERR, Eduard
VRIJSEN, Nilles Henricus	(47) 01.11.2023	SCHMID, Sebastian
TEN HAVE, Roel	(87) JP2016056393	IXMEIER, Klaus
(31) 2023889	09.09.2016	DITTMANN, Benjamin
(32) 24.09.2019	(22) 02.03.2016	NAGEL, Eugen
(33) Netherlands	(54) OUTER PACKAGING MATERIAL FOR ELECTRICITY STORAGE DEVICE AND ELECTRICITY STORAGE DEVICE USING SAME	HABENSCHADEN, Franz
(51) H01G 11/24	(73) Toppan Printing Co., Ltd.	(31) 102019112716
H01G 11/28	(72) IJUN Wataru	(32) 15.05.2019
H01G 11/32	SASAKI Satoshi	(33) Germany
H01G 11/52	(31) 2015041271	(51) H01H 7/10
H01G 11/60	2015041274	H01H 9/54
H01G 11/62	(32) 03.03.2015	H01H 33/59
H01G 11/68	03.03.2015	H02H 3/087
H01G 11/70	(33) Japan	H01H 71/10
H01G 11/82	Japan	H01H 83/20
H01G 11/78	(51) H01G 11/86	(11) EP3475963
H01G 11/36	H01G 11/06	(21) EP17730485.4
(11) EP3459096	H01G 11/42	(47) 01.11.2023
(21) EP17800093.1	H01M 4/36	(87) EP2017064797
(47) 01.11.2023	H01M 4/587	28.12.2017
(87) US2017033117	(11) EP3076417	(22) 16.06.2017
23.11.2017	(21) EP14866727.2	(54) HYBRID DC CIRCUIT BREAKER
(22) 17.05.2017	(47) 01.11.2023	(73) Eaton Intelligent Power Limited
(54) ELECTRODE COMPRISING WHISKERS AND CARBON PARTICLES FOR AN ULTRACAPACITOR	(87) JP2014081769	(72) NIEHOFF, Ronaldus
(73) KYOCERA AVX Components Corporation	04.06.2015	(31) 201610901
(72) KNOPSNYDER, Jonathan Robert	(22) 01.12.2014	(32) 22.06.2016
RAWAL, Bharat	(54) NEGATIVE-ELECTRODE ACTIVE MATERIAL FOR LITHIUM ION CAPACITOR	(33) United Kingdom
(31) 201662339147 P	(73) Nippon Carbon Co., Ltd.	(51) H01H 9/00
(32) 20.05.2016	(72) HONGAWA, Ken-ichi	H01F 27/02
(33) United States of America	YAMASHITA, Kazuaki	H01H 33/56
(51) H01G 11/58	(31) 2013247109	(11) EP3761332
H01G 11/62	(32) 29.11.2013	(21) EP19183661.8
H01G 11/14	(33) Japan	(47) 01.11.2023
H01G 11/18	(51) H01H 1/06	(22) 01.07.2019
H01G 11/36	H01H 31/02	(54) AN ON-LOAD TAP CHANGER INCLUDING AN INSULATION BARRIER
(11) EP3427281		(73) Hitachi Energy Switzerland AG
(21) EP17711293.5		(72) HEDSTEN, Harald
		MATHAE, Jean Louis Gérard

KRAINER, Per	(11) EP3089188	Tiemeijer, Peter Christiaan
SVANBERG, Magnus	(21) EP14875418.7	(51) H01J 37/26
JOHANSSON, Anders C.	(47) 01.11.2023	G01N 23/2251
KETABI, Kevin	(87) JP2014074073	H01J 49/16
OLOFQVIST, Kristoffer	02.07.2015	(11) EP3758043
FORSMAN, Daniel	(22) 11.09.2014	(21) EP20182790.4
(51) H01H 9/16	(54) OPENING AND CLOSING DEVICE	(47) 01.11.2023
(11) EP4100979	(73) Mitsubishi Electric Corporation	(22) 29.06.2020
(21) EP21702718.4	(72) KAKIO, Masayuki	(54) SYSTEM FOR PREPARATION AND
(47) 01.11.2023	KASHIWA, Munetaka	DELIVERY OF BIOLOGICAL SAMPLES
(87) IB2021050542	YAMADA, Shintaro	FOR CHARGED PARTICLE ANALYSIS
12.08.2021	MATSUNAGA, Toshihiro	(73) FEI Company
(22) 25.01.2021	(31) 2013268771	(72) Straw, Marcus
(54) METHOD AND CIRCUIT FOR	(32) 26.12.2013	Makarov, Alexander
ENABLING A DIRECT CURRENT	(33) Japan	Gilbert, Josh
SOURCE TO POWER A LOAD CIRCUIT	(51) H01H 33/91	Torok, Aaron
DESIGNED FOR ALTERNATING	(11) EP3309810	Christian, Joseph
CURRENT INPUT	(21) EP17191726.3	Bahm, Alan
(73) Poweroptimal (Pty) Ltd	(47) 01.11.2023	Liu, Kun
(72) THERON, Jacob Johannes	(22) 19.09.2017	Nichols, Tom
(31) 202001707	(54) SWITCHING ASSEMBLY	Kosmoski, Jeff
(32) 07.02.2020	(73) Siemens Energy Global GmbH & Co. KG	Grinfeld, Dmitry
(33) United Kingdom	(72) Dengler, Christian	TRIVEDI, Dhruvi
(51) H01H 9/16	Fröbel, Sascha	MELLIN, Samantha
H03M 11/24	Schmidtke, Markus	HOFFMAN, Gregory
H01H 9/06	Groiss, Andreas	(31) 201962868648 P
B64C 13/04	(31) 102016219812	(32) 28.06.2019
B64C 27/56	(32) 12.10.2016	(33) United States of America
(11) EP3590121	(33) Germany	(51) H01J 49/42
(21) EP18710086.2	(51) H01H 47/00	H01J 49/00
(47) 01.11.2023	H01H 1/20	(11) EP3901985
(87) FR2018000035	H01H 47/32	(21) EP21172703.7
07.09.2018	(11) EP3806126	(47) 01.11.2023
(22) 23.02.2018	(21) EP19201657.4	(22) 02.02.2017
(54) REDUNDANT AND DISSIMILAR	(47) 01.11.2023	(54) SEGMENTED LINEAR ION TRAP FOR
SYSTEM FOR MONITORING THE	(22) 07.10.2019	ENHANCED ION ACTIVATION AND
STATUS OF CONTROL CONTACTORS	(54) ASSEMBLY FOR AND METHOD OF	STORAGE
OF AN AIRCRAFT CONTROL STICK	MONITORING THE STATUS OF A	(73) FASMATECH SCIENCE &
(73) Airbus Helicopters	RELAY	TECHNOLOGY SA (FASMATEK
(72) LAFFISSE, Jean-François	(73) TE Connectivity Germany GmbH	EPITIMONIKI KAI TECHNOLOGIKI
IZZO, Pascal	(72) KROEKER, Matthias	ANONYMI ETAIREIA)
(31) 1700194	LINDNER, Christian	(72) RAPTAKIS, Emmanuel
(32) 28.02.2017	KOCH, Harry	PAPANASTASIOU, Dimitris
(33) France	SANDECK, Peter	(31) 201615015101
(51) H01H 33/24	(51) H01H 71/04	(32) 03.02.2016
H01H 33/70	(11) EP4020515	(33) United States of America
H01H 33/02	(21) EP21211882.2	(51) H01L 21/027
(11) EP4018466	(47) 01.11.2023	G03F 7/00
(21) EP20771462.7	(22) 02.12.2021	(11) EP3614418
(47) 01.11.2023	(54) CIRCUIT BREAKER HANDLE	(21) EP19196444.4
(87) EP2020074203	INDICATION USING OPTO-	(47) 01.11.2023
01.04.2021	MECHANICAL DESIGN	(22) 26.02.2009
(22) 31.08.2020	(73) Schneider Electric USA, Inc.	(54) TOUCH SCREEN SENSOR
(54) ASSEMBLY FOR A HIGH-VOLTAGE	(72) Mittelstadt, Chad R.	(73) 3M Innovative Properties Company
CIRCUIT BREAKER, AND	(31) 202017130179	(72) FREY, Matthew H.
CORRESPONDING HIGH-VOLTAGE	(32) 22.12.2020	ZU, Lijun
CIRCUIT BREAKER	(33) United States of America	HAGERMOSER, Edward S.
(73) Siemens Energy Global GmbH & Co. KG	(51) H01J 37/05	(31) 8576408 P
(72) CERNAT, Radu-Marian	H01J 37/26	8549608 P
HÜBNER, Sebastian	(11) EP3496129	3227308 P
KREHNKE, Martin	(21) EP17205782.0	3226908 P
(31) 102019214432	(47) 01.11.2023	(32) 01.08.2008
(32) 23.09.2019	(22) 07.12.2017	01.08.2008
(33) Germany	(54) TRANSMISSION CHARGED PARTICLE	28.02.2008
(51) H01H 33/666	MICROSCOPE WITH IMPROVED EELS/	28.02.2008
H01H 33/42	EFTEM MODULE	(33) United States of America
H01H 1/50	(73) FEI Company	United States of America
H01H 3/60	(72) Henstra, Alexander	United States of America

<p>United States of America</p> <hr/> <p>(51) H01L 21/18 H01L 21/02 H01L 21/762</p> <p>(11) EP4088309 (21) EP20845202.9 (47) 01.11.2023 (87) FR2020052439 15.07.2021 (22) 15.12.2020 (54) METHOD OF JOINING TWO SEMI-CONDUCTOR SUBSTRATES</p> <p>(73) SOITEC (72) GAUDIN, Gweltaz FUTIN, Céline</p> <p>(31) 2000140 (32) 09.01.2020 (33) France</p> <hr/> <p>(51) H01L 21/304 B24B 37/24 C08J 5/14 B24B 37/04</p> <p>(11) EP3493244 (21) EP17834430.5 (47) 01.11.2023 (87) JP2017027095 01.02.2018 (22) 26.07.2017 (54) POLISHING PAD AND POLISHING METHOD USING SAME</p> <p>(73) Kuraray Co., Ltd. (72) TAKEGOSHI, Minori KATO, Mitsuru OKAMOTO, Chihiro KATO, Shinya</p> <p>(31) 2016150389 (32) 29.07.2016 (33) Japan</p> <hr/> <p>(51) H01L 21/311 H01L 29/66</p> <p>(11) EP3764390 (21) EP20185199.5 (47) 01.11.2023 (22) 10.07.2020 (54) METHOD OF FORMING SPACERS OF A TRANSISTOR</p> <p>(73) Commissariat à l'Energie Atomique et aux Energies Alternatives Centre National de la Recherche Scientifique Université Grenoble Alpes</p> <p>(72) POSSEME, Nicolas BONVALOT, Marceline CHAKER, Ahmad VALLEE, Christophe</p> <p>(31) 1907836 (32) 11.07.2019 (33) France</p> <hr/> <p>(51) H01L 21/314 (11) EP2994933 (21) EP14727142.3 (47) 01.11.2023 (87) US2014036405 13.11.2014 (22) 01.05.2014 (54) DIRECT AND SEQUENTIAL FORMATION OF MONOLAYERS OF</p>	<p>BORON NITRIDE AND GRAPHENE ON SUBSTRATES</p> <p>(73) GlobalWafers Co., Ltd. Kansas State University Research Foundation</p> <p>(72) SEACRIST, Michael R. BERRY, Vikas NGUYEN, Phong T.</p> <p>(31) 201313890316 (32) 09.05.2013 (33) United States of America</p> <hr/> <p>(51) H01L 21/48 H01L 23/367 H05K 7/20 H01L 23/373</p> <p>(11) EP4066277 (21) EP21701918.1 (47) 01.11.2023 (87) EP2021050622 02.09.2021 (22) 14.01.2021 (54) METHOD FOR MANUFACTURING A POWER MODULE UNIT</p> <p>(73) Siemens Aktiengesellschaft (72) KAPPAUF, Daniel PANICERSKI, Stanislav SCHMENGER, Jens</p> <p>(31) 20160146 (32) 28.02.2020 (33) European Patent Office (EPO)</p> <hr/> <p>(51) H01L 21/60 H05K 3/34 B23K 35/38</p> <p>(11) EP4006959 (21) EP20847093.0 (47) 01.11.2023 (87) JP2020028113 04.02.2021 (22) 20.07.2020 (54) SOLDER-ATTACHED PRODUCT MANUFACTURING DEVICE, AND SOLDER-ATTACHED PRODUCT MANUFACTURING METHOD</p> <p>(73) Origin Company, Limited (72) OZAWA, Naoto MATSUDA, Jun MARUYAMA, Megu SUZUKI, Takayuki NAGAHAMA, Masanobu</p> <p>(31) 2020097848 2019138130 (32) 04.06.2020 26.07.2019 (33) Japan Japan</p> <hr/> <p>(51) H01L 21/66 B23K 26/00 B23K 26/0622 B23K 26/08 B23K 26/354 B23K 101/40 B23K 103/00 H01L 21/268 H01L 21/67 B23K 26/03</p> <p>(11) EP3893269 (21) EP19893052.1 (47) 01.11.2023</p>	<p>(87) JP2019045461 11.06.2020 (22) 20.11.2019 (54) ANNEALING DEVICE AND ANNEALING METHOD</p> <p>(73) Sumitomo Heavy Industries, Ltd. (72) TANAKA, Teppei (31) 2018226435 (32) 03.12.2018 (33) Japan</p> <hr/> <p>(51) H01L 21/768 H01L 21/285 B81B 7/00</p> <p>(11) EP3582257 (21) EP18178068.5 (47) 01.11.2023 (22) 15.06.2018 (54) SEMICONDUCTOR DEVICE FOR USE IN HARSH MEDIA</p> <p>(73) Melexis Technologies NV (72) VAN DER WIEL, Appolonius Jacobus</p> <hr/> <p>(51) H01L 23/498 H01L 21/48 (11) EP4002428 (21) EP20306409.2 (47) 01.11.2023 (22) 19.11.2020 (54) METHOD OF MANUFACTURING AN INTERPOSER PRODUCT</p> <p>(73) Murata Manufacturing Co., Ltd. (72) GABORIEAU, Sophie YON, Dominique POMMIER, Mickael</p> <hr/> <p>(51) H01L 23/498 H01L 23/538 (11) EP3942603 (21) EP20732787.5 (47) 01.11.2023 (87) EP2020065627 17.12.2020 (22) 05.06.2020 (54) ELECTRONIC SWITCHING CIRCUIT AND METHOD FOR PRODUCING SAME</p> <p>(73) Siemens Aktiengesellschaft (72) BIGL, Thomas HENSLER, Alexander NEUGEBAUER, Stephan PFEFFERLEIN, Stefan</p> <p>(31) 19179441 (32) 11.06.2019 (33) European Patent Office (EPO)</p> <hr/> <p>(51) H01L 23/522 (11) EP3729532 (21) EP17935502.9 (47) 01.11.2023 (87) US2017067094 27.06.2019 (22) 18.12.2017 (54) COMPOUND CAPACITOR STRUCTURES</p> <p>(73) Intel Corporation (72) SIPRAK, Domagoj FRITZIN, Jonas ANANTHA KRISHNAN, Sundaravadanan</p> <hr/> <p>(51) H01L 25/075 H01L 33/00</p>
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H05B 33/12	(31) 201900016523	(11) EP3832726
H05B 33/22	(32) 18.09.2019	(21) EP19843503.4
G09F 9/33	(33) Italy	(47) 01.11.2023
F21V 8/00	(51) H01L 27/146	(87) JP2019028494
(11) EP4033532	G01S 17/89	06.02.2020
(21) EP22162182.4	H01L 31/10	(22) 19.07.2019
(47) 01.11.2023	(11) EP3971980	(54) IMAGING DEVICE AND ELECTRONIC APPARATUS
(22) 22.09.2016	(21) EP21207475.1	(73) Sony Semiconductor Solutions Corporation
(54) DISPLAY APPARATUS USING SEMICONDUCTOR LIGHT EMITTING DEVICE	(47) 01.11.2023	(72) MACHIDA, Takashi
(73) LG Electronics Inc.	(22) 28.02.2018	(31) 2018143491
(72) CHOI, Hwanjoon	(54) HIGH-SPEED LIGHT SENSING APPARATUS	(32) 31.07.2018
(51) H01L 27/00	(73) Artlux Inc.	(33) Japan
G09F 9/302	(72) NA, Yun-Chung	(51) H01L 29/78
H05K 5/00	LIANG, Che-Fu	H01L 21/336
H01L 25/10	CHENG, Szu-Lin	(11) EP3440706
G06F 3/14	CHEN, Shu-Lu	(21) EP16897384.0
(11) EP3029657	CHU, Kuan-Chen	(47) 01.11.2023
(21) EP15183807.5	LIN, Chung-Chih	(87) US2016025602
(47) 01.11.2023	LIU, Han-Din	05.10.2017
(22) 04.09.2015	(31) 201862617317 P	(22) 01.04.2016
(54) MULTIVISION DISPLAY SYSTEM	201862613054 P	(54) TRANSISTOR WITH THERMAL PERFORMANCE BOOST
(73) Samsung Electronics Co., Ltd.	201762561266 P	(73) INTEL Corporation
(72) CHOI, Dae Su	201762534179 P	(72) LEE, Chen-Guan
IN, Woo Sung	201762504531 P	HAFEZ, Walid, M.
NOH, Jun Ki	201762485003 P	PARK, Joodong
(31) 20140169541	201762479322 P	JAN, Chia-Hong
(32) 01.12.2014	201762465139 P	CHANG, Hsu-Yu
(33) Korea (Republic)	(32) 15.01.2018	(51) H01L 31/0216
(51) H01L 27/144	03.01.2018	H01L 31/0224
G01J 5/20	21.09.2017	(11) EP4095930
G01J 5/04	18.07.2017	(21) EP22185118.1
G01J 5/02	27.05.2017	(47) 01.11.2023
H10N 15/00	10.05.2017	(22) 20.11.2020
(11) EP3933358	13.04.2017	(54) SOLAR CELL
(21) EP19917458.2	31.03.2017	(73) Zhejiang Jinko Solar Co., Ltd.
(47) 01.11.2023	28.02.2017	JINKO SOLAR CO., LTD.
(87) JP2019037204	(33) United States of America	(72) JIN, Jingsheng
03.09.2020	United States of America	ZHANG, Xinyu
(22) 24.09.2019	United States of America	YANG, Nannan
(54) INFRARED SENSOR, INFRARED SENSOR ARRAY, AND INFRARED SENSOR MANUFACTURING METHOD	United States of America	(31) 202011192543
(73) Panasonic Intellectual Property Management Co., Ltd.	United States of America	(32) 30.10.2020
(72) TAKAHASHI Kouhei	United States of America	(33) China
TAMBO Naoki	United States of America	(51) H01L 31/0232
NAKAMURA Kunihiko	(51) H01L 27/146	H01L 31/107
FUJIKANE Masaki	H01L 21/8238	H01L 31/18
NAITO Yasuyuki	H01L 27/092	H01L 27/144
(31) 2019035359	H01L 31/10	H01L 27/146
(32) 28.02.2019	(11) EP3723133	(11) EP3896746
(33) Japan	(21) EP18886044.9	(21) EP19895071.9
(51) H01L 27/146	(47) 01.11.2023	(47) 01.11.2023
(11) EP4032124	(87) JP2018045118	(87) CN2019105778
(21) EP20771852.9	13.06.2019	18.06.2020
(47) 01.11.2023	(22) 07.12.2018	(22) 12.09.2019
(87) EP2020075657	(54) PHOTOELECTRIC CONVERSION ELEMENT AND SOLID-STATE IMAGING DEVICE	(54) SINGLE-PHOTON AVALANCHE DIODE AND MANUFACTURING METHOD, DETECTOR ARRAY, AND IMAGE SENSOR
25.03.2021	(73) National University Corporation Shizuoka University	(73) Shenzhen Adaps Photonics Technology Co., Ltd.
(22) 14.09.2020	(72) KAWAHITO Shoji	(72) ZANG, Kai
(54) METHOD FOR MANUFACTURING A BACKSIDE ILLUMINATION OPTICAL SENSOR WITH IMPROVED DETECTION PARAMETERS	(31) 2017236531	LI, Shuang
(73) LFoundry S.r.l.	(32) 08.12.2017	MA, Zhijie
(72) ORGANTINI, Paolo	(33) Japan	(31) 201811524540
MARGUTTI, Giovanni	(51) H01L 27/146	(32) 13.12.2018
	H04N 23/50	(33) China

(51) H01L 31/0236 H01L 31/054 G02B 5/124 H01L 31/056 H02S 40/22 H01L 31/068 H01L 31/048 H01L 31/049	(22) 27.09.2018 (54) APPARATUS AND METHOD FOR SELF-ASSEMBLING OF SEMICONDUCTOR LIGHT-EMITTING ELEMENT (73) LG Electronics Inc. (72) SHIM, Bongchu KIM, Dohee PARK, Changseo CHO, Hyunwoo	(72) NIWA, Noritaka INAZU, Tetsuhiko SUZAKI, Yasumasa NAWATA, Akifumi TANAKA, Satoru (31) 2016194153 (32) 30.09.2016 (33) Japan
(11) EP3895219 (21) EP19817298.3 (47) 01.11.2023 (87) EP2019084640 18.06.2020 (22) 11.12.2019 (54) PHOTOVOLTAIC MODULE (73) BASF Coatings GmbH (72) MUNDUS, Markus KRABENBORG, Sven Olle BUJARD, Patrice	(31) 20180084147 20180045723 (32) 19.07.2018 19.04.2018 (33) Korea (Republic) Korea (Republic)	(31) 2016194153 (32) 30.09.2016 (33) Japan
(51) EP3895219 (21) EP19817298.3 (47) 01.11.2023 (87) EP2019084640 18.06.2020 (22) 11.12.2019 (54) PHOTOVOLTAIC MODULE (73) BASF Coatings GmbH (72) MUNDUS, Markus KRABENBORG, Sven Olle BUJARD, Patrice	(31) 20180084147 20180045723 (32) 19.07.2018 19.04.2018 (33) Korea (Republic) Korea (Republic)	(31) 2016194153 (32) 30.09.2016 (33) Japan
(31) 19171121 18212065 (32) 25.04.2019 12.12.2018 (33) European Patent Office (EPO) European Patent Office (EPO)	(51) H01L 33/00 H01S 3/091 H01S 5/028 H01S 5/00 H01S 5/323 H01S 3/094 H01S 5/343 H01S 5/04 G01J 3/26 G01J 3/06 G01J 3/10 H01S 5/40 H01S 5/183 H01S 5/30 H01S 5/10 H01S 3/16 H01L 33/08 H01L 33/44 H01L 33/50 H01L 33/60	(51) H01L 33/32 H01L 33/14 (11) EP3906586 (21) EP19919047.1 (47) 01.11.2023 (87) CN2019078033 17.09.2020 (22) 13.03.2019 (54) INGAN-BASED LED EPITAXIAL WAFER AND FABRICATION METHOD THEREOF (73) Univ South China Normal (72) NOTZEL, Richard (31) 201910177234 (32) 08.03.2019 (33) China
(51) H01L 31/0296 H01L 31/103 H01L 31/109 H01L 31/18 (11) EP4097766 (21) EP21732380.7 (47) 01.11.2023 (87) FR2021050586 14.10.2021 (22) 02.04.2021 (54) PHOTODETECTION DEVICE WITH A LATERAL CONCENTRATION GRADIENT OF CADMIUM IN THE SPACE CHARGE REGION (73) Commissariat à l'énergie atomique et aux énergies alternatives (72) LOBRE, Clément ROCHETTE, Florent	(51) H01L 33/00 H01S 3/091 H01S 5/028 H01S 5/00 H01S 5/323 H01S 3/094 H01S 5/343 H01S 5/04 G01J 3/26 G01J 3/06 G01J 3/10 H01S 5/40 H01S 5/183 H01S 5/30 H01S 5/10 H01S 3/16 H01L 33/08 H01L 33/44 H01L 33/50 H01L 33/60 (11) EP3198689 (21) EP15845489.2 (47) 01.11.2023 (87) SG2015050335 31.03.2016 (22) 23.09.2015 (54) COMPACT, POWER-EFFICIENT STACKED BROADBAND OPTICAL EMITTERS (73) Heptagon Micro Optics Pte. Ltd. (72) RIEL, Peter ROENTGEN, Peter	(51) H01L 33/54 H01L 33/56 H01L 23/00 H01L 33/50 (11) EP3696866 (21) EP20165432.4 (47) 01.11.2023 (22) 10.04.2015 (54) SEMICONDUCTOR DEVICE (73) Nichia Corporation (72) KURAMOTO, Masafumi IMURA, Toshifumi TANISADA, Tomoki (31) 2015065053 2014082735 (32) 26.03.2015 14.04.2014 (33) Japan Japan
(31) 2003595 (32) 09.04.2020 (33) France	(31) 201462088932 P 201462053909 P (32) 08.12.2014 23.09.2014 (33) United States of America United States of America	(51) H01M 4/04 (11) EP3320572 (21) EP16822093.7 (47) 01.11.2023 (87) US2016041798 12.01.2017 (22) 11.07.2016 (54) NANOPOROUS SEPARATORS FOR BATTERIES AND RELATED MANUFACTURING METHODS (73) LG Energy Solution, Ltd. (72) CARLSON, Steven, A. SLOAN, Benjamin AVISON, David, W. (31) 201615130660 201562231539 P (32) 15.04.2016 09.07.2015 (33) United States of America United States of America
(51) H01L 31/05 H01L 31/0749 (11) EP3944342 (21) EP20187110.0 (47) 01.11.2023 (22) 22.07.2020 (54) METHOD FOR INTERCONNECTING PHOTOVOLTAIC CELLS AND PHOTOVOLTAIC CELLS ASSEMBLY BEING PRODUCIBLE THEREBY (73) IMEC vzw Universiteit Hasselt (72) Meuris, Marc Borgers, Tom	(51) H01L 33/22 H01L 33/20 H01L 21/3065 H01L 33/32 H01L 33/00 (11) EP3522239 (21) EP17856254.2 (47) 01.11.2023 (87) JP2017035022 05.04.2018 (22) 27.09.2017 (54) METHOD FOR MANUFACTURING SEMICONDUCTOR LIGHT-EMITTING ELEMENT (73) Nikkiso Co., Ltd.	(51) H01M 4/04 H01M 4/13 H01M 4/62 H01M 10/0525 H01M 4/02
(51) H01L 33/00 H01L 25/075 H01L 23/00 (11) EP3731276 (21) EP18915494.1 (47) 01.11.2023 (87) KR2018011438 24.10.2019	(51) H01L 33/00 H01L 25/075 H01L 23/00 (11) EP3731276 (21) EP18915494.1 (47) 01.11.2023 (87) KR2018011438 24.10.2019	(51) H01M 4/04 H01M 4/13 H01M 4/62 H01M 10/0525 H01M 4/02



(11) EP3261155	H01M 4/36	H01M 4/62
(21) EP17001058.1	H01M 4/587	H01M 4/04
(47) 01.11.2023	C01B 32/20	H01M 10/0562
(22) 21.06.2017	H01M 10/0525	H01M 10/052
(54) CONDUCTIVE PASTE AND MIXTURE	(11) EP3605669	H01M 4/13
PASTE FOR LITHIUM ION BATTERY	(21) EP18771671.7	H01M 4/02
POSITIVE ELECTRODE	(47) 01.11.2023	(11) EP3910705
(73) Kansai Paint Co., Ltd	(87) JP2018011046	(21) EP20863123.4
Toyota Jidosha Kabushiki Kaisha	27.09.2018	(47) 01.11.2023
(72) ENDO, Koji	(22) 20.03.2018	(87) KR2020012042
KATO, Atsuya	(54) NONAQUEOUS ELECTROLYTE	18.03.2021
TSUKAMOTO, Atsushi	POWER STORAGE DEVICE	(22) 07.09.2020
HIWARA, Atsunao	(73) GS Yuasa International Ltd.	(54) METHOD OF MANUFACTURING A
HAGIWARA, Hideki	(72) CHIZAWA, Suguru	POSITIVE ELECTRODE MIXTURE FOR
TAKAHATA, Koji	(31) 2017057847	ALL-SOLID-STATE BATTERIES AND
SAITO, Akira	(32) 23.03.2017	POSITIVE ELECTRODE MIXTURE
ABE, Machiko	(33) Japan	FOR ALL-SOLID-STATE BATTERIES
ITO, Yuichi	(51) H01M 4/133	MANUFACTURED USING THE SAME
KOMABAYASHI, Kentaro	H01M 4/587	(73) LG Energy Solution, Ltd.
(31) 2016123450	H01M 4/62	(72) JUNG, Hye Ri
(32) 22.06.2016	H01M 10/0525	HAN, Hyea Eun
(33) Japan	H01M 4/36	HAH, Hoe Jin
(51) H01M 4/04	(11) EP3396745	(31) 20190112262
H01M 4/139	(21) EP17856722.8	(32) 10.09.2019
B26F 1/12	(47) 01.11.2023	(33) Korea (Republic)
(11) EP3605663	(87) KR2017010697	(51) H01M 4/36
(21) EP18879639.5	05.04.2018	H01M 4/139
(47) 01.11.2023	(22) 27.09.2017	H01M 4/04
(87) KR2018013645	(54) MULTI-LAYER NEGATIVE ELECTRODE	H01M 10/0525
23.05.2019	COMPRISING NATURAL GRAPHITE	(11) EP3401985
(22) 09.11.2018	AND ARTIFICIAL GRAPHITE AND	(21) EP17849161.9
(54) METHOD OF MANUFACTURING	LITHIUM SECONDARY BATTERY	(47) 01.11.2023
IRREGULAR ELECTRODE	COMPRISING THE SAME	(87) KR2017009958
(73) LG Chem, Ltd.	(73) LG Energy Solution, Ltd.	15.03.2018
(72) LEE, Taek Soo	(72) LEE, Taek Soo	(22) 11.09.2017
KIM, Cheolwoo	KOO, Chang Wan	(54) METHOD FOR MANUFACTURING
CHOY, Sang Hoon	CHOI, Sang Hoon	ELECTRODE FOR SECONDARY
(31) 20170154709	YANG, Jung Min	BATTERY AND ELECTRODE
(32) 20.11.2017	MOON, Il Jae	OBTAINED THEREFROM
(33) Korea (Republic)	(31) 20170124177	(73) LG Energy Solution, Ltd.
(51) H01M 4/13	20160125261	(72) PARK, Jun-Soo
H01M 4/80	(32) 26.09.2017	LEE, Young-Hwan
H01M 4/74	29.09.2016	LEE, Jae-Hyun
H01M 4/139	(33) Korea (Republic)	(31) 20160116598
H01M 4/04	Korea (Republic)	(32) 09.09.2016
H01M 10/052	(51) H01M 4/133	(33) Korea (Republic)
H01M 4/66	H01M 4/66	(51) H01M 4/36
H01M 4/131	H01M 10/0525	H01M 4/38
H01M 4/1391	(11) EP3951935	H01M 4/62
(11) EP3522267	(21) EP20925320.2	H01M 10/052
(21) EP18806303.6	(47) 01.11.2023	C01B 17/02
(47) 01.11.2023	(87) CN2020087438	C01B 32/168
(87) KR2018005745	23.09.2021	H01M 4/04
29.11.2018	(22) 28.04.2020	H01M 4/133
(22) 18.05.2018	(54) NEGATIVE ELECTRODE PLATE,	H01M 4/1393
(54) FLEXIBLE ELECTRODE, METHOD FOR	SECONDARY BATTERY, AND	H01M 4/583
MANUFACTURING THE SAME AND	APPARATUS CONTAINING THE	C01B 17/00
SECONDARY BATTERY INCLUDING	SECONDARY BATTERY	C01B 32/174
THE SAME	(73) Contemporary Amperex Technology Co.,	H01M 4/58
(73) LG Energy Solution, Ltd.	Limited	H01M 4/02
(72) KIM, Ju-Ryoun	(72) LI, Jing	(11) EP3767715
YOU, Min-Kyu	ZHANG, Yang	(21) EP19863294.5
UHM, In-Sung	XUE, Qingrui	(47) 01.11.2023
(31) 20170063010	LI, Wei	(87) KR2019011540
(32) 22.05.2017	(31) 202010201599	26.03.2020
(33) Korea (Republic)	(32) 20.03.2020	(22) 06.09.2019
(51) H01M 4/133	(33) China	(54) SULFUR-CARBON COMPOSITE,
H01G 11/42	(51) H01M 4/139	PREPARATION METHOD THEREOF,

POSITIVE ELECTRODE FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY COMPRISING SAME	(21) EP18723229.3 (47) 01.11.2023 (87) US2018028646 25.10.2018	C08F 20/56 H01M 4/505 H01M 4/525 C08F 2/22 C08F 293/00 C08F 2/44 C08F 265/06 C08F 285/00 H01M 10/0525 C08F 265/10
(73) LG Energy Solution, Ltd.	(22) 20.04.2018	C08F 265/10
(72) KIM, Minsu CHO, Eunkyung	(54) ELECTROCHEMICAL SYSTEMS COMPRISING MXENES AND MAX PHASE COMPOSITIONS AND METHODS OF USING THE SAME	C08F 265/10 (11) EP3736886 (21) EP20173699.8 (47) 01.11.2023 (22) 08.05.2020 (54) AQUEOUS BINDER AND PREPARATION METHOD THEREOF
(31) 20190109637 20180112639	(73) Auburn University (72) BEIDAGHI, Majid VAHID MOHAMMADI, Armin	(73) Fujian Blue Ocean & Black Stone Technology Co., Ltd.
(32) 04.09.2019 20.09.2018	(31) 201762487738 P 201762487748 P	(72) LUO, Hebin BAI, Fengrui
(33) Korea (Republic) Korea (Republic)	(32) 20.04.2017 20.04.2017	(31) 201910385073 (32) 09.05.2019 (33) China
(51) H01M 4/36 H01M 4/48 H01M 4/505 H01M 10/052 H01M 4/525	(33) United States of America United States of America	(51) H01M 4/66 H01M 10/04 H01M 50/103 H01M 50/14 H01M 50/46 H01M 50/121 H01M 50/434 H01M 50/437 B60L 50/64
(11) EP2662915 (21) EP11854697.7 (47) 01.11.2023 (87) KR2011010175 12.07.2012	(51) H01M 4/62 H01M 4/13 C08F 8/28 H01M 4/04 H01M 4/131 H01M 4/133 H01M 10/0525	(11) EP3583639 (21) EP18718189.6 (47) 01.11.2023 (87) IB2018000333 23.08.2018 (22) 12.02.2018
(22) 27.12.2011	(11) EP3439088 (21) EP17775432.2 (47) 01.11.2023 (87) JP2017013324 05.10.2017	(54) ELECTRIC VEHICLE BATTERY CELL WITH SOLID STATE ELECTROLYTE
(54) ANODE ACTIVE MATERIAL WITH WHOLE PARTICLE CONCENTRATION GRADIENT FOR LITHIUM SECONDARY BATTERY, METHOD FOR PREPARING SAME, AND LITHIUM SECONDARY BATTERY HAVING SAME	(2) 30.03.2017 (54) COMPOSITION FOR LITHIUM SECONDARY BATTERY ELECTRODES	(73) Volkswagen AG AUDI AG
(73) LG CHEM, LTD.	(73) Sekisui Chemical Co., Ltd.	(72) HERMANN, Mirko SPEIDEL, Angela SCHEFFLER, Rouven
(72) SUN, Yang Kook NOH, Hyung Joo	(72) OOTA, Ayako (31) 2016074770 (32) 01.04.2016 (33) Japan	(31) 201715432328 (32) 14.02.2017 (33) United States of America
(31) 20110122544 20110021579 20110000841	(31) 2016074770 (32) 01.04.2016 (33) Japan	(51) H01M 4/92 H01M 8/10 H01M 4/88 C09C 1/56 C09C 3/10
(32) 22.11.2011 10.03.2011 05.01.2011	(51) H01M 4/62 H01M 4/13 H01M 10/052 H01M 4/38 H01M 4/02	(11) EP3536664 (21) EP17887671.0 (47) 01.11.2023 (87) KR2017015301 05.07.2018 (22) 22.12.2017
(33) Korea (Republic) Korea (Republic) Korea (Republic)	(11) EP3675256 (21) EP18868835.2 (47) 01.11.2023 (87) KR2018011392 25.04.2019	(54) METHOD FOR MANUFACTURING ELECTRODE, ELECTRODE MANUFACTURED THEREBY, MEMBRANE-ELECTRODE ASSEMBLY COMPRISING SAME ELECTRODE, AND FUEL CELL INCLUDING SAME MEMBRANE-ELECTRODE ASSEMBLY
(51) H01M 4/36 H01M 4/525 H01M 10/0525 H01M 10/0567 H01M 10/42 H01M 4/02	(22) 27.09.2018 (54) BINDER, AND ELECTRODE AND LITHIUM SECONDARY BATTERY COMPRISING SAME	(73) Kolon Industries, Inc. (72) KIM, Jung-Ho
(11) EP3799183 (21) EP19897446.1 (47) 01.11.2023 (87) CN2019125317 18.06.2020	(73) LG Energy Solution, Ltd. (72) KIM, Taek Gyoung LEE, Joo Hyeong KIM, Kyung Oh YANG, Doo Kyung	
(22) 13.12.2019	(31) 20170133771 (32) 16.10.2017 (33) Korea (Republic)	
(54) LITHIUM-ION BATTERY AND DEVICE COMPRISING THE SAME	(51) H01M 4/62 H01M 4/131 C08F 18/08 C08F 20/04 C08F 20/06 C08F 20/12 C08F 20/26 C08F 20/44	
(73) Contemporary Amperex Technology Co., Limited		
(72) DOU, Shushi HU, Chunhua YI, Tiancheng JIANG, Yao LIANG, Chengdu		
(31) 201811535373 (32) 14.12.2018 (33) China		
(51) H01M 4/58 (11) EP3613094		

KIM, Hyeong-su	JANSSEN, Holger	(87) IB2018054830
(31) 20170000025	HOLTWERTH, Sebastian	03.01.2019
20160181590	BEHR, Wilfried	(22) 28.06.2018
(32) 02.01.2017	FEDERMANN, Dirk	(54) SELECTIVELY ROTATED FLOW FIELD
28.12.2016	(31) 102020109430	FOR THERMAL MANAGEMENT IN A
(33) Korea (Republic)	(32) 03.04.2020	FUEL CELL STACK
Korea (Republic)	(33) Germany	(73) Versa Power Systems Ltd
(51) H01M 6/34	(51) H01M 8/04	(72) BROWN, Casy Cloudless
B63B 22/20	H01M 8/04225	LUC, Khun Bong
B63J 3/04	H01M 8/04302	(31) 201762526683 P
(11) EP3731319	H01M 8/04029	(32) 29.06.2017
(21) EP20171377.3	H01M 8/04746	(33) United States of America
(47) 01.11.2023	H01M 8/1018	(51) H01M 10/04
(22) 24.04.2020	H01M 8/04664	H01M 10/6554
(54) STAND-ALONE BUOY WITH	(11) EP3279991	H01M 50/103
SEAWATER BATTERY	(21) EP16771631.5	H01M 50/209
(73) UNIST (Ulsan National Institute of	(47) 01.11.2023	H01M 50/242
Science and Technology)	(87) JP2016001251	H01M 50/258
Korea East-West Power Co., Ltd.	06.10.2016	H01M 50/262
4 to One Co.,Ltd.	(22) 08.03.2016	H01M 50/289
(72) LI, Young sik	(54) FUEL CELL SYSTEM AND OPERATION	H01M 50/505
KIM, Young Jin	METHOD THEREFOR	(11) EP3641004
KIM, Myung jae	(73) Panasonic Intellectual Property	(21) EP19203926.1
KIM, Young gi	Management Co., Ltd.	(47) 01.11.2023
KIM, Hye Jin	(72) YONEKURA, Kenji	(22) 17.10.2019
(31) 20190049310	TSUYUGUCHI, Kohei	(54) BATTERY MODULE
(32) 26.04.2019	YOSHIMURA, Akihisa	(73) Samsung SDI Co., Ltd.
(33) Korea (Republic)	NAKAMURA, Akinari	(72) LEE, Junhyung
(51) H01M 8/00	(31) 2015067876	KIM, Sungyong
H01M 8/04119	(32) 30.03.2015	KIM, Jaeho
H01M 8/0612	(33) Japan	MOON, Soodeok
H01M 8/1231	(51) H01M 8/1053	PARK, Daeyeop
H01M 8/0637	H01M 8/1004	BAE, Jangwoong
H01M 8/12	H01M 8/1041	LIM, Dooyong
(11) EP3796442	H01M 4/88	LIM, Jisoon
(21) EP18918629.9	H01M 4/86	HEO, Eungi
(47) 01.11.2023	C25B 13/08	(31) 20180125550
(87) JP2018020066	H01M 8/1039	(32) 19.10.2018
21.11.2019	H01M 8/1023	(33) Korea (Republic)
(22) 24.05.2018	H01M 8/1025	(51) H01M 10/04
(54) FUEL CELL SYSTEM	H01M 8/1027	H01M 50/249
(73) Kabushiki Kaisha F.C.C.	C01G 55/00	H01M 50/262
(72) INO, Kentaro	C08G 65/40	(11) EP3996177
OHASHI, Kenji	C25B 1/04	(21) EP21206804.3
JEONG, Kwangjin	C25B 11/00	(47) 01.11.2023
HINO, Ryota	(11) EP3504747	(22) 05.11.2021
SUZUKI, Satoshi	(21) EP17844149.9	(54) POWER STORAGE SYSTEM FOR A
(31) 2018096406	(47) 01.11.2023	VEHICLE PROVIDED WITH AT LEAST
(32) 18.05.2018	(87) US2017047082	ONE ELECTRIC MOTOR
(33) Japan	01.03.2018	(73) FERRARI S.p.A.
(51) H01M 8/0206	(22) 16.08.2017	(72) POGGIO, Luca
H01M 8/0245	(54) MEMBRANE ELECTRODE ASSEMBLY	(31) 202000026545
H01M 8/0273	AND METHOD OF MAKING THE SAME	(32) 06.11.2020
H01M 8/2483	(73) Proton Energy Systems, Inc.	(33) Italy
(11) EP4128399	(72) CAPUANO, Christopher Bryce	(51) H01M 10/052
(21) EP21711184.8	PERTOSO, Morgan Elizabeth	H01M 10/056
(47) 01.11.2023	DANILOVIC, Nemanja	(11) EP3682499
(87) EP2021054724	(31) 201662379311 P	(21) EP17769030.2
07.10.2021	(32) 25.08.2016	(47) 01.11.2023
(22) 25.02.2021	(33) United States of America	(87) EP2017073163
(54) BIPOLAR PLATE ASSEMBLY, USE	(51) H01M 8/2425	21.03.2019
OF A BIPOLAR PLATE ASSEMBLY,	H01M 8/2485	(22) 14.09.2017
AND ELECTROLYSIS OR FUEL CELL	H01M 8/00	(54) COMPOSITE POLYMER
STACK COMPRISING A PLURALITY OF	H01M 8/0258	ELECTROLYTE (CPE) MEMBRANES
BIPOLAR PLATE ASSEMBLIES	H01M 8/04089	FOR SECONDARY SOLID STATE LI-
(73) Forschungszentrum Jülich GmbH	(11) EP3646405	METAL CELLS AND PROCESS FOR
(72) MÜLLER, Martin	(21) EP18746759.2	THE PRODUCTION THEREOF
ZWAYGARDT, Walter	(47) 01.11.2023	(73) Toyota Motor Europe

(72) CASTRO, Laurent BARDE, Fanny NAIR, Jijeesh, Ravi FALCO, Marisa BELLA, Federico GERBALDI, Claudio	(33) Korea (Republic) Korea (Republic)	(72) MUROYA, Yuji NARUOKA, Yoshinori
(51) H01M 10/0562 C01B 17/22 C01B 25/14 H01M 4/134 H01M 4/38 H01M 4/40 H01M 10/052 H01M 4/02	(51) H01M 10/0565 H01M 10/052 H01M 4/525 H01M 4/505 C08L 29/10 C08L 33/14 C08L 29/04 C08L 35/02 H01M 10/0525 (11) EP3648228 (21) EP18884110.0 (47) 01.11.2023 (87) KR2018015132 06.06.2019 (22) 30.11.2018 (54) ELECTROLYTE COMPOSITION FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY COMPRISING SAME	(51) H01M 10/44 H02J 7/00 (11) EP3890097 (21) EP19896022.1 (47) 01.11.2023 (87) CN2019107321 18.06.2020 (22) 23.09.2019 (54) CHARGING METHOD AND DEVICE (73) Huawei Technologies Co., Ltd. (72) LU, Peng HE, Xiaohu WU, Jun (31) 201811506444 (32) 10.12.2018 (33) China
(54) SULFIDE SOLID ELECTROLYTE FOR ALL-SOLID-STATE SECONDARY BATTERY AND ALL-SOLID-STATE SECONDARY BATTERY INCLUDING THE SAME	(73) LG Energy Solution, Ltd. (72) LEE, Jae Won AHN, Kyoung Ho LEE, Chul Haeng LEE, Jung Hoon SHIN, Won Kyung	(51) H01M 10/44 H02J 7/00 (11) EP4029075 (21) EP20765287.6 (47) 01.11.2023 (87) EP2020074853 18.03.2021 (22) 04.09.2020 (54) METHOD AND SYSTEM FOR MANAGING AN ELECTRICAL ENERGY STORAGE ELEMENT
(73) Samsung SDI Co., Ltd. Industry-Academia Cooperation Group of Sejong University	(31) 20170164113 (32) 01.12.2017 (33) Korea (Republic)	(73) Commissariat à l'Energie Atomique et aux Energies Alternatives (72) TESSARD, Romain KLEIN, Jean-Marie (31) 1909891 (32) 09.09.2019 (33) France
(72) Sohn, Dongrak Song, Minsang Han, Jungmin Ryu, Younggyoon Lee, Kyulin Yi, Jeongdo Han, Sangil Sohn, Keesun Shim, Sunggeun Lee, Jinhee	(51) H01M 10/0569 H01M 4/62 H01M 10/0568 H01M 50/409 H01M 10/0525 (11) EP3692585 (21) EP18778925.0 (47) 01.11.2023 (87) EP2018076674 11.04.2019 (22) 01.10.2018 (54) LITHIUM ION ELECTROCHEMICAL ELEMENT OPERATING AT A HIGH TEMPERATURE	(51) H01M 10/54 C22B 26/12 C22B 7/00 (11) EP3459138 (21) EP17798465.5 (47) 01.11.2023 (87) CA2017050611 23.11.2017 (22) 19.05.2017 (54) METHOD FOR RECYCLING ELECTRODE MATERIALS OF A LITHIUM BATTERY
(31) 20200110596 (32) 31.08.2020 (33) Korea (Republic)	(73) SAFT (72) DUMONT, Erwan CASTAING, Frédéric LE GUERN, Benjamin RENE, Fabrice ULLDEMOLINS, Michel TESSIER, Cécile PERES, Jean-Paul FISCHER, Florent	(31) 1909891 (32) 09.09.2019 (33) France (51) H01M 10/54 C22B 26/12 C22B 7/00 (11) EP3459138 (21) EP17798465.5 (47) 01.11.2023 (87) CA2017050611 23.11.2017 (22) 19.05.2017 (54) METHOD FOR RECYCLING ELECTRODE MATERIALS OF A LITHIUM BATTERY
(51) H01M 10/0565 C08G 65/332 C08G 65/334 H01M 10/0568 H01M 10/052 H01M 10/0525 C08G 65/335 C08G 65/333	(87) EP2018076674 11.04.2019 (22) 01.10.2018 (54) LITHIUM ION ELECTROCHEMICAL ELEMENT OPERATING AT A HIGH TEMPERATURE	(31) 1909891 (32) 09.09.2019 (33) France (51) H01M 10/54 C22B 26/12 C22B 7/00 (11) EP3459138 (21) EP17798465.5 (47) 01.11.2023 (87) CA2017050611 23.11.2017 (22) 19.05.2017 (54) METHOD FOR RECYCLING ELECTRODE MATERIALS OF A LITHIUM BATTERY
(11) EP3595070 (21) EP18859540.9 (47) 01.11.2023 (87) KR2018011231 28.03.2019 (22) 21.09.2018	(73) SAFT (72) DUMONT, Erwan CASTAING, Frédéric LE GUERN, Benjamin RENE, Fabrice ULLDEMOLINS, Michel TESSIER, Cécile PERES, Jean-Paul FISCHER, Florent	(22) 19.05.2017 (54) METHOD FOR RECYCLING ELECTRODE MATERIALS OF A LITHIUM BATTERY
(54) POLYMER ELECTROLYTE AND PREPARATION METHOD THEREFOR	(31) 1759169 (32) 02.10.2017 (33) France	(73) Hydro-Québec (72) AMOUZEGAR, Kamyab BOUCHARD, Patrick TURCOTTE, Nancy ZAGHIB, Karim (31) 201662339470 P (32) 20.05.2016 (33) United States of America
(73) LG Energy Solution, Ltd. Postech Academy-Industry Foundation	(51) H01M 10/0585 H01M 4/70 H01M 10/04 (11) EP3595075 (21) EP17899847.2 (47) 01.11.2023 (87) JP2017009063 13.09.2018 (22) 07.03.2017 (54) SECONDARY BATTERY (73) Envision AESC Japan Ltd. Renault s.a.s	(51) H01M 10/613 H01M 10/6567 (11) EP3844838 (21) EP19761803.6 (47) 01.11.2023 (87) EP2019072788 05.03.2020 (22) 27.08.2019 (54) BATTERY COOLING ELEMENT, BATTERY MODUL UNIT AND BATTERY MODULE (73) Kautex Textron GmbH & Co. KG
(72) KIM, Daeil PARK, Moon Jeong CHAE, Jonghyun LEE, Yeonju KIM, Lucia JUNG, Ha Young JO, Gyuha	(31) 1759169 (32) 02.10.2017 (33) France	(51) H01M 10/613 H01M 10/6567 (11) EP3844838 (21) EP19761803.6 (47) 01.11.2023 (87) EP2019072788 05.03.2020 (22) 27.08.2019 (54) BATTERY COOLING ELEMENT, BATTERY MODUL UNIT AND BATTERY MODULE (73) Kautex Textron GmbH & Co. KG
(31) 20180093721 20170121709 (32) 10.08.2018 21.09.2017	(73) Envision AESC Japan Ltd. Renault s.a.s	(51) H01M 10/613 H01M 10/6567 (11) EP3844838 (21) EP19761803.6 (47) 01.11.2023 (87) EP2019072788 05.03.2020 (22) 27.08.2019 (54) BATTERY COOLING ELEMENT, BATTERY MODUL UNIT AND BATTERY MODULE (73) Kautex Textron GmbH & Co. KG

(72) ENKIRCH, Georg HAAS, Felix LIPPERHEIDE, Moritz	09.06.2016	(73) Northvolt AB
(31) 102018129908 102018214829	(22) 07.12.2015	(72) JANG, Myungjae
(32) 27.11.2018 31.08.2018	(54) AIR METAL FUEL CELL	(51) H01M 50/20
(33) Germany	(73) Lanzhou Jinfule Biotechnology Co. Ltd.	B65D 1/24
Germany	Kin Star International Limited	B65D 21/02
(51) H01M 10/625	Spring Power Limited	B65D 25/10
H01M 10/6563	Jin Jin Pacifique Compagnie	H01M 50/289
H01M 10/6557	(72) JIN, Jifan	H01M 50/204
H01M 10/6566	(31) 201410730210	(11) EP3188281
H01M 10/613	(32) 05.12.2014	(21) EP14894124.8
B60K 1/04	(33) China	(47) 01.11.2023
B60L 58/26	(51) H01M 12/08	(87) KR2014004971
B60L 50/60	H01M 14/00	10.12.2015
B60L 50/64	H01M 4/52	(22) 03.06.2014
H01M 50/209	H01M 4/66	(54) BATTERY TRAY
H01M 50/249	H01M 4/92	(73) Samsung SDI Co., Ltd.
H01M 50/262	H01M 8/0234	(72) YI, Jae-Ok
H01M 10/6551	(11) EP3631889	(51) H01M 50/20
(11) EP3076457	(21) EP18810448.3	H01H 9/22
(21) EP15197544.8	(47) 01.11.2023	B60L 3/00
(47) 01.11.2023	(87) US2018034919	H01H 27/06
(22) 02.12.2015	06.12.2018	H01M 10/42
(54) ELECTRIC WORK VEHICLE COMPRISING BATTERY PACK	(22) 29.05.2018	B60L 50/64
(73) Kubota Corporation	(54) ULTRASTABLE RECHARGEABLE	H01M 50/262
(72) ITO, Hirokazu	MANGANESE BATTERY WITH SOLID- LIQUID-GAS REACTIONS	H01M 50/271
KOIKE, Kazuo	(73) The Board of Trustees of the Leland Stanford Junior University	H01M 50/204
(31) 2015076062	(72) CHEN, Wei	(11) EP3618140
(32) 02.04.2015	CUI, Yi	(21) EP18191855.8
(33) Japan	(31) 201762513373 P	(47) 01.11.2023
(51) H01M 10/6553	(32) 31.05.2017	(22) 30.08.2018
H01M 10/6556	(33) United States of America	(54) BATTERY STORAGE SYSTEM WITH SECURE ACCESS
H01M 10/643	(51) H01M 50/107	(73) ABB Schweiz AG
H01M 10/613	H01M 50/184	(72) Traub, Felix
H01M 50/152	H01M 50/186	(51) H01M 50/204
H01M 50/167	H01M 50/193	B60L 50/64
H01M 50/536	H01M 50/213	H01M 50/244
H01M 50/548	H01M 50/227	H01M 50/249
H01M 50/559	H01M 50/271	B60K 1/04
H01M 50/56	H01M 50/30	B60L 50/60
(11) EP3732740	H01M 10/052	H01M 50/209
(21) EP18836370.9	(11) EP3637491	H01M 50/271
(47) 01.11.2023	(21) EP18813276.5	H01M 50/296
(87) EP2018086711	(47) 01.11.2023	H01M 50/507
04.07.2019	(87) JP2018016086	H01M 50/211
(22) 21.12.2018	13.12.2018	H01M 50/148
(54) LID FOR AN ELECTROCHEMICAL ELEMENT HAVING IMPROVED THERMAL CONDUCTIVITY	(22) 19.04.2018	(11) EP3886199
(73) SAFT	(54) SECONDARY BATTERY, BATTERY PACK, ELECTRIC VEHICLE, ELECTRIC POWER STORAGE SYSTEM, ELECTRIC TOOL, AND ELECTRONIC APPARATUS	(21) EP19903378.8
(72) NARBONNE, Alexandre	(73) Murata Manufacturing Co., Ltd.	(47) 01.11.2023
RIGOBERT, Gérard	(72) SODEYAMA Kunio	(87) CN2019079502
BERLUREAU, Thierry	(31) 2017112604	02.07.2020
LEYKO, Matthieu	(32) 07.06.2017	(22) 25.03.2019
(31) 1763248	(33) Japan	(54) BATTERY PACK
(32) 27.12.2017	(51) H01M 50/172	(73) Contemporary Amperex Technology Co., Limited
(33) France	H01M 50/567	(72) YOU, Kaijie
(51) H01M 12/06	H01M 50/183	CHEN, Xingdi
H01M 12/08	F16B 19/08	XIANG, Yanhuo
H01M 8/16	(11) EP4020679	ZHAO, Fenggang
(11) EP3242354	(21) EP20217345.6	ZHOU, Linggang
(21) EP15865991.2	(47) 01.11.2023	WANG, Peng
(47) 01.11.2023	(22) 28.12.2020	(31) 201822237714 U
(87) CN2015096576	(54) A TERMINAL FOR A SECONDARY CELL	(32) 28.12.2018
		(33) China
		(51) H01M 50/224
		H01M 50/242
		H01M 50/249
		H01M 50/262

H01M 50/291	(21) EP16744451.2	(54) MIDDLE FRAME ASSEMBLY AND
H01M 50/293	(47) 01.11.2023	ELECTRONIC DEVICE
H01M 50/296	(87) GB2016051981	(73) GUANGDONG OPPO MOBILE
H01M 50/213	05.01.2017	TELECOMMUNICATIONS CORP., LTD.
(11) EP3940867	(22) 30.06.2016	(72) CHEN, Qianqiang
(21) EP20874985.3	(54) IMPROVEMENTS TO RECEIVING AND/	Yang, Jing
(47) 01.11.2023	OR TRANSMITTING APPARATUS FOR	ZENG, Yongdong
(87) KR2020012509	SATELLITE TRANSMITTED DATA	TAN, Wei
15.04.2021	(73) Global Invacon Ltd.	(31) 201711105665
(22) 16.09.2020	(72) HUANG, Tao	(32) 10.11.2017
(54) BATTERY PACK WITH ENHANCED	(31) 201511436	(33) China
STRUCTURE FOR PREVENTING	(32) 30.06.2015	(51) H01Q 1/24
SHORT CIRCUIT AND SHOCK	(33) United Kingdom	H01Q 1/38
(73) LG Energy Solution, Ltd.	(51) H01P 3/12	H01Q 9/04
(72) LEE, Kwang-Bae	H01P 1/208	H01Q 21/30
SON, Young-Su	H01P 11/00	H01Q 5/357
YANG, Kun-Joo	H01P 3/123	H01Q 5/50
(31) 20190125483	(11) EP3721501	H01Q 9/40
(32) 10.10.2019	(21) EP18811277.5	(11) EP2978069
(33) Korea (Republic)	(47) 01.11.2023	(21) EP15177826.3
(51) H01M 50/434	(87) EP2018083625	(47) 01.11.2023
H01M 50/443	13.06.2019	(22) 22.07.2015
H01M 50/451	(22) 05.12.2018	(54) SLIM RADIATING SYSTEMS FOR
H01M 50/457	(54) MICROWAVE COMPONENT AND	ELECTRONIC DEVICES
H01M 50/491	ASSOCIATED MANUFACTURING	(73) Ignion, S.L.
H01M 10/0525	PROCESS	(72) ANGUERA, Jaume
H01M 4/36	(73) Université de Bordeaux	TOPORCER, Norman
H01M 4/38	Centre National d'Etudes Spatiales	ANDUJAR, Aurora
H01M 4/505	Institut Polytechnique de Bordeaux	(31) 201562152991 P
(11) EP3429015	Centre National de la Recherche	201462072671 P
(21) EP17858754.9	Scientifique	201462064716 P
(47) 01.11.2023	(72) GHIOTTO, Anthony	201462028494 P
(87) KR2017011062	PARMENT, Frédéric	15165167
12.04.2018	(31) 1761661	14191145
(22) 29.09.2017	(32) 05.12.2017	14189253
(54) SEPARATOR FOR LITHIUM ION	(33) France	14178369
SECONDARY BATTERY AND	(51) H01Q 1/22	(32) 27.04.2015
LITHIUM ION SECONDARY BATTERY	H01Q 1/24	30.10.2014
COMPRISING THE SAME	H01Q 9/28	16.10.2014
(73) LG Energy Solution, Ltd.	H01Q 21/16	24.07.2014
(72) MIN, Ji-Won	H01Q 21/26	27.04.2015
KIM, Seok-Koo	H01Q 21/28	30.10.2014
HAH, Hoe-Jin	H01Q 23/00	16.10.2014
DOELLE, Janis	(11) EP3432416	24.07.2014
(31) 20160130077	(21) EP18152847.2	(33) United States of America
(32) 07.10.2016	(47) 01.11.2023	United States of America
(33) Korea (Republic)	(22) 22.01.2018	United States of America
(51) H01M 50/502	(54) MULTIFUNCTIONAL SIGNAL	United States of America
B25F 5/00	TRANSCEIVER	European Patent Office (EPO)
H02J 7/00	(73) Shenzhen Antop Technology Limited	European Patent Office (EPO)
(11) EP3836299	(72) YANG, Ruidian	European Patent Office (EPO)
(21) EP20213422.7	YANG, BoLiang	European Patent Office (EPO)
(47) 01.11.2023	(31) 201720912802 U	(51) H01Q 1/24
(22) 11.12.2020	201710616670	H01Q 1/44
(54) ADAPTER AND POWER TOOL	(32) 20.07.2017	H01Q 1/52
SYSTEM	20.07.2017	H01Q 5/392
(73) Globe (Jiangsu) Co., Ltd.	(33) China	H01Q 9/42
(72) HUANG, Lei	China	(11) EP3709441
GUO, Xinzhong	(51) H01Q 1/24	(21) EP18893526.6
YAN, An	H01Q 1/36	(47) 01.11.2023
(31) 201911271606	H01Q 9/42	(87) CN2018124026
(32) 12.12.2019	H01Q 1/44	04.07.2019
(33) China	H04M 1/02	(22) 26.12.2018
(51) H01P 1/161	(11) EP3483982	(54) MULTI-FREQUENCY ANTENNA AND
H01Q 5/55	(21) EP18205238.1	MOBILE TERMINAL
H01Q 13/02	(47) 01.11.2023	(73) HUAWEI TECHNOLOGIES CO., LTD.
H01Q 19/13	(22) 08.11.2018	(72) XUE, Liang
(11) EP3317914		YU, Dong

YING, Lijun	(32) 18.09.2013	MA, Jiantao
HOU, Meng	(33) France	(51) H01R 4/18
YOU, Jiaqing	(51) H01Q 5/45	H01R 43/02
(31) PCT/CN2017/119444	H01Q 9/32	H01R 4/62
(32) 28.12.2017	H01Q 15/00	(11) EP3454420
(33) World Intellectual Property Office (WIPO)	H01Q 19/10	(21) EP18192956.3
(51) H01Q 1/24	H01Q 1/52	(47) 01.11.2023
H01Q 5/328	(11) EP3605730	(22) 06.09.2018
H01Q 5/378	(21) EP19189713.1	(54) METHOD FOR CONNECTING AN ELECTRICAL ALUMINIUM CONDUIT WITH AN ALUMINIUM PIPE
H01Q 9/42	(47) 01.11.2023	(73) Strunk Connect Automated Solutions GmbH & Co. KG
(11) EP3667815	(22) 02.08.2019	(72) Strunk, Olaf
(21) EP18855727.6	(54) ANTENNA DEVICE WITH TWO DIFFERENT AND SECANT PLANAR SUBSTRATES	(73) Commissariat à l'Énergie Atomique et aux Énergies Alternatives
(47) 01.11.2023	(73) PINTOS, Jean-François	(31) 102017215970
(87) CN2018105223	DELAVEAUD, Christophe	(32) 11.09.2017
21.03.2019	(31) 1857244	(33) Germany
(22) 12.09.2018	(32) 02.08.2018	(51) H01R 4/48
(54) ANTENNA FOR DEVICE, AND FOLDABLE DEVICE	(33) France	H02G 3/12
(73) ZTE Corporation	(51) H01Q 9/04	(11) EP3591765
(72) ZHANG, Yan	H01Q 21/30	(21) EP18181114.2
(31) 201710817200	H01Q 21/24	(47) 01.11.2023
(32) 12.09.2017	H01Q 1/02	(22) 02.07.2018
(33) China	(11) EP3646408	(54) CONDUCTOR CLAMPING ELEMENT FOR ELECTRIC CONDUCTORS
(51) H01Q 1/24	(21) EP18824379.4	(73) GIRA GIERSIEPEN GmbH & Co. KG
H02J 50/27	(47) 01.11.2023	(72) KALINKE, Jens
H01Q 7/00	(87) CA2018050274	(51) H01R 12/57
H01Q 9/26	03.01.2019	H01R 12/70
(11) EP3501058	(22) 08.03.2018	H01R 12/72
(21) EP17768198.8	(54) SINGLE-LAYER PATCH ANTENNA	H01R 13/405
(47) 01.11.2023	(73) Novatel, Inc.	H01R 43/20
(87) GB2017052446	(72) YANG, Ning	H01R 24/60
22.02.2018	(31) 201715637832	(11) EP3483986
(22) 17.08.2017	(32) 29.06.2017	(21) EP17833260.7
(54) APPARATUS AND METHOD FOR RF ENERGY HARVESTING	(33) United States of America	(47) 01.11.2023
(73) Freevolt Technologies Limited	(51) H01Q 13/02	(87) CN2017081267
(72) COELHO DE SOUZA, Aline	B33Y 80/00	01.02.2018
FRANCISCATTO, Bruno Roberto	B22F 5/10	(22) 20.04.2017
PINUJELA RANGEL, Manuel	B22F 10/28	(54) POWER INTERFACE, MOBILE TERMINAL AND POWER ADAPTER
FREITAS, Vitor	(11) EP3979419	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
STEFAN, Diana	(21) EP21199091.6	(72) GU, Guodong
(31) 201700661	(47) 01.11.2023	LI, Feifei
201614088	(22) 27.09.2021	(31) 201610603150
(32) 13.01.2017	(54) ADDITIVELY MANUFACTURED MESH HORN ANTENNA	201620806796 U
17.08.2016	(73) The Boeing Company	(32) 27.07.2016
(33) United Kingdom	(72) ASTON, Richard W.	27.07.2016
United Kingdom	ZILZ, Rachel Elizabeth	(33) China
(51) H01Q 3/44	HASTINGS, Nicole Marie	China
H04W 4/80	BUEHLER, Jessica Ann	(51) H01R 12/63
H01Q 3/46	(31) 202063085951 P	H01R 4/2433
H01Q 21/00	(32) 30.09.2020	H01R 4/28
(11) EP3047537	(33) United States of America	H01R 12/67
(21) EP14715268.0	(51) H01Q 17/00	H01R 11/05
(47) 01.11.2023	H01Q 19/02	H01R 4/2425
(87) EP2014056568	H01Q 15/00	(11) EP4120480
26.03.2015	(11) EP3883059	(21) EP22178351.7
(22) 02.04.2014	(21) EP18944268.4	(47) 01.11.2023
(54) A WAVE SHAPING DEVICE, AN ELECTRONIC DEVICE, AND A SYSTEM	(47) 01.11.2023	(22) 10.06.2022
(73) Centre National de la Recherche Scientifique (CNRS)	(87) CN2018124661	(54) CONNECTOR AND CONNECTOR ASSEMBLY
Université Paris Cité	02.07.2020	(73) Japan Aviation Electronics Industry, Ltd.
(72) FINK, Mathias	(22) 28.12.2018	(72) KIMURA, Akira
LEROSEY, Geoffroy	(54) ANTENNA, MICROWAVE DEVICE AND COMMUNICATION SYSTEM	(31) 2021116150
DUPRE, Matthieu	(73) Huawei Technologies Co., Ltd.	(32) 14.07.2021
KAINA, Nadège	(72) YANG, Ning	
(31) 1358955		

(33) Japan	(73) Japan Aviation Electronics Industry, Limited	(87) EP2019073276 05.03.2020
(51) H01R 12/79	(72) KOREEDA, Yuichi	(22) 30.08.2019
H01R 12/88	SHIMAZU, Hideto	(54) WINDSCREEN WIPER MOTOR AND METHOD OF ASSEMBLING THE WINDSCREEN WIPER MOTOR
H01R 12/71	ISHIGURO, Masaki	(73) Valeo Systèmes d'Essuyage
H01R 12/87	(31) 2018241233	(72) STEFANI, Siegfried
A01M 1/02	(32) 25.12.2018	(31) 102018121225
A01M 31/00	(33) Japan	(32) 30.08.2018
(11) EP3815193	(51) H01R 13/6596	(33) Germany
(21) EP19736465.6	H01R 13/74	(51) H01R 43/28
(47) 01.11.2023	B60L 50/64	(11) EP4005037
(87) GB2019051844 02.01.2020	H01M 50/204	(21) EP20743626.2
(22) 28.06.2019	H01M 50/262	(47) 01.11.2023
(54) ELECTRICAL CONNECTOR	H01M 50/296	(87) EP2020070011 28.01.2021
(73) Bare Conductive Ltd	H01R 13/6585	(22) 15.07.2020
(72) DZISIEWSKI-SMITH, Stefan	H01R 4/34	(54) METHOD, DEVICE AND SYSTEM FOR MANUFACTURING AN ELECTRIC CABLE
HISSEY, Owen	H01R 103/00	(73) Metzner Maschinenbau GmbH Metzner Holding GmbH
NELSON, Bibiana	(11) EP3490027	(72) SORG, Manfred
(31) 201812109	(21) EP17831290.6	(31) 102019119726
201810670	(47) 01.11.2023	(32) 22.07.2019
(32) 25.07.2018	(87) KR2017007642 25.01.2018	(33) Germany
28.06.2018	(22) 17.07.2017	(51) H01S 3/00
(33) United Kingdom	(54) BATTERY MODULE	H01S 3/23
United Kingdom	(73) Samsung SDI Co., Ltd	H05G 2/00
(51) H01R 13/11	(72) JEON, Doo Sung	(11) EP4125165
H01R 4/30	(31) 20160092887	(21) EP21188167.7
H01R 11/03	(32) 21.07.2016	(47) 01.11.2023
H01R 12/70	(33) Korea (Republic)	(22) 28.07.2021
H01R 25/16	(51) H01R 31/06	(54) FOCUSING DEVICE WITH AN IMAGE PLANE EXTENDING PARALLEL OR CONGRUENT WITH A TARGET PLANE
(11) EP3879635	H01R 13/66	(73) TRUMPF Lasersystems for Semiconductor Manufacturing GmbH
(21) EP20163028.2	H01R 27/02	(72) REGAARD, Boris, Dr.
(47) 01.11.2023	H01R 33/94	(51) H01S 5/02208
(22) 13.03.2020	G06F 13/00	H01S 5/02257
(54) ELECTRIC CIRCUIT BOARD WITH POWER CONNECTOR	H01R 13/72	G02B 6/42
(73) HS Elektronik Systeme GmbH	(11) EP3691053	H01S 5/40
(72) Gietzold, Thomas	(21) EP18925716.5	(11) EP4033621
Wünsch, Alois	(47) 01.11.2023	(21) EP22162386.1
(51) H01R 13/447	(87) CN2018119704 11.06.2020	(47) 01.11.2023
H01R 25/14	(22) 07.12.2018	(22) 07.09.2020
H02G 5/08	(54) ADAPTER HAVING SUPPORT FUNCTION	(54) LIGHT SOURCE DEVICE AND METHOD OF MANUFACTURING THE SAME
H01R 24/78	(73) Guangdong Gopod Group Co., Ltd.	(73) NICHIA CORPORATION
(11) EP3876358	(72) LIAO, Zhuowen	(72) MIYATA, Tadaaki
(21) EP20160650.6	(51) H01R 39/00	KIMURA, Yoshihiro
(47) 01.11.2023	(11) EP4032154	(31) 2019232870
(22) 03.03.2020	(21) EP20771303.3	2019171454
(54) INDISCRETE CONTACT ARRANGEMENT BETWEEN A POWER RAIL ARRANGEMENT OF A POWER SUPPLY AND A SOCKET OF A CONSUMER	(47) 01.11.2023	(32) 24.12.2019
(73) Siemens Aktiengesellschaft	(87) EP2020075712 25.03.2021	20.09.2019
(72) Althoff, Sebastian	(22) 15.09.2020	(33) Japan
Bertels, Frank	(54) HIGH VOLTAGE ELECTRIC SWIVEL ARRANGEMENT	Japan
Rottländer, Dirk	(73) Single Buoy Moorings Inc	(51) H02B 13/025
Haar, Rainer	(72) MARTINEAU, Eric	(11) EP3847728
(51) H01R 13/639	BERTRAND, Mathias	(21) EP19762805.0
H01R 13/627	BENOIT, Jean Pierre	(47) 01.11.2023
G02B 6/38	(31) 19197708	(87) EP2019073735
G02B 6/42	(32) 17.09.2019	12.03.2020
H01R 13/74	(33) European Patent Office (EPO)	(22) 05.09.2019
(11) EP3859904	(51) H01R 39/38	
(21) EP19902085.0	H01R 39/42	
(47) 01.11.2023	H01R 39/44	
(87) JP2019035523 02.07.2020	B60S 1/08	
(22) 10.09.2019	(11) EP3844848	
(54) CONNECTOR DEVICE	(21) EP19762146.9	
	(47) 01.11.2023	



(54) PRESSURE RELIEF SYSTEM AND A CONTAINER, BUILDING, ENCLOSURE OR CUBICLE INCLUDING A PRESSURE RELIEF SYSTEM	H01B 17/16 (11) EP3706273 (21) EP18874151.6 (47) 01.11.2023	(54) JOINT FOR HIGH VOLTAGE DIRECT CURRENT CABLES
(73) ABB Schweiz AG	(87) CN2018108772	(73) Prysmian S.p.A.
(72) PERS, Christer STADLER, Raeto	09.05.2019 (22) 29.09.2018	(72) BOFFI, Paolo
(31) 18192873	(54) OVERHEAD POWER DISTRIBUTION LINE	(51) H02H 1/00 H02H 7/28
(32) 06.09.2018	(73) Jiangsu Shemar Electric Co., Ltd.	(11) EP4012864
(33) European Patent Office (EPO)	(72) MA, Bin	(21) EP20212660.3
(51) H02B 13/025	LI, Dequan	(47) 01.11.2023
H01H 33/56	YU, Jie	(22) 09.12.2020
H02B 3/00	FANG, Jiang	(54) SAFETY DEVICE AND METHOD FOR MONITORING AN ELECTRICAL ENERGY SUPPLY NETWORK
H02B 13/035	HUANG, Qing	(73) Siemens Aktiengesellschaft
H02B 13/045	(31) 201711033404	(72) Gaube, Sven
(11) EP3282528	(32) 30.10.2017	Kirkman, Robert
(21) EP15888542.6	(33) China	Jaworski, Michael
(47) 01.11.2023	(51) H02G 11/00	Klumpp, Philipp
(87) JP2015083757	B25J 19/00	Strauß, Martin
13.10.2016	F16G 13/16	Jaeger, Johann
(22) 01.12.2015	H02G 3/04	Nöth, Elmar
(54) PRESSURE TANK, GAS INSULATED SWITCHGEAR USING SAME, AND PRESSURE TANK MANUFACTURING METHOD	(11) EP4073894	(51) H02H 3/08
(73) Mitsubishi Electric Corporation	(21) EP20838372.9	H01H 9/54
(72) YAMADA, Shintaro	(47) 01.11.2023	H01H 33/59
KAMEI, Yukinobu	(87) EP2020085861	H02H 3/02
(31) PCT/JP2015/060915	17.06.2021	H02H 3/05
(32) 08.04.2015	(22) 11.12.2020	(11) EP3869650
(33) World Intellectual Property Office (WIPO)	(54) LINE GUIDE DEVICE FOR CLEANROOM APPLICATIONS, AND ALSO SUPPORTING CHAIN AND CHAIN LINK FOR IT	(21) EP20275048.5
(51) H02G 1/12	(73) Igs GmbH	(47) 01.11.2023
(11) EP3925041	(72) BARTEN, Dominik	(22) 21.02.2020
(21) EP20705052.7	MATTONET, Peter	(54) CIRCUIT INTERRUPTION DEVICE
(47) 01.11.2023	(31) 202019106979 U	(73) General Electric Technology GmbH
(87) EP2020053533	(32) 13.12.2019	(72) Whitehouse, Robert
20.08.2020	(33) Germany	Adamczyk, Andrzej
(22) 12.02.2020	(51) H02G 15/007	(51) H02H 9/02
(54) METHOD AND DEVICE FOR WORKING AN ELECTRICAL CABLE	G02B 6/44	H01F 29/14
(73) Metzner Maschinenbau GmbH	H02G 9/02	(11) EP3739708
Metzner Holding GmbH	G01V 1/20	(21) EP19174839.1
(72) SORG, Manfred	(11) EP3002842	(47) 01.11.2023
(31) 102019103487	(21) EP15187663.8	(22) 16.05.2019
(32) 12.02.2019	(47) 01.11.2023	(54) SHORT-CIRCUIT CURRENT LIMITER
(33) Germany	(22) 30.09.2015	(73) Siemens Energy Global GmbH & Co. KG
(51) H02G 3/04	(54) CLAMP AND BENDING STRAIN RELIEF APPARATUS AND METHODS	(72) Hamberger, Peter
F16L 3/23	(73) Geospace Technologies Corporation	(51) H02H 9/04
H04Q 1/06	(72) Segsworth, Matthew	H02H 9/00
H02G 3/00	Fernihough, Robert Alexis Peregrin	(11) EP3593432
H02G 3/32	Smith, Jeremy Crane	(21) EP17900051.8
F16L 3/12	(31) 201514820851	(47) 01.11.2023
F16L 3/127	201462059612 P	(87) CN2017075867
(11) EP3855588	201462059493 P	13.09.2018
(21) EP20211171.2	(32) 07.08.2015	(22) 07.03.2017
(47) 01.11.2023	03.10.2014	(54) HYBRID OVERVOLTAGE PROTECTION DEVICE AND ASSEMBLY
(22) 02.12.2020	03.10.2014	(73) Littelfuse Semiconductor (Wuxi) Co., Ltd.
(54) CABLE MANAGEMENT DEVICE	(33) United States of America	(72) ZHOU, Jifeng
(73) KeyMed (Medical & Industrial Equipment) Ltd.	United States of America	TIAN, Weihua
(72) HYNES, John	United States of America	TO, Teddy
ARNOLD, Adam	(51) H02G 15/184	CHIN, Chuan Fang
(31) 202000943	(11) EP3516749	(51) H02J 1/08
(32) 22.01.2020	(21) EP16770991.4	H02J 13/00
(33) United Kingdom	(47) 01.11.2023	H02M 3/28
(51) H02G 7/20	(87) IB2016055578	G06F 13/42
E04H 12/24	22.03.2018	G06F 1/26
H01B 17/14	(22) 19.09.2016	G06F 13/364
		(11) EP3422515
		(21) EP18177645.1
		(47) 01.11.2023

(22) 14.06.2018	YANG, Mengbin	(32) 25.09.2019
(54) MULTI-PORT EXTENSION FOR MULTI-RAIL POINT-TO-POINT POWER MANAGEMENT INTERFACES	MILLER, Preston	(33) United States of America
(73) Infineon Technologies Austria AG	(31) 201862627307 P	(51) H02J 7/00
(72) Tang, Benjamim	(32) 07.02.2018	B60L 3/00
(31) 201715634510	(33) United States of America	G05F 1/573
(32) 27.06.2017	(51) H02J 3/32	H03K 17/082
(33) United States of America	H02J 7/00	(11) EP3523867
(51) H02J 1/14	(11) EP4096046	(21) EP17808137.8
H02J 7/00	(21) EP22175850.1	(47) 01.11.2023
H02J 7/34	(47) 01.11.2023	(87) IB2017056138
(11) EP3753081	(22) 27.05.2022	12.04.2018
(21) EP19721411.7	(54) ENERGY STORAGE SYSTEM, PHYSICAL POSITION IDENTIFICATION METHOD, AND PHOTOVOLTAIC POWER GENERATION SYSTEM	(22) 05.10.2017
(47) 01.11.2023	(73) Huawei Digital Power Technologies Co., Ltd.	(54) CIRCUIT FOR DISCHARGING A HIGH-VOLTAGE ELECTRICAL SYSTEM
(87) US2019015054	(72) Li, Jianpeng	(73) Valeo Japan Co., Ltd.
22.08.2019	LI, Yuxiang	(72) BERTRAND, Mathieu
(22) 25.01.2019	ZOU, Zhenghua	SACCO, Ernesto
(54) SMART CHARGING PLATFORM	HAO, Huibin	NAIM, Aldo
(73) Microsoft Technology Licensing, LLC	(31) 202110585053	(31) 1659635
(72) IVANOV, George I.	(32) 27.05.2021	(32) 06.10.2016
BYRNES, Sean P.	(33) China	(33) France
VALLURI, Nagaraju	(51) H02J 3/32	(51) H02J 7/00
(31) 201815895985	H02J 7/00	H02J 3/14
(32) 13.02.2018	H02J 7/34	B60L 53/14
(33) United States of America	(11) EP4138249	B60L 53/30
(51) H02J 3/12	(21) EP22179434.0	B60L 53/63
H02H 9/04	(47) 01.11.2023	B60L 53/67
G05F 1/455	(22) 16.06.2022	H02J 3/32
H02J 3/14	(54) ELECTRIC POWER SUPPLY SYSTEM	(11) EP3688858
H02J 3/04	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	(21) EP18789007.4
H02J 3/38	(72) IZUMI, Junta	(47) 01.11.2023
(11) EP4211770	KIMURA, Kenji	(87) EP2018076158
(21) EP22785979.0	(31) 2021133402	04.04.2019
(47) 01.11.2023	(32) 18.08.2021	(22) 26.09.2018
(87) EP2022075466	(33) Japan	(54) MODULAR APPARATUS FOR TIME-DISPLACED CHARGING OF SEVERAL ELECTRIC VEHICLES ON A CHARGING STATION
23.03.2023	(51) H02J 3/40	(73) ChargeX GmbH
(22) 13.09.2022	H02J 3/18	(72) MASNITZA, Michael
(54) A PHASE VOLTAGE REGULATOR AND A METHOD FOR REGULATING PHASE VOLTAGE	H02M 5/44	WAGNER, Tobias
(73) PRZEDSIĘBIORSTWO CR-GAMA SPOLKA OGRANICZONA	(11) EP4066343	ENGELN, Johannes
ODPOWIEDZIALNOSCIA	(21) EP20716777.6	(31) 102017124469
Carbol, Jacek	(47) 01.11.2023	102017122619
(72) CARBOL, Jacek	(87) EP2020059432	(32) 19.10.2017
(31) 43893921	07.10.2021	28.09.2017
22157152	(22) 02.04.2020	(33) Germany
(32) 14.09.2021	(54) POWER SUPPORTING ARRANGEMENT FOR A POWER GRID	Germany
16.02.2022	(73) Hitachi Energy Switzerland AG	(51) H02J 7/00
(33) Poland	(72) MENG, Lexuan	H02J 50/10
European Patent Office (EPO)	HASLER, Jean-Philippe	H02J 50/90
(51) H02J 3/32	INGESTRÖM, Gunnar	(11) EP3813224
H02J 3/38	KHEIR, Jan	(21) EP20198993.6
H02J 3/46	WU, Tong	(47) 01.11.2023
(11) EP3750224	SOONG, Theodore	(22) 29.09.2020
(21) EP19709587.0	(51) H02J 7/00	(54) WIRELESS CHARGER
(47) 01.11.2023	(11) EP3956964	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(87) US2019016765	(21) EP19836407.7	(72) CAI, Hongzhen
15.08.2019	(47) 01.11.2023	(31) 201911026058
(22) 06.02.2019	(87) US2019066330	(32) 25.10.2019
(54) APPARATUS AND METHODS FOR REDUCING GENERATOR FREQUENCY VARIATION	01.04.2021	(33) China
(73) Flexgen Power Systems, Inc.	(22) 13.12.2019	(51) H02J 7/02
(72) OLIVO, Tony	(54) SWITCHED MULTI-CELL BATTERY SYSTEM	B60L 53/14
TAIMELA, Pasi	(73) Google LLC	B60L 53/22
JOHNSON, JR., Robert William	(72) JIA, Liang	H02M 1/42
	(31) 201962905650 P	H02M 3/335
		H02M 7/17

H02M 7/219	(54) POWER TRANSMISSION DEVICE,	FAVERZANI, Paolo
H02M 7/06	AND CONTACTLESS POWER SUPPLY	(31) 202000002245
(11) EP4027477	SYSTEM	(32) 05.02.2020
(21) EP19947789.4	(73) IHI Corporation	(33) Italy
(47) 01.11.2023	(72) NAGAOKA Shiro	<hr/>
(87) CN2019109712	(31) 2015190956	(51) H02K 3/51
08.04.2021	2015184051	(11) EP3797468
(22) 30.09.2019	(32) 29.09.2015	(21) EP19722647.5
(54) ON-BOARD CHARGING AND	17.09.2015	(47) 01.11.2023
DISCHARGING APPARATUS,	(33) Japan	(87) EP2019062219
CHARGING AND DISCHARGING	Japan	28.11.2019
SYSTEM THEREOF, AND NEW	<hr/>	(22) 13.05.2019
ENERGY VEHICLE	(51) H02K 1/14	(54) CAGE FOR A WOUND ROTOR IN A
(73) Huawei Digital Power Technologies Co.,	H02K 1/27	SYNCHRONOUS ELECTRIC MACHINE
Ltd.	H02K 16/02	(73) Renault s.a.s
(72) FU, Dianbo	H02K 3/28	NISSAN MOTOR CO., LTD.
LIU, Weiping	H02K 3/52	(72) TAVAKOLI, Shahab
WANG, Shaohua	H02K 1/04	DELL AGNESE, Anthony
<hr/>	H02K 11/21	FRABOLOT, Ferdinand
(51) H02J 50/10	H02K 21/22	(31) 1854258
H02J 50/20	H02K 29/03	(32) 22.05.2018
H02J 50/27	D06F 23/04	(33) France
H02J 50/40	D06F 37/30	<hr/>
(11) EP3654489	D06F 37/40	(51) H02K 5/136
(21) EP18853609.8	H02K 3/18	F25B 31/00
(47) 01.11.2023	(11) EP3711141	H01H 9/04
(87) KR2018010476	(21) EP18891619.1	H01H 37/04
14.03.2019	(47) 01.11.2023	H01H 45/14
(22) 07.09.2018	(87) KR2018016322	H01H 35/26
(54) WIRELESS POWER RECEIVING	27.06.2019	H02H 7/20
DEVICE AND WIRELESS POWER	(22) 20.12.2018	(11) EP3195450
RECEIVING METHOD USING SAME	(54) MOTOR	(21) EP15842173.5
(73) Samsung Electronics Co., Ltd.	(73) Samsung Electronics Co., Ltd.	(47) 01.11.2023
(72) MAKURIN, Mikhail Nikolaevich	(72) NAKAGAWA, Yukinori	(87) US2015050265
VILENSKIY, Artem Rudolfovich	SONODA, Yasuyuki	24.03.2016
(31) 2017131462	NAGASAKI, Yasumasa	(22) 15.09.2015
(32) 07.09.2017	(31) 2017243803	(54) ENCAPSULATION OF COMPONENTS
(33) Russian Federation	20180145224	AND A LOW ENERGY CIRCUIT FOR
<hr/>	(32) 20.12.2017	HAZARDOUS LOCATIONS
(51) H02J 50/12	22.11.2018	(73) Hoffman Enclosures, Inc.
(11) EP4033640	(33) Japan	(72) STAMMER, Scott Dean
(21) EP22151739.4	Korea (Republic)	LA, Her
(47) 01.11.2023	<hr/>	MARTIN, William
(22) 17.01.2022	(51) H02K 1/20	(31) 201414488150
(54) METHOD FOR OPERATING A DEVICE	H02K 9/19	(32) 16.09.2014
FOR WIRELESS TRANSMISSION OF	(11) EP4042545	(33) United States of America
ENERGY IN THE DIRECTION OF AN	(21) EP20781510.1	<hr/>
ELECTRICAL CONSUMER BY MEANS	(47) 01.11.2023	(51) H02K 5/18
OF INDUCTIVE COUPLING, DEVICE	(87) EP2020077151	H02K 9/04
AND SYSTEM	15.04.2021	H02K 9/06
(73) E.G.O. Elektro-Gerätebau GmbH	(22) 28.09.2020	(11) EP3555996
(72) Egenter, Christian	(54) ELECTRIC MACHINE WITH	(21) EP17818045.1
Müller, Max-Felix	INTEGRATED COOLING SYSTEM	(47) 01.11.2023
(31) 102021200584	(73) Magna PT B.V. & Co. KG	(87) EP2017001415
(32) 22.01.2021	(72) STRIEDELMAYER, Thomas	28.06.2018
(33) Germany	(31) 102019215402	(22) 11.12.2017
<hr/>	(32) 08.10.2019	(54) COOLING DEVICE FOR AN ELECTRIC
(51) H02J 50/12	(33) Germany	MOTOR AND ELECTRIC MOTOR WITH
H02J 50/80	<hr/>	COOLING DEVICE
H02J 7/00	(51) H02K 3/12	(73) Ziehl-Abegg SE
B60L 5/00	H02K 21/14	(72) LÖRCHER, Frieder
B60M 7/00	H02K 9/08	ERNEMANN, Lothar
H02J 7/02	(11) EP3863153	(31) 102016015535
(11) EP3352330	(21) EP21155604.8	(32) 19.12.2016
(21) EP16846325.5	(47) 01.11.2023	(33) Germany
(47) 01.11.2023	(22) 05.02.2021	<hr/>
(87) JP2016076186	(54) ROTARY ELECTRIC MACHINE WITH	(51) H02K 7/10
23.03.2017	BAR STATOR WINDING	H02K 9/10
(22) 06.09.2016	(73) FERRARI S.p.A.	B65G 23/08
	(72) FERRARA, Davide	(11) EP3729611
	POGGIO, Luca	(21) EP19725115.0
		(47) 01.11.2023

- (87) EP2019062599  
05.12.2019  
(22) 16.05.2019  
(54) REEL MOTOR WITH CLOSED COOLING CIRCUIT  
(73) EBM-PAPST ST. GEORGEN GMBH & CO. KG  
(72) SIEGER, Tobias  
FEHRENBACH, Johannes  
HORNBERGER, Jörg  
FLAIG, Markus  
(31) 102018112912  
(32) 30.05.2018  
(33) Germany  

---

(51) H02K 7/14  
F02M 37/08  
F02M 37/10  
F04D 29/00  
H02K 1/17  
H02K 5/15  
F04D 5/00  
F04D 29/62  
H02K 1/18  
H02K 5/04  
H02K 5/14  
(11) EP3913775  
(21) EP20741297.4  
(47) 01.11.2023  
(87) JP2020001380  
23.07.2020  
(22) 16.01.2020  
(54) MOTOR UNIT AND LIQUID SUPPLY DEVICE  
(73) Mitsuba Corporation  
(72) TAKEUCHI, Naoki  
HORISOKO, Shinichiro  
(31) 2019005221  
(32) 16.01.2019  
(33) Japan  

---

(51) H02K 15/12  
H02K 1/276  
H02K 1/24  
H02K 15/03  
(11) EP3732774  
(21) EP18897097.4  
(47) 01.11.2023  
(87) US2018068110  
04.07.2019  
(22) 31.12.2018  
(54) METHOD FOR MANUFACTURING AN ELECTRICAL MACHINE  
(73) ABB Schweiz AG  
(72) ZHONG, Sheng  
GHOUL, Cherif  
TREMELLING, Darren  
UPADHYAY, Parag  
(31) 201715859439  
(32) 30.12.2017  
(33) United States of America  

---

(51) H02K 35/02  
F16F 1/02  
(11) EP4087101  
(21) EP22171078.3  
(47) 01.11.2023  
(22) 02.05.2022  
(54) ELECTRODYNAMIC ENERGY CONVERTER  
(73) Uhl, Joachim
- (72) KLEIN, Christoph  
SCHNEIDER, Jochen  
UHL, Joachim  
(31) 102021111203  
(32) 30.04.2021  
(33) Germany  

---

(51) H02K 35/02  
H02K 7/18  
(11) EP3343740  
(21) EP17211089.2  
(47) 01.11.2023  
(22) 29.12.2017  
(54) POWER GENERATION DEVICE  
(73) Wuhan Linptech Co., Ltd  
(72) Zou, Xiao hua  
Cheng, Xiao ke  
(31) 201611267608  
(32) 31.12.2016  
(33) China  

---

(51) H02K 41/03  
(11) EP3973623  
(21) EP20734944.0  
(47) 01.11.2023  
(87) EP2020068000  
30.12.2020  
(22) 26.06.2020  
(54) ASSEMBLY OF STATOR MODULES FOR A PLANAR DRIVE SYSTEM  
(73) Beckhoff Automation GmbH  
(72) PRUESSMEIER, Uwe  
(31) 102019118635  
102019117431  
(32) 10.07.2019  
27.06.2019  
(33) Germany  
Germany  

---

(51) H02K 41/03  
H02K 9/22  
H02K 9/197  
(11) EP3494632  
(21) EP17777252.2  
(47) 01.11.2023  
(87) EP2017074705  
31.05.2018  
(22) 28.09.2017  
(54) MOTOR COMPONENT, PRIMARY PART AND LINEAR MOTOR  
(73) Kessler Energy GmbH  
(72) TROLLIET, Patrick  
SINNER, Markus  
ZEUMER, Christoph  
BORST, Daniel  
MENZ, Markus  
(31) 102016122612  
(32) 23.11.2016  
(33) Germany  

---

(51) H02K 41/03  
H02P 6/00  
H02P 25/06  
H01L 21/68  
(11) EP4143953  
(21) EP21732250.2  
(47) 01.11.2023  
(87) EP2021065425  
16.12.2021  
(22) 09.06.2021
- (54) METHOD FOR CONTROLLING A PLANAR DRIVE SYSTEM, AND PLANAR DRIVE SYSTEM  
(73) Beckhoff Automation GmbH  
(72) NEUMANN, Klaus  
JURKE, Benjamin  
WEDDEMANN, Alexander  
SENSEN, Dominik  
MAGUIRE, Keir  
(31) 102020115449  
(32) 10.06.2020  
(33) Germany  

---

(51) H02M 1/12  
H02M 1/44  
H10N 30/40  
(11) EP3817206  
(21) EP19206989.6  
(47) 01.11.2023  
(22) 04.11.2019  
(54) OUTPUT FILTER FOR POWER TRAIN  
(73) Hamilton Sundstrand Corporation  
(72) CASTRO, Ignacio  
POPEK, Grzegorz  

---

(51) H02M 1/42  
H02M 7/12  
(11) EP3799289  
(21) EP19806773.8  
(47) 01.11.2023  
(87) JP2019017113  
28.11.2019  
(22) 23.04.2019  
(54) TOTEM POLE-TYPE SINGLE PHASE PFC CONVERTER  
(73) Sony Group Corporation  
(72) YAMANE, Mitsuru  
(31) 2018098824  
(32) 23.05.2018  
(33) Japan  

---

(51) H02M 3/155  
H02M 1/42  
H02M 3/158  
(11) EP3562017  
(21) EP16924782.2  
(47) 01.11.2023  
(87) JP2016088326  
28.06.2018  
(22) 22.12.2016  
(54) POWER CONVERSION DEVICE  
(73) Mitsubishi Electric Corporation  
(72) MURAKAMI, Satoshi  
KONDO, Ryota  
TAKAHARA, Takaaki  

---

(51) H02M 5/458  
H01R 13/02  
H01R 13/03  
H01R 13/523  
(11) EP3657612  
(21) EP19208537.1  
(47) 01.11.2023  
(22) 12.11.2019  
(54) AC POWER TRANSFER OVER SELF-PASSIVATING CONNECTORS  
(73) Northrop Grumman Systems Corporation  
(72) WINDGASSEN, James R.  
HACK, Harvey P.  
(31) 201816200147  
(32) 26.11.2018

(33) United States of America	(54) POWER CONVERSION DEVICE	(54) METHOD FOR OPERATING AN ELECTRICAL MACHINE AND CONTROL UNIT
(51) H02M 7/00	(73) Mitsubishi Electric Corporation	(73) Robert Bosch GmbH
H02M 7/483	(72) ADACHI, Tomohiro	(72) SIEBER, Udo
(11) EP3518412	HARIO, Masahiro	(31) 102018209710
(21) EP17852052.4	IMADA, Noriyuki	(32) 15.06.2018
(47) 01.11.2023	(31) PCT/JP2017/021768	(33) Germany
(87) CL2017050053	(32) 13.06.2017	
29.03.2018	(33) World Intellectual Property Office (WIPO)	
(22) 20.09.2017	(51) H02P 1/16	(51) H02P 7/00
(54) MULTILEVEL CONVERTER FOR THE CONTROL AND TRANSMISSION OF ELECTRICAL ENERGY	H02P 25/18	F04B 1/00
(73) Universidad Andres Bello	H02P 27/16	F04B 43/02
Universidad Técnica Federico Santa María	H02P 1/46	H02P 6/16
(72) NORAMBUENA VALDIVIA, Margarita	(11) EP3621194	H02K 11/215
RODRIGUEZ PÉREZ, José	(21) EP19195184.7	H02P 6/17
KOURO RENAER, Samir	(47) 01.11.2023	H02K 1/12
(31) 20162365	(22) 03.09.2019	H02K 1/17
(32) 20.09.2016	(54) SYNCHRONOUS MACHINE AND METHOD FOR STARTING A SYNCHRONOUS MACHINE	(11) EP3195465
(33) Chile	(73) ABB Schweiz AG	(21) EP15842508.2
(51) H02M 7/219	(72) McElveen Jr., Robert F.	(47) 01.11.2023
H02H 7/125	Jarvinen, Jukka	(87) US2015051232
H02H 7/16	(31) 201816121130	24.03.2016
H02H 7/10	(32) 04.09.2018	(22) 21.09.2015
H02M 1/32	(33) United States of America	(54) APPARATUS FOR CONTROLLING THE OPERATION OF A MOTOR AND METHOD FOR CONTROLLING THE OPERATION OF A MOTOR
H02H 3/087	(51) H02P 6/10	(73) Flow Control LLC.
(11) EP3837746	H02P 29/50	(72) ESTRADA, Jesus
(21) EP19746468.8	H02J 50/10	PATEL, Akshaykumar
(47) 01.11.2023	H02J 50/80	(31) 201562114730 P
(87) EP2019070324	H02K 41/03	201462073324 P
20.02.2020	H02P 25/06	201462052865 P
(22) 29.07.2019	H02P 29/40	(32) 11.02.2015
(54) ELECTRICAL AC/DC CONVERSION ARRANGEMENT	H02K 11/00	31.10.2014
(73) Eaton Intelligent Power Limited	H02K 11/35	19.09.2014
(72) ASKAN, Kenan	H02J 7/02	(33) United States of America
(31) 102018119916	B65G 54/02	United States of America
(32) 16.08.2018	(11) EP4136747	United States of America
(33) Germany	(21) EP21727174.1	
(51) H02M 7/44	(47) 01.11.2023	(51) H02P 8/14
H02K 41/02	(87) EP2021063952	G05B 19/40
(11) EP4183039	02.12.2021	(11) EP2709264
(21) EP21785842.2	(22) 26.05.2021	(21) EP13176280.9
(47) 01.11.2023	(54) PLANAR DRIVE SYSTEM AND METHOD FOR OPERATING SAME	(47) 01.11.2023
(87) EP2021076583	(73) Beckhoff Automation GmbH	(22) 12.07.2013
07.04.2022	(72) BENTFELD, Lukas	(54) Motor speed enhancement
(22) 28.09.2021	BRINKMANN, Rolf	(73) Hamilton Sundstrand Corporation
(54) STATOR MODULE FOR A LINEAR TRANSPORT SYSTEM, LINEAR TRANSPORT SYSTEM AND OPERATING METHOD	JEBRAMCIK, Patrick	(72) O'Neil, John M.
(73) Beckhoff Automation GmbH	KAULMANN, Tim	(31) 201213617794
(72) KAULMANN, Tim	(31) 20176524	(32) 14.09.2012
OTTERPOHL, Dirk	(32) 26.05.2020	(33) United States of America
HEGSELMANN, Marc	(33) European Patent Office (EPO)	
(31) 102020125396	(51) H02P 6/182	(51) H02P 9/02
(32) 29.09.2020	H02P 6/20	H02P 29/024
(33) Germany	H02P 23/00	(11) EP3284167
(51) H02M 7/49	F02B 33/40	(21) EP16720312.4
H02J 3/36	F02B 37/10	(47) 01.11.2023
H02M 7/48	F02B 39/10	(87) AT2016000036
(11) EP3641123	H02P 29/20	20.10.2016
(21) EP18817130.0	H02P 23/03	(22) 11.04.2016
(47) 01.11.2023	(11) EP3807988	(54) METHOD FOR DETECTING AN IMMINENT POLE SLIP
(87) JP2018020542	(21) EP19718163.9	(73) Innio Jenbacher GmbH & Co OG
20.12.2018	(47) 01.11.2023	(72) FAHRINGER, Albert
(22) 29.05.2018	(87) EP2019059752	KRUCKENHAUSER, Erich
	19.12.2019	(31) 2332015
	(22) 16.04.2019	(32) 17.04.2015
		(33) Austria
		(51) H02P 23/00
		(11) EP3972121

(21) EP20306054.6	(11) EP4033659	H03F 3/191
(47) 01.11.2023	(21) EP21773433.4	H03F 3/193
(22) 18.09.2020	(47) 01.11.2023	H03F 3/20
(54) METHODS AND DEVICES FOR MITIGATING COMMON MODE CURRENTS IN AC POWER SYSTEMS	(87) CN2021105042	(11) EP3742607
(73) Schneider Toshiba Inverter Europe SAS	02.06.2022	(21) EP20178902.1
(72) MESSAOUDI, Mehdi	(22) 07.07.2021	(47) 01.11.2023
ALLAERT, Yves-Laurent	(54) DRIVE CIRCUIT AND MEMORY CHIP	(22) 26.09.2016
(51) H02P 29/10	(73) Changxin Memory Technologies, Inc.	(54) TUNED SEMICONDUCTOR AMPLIFIER
H02P 21/00	(72) ZHU, Lei	(73) MACOM Technology Solutions Holdings, Inc.
H02P 21/36	QIN, Jianyong	(72) NAGY, Walter H.
F02D 15/02	(31) 202011340226	PATTISON, Lyndon
H02P 21/22	(32) 25.11.2020	(31) 201514878952
(11) EP3754838	(33) China	(32) 08.10.2015
(21) EP18906346.4	(51) H03D 9/02	(33) United States of America
(47) 01.11.2023	H03D 9/06	(51) H03F 3/193
(87) JP2018034621	(11) EP3846340	H03F 3/45
22.08.2019	(21) EP20212674.4	H03F 1/02
(22) 19.09.2018	(47) 01.11.2023	(11) EP3672074
(54) MOTOR CONTROL DEVICE AND MOTOR CONTROL METHOD	(22) 09.12.2020	(21) EP18306718.0
(73) Hitachi Astemo, Ltd.	(54) DEVICE FOR MIXING OR MULTIPLYING FREQUENCY	(47) 01.11.2023
(72) SHINOZAKI, Yuya	(73) Tsinghua University	(22) 18.12.2018
HANO, Masaki	Nuctech Company Limited	(54) CONFIGURABLE SWITCHED POWER AMPLIFIER FOR EFFICIENT HIGH/LOW OUTPUT POWER
(31) 2018023472	(72) CHEN, Zhiqiang	(73) NXP USA, Inc.
(32) 13.02.2018	LI, Yuanjing	(72) CANNELLA, Maicol
(33) Japan	ZHAO, Ziran	LARIE, Aurelien
(51) H02S 50/10	HU, Haifan	DAL TOSO, Stefano
(11) EP3961916	MA, Xuming	(51) H03F 3/45
(21) EP21191001.3	HUANG, Shiwei	H03F 3/70
(47) 01.11.2023	(31) 201911425658	H03F 1/30
(22) 12.08.2021	(32) 31.12.2019	H03F 1/34
(54) PHOTOVOLTAIC SYSTEM, METHOD FOR LOCATING DEVICES IN PHOTOVOLTAIC STRING, MLPE APPARATUS AND METHOD FOR RANKING MLPE APPARATUSSES	(33) China	H01J 49/02
(73) Sungrow Power Supply Co., Ltd.	(51) H03F 1/32	G01T 1/17
(72) Yu, Yanfei	H03F 3/189	G01T 7/00
Jiang, Anying	H03F 3/24	(11) EP3896848
Wang, Xinyu	H03F 3/68	(21) EP21160155.4
Li, Xiaoxun	(11) EP3631979	(47) 01.11.2023
(31) 202010869819	(21) EP17728165.6	(22) 10.11.2017
(32) 26.08.2020	(47) 01.11.2023	(54) AN AMPLIFIER
(33) China	(87) EP2017063355	(73) Isotopx Ltd
(51) H02S 50/15	06.12.2018	(72) VOLKOVY, Vadim
H02S 50/10	(22) 01.06.2017	JONES, Anthony Michael
(11) EP3979492	(54) DIGITAL PREDISTORTION FOR ADVANCED ANTENNA SYSTEM	TOOTELL, Damian Paul
(21) EP20937178.0	(73) Telefonaktiebolaget LM Ericsson (Publ)	(31) 201704236
(47) 01.11.2023	(72) RAFIQUE, Raihan	201704237
(87) CN2020100130	(51) H03F 1/50	(32) 16.03.2017
06.01.2022	H03F 3/189	16.03.2017
(22) 03.07.2020	H03F 1/48	(33) United Kingdom
(54) ELECTRIC ENERGY BACKWARD- FLOW CONTROL METHOD, CONVERTER, AND PHOTOVOLTAIC POWER GENERATION SYSTEM	H03F 3/195	United Kingdom
(73) Huawei Digital Power Technologies Co., Ltd.	H03F 3/21	(51) H03K 5/1532
(72) XU, Fei	H03F 1/02	(11) EP3711161
YU, Xinyu	H03F 1/04	(21) EP19711720.3
XIN, Kai	(11) EP3599719	(47) 01.11.2023
WANG, Jianqiang	(21) EP18185582.6	(87) IB2019051770
(51) H03B 5/12	(22) 25.07.2018	12.09.2019
G05F 1/575	(54) A BROADBAND HIGH POWER AMPLIFIER	(22) 05.03.2019
G11C 11/4096	(73) Rohde & Schwarz GmbH & Co. KG	(54) DETECTING PEAK LASER PULSES USING CONTROL SIGNAL TIMINGS
G11C 7/10	(72) WITT, Thomas	(73) Alcon Inc.
	OHNIMUS, Florian	(72) DELONG, Scott
	DALISDA, Uwe	JUNG, David
	TITZE, Wolfram	(31) 201862640215 P
	ANDREI, Andreas	(32) 08.03.2018
	GÖRITZ, Raimon	(33) United States of America
	(51) H03F 1/56	(51) H03K 17/00
	H01L 23/64	H03K 7/08

(11) EP3573234	(21) EP21305907.4	(54) DATA COMPRESSION CODING
(21) EP19175898.6	(47) 01.11.2023	METHOD, DEVICE THEREFOR, AND
(47) 01.11.2023	(22) 01.07.2021	PROGRAM THEREFOR
(22) 22.05.2019	(54) POSITION RELIABILITY OF MAGNETS	(73) Kousokuya, Inc.
(54) SYSTEM FOR THE CONTROL OF	OF A SWITCHING DEVICE	DENSO Corporation
POWER DEVICES	(73) Schneider Electric Industries SAS	(72) SUZUKI, Takayuki
(73) Infineon Technologies Austria AG	(72) CASTILLO BUENAVENTURA, Felipe	SHIBATA, Kaoru
(72) BERNACCHIA, Giuseppe	WANG, Caijin	(31) 2016145397
COX, David Grant	(51) H03K 19/00	(32) 25.07.2016
(31) 201815988509	G11C 5/00	(33) Japan
(32) 24.05.2018	G06F 12/0873	(51) H03M 13/25
(33) United States of America	G06F 12/0875	H03M 13/29
(51) H03K 17/0812	(11) EP3512100	H03M 13/37
H03K 17/16	(21) EP18211450.4	H04L 1/00
(11) EP3869690	(47) 01.11.2023	H03M 13/11
(21) EP21156768.0	(22) 10.12.2018	H03M 13/15
(47) 01.11.2023	(54) CONFIGURATION OR DATA CACHING	H03M 13/09
(22) 12.02.2021	FOR PROGRAMMABLE LOGIC DEVICE	(11) EP3304747
(54) GATE VOLTAGE CONTROL	(73) Intel Corporation	(21) EP16803686.1
(73) NXP B.V.	(72) WEBER, Scott J.	(47) 01.11.2023
(72) KWOK, Kenneth Chung Yin	GREENHILL, David	(87) KR2016005638
LAI, Suming	ATSATT, Sean R.	08.12.2016
LI, Xuechu	GUTALA, Ravi Prakash	(22) 27.05.2016
ZHAN, Fuchun	DASU, Aravind Raghavendra	(54) RECEPTION OF A LAYERED DIVISION
QING, Jian	TAN, Jun Pin	MULTIPLEXING SIGNAL WITH OUTER
(31) 202010100661	(31) 201815868627	BCH AND INNER LDPC CODE
(32) 18.02.2020	(32) 11.01.2018	(73) Samsung Electronics Co., Ltd.
(33) China	(33) United States of America	(72) OH, Young-ho
(51) H03K 17/16	(51) H03M 1/14	MYUNG, Se-ho
H03K 17/082	H03M 1/10	(31) 20150076544
H03K 17/10	H03M 1/50	(32) 29.05.2015
H03K 17/687	H03M 1/54	(33) Korea (Republic)
H02M 3/335	(11) EP3618284	(51) H04B 1/00
G01R 19/00	(21) EP18192120.6	H04B 1/403
H02H 7/122	(47) 01.11.2023	(11) EP3876426
H02H 1/00	(22) 31.08.2018	(21) EP21160402.0
H02M 1/00	(54) CAPACITANCE-TO-DIGITAL	(47) 01.11.2023
(11) EP3416288	CONVERTER	(22) 03.03.2021
(21) EP18161450.4	(73) NXP B.V.	(54) RF SYSTEM AND ELECTRONIC
(47) 01.11.2023	(72) Fan, Hao	DEVICE
(22) 13.03.2018	Pertijs, Michiel	(73) GUANGDONG OPPO MOBILE
(54) MULTIPLE STAGE GATE DRIVER FOR	Buter, Berry	TELECOMMUNICATIONS CORP., LTD.
CASCADE SWITCH WITH CURRENT	(51) H03M 7/30	(72) CHEN, Xianlong
SENSING	H03M 7/40	(31) 202010139803
(73) Power Integrations, Inc.	(11) EP3317971	(32) 03.03.2020
(72) Duvnjak, Rajko	(21) EP16736606.1	(33) China
(31) 201715620018	(47) 01.11.2023	(51) H04B 1/04
(32) 12.06.2017	(87) GB2016052020	H04W 12/02
(33) United States of America	12.01.2017	H04L 67/12
(51) H03K 17/687	(22) 04.07.2016	(11) EP3477866
H03K 17/10	(54) DATA PROCESSING METHOD AND	(21) EP17815386.2
H03K 19/094	APPARATUS	(47) 01.11.2023
H03K 17/693	(73) SISP Technologies Ltd	(87) JP2017022635
H03K 17/30	(72) MARLOW, Stuart	28.12.2017
(11) EP3433933	STAVRINOU, Nicholas	(22) 20.06.2017
(21) EP16909633.6	(31) 201511740	(54) WIRELESS COMMUNICATION DEVICE,
(47) 01.11.2023	(32) 03.07.2015	WIRELESS COMMUNICATION
(87) US2016042691	(33) United Kingdom	SYSTEM, WIRELESS
25.01.2018	(51) H03M 7/40	COMMUNICATION METHOD,
(22) 17.07.2016	H03M 7/30	AND STORAGE MEDIUM HAVING
(54) DUAL RAIL CIRCUITRY USING FET	(11) EP3490153	WIRELESS COMMUNICATION
PAIRS	(21) EP17834102.0	PROGRAM STORED THEREIN
(73) Hewlett-Packard Development Company,	(47) 01.11.2023	(73) NEC Corporation
L.P.	(87) JP2017025955	(72) MIZUNO, Yoichiro
(72) DURHAM, Michael R.	01.02.2018	(31) 2016125148
BROOKS, Robert C.	(22) 18.07.2017	(32) 24.06.2016
(51) H03K 17/97		(33) Japan
(11) EP4113844		(51) H04B 1/26

H04B 1/12	SON, Yongam	(87) EP2019073859
H03D 7/16	LEE, Sangha	11.03.2021
(11) EP3902146	LEE, Seunghak	(22) 06.09.2019
(21) EP21169960.8	YI, Yunchul	(54) METHODS, COMPUTER PROGRAM
(47) 01.11.2023	(31) 20170122713	AND RADIO NETWORK NODE FOR
(22) 22.04.2021	(32) 22.09.2017	NULL-STEERING BEAMFORMING
(54) MICROWAVE RECEIVER DEVICE	(33) Korea (Republic)	(73) TELEFONAKTIEBOLAGET LM
(73) PICOSATS S.R.L.	(51) H04B 3/32	ERICSSON (PUBL)
(72) Fragiaco, Mario	(11) EP3926840	(72) GUNTUPALLI, Lakshmikanth
Dogo, Federico	(21) EP20216304.4	SUNDMAN, Dennis
Alimenti, Federico	(47) 01.11.2023	WILHELMSSON, Leif
Mezzanotte, Paolo	(22) 22.12.2020	(51) H04B 7/024
Palazzi, Valentina	(54) TRANSMIT CROSSTALK	H04B 7/06
Roselli, Luca	CANCELLATION SYSTEM	(11) EP4032193
(31) 20200008773	(73) INTEL Corporation	(21) EP19773041.9
(32) 23.04.2020	(72) MCCALL, James Alexander	(47) 01.11.2023
(33) Italy	CHU, Yunhui	(87) EP2019075061
(51) H04B 1/3827	MOZAK, Christopher Philip	25.03.2021
H04W 72/51	CONROW, Derek M.	(22) 18.09.2019
(11) EP3833123	KARL, Christian	(54) SIMULTANEOUS UPLINK AND
(21) EP18929515.7	(31) 202016903354	DOWNLINK TRANSMISSION USING
(47) 01.11.2023	(32) 16.06.2020	MULTIPLE ACCESS POINTS
(87) CN2018100020	(33) United States of America	(73) TELEFONAKTIEBOLAGET LM
13.02.2020	(51) H04B 5/00	ERICSSON (PUBL)
(22) 10.08.2018	H02J 50/12	(72) WILHELMSSON, Leif
(54) UPLINK RESOURCE ALLOCATION	H02J 50/60	GUNTUPALLI, Lakshmikanth
METHOD, APPARATUS AND DEVICE,	H02J 50/80	LOPEZ, Miguel
AND STORAGE MEDIUM	H02J 7/02	SUNDMAN, Dennis
(73) Beijing Xiaomi Mobile Software Co., Ltd.	(11) EP3664306	(51) H04B 7/04
(72) ZHOU, Juejia	(21) EP20151148.2	(11) EP3544199
(51) H04B 1/40	(47) 01.11.2023	(21) EP19173518.2
H04B 17/11	(22) 18.07.2012	(47) 01.11.2023
H04B 17/21	(54) DETECTION APPARATUS, ELECTRIC	(22) 12.08.2011
(11) EP3771112	POWER RECEIVING APPARATUS,	(54) CODEBOOK FOR EIGHT TRANSMIT
(21) EP19770661.7	ELECTRIC POWER TRANSMISSION	ANTENNAS AND MULTIPLE INPUT
(47) 01.11.2023	APPARATUS, WIRELESS ELECTRIC	MULTIPLE OUTPUT COMMUNICATION
(87) CN2019078688	POWER TRANSMISSION SYSTEM,	SYSTEM USING THE CODEBOOK
26.09.2019	AND DETECTION METHOD	(73) Samsung Electronics Co., Ltd.
(22) 19.03.2019	(73) Sony Group Corporation	(72) CLERCKX, Bruno
(54) METHOD AND APPARATUS FOR	(72) Nakano, Hiroaki	CHOI, Jun, Il
CALIBRATING TRANSCEIVER,	Hashiguchi, Takaaki	KIM, Ki, Il
RECEIVING CHANNEL, AND	Fukuda, Shinichi	(31) 20110023690
TRANSMITTING CHANNEL	Fujimaki, Kenichi	201061428348 P
(73) ZTE Corporation	(31) 2011162589	38873610 P
(72) DUAN, Yajuan	(32) 25.07.2011	37394210 P
LI, Xiangling	(33) Japan	(32) 17.03.2011
(31) 201810245894	(51) H04B 5/00	30.12.2010
(32) 23.03.2018	H04B 7/08	01.10.2010
(33) China	G06K 7/10	16.08.2010
(51) H04B 1/401	(11) EP3682551	(33) Korea (Republic)
H04B 1/3827	(21) EP17771704.8	United States of America
(11) EP3672089	(47) 01.11.2023	United States of America
(21) EP18859843.7	(87) EP2017072820	United States of America
(47) 01.11.2023	21.03.2019	(51) H04B 7/06
(87) KR2018011113	(22) 12.09.2017	(11) EP3921950
28.03.2019	(54) COMMUNICATION NODE AND	(21) EP19829226.0
(22) 20.09.2018	METHOD FOR GENERATING	(47) 01.11.2023
(54) METHOD FOR PERFORMING	BEAMFORMED SIGNALS BY	(87) EP2019086971
COMMUNICATION WITH EXTERNAL	BACKSCATTERING	13.08.2020
ELECTRONIC DEVICE USING	(73) Telefonaktiebolaget LM Ericsson (PUBL)	(22) 23.12.2019
RESONANT FREQUENCY MODIFIED	(72) LOPEZ, Miguel	(54) SECURE DATA TRANSMISSION BY
ACCORDING TO PROXIMITY	OLSSON, Thomas	SPATIAL MODULATION
OF EXTERNAL OBJECT, AND	WILHELMSSON, Leif	(73) Centre National de la Recherche
ELECTRONIC DEVICE SUPPORTING	(51) H04B 7/024	Scientifique
SAME	H04B 7/06	Institut National des Sciences Appliquées
(73) Samsung Electronics Co., Ltd.	(11) EP4026254	de Rennes
(72) YOO, Donghyun	(21) EP19766000.4	(72) YVEN, François
PARK, Chanho	(47) 01.11.2023	HELARD, Maryline



(31) 1901295	(47) 01.11.2023	(47) 01.11.2023
(32) 08.02.2019	(87) US2018033982	(87) EP2018074466
(33) France	29.11.2018	19.03.2020
(51) H04B 7/06	(22) 22.05.2018	(22) 11.09.2018
(11) EP3553967	(54) SYSTEM AND METHOD FOR GROUND	(54) EQUALIZING DEVICE FOR
(21) EP18305447.7	BASED BEAM FORMING (GBBF) FOR	COMPENSATING RAPID STATE OF
(47) 01.11.2023	VERY HIGH THROUGHPUT SATELLITE	POLARIZATION CHANGES OF AN
(22) 12.04.2018	(VHTS) SYSTEMS	OPTICAL SIGNAL
(54) SYSTEM AND METHOD FOR DATA	(73) Hughes Network Systems, LLC	(73) HUAWEI TECHNOLOGIES CO., LTD.
TRANSMISSION BETWEEN A SERVER	(72) RAVISHANKAR, Channasandra	(72) KUSCHNEROV, Maxim
UNIT AND A REMOTE UNIT IN A	CORRIGAN, John	PITTALA, Fabio
COMMUNICATION NETWORK	(31) 201762509444 P	(51) H04B 10/40
(73) Nokia Technologies Oy	(32) 22.05.2017	H04B 10/50
(72) EL MGHAZLI, Yacine	(33) United States of America	H04B 10/588
TABURET, François	(51) H04B 7/185	(11) EP3678305
(51) H04B 7/06	G01S 5/02	(21) EP17927386.7
H04L 5/00	G01S 5/00	(47) 01.11.2023
(11) EP3500004	(11) EP3855643	(87) CN2017105164
(21) EP17838384.0	(21) EP21152709.8	04.04.2019
(47) 01.11.2023	(47) 01.11.2023	(22) 30.09.2017
(87) CN2017082899	(22) 21.01.2021	(54) OPTICAL DEVICE APPARATUS
15.02.2018	(54) METHOD AND SYSTEM FOR	COMPRISED AN ELECTRO-
(22) 03.05.2017	LOCALIZING SATELLITE TERMINALS	ABSORPTION MODULATED LASER
(54) INFORMATION TRANSMISSION	(73) Databourg Systems s.à r.l.-s	(73) Huawei Technologies Co., Ltd.
METHOD AND DEVICE BASED ON	(72) Gharanjik, Ahmad	(72) WEN, Yue
SWEEPING BLOCK	(31) 101614	LIN, Huafeng
(73) ZTE Corporation	(32) 23.01.2020	XU, Zhiguang
(72) LIU, Xing	(33) Luxembourg	YANG, Sulin
BI, Feng	(51) H04B 7/185	WU, Xuming
ZHANG, Junfeng	H04B 7/204	GAO, Jianhe
HAO, Peng	(11) EP3857738	(51) H04B 17/10
GAO, Bo	(21) EP19773467.6	G06N 3/08
(31) 201610669806	(47) 01.11.2023	(11) EP3910822
(32) 12.08.2016	(87) EP2019076257	(21) EP20175095.7
(33) China	02.04.2020	(47) 01.11.2023
(51) H04B 7/185	(22) 27.09.2019	(22) 15.05.2020
(11) EP3396870	(54) SATELLITE COMMUNICATION	(54) METHOD OF AND DEVICE FOR
(21) EP17168651.2	SYSTEM	RECOGNIZING A RADIO FREQUENCY
(47) 01.11.2023	(73) ST Engineering iDirect (Europe) Cy NV	SOURCE
(22) 28.04.2017	(72) DUYCK, Dieter	(73) Airbus Defence and Space GmbH
(54) DUAL-FREQUENCY DOWNLINK	MERTENS, Michiel	(72) Franke, Andre
TRANSMITTER	VANDENBRUAENE, Jon	(51) H04B 17/26
(73) Airbus Defence and Space GmbH	DE BIE, Ulrik	H04B 17/309
(72) LANG, Rainer	SIMOENS, Frederik	H04L 5/00
(51) H04B 7/185	(31) 201805665	H04B 17/24
(11) EP3414850	(32) 28.09.2018	H04B 17/382
(21) EP17709360.6	(33) Belgium	(11) EP3985889
(47) 01.11.2023	(51) H04B 10/077	(21) EP21213906.7
(87) EP2017053174	G01M 11/00	(47) 01.11.2023
17.08.2017	H04B 10/2581	(22) 23.09.2016
(22) 13.02.2017	(11) EP3387763	(54) METHOD AND USER EQUIPMENT
(54) SYSTEM AND METHOD FOR	(21) EP15834636.1	FOR PERFORMING CHANNEL STATE
MANAGING DATA CONNECTIVITY	(47) 01.11.2023	MEASUREMENTS
LINKS FOR AVIATION VEHICLES	(87) IB2015002448	(73) Telefonaktiebolaget LM Ericsson (publ)
(73) Aeronet Global Communications Labs	15.06.2017	(72) Yang, Yu
Dac	(22) 07.12.2015	Mukherjee, Amitav
(72) RUSSELL, Brian	(54) METHOD FOR SELECTING WIDE-	Cheng, Jung-Fu
FARRELL, Ronan	BAND MULTIMODE FIBERS	Falahati, Sorour
(31) 201662294569 P	FROM A SINGLE WAVELENGTH	Chen Larsson, Daniel
16156609	CHARACTERIZATION	Koorapaty, Havish
(32) 12.02.2016	(73) Draka Comteq B.V.	(31) 201562232899 P
19.02.2016	(72) MOLIN, Denis	(32) 25.09.2015
(33) United States of America	DE JONGH, Koen	(33) United States of America
European Patent Office (EPO)	BIGOT, Marianne	(51) H04B 17/364
(51) H04B 7/185	SILLARD, Pierre	(11) EP3537631
(11) EP3631895	(51) H04B 10/2507	(21) EP17867642.5
(21) EP18805581.8	(11) EP3837780	(47) 01.11.2023
	(21) EP18769650.5	(87) CN2017100212

11.05.2018	(31) 201410152754	(54) RATE MATCHING AND SEMI
(22) 01.09.2017	201461989340 P	PERSISTENT SCHEDULING
(54) CIRCUIT DELAY SELF-MEASUREMENT	(32) 16.04.2014	CONFIGURATION IN WIRELESS
METHOD, DEVICE, AND SYSTEM	06.05.2014	COMMUNICATIONS
(73) Tendyron Corporation	(33) China	(73) QUALCOMM Incorporated
(72) Li, Dongsheng	United States of America	(72) RICO ALVARINO, Alberto
(31) 201610977256	(51) H04J 3/06	LIU, Le
201610978228	H04N 21/242	(31) 201916507282
(32) 07.11.2016	(11) EP3520253	201862697726 P
07.11.2016	(21) EP17777887.5	(32) 10.07.2019
(33) China	(47) 01.11.2023	13.07.2018
China	(87) EP2017074806	(33) United States of America
(51) H04B 17/373	05.04.2018	United States of America
G06N 20/00	(22) 29.09.2017	(51) H04L 1/00
H04B 17/391	(54) TIME SYNCHRONIZATION IN A LIVE	G06F 11/10
H04L 5/00	CONTENT DISTRIBUTION SYSTEM	(11) EP3972166
H04W 24/10	(73) Net Insight AB	(21) EP21190720.9
H04W 36/00	(72) BOHM, Christer	(47) 01.11.2023
H04W 72/04	(31) 1651288	(22) 11.08.2021
(11) EP4032206	(32) 30.09.2016	(54) FORWARD ERROR CORRECTION
(21) EP19945496.8	(33) Sweden	AND CYCLIC REDUNDANCY CHECK
(47) 01.11.2023	(51) H04J 11/00	MECHANISMS FOR LATENCY-
(87) SE2019050893	H04W 72/0446	CRITICAL COHERENCY AND MEMORY
25.03.2021	H04W 24/02	INTERCONNECTS
(22) 19.09.2019	H04W 88/08	(73) Intel Corporation
(54) PREDICTING CONDITIONS ON	(11) EP3576474	(72) Das Sharma, Debendra
CARRIER FREQUENCIES IN A	(21) EP18772177.4	Choudhary, Swadesh
COMMUNICATIONS NETWORK	(47) 01.11.2023	(31) 202017134240
(73) Telefonaktiebolaget LM Ericsson (publ)	(87) CN2018079521	202063080497 P
(72) MOOSAVI, Reza	27.09.2018	(32) 25.12.2020
RYDÉN, Henrik	(22) 20.03.2018	18.09.2020
BERGLUND, Joel	(54) INFORMATION TRANSMISSION	(33) United States of America
RAMACHANDRA, Pradeepa	METHOD AND DEVICE, INFORMATION	United States of America
ZHOHOV, Roman	PROCESSING METHOD AND DEVICE	(51) H04L 1/00
BIN REDHWAN, Sakib	(73) Huawei Technologies Co., Ltd.	H03M 13/13
(51) H04J 3/06	(72) XIE, Xinqian	H04L 5/00
(11) EP3732806	GUO, Zhiheng	(11) EP3863200
(21) EP17825557.6	MA, Sha	(21) EP21158794.4
(47) 01.11.2023	SUN, Wei	(47) 01.11.2023
(87) EP2017084837	(31) 201710182194	(22) 05.09.2018
04.07.2019	(32) 24.03.2017	(54) METHOD AND APPARATUS FOR
(22) 29.12.2017	(33) China	MAPPING UPLINK CONTROL
(54) METHOD, DEVICE AND SYSTEM FOR	(51) H04J 14/02	INFORMATION FOR CHANNEL STATE
ESTIMATING OFFSET SKEW AND	(11) EP3545635	INFORMATION FEEDBACK
DRIFT	(21) EP17784091.5	(73) Samsung Electronics Co., Ltd.
(73) Khalifa University of Science and	(47) 01.11.2023	(72) Noh, Hoondong
Technology	(87) US2017053176	Lee, Hyojin
British Telecommunications public limited	24.05.2018	Kwak, Youngwoo
company	(22) 25.09.2017	(31) 20170116570
Emirates Telecommunications	(54) OPTICAL NETWORK UNIT	(32) 12.09.2017
Corporation	WAVELENGTH TUNING	(33) Korea (Republic)
(72) AWEYA, James	(73) Google LLC	(51) H04L 1/00
(51) H04J 3/06	(72) ZHAO, Xiangjun	H04L 1/18
H04L 65/80	LAM, Cedric, Fung	(11) EP3424165
H04L 65/00	YIN, Shuang	(21) EP16896149.8
G10L 25/78	JIANG, Changhong, Joy	(47) 01.11.2023
G10L 25/48	DONG, Ke	(87) CN2016081172
(11) EP3550743	(31) 201615354811	05.10.2017
(21) EP19171996.2	(32) 17.11.2016	(22) 05.05.2016
(47) 01.11.2023	(33) United States of America	(54) SYSTEM AND METHOD FOR PILOT
(22) 09.04.2015	(51) H04L 1/00	ASSISTED GRANT-FREE UPLINK
(54) JITTER BUFFER CONTROL BASED ON	(11) EP3821551	TRANSMISSION IDENTIFICATION
MONITORING OF DELAY JITTER AND	(21) EP19758826.2	(73) Huawei Technologies Co., Ltd.
CONVERSATIONAL DYNAMICS	(47) 01.11.2023	(72) ZHANG, Liqing
(73) Dolby Laboratories Licensing Corporation	(87) US2019041400	CAO, Yu
(72) Li, Kai	16.01.2020	(31) 201615088607
SUN, Xuejing	(22) 11.07.2019	(32) 01.04.2016
SPITTLE, Gary		(33) United States of America

(51) H04L 1/00	(11) EP3895492	(47) 01.11.2023
H04L 5/00	(21) EP19836409.3	(87) EP2019073973
H04W 72/12	(47) 01.11.2023	02.04.2020
(11) EP4037213	(87) US2019066344	(22) 09.09.2019
(21) EP20867975.3	18.06.2020	(54) USER EQUIPMENT AND
(47) 01.11.2023	(22) 13.12.2019	BASE STATION INVOLVED IN
(87) KR2020013205	(54) PRUNING RULES FOR DCI	TRANSMISSION OF DATA
01.04.2021	REPETITION	(73) Panasonic Intellectual Property
(22) 28.09.2020	(73) QUALCOMM Incorporated	Corporation of America
(54) OPERATING METHOD OF UE	(72) KHOSHNEVISAN, Mostafa	(72) TAO, Ming-Hung
RELATED TO SCI TRANSMISSION IN	ZHANG, Xiaoxia	SHAH, Rikin
WIRELESS COMMUNICATION SYSTEM	SUN, Jing	SUZUKI, Hidetoshi
(73) LG Electronics Inc.	LUO, Tao	BHAMRI, Ankit
(72) HONG, Uihyun	(31) 201916712949	(31) 18196683
LEE, Seungmin	201862780124 P	(32) 25.09.2018
HWANG, Daesung	(32) 12.12.2019	(33) European Patent Office (EPO)
(31) 20190123947	14.12.2018	(51) H04L 1/18
20190119792	(33) United States of America	(11) EP4068664
(32) 07.10.2019	United States of America	(21) EP21212913.4
27.09.2019	(51) H04L 1/1607	(47) 01.11.2023
(33) Korea (Republic)	H04L 1/00	(22) 07.01.2009
Korea (Republic)	(11) EP3652875	(54) METHOD, APPARATUS AND
(51) H04L 1/00	(21) EP18737299.0	COMPUTER PROGRAM TO MAP
H04L 27/34	(47) 01.11.2023	A DOWNLINK RESOURCE TO A
H04W 88/04	(87) EP2018068935	RELATED UPLINK TRANSMISSION
(11) EP3849115	17.01.2019	(73) Nokia Technologies Oy
(21) EP19873491.5	(22) 12.07.2018	(72) OJALA, Jussi
(47) 01.11.2023	(54) COMMUNICATION DEVICE, SYSTEM	FREDERIKSEN, Frank
(87) CN2019107833	AND METHOD FOR COMMUNICATION	MALKAMAKI, Esa
23.04.2020	USING FEEDBACK	(31) 10354
(22) 25.09.2019	(73) Koninklijke Philips N.V.	(32) 07.01.2008
(54) METHOD AND DEVICE FOR	(72) GÖKTEPE, Baris	(33) United States of America
TRANSMITTING DATA	FEHRENBACH, Thomas	(51) H04L 1/18
(73) HUAWEI TECHNOLOGIES CO., LTD.	HELLGE, Cornelius	H04W 72/04
(72) DONG, Pengpeng	SCHIERL, Thomas	H04L 5/00
LI, Yuanjie	THOMAS, Robin Rajan	H04W 74/02
DOU, Shengyue	WIRTH, Thomas	H04L 1/16
XU, Zijie	(31) 17186157	H04L 1/12
(31) 201811224548	17181315	H04L 1/1829
(32) 19.10.2018	(32) 14.08.2017	H04L 1/1867
(33) China	13.07.2017	H04L 1/1607
(51) H04L 1/06	(33) European Patent Office (EPO)	H04W 72/0446
H04B 7/06	European Patent Office (EPO)	H04W 16/14
H04L 27/26	(51) H04L 1/1607	H04W 48/00
H04W 16/28	H04L 1/1829	(11) EP3335348
H04L 5/00	H04L 5/00	(21) EP16754629.0
(11) EP3926865	H04B 7/26	(47) 01.11.2023
(21) EP19919199.0	(11) EP3731445	(87) US2016046779
(47) 01.11.2023	(21) EP20180055.4	16.02.2017
(87) JP2019009506	(47) 01.11.2023	(22) 12.08.2016
17.09.2020	(22) 28.09.2011	(54) CONTENTION-BASED CO-EXISTENCE
(22) 08.03.2019	(54) METHOD AND APPARATUS FOR	ON A SHARED COMMUNICATION
(54) TRANSMISSION DEVICE,	TRANSMITTING RECEPTION	MEDIUM
RECEIVING DEVICE, AND WIRELESS	CONFIRMATION IN WIRELESS	(73) QUALCOMM Incorporated
COMMUNICATION SYSTEM FOR	SYSTEM	(72) KADOUS, Tamer Adel
GENERATING TRANSMISSION BLOCK	(73) LG ELECTRONICS INC.	VALLIAPPAN, Nachiappan
PATTERNS IN TIME AND FREQUENCY	(72) SEO, Dong Youn	SADEK, Ahmed Kamel
DIRECTION	KIM, Min Gyu	RADULESCU, Andrei Dragos
(73) MITSUBISHI ELECTRIC	YANG, Suck Chel	(31) 201615234991
CORPORATION	AHN, Joon Kui	201562204303 P
(72) TAIRA, Akinori	(31) 38745910 P	(32) 11.08.2016
SANO, Hiroyasu	(32) 28.09.2010	12.08.2015
MASUDA, Shinji	(33) United States of America	(33) United States of America
(51) H04L 1/08	(51) H04L 1/1607	United States of America
H04L 5/00	H04L 1/1867	(51) H04L 5/00
H04W 72/23	H04L 1/00	(11) EP3602933
H04L 1/1812	(11) EP3857759	(21) EP18717995.7
H04L 1/1822	(21) EP19762993.4	(47) 01.11.2023

(87) IB2018052002 27.09.2018	(73) QUALCOMM Incorporated	(11) EP3583730
(22) 23.03.2018	(72) SUN, Jing	(21) EP18713067.9
(54) SEMI-PERSISTENT CSI FEEDBACK OVER PUSCH	YANG, Yang	(47) 01.11.2023
(73) Telefonaktiebolaget LM Ericsson (publ)	LEE, Heechoon	(87) US2018015533
(72) HARRISON, Robert Mark	(31) 201816022136	23.08.2018
FAXÉR, Sebastian	201762527014 P	(22) 26.01.2018
FRENNE, Mattias	(32) 28.06.2018	(54) RESOURCE INDEX DETERMINATION FOR BUNDLED CHANNEL
GAO, Shiwei	29.06.2017	TRANSMISSION IN SPECIAL
MURUGANATHAN, Siva	(33) United States of America	SUBFRAMES
(31) 201762476483 P	United States of America	(73) Qualcomm Incorporated
(32) 24.03.2017	(51) H04L 5/00	(72) RICO ALVARINO, Alberto
(33) United States of America	(11) EP4072058	SESNIC, Tom
(51) H04L 5/00	(21) EP22160919.1	SU, Yi
(11) EP3611867	(47) 01.11.2023	CHEN, Wanshi
(21) EP19200149.3	(22) 30.09.2017	(31) 201715713588
(47) 01.11.2023	(54) CDM8 BASED CSI-RS DESIGNS FOR MIMO	201762458810 P
(22) 13.05.2016	(73) Telefonaktiebolaget LM Ericsson (publ)	(32) 22.09.2017
(54) TECHNIQUES FOR MANAGING TRANSMISSIONS OF SOUNDING REFERENCE SIGNALS OVER A SHARED FREQUENCY SPECTRUM BAND	(72) MURUGANATHAN, Siva	14.02.2017
(73) QUALCOMM Incorporated	GAO, Shiwei	(33) United States of America
(72) FAN, Zhifei	HARRISON, Robert Mark	United States of America
YOO, Taesang	(31) 201662403044 P	(51) H04L 5/00
SUN, Jing	(32) 30.09.2016	H04B 7/024
ZHANG, Xiaoxia	(33) United States of America	H04W 8/24
(31) 201615153419	(51) H04L 5/00	(11) EP3737022
201562165835 P	(11) EP3834334	(21) EP19750486.3
(32) 12.05.2016	(21) EP19752612.2	(47) 01.11.2023
22.05.2015	(47) 01.11.2023	(87) CN2019074631
(33) United States of America	(87) US2019044341	15.08.2019
United States of America	13.02.2020	(22) 02.02.2019
(51) H04L 5/00	(22) 31.07.2019	(54) METHOD, DEVICE AND EQUIPMENT FOR DETERMINING QUASI CO- LOCATION INFORMATION
(11) EP3753184	(54) PHASE TRACKING REFERENCE SIGNAL PORT OR CONFIGURATION SHARING ACROSS MULTIPLE PHYSICAL DOWNLINK CHANNELS OF MULTIPLE TRANSMIT RECEIVE POINTS	(73) HUAWEI TECHNOLOGIES CO., LTD.
(21) EP19708733.1	(73) QUALCOMM INCORPORATED	(72) WANG, Ting
(47) 01.11.2023	(72) MANOLAKOS, Alexandros	REN, Haibao
(87) US2019018205	LEE, Heechoon	DOU, Shengyue
22.08.2019	JOHN WILSON, Makesh Pravin	LI, Yuanjie
(22) 15.02.2019	CHEN, Wanshi	(31) 201810141764
(54) METHOD AND APPARATUS FOR PUNCTURED SOUNDING AND PARTIAL BANDWIDTH FEEDBACK	LUO, Tao	(32) 11.02.2018
(73) QUALCOMM Incorporated	(31) 20180100375	(33) China
(72) VERMA, Lochan	201916526804	(51) H04L 5/00
TIAN, Bin	(32) 08.08.2018	H04B 7/06
VERMANI, Sameer	30.07.2019	H04B 7/08
YANG, Lin	(33) Greece	H04W 8/22
CHEN, Jialing Li	United States of America	H04W 56/00
KIM, Youhan	(51) H04L 5/00	(11) EP3682587
(31) 201916276137	(11) EP2597919	(21) EP18792459.2
201862660128 P	(21) EP11809419.2	(47) 01.11.2023
201862710596 P	(47) 01.11.2023	(87) IB2018001143
(32) 14.02.2019	(87) JP2011003901	14.03.2019
19.04.2018	26.01.2012	(22) 11.09.2018
16.02.2018	(22) 07.07.2011	(54) REFERENCE SIGNALS FOR RADIO LINK MONITORING
(33) United States of America	(54) BASE STATION, TERMINAL, SEARCH SPACE SETTING METHOD AND DECODING METHOD	(73) Lenovo (Singapore) Pte. Ltd.
United States of America	(73) Sun Patent Trust	(72) JUNG, Hyejung
United States of America	(72) NAKAO, Seigo	NANGIA, Vijay
(51) H04L 5/00	NISHIO, Akihiko	BASU MALLICK, Prateek
(11) EP3902188	HORIUCHI, Ayako	MOLAVIANJAZI, Ebrahim
(21) EP21178860.9	IMAMURA, Daichi	KUCHIBHOTLA, Ravi
(47) 01.11.2023	(31) 2010164308	LOEHR, Joachim
(22) 29.06.2018	(32) 21.07.2010	(31) 201762557037 P
(54) RATE MATCHING BEHAVIOR FOR BUNDLED CORESETS	(33) Japan	(32) 11.09.2017
	(51) H04L 5/00	(33) United States of America
		(51) H04L 5/00
		H04B 17/30
		H04L 25/02
		H04L 27/26

H04B 7/06	H04L 27/26	H04L 25/02
H04W 56/00	H04B 7/026	H04W 72/04
H04L 5/14	H04B 7/155	(11) EP3602930
(11) EP3443703	(11) EP3804197	(21) EP18717200.2
(21) EP17781863.0	(21) EP19726238.9	(47) 01.11.2023
(47) 01.11.2023	(47) 01.11.2023	(87) US2018024170
(87) CN2017080040	(87) US2019030610	27.09.2018
19.10.2017	28.11.2019	(22) 23.03.2018
(22) 11.04.2017	(22) 03.05.2019	(54) TECHNIQUES FOR MULTI-CLUSTER
(54) METHOD AND APPARATUS FOR	(54) MULTI-TRANSMISSION/RECEPTION	UPLINK TRANSMISSIONS
FACILITATING REFERENCE SIGNAL	POINT (MULTI-TRP) TRANSMISSION	(73) Qualcomm Incorporated
TRANSMISSION	WITH DYNAMIC TRP CLUSTERS	(72) MANOLAKOS, Alexandros
(73) Telefonaktiebolaget LM Ericsson (PUBL)	(73) QUALCOMM Incorporated	SORIAGA, Joseph Binamira
(72) MIAO, Qingyu	(72) ZHANG, Xiaoxia	XU, Hao
ZHU, Huaisong	RADULESCU, Andrei	CHEN, Wanshi
WANG, Jianfeng	YERRAMALLI, Srinivas	JI, Tingfang
(31) PCT/CN2016/078965	WEI, Yongbin	GAAL, Peter
(32) 11.04.2016	KADOUS, Tamer	(31) 201815933068
(33) World Intellectual Property Office (WIPO)	SUN, Jing	201762476356 P
(51) H04L 5/00	(31) 201916401979	(32) 22.03.2018
H04L 1/00	201862676589 P	24.03.2017
H04W 52/02	(32) 02.05.2019	(33) United States of America
H04W 72/23	25.05.2018	United States of America
(11) EP3940985	(33) United States of America	(51) H04L 5/00
(21) EP21195371.6	United States of America	H04L 27/26
(47) 01.11.2023	(51) H04L 5/00	(11) EP3697018
(22) 18.01.2018	H04L 25/02	(21) EP20169102.9
(54) RATE MATCHING OF DATA	H04B 7/0417	(47) 01.11.2023
TRANSMISSION IN A CONTROL	(11) EP4106259	(22) 09.02.2017
RESOURCE REGION	(21) EP22188296.2	(54) SYSTEMS AND METHODS
(73) QUALCOMM Incorporated	(47) 01.11.2023	FOR PHASE NOISE TRACKING
(72) JOHN WILSON, Makesh Pravin	(22) 22.11.2017	REFERENCE SIGNAL SEQUENCE
LUO, Tao	(54) METHOD AND APPARATUS FOR	GENERATION USING DEMODULATION
YOO, Taesang	CHANNEL ESTIMATION AND	REFERENCE SIGNALS
ZHANG, Xiaoxia	DATA DECODING IN WIRELESS	(73) Telefonaktiebolaget LM Ericsson (publ)
LEE, Heechoon	COMMUNICATION SYSTEM	(72) HESSLER, Martin
NAMGOONG, June	(73) Samsung Electronics Co., Ltd.	BALDEMAIR, Robert
SADIQ, Bilal	(72) Kwak, Youngwoo	LINDBOM, Lars
LI, Wenjun	Kim, Younsun	SAHLIN, Henrik
(31) 201715713536	Noh, Hoondong	WIBERG, Niclas
201762449007 P	Shin, Cheolkyu	(31) 201662292990 P
(32) 22.09.2017	(31) 20170003609	(32) 09.02.2016
21.01.2017	20160168921	(33) United States of America
(33) United States of America	201662425299 P	(51) H04L 5/00
United States of America	(32) 10.01.2017	H04L 27/26
(51) H04L 5/00	12.12.2016	(11) EP3915215
H04L 1/00	22.11.2016	(21) EP20704765.5
H04W 72/00	(33) Korea (Republic)	(47) 01.11.2023
(11) EP4009724	Korea (Republic)	(87) US2020013988
(21) EP20850212.0	United States of America	30.07.2020
(47) 01.11.2023	(51) H04L 5/00	(22) 17.01.2020
(87) CN2020092808	H04L 25/02	(54) SEQUENCE GENERATION TO
11.02.2021	H04L 27/26	SUPPORT DEMODULATION
(22) 28.05.2020	(11) EP3860034	REFERENCE SIGNAL MULTIPLEXING
(54) TERMINAL CAPABILITY PROCESSING	(21) EP21165438.9	FOR PI OVER 2 BINARY PHASE SHIFT
METHOD, APPARATUS, AND DEVICE	(47) 01.11.2023	KEYING MODULATION
(73) Datang Mobile Communications	(22) 16.06.2008	(73) QUALCOMM INCORPORATED
Equipment Co., Ltd.	(54) CHANNEL SOUNDING USING	(72) YANG, Wei
(72) WANG, Lei	MULTIPLE SOUNDING SIGNAL	HUANG, Yi
GAO, Xuejuan	CONFIGURATIONS	GAAL, Peter
XING, Yanping	(73) Telefonaktiebolaget LM Ericsson (publ)	(31) 202016744548
(31) 201910711791	(72) Dahlman, Erik	201962810357 P
(32) 02.08.2019	Jading, Ylva	201962794953 P
(33) China	Parkvall, Stefan	(32) 16.01.2020
(51) H04L 5/00	(31) 954734 P	25.02.2019
H04L 5/14	(32) 08.08.2007	21.01.2019
H04B 7/26	(33) United States of America	(33) United States of America
H04L 1/00	(51) H04L 5/00	United States of America

United States of America	14.11.2019	20190142884
(51) H04L 5/00	(22) 09.05.2019	20190131810
H04L 27/26	(54) SHARED CHANNEL DESIGN AROUND	20190129503
H04L 1/00	RESERVED RESOURCES	20190126605
H04W 72/542	(73) QUALCOMM Incorporated	20190123248
(11) EP4044647	(72) BHATTAD, Kapil	201962938668 P
(21) EP20874739.4	SUN, Jing	201962902416 P
(47) 01.11.2023	ZHANG, Xiaoxia	(32) 18.11.2019
(87) JP2020032611	THYAGARAJAN, Ananta Narayanan	15.11.2019
15.04.2021	KADOUS, Tamer	08.11.2019
(22) 28.08.2020	(31) 201841017827	23.10.2019
(54) BASE STATION, TERMINAL,	201916406624	18.10.2019
TRANSMISSION METHOD, AND	(32) 11.05.2018	14.10.2019
RECEPTION METHOD	08.05.2019	04.10.2019
(73) Panasonic Intellectual Property	(33) India	21.11.2019
Corporation of America	United States of America	19.09.2019
(72) NUNOME, Tomoya	(51) H04L 5/00	(33) Korea (Republic)
SUZUKI, Hidetoshi	H04W 36/00	Korea (Republic)
KUANG, Quan	(11) EP3890224	Korea (Republic)
HORIUCHI, Ayako	(21) EP18941379.2	Korea (Republic)
(31) 2019184566	(47) 01.11.2023	Korea (Republic)
(32) 07.10.2019	(87) CN2018118721	Korea (Republic)
(33) Japan	04.06.2020	Korea (Republic)
(51) H04L 5/00	(22) 30.11.2018	United States of America
H04L 27/26	(54) UPLINK SIGNAL SENDING METHOD	United States of America
H04W 72/23	AND TERMINAL	(51) H04L 5/00
(11) EP3852459	(73) Huawei Technologies Co., Ltd.	H04W 72/21
(21) EP18933504.5	(72) DAI, Xizeng	H04W 72/044
(47) 01.11.2023	WANG, Hong	(11) EP3603287
(87) JP2018033508	ZHANG, Jian	(21) EP18716075.9
19.03.2020	CHENG, Xingqing	(47) 01.11.2023
(22) 10.09.2018	(51) H04L 5/00	(87) US2018023556
(54) USER EQUIPMENT AND WIRELESS	H04W 52/02	27.09.2018
COMMUNICATION METHOD	H04W 76/28	(22) 21.03.2018
(73) NTT DOCOMO, INC.	H04W 72/23	(54) SYSTEMS AND METHODS FOR AN
(72) TAKEDA, Kazuki	(11) EP4007401	ENHANCED SCHEDULING REQUEST
NAGATA, Satoshi	(21) EP19952585.8	FOR 5G NR
WANG, Lihui	(47) 01.11.2023	(73) Sharp Kabushiki Kaisha
HOU, Xiaolin	(87) CN2019117669	(72) SHAHEEN, Kamel M.
(51) H04L 5/00	20.05.2021	AIBA, Tatsushi
H04L 27/30	(22) 12.11.2019	(31) 201762476309 P
H04W 28/02	(54) DISCONTINUOUS RECEPTION	(32) 24.03.2017
H04L 27/26	PROCESSING METHOD, AND	(33) United States of America
(11) EP3685614	TERMINAL DEVICE	(51) H04L 7/00
(21) EP18765929.7	(73) GUANGDONG OPPO MOBILE	H04L 12/28
(47) 01.11.2023	TELECOMMUNICATIONS CORP., LTD.	H04L 47/10
(87) EP2018075045	(72) SHI, Cong	H04L 49/10
21.03.2019	(51) H04L 5/00	(11) EP4057564
(22) 17.09.2018	H04W 72/04	(21) EP20899811.2
(54) RELIABLE & LOW-LATENCY	H04L 27/26	(47) 01.11.2023
TRANSMISSION OF DATA VIA A VOICE	H04W 56/00	(87) JP2020022691
CHANNEL IN A COMMUNICATION	(11) EP4033839	17.06.2021
NETWORK	(21) EP20866310.4	(22) 09.06.2020
(73) Fraunhofer-Gesellschaft zur Förderung	(47) 01.11.2023	(54) RELAY DEVICE AND
der angewandten Forschung e.V.	(87) KR2020012711	COMMUNICATION SYSTEM
(72) PIECHOTTA, Tom	25.03.2021	(73) MITSUBISHI ELECTRIC
MAHLER, Kim	(22) 21.09.2020	CORPORATION
(31) 17191609	(54) METHOD FOR TRANSMITTING AND	(72) NAKAYASU, Toshiyuki
(32) 18.09.2017	RECEIVING SIGNAL IN WIRELESS	TANIGUCHI, Sachiko
(33) European Patent Office (EPO)	COMMUNICATION SYSTEM, AND	KAWATE, Ryusuke
(51) H04L 5/00	APPARATUS FOR SUPPORTING SAME	(31) 2019224503
H04W 16/14	(73) LG Electronics Inc.	(32) 12.12.2019
H04W 72/1268	(72) YOON, Sukhyon	(33) Japan
H04W 74/08	KO, Hyunsoo	(51) H04L 7/033
(11) EP3791516	KIM, Byoungsoon	H04L 25/03
(21) EP19725578.9	AHN, Joonkui	H04L 7/00
(47) 01.11.2023	(31) 20190147400	(11) EP3331193
(87) US2019031441	20190147105	(21) EP18152216.0

(47) 01.11.2023	Lasota, Mikolaj	CLEMENT, Valérie
(22) 21.11.2014	Jachura, Michal	(31) 1859146
(54) PHASE ADJUSTMENT CIRCUIT FOR CLOCK AND DATA RECOVERY CIRCUIT	Banaszek, Konrad	(32) 02.10.2018
(73) Intel Corporation	(51) H04L 9/08	(33) France
(72) Giaconi, Stefano	H04L 9/32	(51) H04L 9/40
Xu, Mingming	G06Q 20/36	G06F 21/50
(31) 201314142606	G07F 7/10	(11) EP4078413
(32) 27.12.2013	(11) EP4123960	(21) EP20829433.0
(33) United States of America	(21) EP22185607.3	(47) 01.11.2023
(51) H04L 9/00	(47) 01.11.2023	(87) US2020062797
H04L 9/08	(22) 19.07.2022	24.06.2021
H04L 9/32	(54) METHOD AND DEVICE FOR	(22) 02.12.2020
G06F 21/60	PROVIDING A DIGITAL USER SECRET	(54) INCREASING DATA AVAILABILITY
(11) EP3966988	ALLOCATED TO A PROTECTED DATA	(73) Forescout Technologies, Inc.
(21) EP20838825.6	OBJECT	(72) RAGHURAMU, Arun
(47) 01.11.2023	(73) Bundesdruckerei GmbH	DAS, Aweek Kumar
(87) US2020064806	(72) Moschny, Dr. Torsten	ZHANG, Yang
12.08.2021	Weiß, Niklas	(31) 201916723799
(22) 14.12.2020	(31) 102021118721	(32) 20.12.2019
(54) GENERATING SEQUENCES OF NETWORK DATA WHILE PREVENTING ACQUISITION OR MANIPULATION OF TIME DATA	(32) 20.07.2021	(33) United States of America
(73) Google LLC	(33) Germany	(51) H04L 9/40
(72) WANG, Gang	(51) H04L 9/40	G06F 21/55
YUNG, Marcel, M. Moti	(11) EP4024756	(11) EP3603005
(31) 27252120	(21) EP21208277.0	(21) EP18716433.0
(32) 06.02.2020	(47) 01.11.2023	(47) 01.11.2023
(33) Israel	(22) 29.05.2014	(87) US2018023194
(51) H04L 9/00	(54) CONTROLLING NETWORK ACCESS	27.09.2018
H04L 9/08	BASED ON APPLICATION DETECTION	(22) 19.03.2018
H04L 9/32	(73) IBOSS, Inc.	(54) SYSTEMS AND METHODS FOR
H04L 9/40	(72) MARTINI, Paul Michael	ENFORCING DYNAMIC NETWORK
(11) EP3639465	(31) 201313906252	SECURITY POLICIES
(21) EP18728662.0	(32) 30.05.2013	(73) CA, Inc.
(47) 01.11.2023	(33) United States of America	(72) LI, Qing
(87) EP2018065302	(51) H04L 9/40	CHEN, Joseph
20.12.2018	(11) EP3804271	UMLAND, Torrey
(22) 11.06.2018	(21) EP19737624.7	CHEN, Min Hao
(54) IMPROVED HARDWARE SECURITY MODULE MANAGEMENT	(47) 01.11.2023	(31) 201715465636
(73) British Telecommunications public limited company	(87) US2019037600	(32) 22.03.2017
(72) DANIEL, Joshua	16.01.2020	(33) United States of America
(31) 17175392	(22) 18.06.2019	(51) H04L 9/40
(32) 12.06.2017	(54) HYBRID UNSUPERVISED MACHINE	G06F 21/55
(33) European Patent Office (EPO)	LEARNING FRAMEWORK FOR	B60R 16/02
(51) H04L 9/08	INDUSTRIAL CONTROL SYSTEM	B60R 16/023
H04B 10/70	INTRUSION DETECTION	H04L 12/12
H04B 10/11	(73) Siemens Aktiengesellschaft	H04L 12/40
H04B 10/516	RUTGERS UNIVERSITY	(11) EP4064614
(11) EP4123958	(72) PI, Jiaxing	(21) EP22173800.8
(21) EP21461569.2	WEI, Dong	(47) 01.11.2023
(47) 01.11.2023	PFLEGER DE AGUIAR, Leandro	(22) 17.11.2015
(22) 22.07.2021	WANG, Honggang	(54) IRREGULARITY DETECTION RULE
(54) METHOD FOR COHERENT OPTICAL COMMUNICATIONS FOR THE TRANSMISSION OF INFORMATION AND FOR THE DISTRIBUTION OF A CRYPTOGRAPHIC KEY AND A SYSTEM FOR IMPLEMENTING THE METHOD	ZONOUZ, Saman	UPDATE FOR AN ON-BOARD NETWORK
(73) Uniwersytet Warszawski	(31) 201862695873 P	(73) Panasonic Intellectual Property Corporation of America
Uniwersytet Mikolaja Kopernika W Toruniu	(32) 10.07.2018	(72) UJIIE, Yoshihiro
(72) Kolenderski, Piotr	(33) United States of America	MATSUSHIMA, Hideki
	(51) H04L 9/40	HAGA, Tomoyuki
	G06F 21/36	UNAGAMI, Yuji
	H04L 9/32	KISHIKAWA, Takeshi
	H04W 12/06	(31) 2015214740
	(11) EP3633530	201562105363 P
	(21) EP19200037.0	(32) 30.10.2015
	(47) 01.11.2023	20.01.2015
	(22) 27.09.2019	(33) Japan
	(54) USER AUTHENTICATION METHOD WITH A USER IDENTIFIER AND AN ASSOCIATED GRAPHICAL PASSWORD	United States of America
	(73) BULL SAS	(51) H04L 9/40
	(72) GUIONNEAU, Christophe	H04L 9/00
		H04L 9/32

H04L 41/082	(54) METHODS OF BIDIRECTIONAL	(54) METHODS, SYSTEM AND
H04L 65/40	PACKET EXCHANGE OVER NODAL	COMMUNICATION DEVICES RELATED
(11) EP3528431	PATHWAYS	TO LAWFUL INTERCEPTION
(21) EP17860932.7	(73) Network Next, Inc.	(73) Telefonaktiebolaget LM Ericsson (publ)
(47) 01.11.2023	(72) FIELDER, Glenn	(72) GAITO, Daniele
(87) CN2017104189	(31) 201715656454	COSTABILE, Raffaele
19.04.2018	201762524705 P	BARBA, Gaetano
(22) 29.09.2017	201762503808 P	<hr/>
(54) PAXOS PROTOCOL-BASED	(32) 21.07.2017	(51) H04L 9/40
METHODS AND APPARATUSES FOR	26.06.2017	H04L 61/45
ONLINE CAPACITY EXPANSION	09.05.2017	(11) EP3767919
OF DISTRIBUTED CONSISTENCY	(33) United States of America	(21) EP20195144.9
SYSTEM	United States of America	(47) 01.11.2023
(73) Alibaba Group Holding Limited	United States of America	(22) 01.03.2018
(72) ZHU, Yunfeng	<hr/>	(54) GTLD DOMAIN NAME REGISTRIES
TAO, Yunfeng	(51) H04L 9/40	RDAP ARCHITECTURE
LU, Yijun	H04L 9/32	(73) Verisign, Inc.
(31) 201610888948	G06F 21/31	(72) KALISKI, Burton S.
(32) 11.10.2016	(11) EP3785410	SHETH, Swapneel
(33) China	(21) EP19711797.1	HOLLENBECK, Scott
<hr/>	(47) 01.11.2023	FREGELY, Andrew
(51) H04L 9/40	(87) US2019020981	(31) 201715452997
H04L 9/06	24.10.2019	(32) 08.03.2017
H04W 12/12	(22) 06.03.2019	(33) United States of America
G06F 21/12	(54) VALIDATION OF SHORT	<hr/>
G06F 21/44	AUTHENTICATION DATA WITH A ZERO	(51) H04L 9/40
H04L 9/08	KNOWLEDGE PROOF	H04L 67/10
H04L 9/32	(73) Microsoft Technology Licensing, LLC	G06F 9/44
H04W 4/40	(72) ACAR, Tolga	G06F 15/16
(11) EP3883208	PEARSON, Malcolm Erik	G06F 15/173
(21) EP21162685.8	(31) 201815959189	H04W 12/02
(47) 01.11.2023	(32) 21.04.2018	G06F 21/62
(22) 15.03.2021	(33) United States of America	G06Q 20/38
(54) VALIDATION OF SOFTWARE	<hr/>	(11) EP3519952
RESIDING ON REMOTE COMPUTING	(51) H04L 9/40	(21) EP17857558.5
DEVICES	H04L 9/32	(47) 01.11.2023
(73) INTEGRITY SECURITY SERVICES LLC	G06F 21/57	(87) US2017054506
(72) LATTIN, William	G06F 21/12	05.04.2018
UPTON, Jimmy	G06F 21/44	(22) 29.09.2017
(31) 202016820163	G06F 21/60	(54) DE-IDENTIFYING DISTRIBUTED
(32) 16.03.2020	G06F 21/74	BRIDGING NETWORK PLATFORM
(33) United States of America	H04L 9/08	(73) LifeQ Global Limited
<hr/>	G06F 21/53	(72) OLIVIER, Laurence
(51) H04L 9/40	(11) EP3861470	CONRADIE, Riaan
H04L 9/08	(21) EP19779294.8	PAUL, Franc
(11) EP3871361	(47) 01.11.2023	(31) 201662402424 P
(21) EP19884299.9	(87) US2019051219	(32) 30.09.2016
(47) 01.11.2023	09.04.2020	(33) United States of America
(87) CN2019117878	(22) 16.09.2019	<hr/>
22.05.2020	(54) ENCLAVE FORK SUPPORT	(51) H04L 9/40
(22) 13.11.2019	(73) Google LLC	H04L 67/56
(54) REKEYING A SECURITY	(72) MOYER, Keith	(11) EP4035337
ASSOCIATION SA	SAVAGAONKAR, Uday	(21) EP20737320.0
(73) Huawei Technologies Co., Ltd.	CAI, Chong	(47) 01.11.2023
(72) KAMPATI, Sandeep	GINGELL, Matthew	(87) US2020038267
SHENG, De	SAPEK, Anna	01.04.2021
POTHULA, Dharmanandana Reddy	(31) 201816153039	(22) 18.06.2020
MEDURI, Bharath Soma Satya	(32) 05.10.2018	(54) CALLS TO WEB SERVICES VIA
(31) 201831042965	(33) United States of America	SERVICE PROXY
(32) 15.11.2018	<hr/>	(73) Microsoft Technology Licensing, LLC
(33) India	(51) H04L 9/40	(72) MA, Jin
<hr/>	H04L 41/0806	GRAY, Linda Chen
(51) H04L 9/40	H04W 12/80	MCINTYRE, Betsy
H04L 9/32	H04L 67/00	CHEN, Jun
(11) EP3622699	H04W 4/50	CATRINESCU, Elena
(21) EP18797606.3	(11) EP4169219	(31) 201916583026
(47) 01.11.2023	(21) EP20733958.1	(32) 25.09.2019
(87) US2018031641	(47) 01.11.2023	(33) United States of America
15.11.2018	(87) EP2020066929	<hr/>
(22) 08.05.2018	23.12.2021	(51) H04L 9/40
	(22) 18.06.2020	H04L 69/18
		H04L 69/40



(11) EP3857853	(31) 202010872748	201962817813 P
(21) EP19866447.6	(32) 26.08.2020	(32) 10.04.2019
(47) 01.11.2023	(33) China	13.03.2019
(87) US2019053533	(51) H04L 9/40	(33) United States of America
02.04.2020	H04W 12/77	United States of America
(22) 27.09.2019	(11) EP3729781	(51) H04L 12/14
(54) SYSTEM AND METHODS FOR	(21) EP19716254.8	H04L 43/0876
AUTOMATED COMPUTER SECURITY	(47) 01.11.2023	H04W 4/24
POLICY GENERATION AND ANOMALY	(87) US2019012571	H04M 15/00
DETECTION	25.07.2019	G06F 9/455
(73) OPSWAT Inc.	(22) 07.01.2019	(11) EP3873076
(72) ANDREU, Andres De Jesus	(54) SECURE LOGIN WITH	(21) EP21159149.0
(31) 201862737337 P	AUTHENTICATION BASED ON A	(47) 01.11.2023
(32) 27.09.2018	VISUAL REPRESENTATION OF DATA	(22) 25.02.2021
(33) United States of America	(73) Apple Inc.	(54) METHOD, APPARATUS AN
(51) H04L 9/40	(72) ARROYO, Vincent P.	COMPUTER PROGRAM FOR
H04W 12/0431	STORY, Hannah S.	EXECUTING VIRTUALIZED NETWORK
H04W 12/047	CALVO, Ramiro	FUNCTION
H04L 41/0806	GUNTHER, Max M.	(73) Samsung Electronics Co., Ltd.
H04L 67/00	VIKINGSTAD, Onar	(72) PARK, Seonjun
H04L 41/084	YANG, Lin	SEO, Youngsun
H04L 9/08	(31) 201862620422 P	CHUN, Byonggon
(11) EP3793164	(32) 22.01.2018	HA, Jihun
(21) EP20194202.6	(33) United States of America	(31) 20200023847
(47) 01.11.2023	(51) H04L 12/10	(32) 26.02.2020
(22) 02.09.2020	E06B 9/24	(33) Korea (Republic)
(54) CONFIGURING A REMOTE	H01R 24/64	(51) H04L 12/28
ELECTRONIC DEVICE BY A	H04L 12/28	(11) EP3655839
PEER ELECTRONIC DEVICE IN A	H04L 12/403	(21) EP18834496.4
NETWORKED ENVIRONMENT	G05B 15/02	(47) 01.11.2023
(73) Hand Held Products, Inc.	(11) EP3685548	(87) CN2018091302
(72) LI, Chen	(21) EP18858369.4	24.01.2019
ZHANG, Leon	(47) 01.11.2023	(22) 14.06.2018
(31) 201916665769	(87) US2018050399	(54) COMPUTER-BASED PLATFORM FOR
PCT/CN2019/105426	28.03.2019	QUALITY MANAGEMENT OF HOME
(32) 28.10.2019	(22) 11.09.2018	DEVICES, INCLUDING KNOWLEDGE
11.09.2019	(54) SYSTEM INCLUDING A ROUTER,	EXTRACTION
(33) United States of America	CONTROLLERS AND NON-LIGHT-	(73) Midea Group Co., Ltd.
World Intellectual Property Office (WIPO)	EMITTING VARIABLE TRANSMISSION	(72) WANG, Dongyan
(51) H04L 9/40	DEVICES AND A METHOD OF USING	(31) 201715655159
H04W 12/30	THE SAME	201715652190
G06F 21/10	(73) Sage Electrochromics, Inc.	(32) 20.07.2017
G06F 8/61	(72) GREER, Bryan D.	17.07.2017
(11) EP3897017	LIEBL, Troy	(33) United States of America
(21) EP20170175.2	BUSZMANN, David	United States of America
(47) 01.11.2023	(31) 201762561990 P	(51) H04L 12/40
(22) 17.04.2020	(32) 22.09.2017	(11) EP3817301
(54) A PROVISIONING CONTROL	(33) United States of America	(21) EP20823716.4
APPARATUS, SYSTEM AND METHOD	(51) H04L 12/10	(47) 01.11.2023
(73) Secure Thingz Limited	H04L 12/40	(87) CN2020116253
(72) SPITZ, Stephan	G01R 31/52	25.03.2021
POVEY, Haydn	G01R 31/54	(22) 18.09.2020
WOODRUFF, Tim	(11) EP3939203	(54) METHOD AND APPARATUS FOR
FRAME, Andrew	(21) EP20714427.0	ESTABLISHING COMMUNICATION
BOTT, Andrew	(47) 01.11.2023	BETWEEN AUTOMOBILE DIAGNOSTIC
(51) H04L 9/40	(87) US2020020359	DEVICE AND VEHICLE, AND
H04W 12/50	17.09.2020	AUTOMOBILE COMMUNICATION
(11) EP3972293	(22) 28.02.2020	INTERFACE DEVICE
(21) EP21181424.9	(54) MULTIPLE PHASE PULSE POWER	(73) Autel Intelligent Technology Corp. Ltd.
(47) 01.11.2023	IN A NETWORK COMMUNICATIONS	(72) JIANG, Chu
(22) 24.06.2021	SYSTEM	QU, Songsong
(54) BLUETOOTH DEVICE CONNECTION	(73) Cisco Technology, Inc.	(31) 201910893693
METHODS AND BLUETOOTH DEVICES	(72) O'BRIEN, Richard Anthony	(32) 20.09.2019
(73) Alipay (Hangzhou) Information	ARDUINI, Douglas Paul	(33) China
Technology Co., Ltd.	BAEK, Sung Kee	(51) H04L 12/40
(72) HUANG, Lin	LI, Ruqi	(11) EP4193575
YAN, Dingliang	GOERGEN, Joel Richard	(21) EP21785843.0
JIAN, Yunding	(31) 201916380954	(47) 01.11.2023

(87) EP2021076584 07.04.2022	F24F 11/56 H04Q 9/14	(87) US2018015133 13.09.2018
(22) 28.09.2021	(11) EP3860065	(22) 25.01.2018
(54) METHOD FOR COMMUNICATION BETWEEN A FIRST PASSIVE SUBSCRIBER AND A SECOND PASSIVE SUBSCRIBER OF A BUS SYSTEM	(21) EP19864560.8 (47) 01.11.2023 (87) JP2019034744 02.04.2020 (22) 04.09.2019	(54) METHODS AND APPARATUS FOR COMMUNICATION OVER AN ISOLATION BARRIER WITH MONITORING
(73) Beckhoff Automation GmbH	(54) DETECTION DEVICE	(73) Allegro MicroSystems, LLC
(72) KAULMANN, Tim VONNAHME, Erik	(73) Toshiba Carrier Corporation (72) NAKAJO, Takashi	(72) MILESI, Alejandro, Gabriel STUARTS, Guillermo SALAYA, Juan, Guido
(31) 102020125391 (32) 29.09.2020 (33) Germany	ABE, Masato KOMAZAKI, Nariya (31) 2018179753	(31) 201715453034 (32) 08.03.2017 (33) United States of America
(51) H04L 12/407	(32) 26.09.2018	(51) H04L 27/26
H04L 41/00	(33) Japan	(11) EP3504856
H04L 43/04	(51) H04L 25/02	(21) EP17850246.4
H04L 43/0829	H04L 25/03	(47) 01.11.2023
H04L 43/0852	H04B 3/04	(87) CN2017101346
H04L 43/0888	H04B 3/466	22.03.2018
H04L 41/046	H04B 3/48	(22) 12.09.2017
H04L 41/0826	H04B 3/14	(54) NON-ORTHOGONAL MULTIPLE ACCESS TRANSMISSION
H04L 41/083	F24F 11/49	(73) Huawei Technologies Co., Ltd.
H04L 41/0853	(11) EP3873044	(72) WU, Yiqun
H04L 43/0817	(21) EP20814523.5	BAYESTEH, Alireza
H04L 43/087	(47) 01.11.2023	CHEN, Yan
H04L 43/0882	(87) CN2020090430	MA, Jianglei
H04L 43/10	03.12.2020	(31) 201715701035
H04L 43/16	(22) 15.05.2020	201662407999 P
H04L 41/0681	(54) METHOD AND DEVICE FOR CONTROLLING COMMUNICATION	201662394454 P
H04L 67/00	COMPENSATION, AND AIR CONDITIONER	(32) 11.09.2017
H04L 41/22	(73) Qingdao Haier Air-Conditioning Electronic Co., Ltd	13.10.2016
H04L 41/12	Haier Smart Home Co., Ltd.	14.09.2016
(11) EP2873193	(72) CHENG, Shaojiang	(33) United States of America United States of America United States of America
(21) EP12773454.9	GUO, Defang	(51) H04L 27/26
(47) 01.11.2023	SHI, Bin	H03G 3/30
(87) US2012057152	ZHUO, Baitian	H04L 5/00
16.01.2014	ZHANG, Ruigang	H04L 27/38
(22) 25.09.2012	(31) 201910471255	(11) EP3857806
(54) METHOD AND SYSTEM FOR USING A DOWNLOADABLE AGENT FOR A COMMUNICATION SYSTEM, DEVICE, OR LINK	(32) 31.05.2019	(21) EP19878362.3
(73) Adaptive Spectrum and Signal Alignment, Inc.	(33) China	(47) 01.11.2023
(72) DAGUM, Leonardo	(51) H04L 25/03	(87) KR2019014826
BEDNARZ, Philip	H04L 5/14	07.05.2020
GOLDBURG, Marc	H04B 1/525	(22) 04.11.2019
TEHRANI, Ardavan Maleki	H04L 27/36	(54) METHOD AND APPARATUS FOR AUTOMATIC GAIN CONTROL IN VEHICLE-TO-EVERYTHING SYSTEM
RHEE, Wonjong	(11) EP3866422	(73) Samsung Electronics Co., Ltd.
(31) 201261671672 P	(21) EP18939749.0	(72) SHIN, Cheolkyu
(32) 13.07.2012	(47) 01.11.2023	YEO, Jeongho
(33) United States of America	(87) CN2018114640	RYU, Hyunseok
(51) H04L 12/46	14.05.2020	OH, Jinyoung
(11) EP4032230	(22) 08.11.2018	(31) 20190099607
(21) EP19773784.4	(54) METHOD, DEVICE AND SYSTEM FOR INTERFERENCE ELIMINATION	20180133629
(47) 01.11.2023	(73) Huawei Technologies Co., Ltd.	(32) 14.08.2019
(87) EP2019075156	(72) CAI, Meng	02.11.2018
25.03.2021	LI, Kun	(33) Korea (Republic) Korea (Republic)
(22) 19.09.2019	MA, Jiantao	(51) H04L 27/26
(54) VIRTUAL DATA SESSION	CAO, Ping	H04L 5/00
(73) TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)	JIANG, Hongli	H04W 72/00
(72) POSCHER, Jens	(51) H04L 25/08	(11) EP3657719
DETKE, Ralph	H04L 25/49	(21) EP18835763.6
EICHINGER, Stefan	H04L 25/02	(47) 01.11.2023
TERCERO, Pedro	(11) EP3593506	(87) KR2018008304
(51) H04L 25/02	(21) EP18706886.1	
	(47) 01.11.2023	

24.01.2019	(73) Huawei Technologies Co., Ltd.	ANALYZE-DECIDE-RESPOND FRAMEWORK
(22) 23.07.2018	(72) ZHOU, Yan	(73) Tata Consultancy Services Limited
(54) METHOD FOR MULTIPLEXING BETWEEN REFERENCE SIGNALS IN WIRELESS COMMUNICATION SYSTEM, AND APPARATUS FOR SAME	XU, Ruiyue	(72) RATH, HEMANT KUMAR
(73) LG Electronics Inc.	(51) H04L 41/0893	NADAF, Shameemraj M.
(72) KANG, Jiwon	H04L 45/50	PANIGRAHI, BIGHNARAJ
KIM, Hyungtae	H04L 45/02	KARJEE, JYOTIRM
PARK, Haewook	H04L 45/00	SHAILENDRA, Samar
LEE, Kilbom	(11) EP3767886	BHATTACHARYYA, Abhijan
CHA, Hyunsu	(21) EP20177842.0	MISHRA, Garima
(31) 201762535244 P	(47) 01.11.2023	PAL, Arpan
(32) 21.07.2017	(22) 02.06.2020	PURUSHOTHAMAN, BALAMURALIDHAR
(33) United States of America	(54) CLUSTER ORIENTED DYNAMIC ROUTING	(31) 201821034028
(51) H04L 27/26	(73) Nokia Solutions and Networks Oy	(32) 10.09.2018
H04W 74/08	(72) ERMAN, Bilgehan	(33) India
(11) EP3850806	BASTUG, Ejder	(51) H04L 43/50
(21) EP19779595.8	CILLI, Bruce	H04W 24/06
(47) 01.11.2023	SHARMA, Sameerkumar	H04W 24/08
(87) IB2019057476	(31) 201916515232	H04W 4/90
19.03.2020	(32) 18.07.2019	H04W 4/14
(22) 05.09.2019	(33) United States of America	H04W 4/40
(54) MULTI-PROTOCOL FRAME FORMAT	(51) H04L 41/14	G08B 25/01
(73) Marvell Asia Pte, Ltd.	H04L 43/04	G08B 25/08
(72) CAO, Rui	H04L 43/106	G08G 1/09
ZHANG, Hongyuan	H04L 43/12	G07C 5/00
SHARMA, Prashant	(11) EP3767882	G01S 19/00
(31) 201962823507 P	(21) EP19186622.7	H04W 4/02
201862730959 P	(47) 01.11.2023	(11) EP3065447
(32) 25.03.2019	(22) 16.07.2019	(21) EP15157186.6
13.09.2018	(54) NETWORK TRAFFIC MONITORING DEVICE	(47) 01.11.2023
(33) United States of America	(73) Profitap HQ B.V.	(22) 02.03.2015
United States of America	(72) Schirck, Laurent	(54) METHOD AND TEST DEVICE FOR TESTING AN AUTOMOTIVE TELEMATICS DEVICE OF A MOBILE RADIO-BASED AUTOMOTIVE EMERGENCY CALL SYSTEM
(51) H04L 41/069	(51) H04L 41/5003	(73) Rohde & Schwarz GmbH & Co. KG
G06F 11/30	H04L 41/5041	(72) Roesner, Thomas
(11) EP3896908	H04L 41/40	Hof, Christian
(21) EP21156536.1	H04L 47/78	(51) H04L 45/00
(47) 01.11.2023	H04L 41/142	H04L 45/02
(22) 11.02.2021	H04L 41/342	H04L 45/50
(54) EVENT STREAM PROCESSING SYSTEM, EVENT STREAM PROCESSING METHOD, EVENT STREAM PROCESSING PROGRAM	H04W 28/24	H04L 45/74
(73) FUJITSU LIMITED	H04L 41/5025	H04L 12/46
(72) Michaelis, Julius	(11) EP3843337	(11) EP3402141
Kanemasa, Yasuhiko	(21) EP19864994.9	(21) EP16887534.2
(31) 2020072691	(47) 01.11.2023	(47) 01.11.2023
(32) 15.04.2020	(87) CN2019105204	(87) CN2016091576
(33) Japan	02.04.2020	03.08.2017
(51) H04L 41/0806	(22) 10.09.2019	(22) 25.07.2016
H04L 41/5041	(54) SLICE INFORMATION PROCESSING METHOD AND APPARATUS	(54) VIRTUAL PRIVATE NETWORK (VPN) SERVICE OPTIMIZATION METHOD AND DEVICE
H04W 48/18	(73) HUAWEI TECHNOLOGIES CO., LTD.	(73) Huawei Technologies Co., Ltd.
H04L 41/0895	(72) XIN, Yang	(72) ZHUANG, Shunwan
H04L 41/40	WU, Xiaobo	XU, Haijun
H04L 43/08	CHONG, Weiwei	WANG, Haibo
H04W 24/04	ZHU, Fangyuan	LI, Zhenbin
H04L 45/302	MARQUEZAN, Clarissa	CHE, Jia
H04W 88/18	(31) 201811142739	CHEN, Shuanglong
(11) EP3512233	(32) 28.09.2018	(31) 201610064284
(21) EP16917329.1	(33) China	(32) 29.01.2016
(47) 01.11.2023	(51) H04L 43/028	(33) China
(87) CN2016101211	H04L 43/08	(51) H04L 45/02
05.04.2018	(11) EP3621244	H04L 45/28
(22) 30.09.2016	(21) EP19196419.6	H04L 45/42
(54) METHOD FOR MANAGING NETWORK SLICE AND MANAGEMENT UNIT	(47) 01.11.2023	H04L 45/48
	(22) 10.09.2019	
	(54) SYSTEM AND METHOD FOR ENABLING INTELLIGENT NETWORK SERVICES BY COGNITIVE SENSE-	

H04L 45/488	HU, Nongda	(87) US2018039206
H04L 45/03	WANG, Chuang	28.03.2019
H04L 45/033	CHEN, Zhe	(22) 25.06.2018
(11) EP3923525	LIU, Bingyang	(54) VIRTUALIZING DCB SETTINGS FOR
(21) EP21183261.3	(31) 201710829090	VIRTUAL NETWORK ADAPTERS
(47) 01.11.2023	(32) 14.09.2017	(73) Microsoft Technology Licensing, LLC
(22) 13.02.2016	(33) China	(72) TO, Khoa, Anh
(54) AUTOMATIC OPTIMAL ROUTE	(51) H04L 45/28	CARDONA, Omar
REFLECTOR ROOT ADDRESS	H04L 45/00	FIRESTONE, Daniel
ASSIGNMENT TO ROUTE REFLECTOR	H04L 69/40	DABAGH, Alireza
CLIENTS AND FAST FAILOVER IN A	H04L 47/726	(31) 201715711733
NETWORK ENVIRONMENT	(11) EP4211883	(32) 21.09.2017
(73) Cisco Technology, Inc.	(21) EP21778683.9	(33) United States of America
(72) PATEL, Keyur	(47) 01.11.2023	(51) H04L 51/214
BAYRAKTAR, Serpil	(87) US2021049254	H04L 51/58
BHARDWAJ, Manish	17.03.2022	H04L 51/222
WARD, David D.	(22) 07.09.2021	(11) EP3952229
PITHAWALA, Burjiz	(54) SEGMENT ROUTING TRAFFIC	(21) EP20861913.0
(31) 201514809017	ENGINEERING (SR-TE) WITH	(47) 01.11.2023
201562119115 P	AWARENESS OF LOCAL PROTECTION	(87) CN2020113081
201562119114 P	(73) Ciena Corporation	11.03.2021
201562119113 P	(72) SIVABALAN, Muthurajah	(22) 02.09.2020
201562119048 P	BOUROS, Sami	(54) METHOD FOR SENDING RCS
201562119044 P	ALAETTINOGLU, Cengiz	SERVICE MESSAGE, DEVICE, CLIENT,
(32) 24.07.2015	(31) 202017017805	AND SERVER
21.02.2015	(32) 11.09.2020	(73) ZTE Corporation
21.02.2015	(33) United States of America	(72) WANG, Guocai
21.02.2015	(51) H04L 47/27	LIU, Weizhao
20.02.2015	H04L 47/28	(31) 201910823551
20.02.2015	H04W 56/00	(32) 02.09.2019
(33) United States of America	(11) EP3920491	(33) China
United States of America	(21) EP19912772.1	(51) H04L 51/224
United States of America	(47) 01.11.2023	H04W 4/12
United States of America	(87) CN2019074316	H04W 12/06
United States of America	06.08.2020	H04W 48/12
United States of America	(22) 01.02.2019	H04W 48/16
(51) H04L 45/02	(54) SERVICE PROCESSING METHOD,	H04W 48/18
H04L 45/302	DEVICE AND COMPUTER READABLE	H04W 84/12
(11) EP4020926	STORAGE MEDIUM	H04W 88/06
(21) EP21213716.0	(73) GUANGDONG OPPO MOBILE	(11) EP4021026
(47) 01.11.2023	TELECOMMUNICATIONS CORP., LTD.	(21) EP20864490.6
(22) 10.12.2021	(72) LIU, Jianhua	(47) 01.11.2023
(54) ROUTING METHOD FOR ROUTING	XU, Yang	(87) CN2020111422
AN ELASTIC FLOW IN A TRANSPORT	(51) H04L 47/41	25.03.2021
NETWORK	H04L 47/283	(22) 26.08.2020
(73) THALES	(11) EP3725049	(54) NOTIFICATION MESSAGE CONTROL
(72) MONTENOT, Jean-Marc	(21) EP17823062.9	METHOD AND RELATED APPARATUS
ROLLET, Olivier	(47) 01.11.2023	(73) GUANGDONG OPPO MOBILE
DELATTRE, Michel	(87) EP2017082279	TELECOMMUNICATIONS CORP., LTD.
(31) 2013990	20.06.2019	(72) LI, Xiong
(32) 23.12.2020	(22) 11.12.2017	(31) 201910876633
(33) France	(54) TRANSMISSION METHOD AND	(32) 17.09.2019
(51) H04L 45/02	APPARATUS	(33) China
H04L 45/48	(73) Nokia Solutions and Networks Oy	(51) H04L 61/4511
H04L 45/00	(72) KUCERA, Stepan	H04L 67/1001
H04L 45/03	CHIARIOTTI, Federico	(11) EP3805938
(11) EP3672168	ZANELLA, Andrea	(21) EP18931842.1
(21) EP18855730.0	(51) H04L 47/70	(47) 01.11.2023
(47) 01.11.2023	H04L 47/50	(87) CN2018102804
(87) CN2018105326	H04L 47/20	05.03.2020
21.03.2019	H04L 47/80	(22) 28.08.2018
(22) 12.09.2018	H04L 41/0806	(54) SERVER NODE SELECTION METHOD
(54) LINK STATE ADVERTISEMENT (LSA)	H04L 41/0894	AND TERMINAL DEVICE
TRANSMISSION METHOD, DEVICE,	H04L 41/0895	(73) Petal Cloud Technology Co., Ltd.
AND SYSTEM	H04L 12/46	(72) CHEN, Zhongxian
(73) Huawei Technologies Co., Ltd.	(11) EP3685553	LIU, Lianxi
(72) ZHENG, Xiuli	(21) EP18740719.2	JIANG, Bo
XU, Xiaohu	(47) 01.11.2023	(51) H04L 65/1016

H04L 65/1053	(54) METHOD AND SYSTEM FOR	(22) 20.06.2018
H04L 65/1069	ENHANCING QUALITY OF	(54) STAGED DEPLOYMENT OF
H04L 65/1073	EXPERIENCE (QOE) OF VIDEO	RENDEZVOUS TABLES IN A CONTENT
H04L 65/1045	RECEPTION AT RECEIVER	DELIVERY NETWORK (CDN)
H04L 65/1104	(73) Tata Consultancy Services Limited	(73) Level 3 Communications, LLC
(11) EP3854045	(72) Bhattacharyya, Abhijan	(72) NEWTON, Christopher
(21) EP18800644.9	Ganguly, Madhurima	ZHU, Hong
(47) 01.11.2023	Sau, Ashis	(31) 201715727892
(87) EP2018081074	(31) 202121000293	(32) 09.10.2017
26.03.2020	(32) 04.01.2021	(33) United States of America
(22) 13.11.2018	(33) India	<hr/>
(54) A METHOD FOR ENABLING A	(51) H04L 67/025	(51) H04L 67/1097
CALLING USER EQUIPMENT, UE,	H04L 67/1004	G06F 21/41
TO RETRY A SESSION INITIATION	G06F 3/04845	G06F 21/62
PROTOCOL, SIP, CALL ATTEMPT	H04L 9/40	H04L 9/40
TO A CALLED UE, OVER A CIRCUIT	H04L 65/613	H04L 67/303
SWITCHED DOMAIN	H04L 65/70	H04L 67/1008
(73) TELEFONAKTIEBOLAGET LM	G06F 3/04812	H04L 67/1017
ERICSSON (PUBL)	(11) EP3292677	H04L 67/1019
(72) MAROTO GIL, Beatriz	(21) EP16790115.6	H04L 67/12
DEL MORAL MOYA, Juan De Dios	(47) 01.11.2023	(11) EP3863261
GAYO ARNALDO, Margarita	(87) US2016031061	(21) EP21158387.7
MERINO VAZQUEZ, Emiliano	10.11.2016	(47) 01.11.2023
SAEZ MATALLANA, Ignacio	(22) 05.05.2016	(22) 28.08.2018
(31) 18382677	(54) ULTRA-LOW LATENCY REMOTE	(54) SYSTEM AND METHOD FOR CLOUD-
(32) 20.09.2018	APPLICATION ACCESS	BASED DATA VALIDATION
(33) European Patent Office (EPO)	(73) Penguin Computing, Inc.	(73) Capital One Services, LLC
<hr/>	(72) RUGE, Thomas	(72) Kunjaraman Pillai, Anoop
(51) H04L 65/1016	(31) 201562218273 P	Lee, Jonathan
H04L 65/1069	201562157448 P	Meda, Venu Gopal Rao
H04L 65/1076	201562157451 P	Tresnak, Dan
H04L 65/1063	(32) 14.09.2015	Kommerer, Raveender
(11) EP4104402	05.05.2015	Carrillo, Michael
(21) EP20707859.3	05.05.2015	Gomide, Leonardo
(47) 01.11.2023	(33) United States of America	(31) 201715690853
(87) SE2020050138	United States of America	(32) 30.08.2017
19.08.2021	United States of America	(33) United States of America
(22) 11.02.2020	United States of America	<hr/>
(54) INTERNET PROTOCOL MULTIMEDIA	(51) H04L 67/10	(51) H04L 67/12
SUBSYSTEM NODE, SERVER	H04L 67/125	(11) EP3679708
NODE AND METHODS IN A	(11) EP3949343	(21) EP18789265.8
COMMUNICATIONS NETWORK	(21) EP20706420.5	(47) 01.11.2023
(73) TELEFONAKTIEBOLAGET LM	(47) 01.11.2023	(87) US2018049669
ERICSSON (PUBL)	(87) EP2020053785	14.03.2019
(72) ANULF, Andreas	08.10.2020	(22) 06.09.2018
HEGARTY, Charles	(22) 13.02.2020	(54) INTERNET OF THINGS
<hr/>	(54) CONTROLLING APPLICATIONS	CONFIGURABLE EVENT AND ACTION
(51) H04L 65/80	DISTRIBUTED BETWEEN A VEHICLE	SEQUENCING FRAMEWORK
H04L 65/752	AND A CLOUD	(73) Convida Wireless, LLC
H04L 65/756	(73) Robert Bosch GmbH	(72) LY, Quang
H04W 4/18	(72) GERALDY, Alexander	SEED, Dale, N.
H04N 21/2343	SCHWARDMANN, Jens	CHEN, Zhuo
H04N 21/238	ECKERT, Kurt	FLYNN, William, Robert
(11) EP3641273	WOLTER, Jan	MLADIN, Catalina, Mihaela
(21) EP19215564.6	BLANK, Frederik	DIGIROLAMO, Rocco
(47) 01.11.2023	WALOSSEK, Erik	LOEB, Shoshana
(22) 24.02.2017	BENAM, Behzad	LI, Hongkun
(54) EDGE NODE CONTROL	FLOESS, Karl Theo	(31) 201762554753 P
(73) Livestreaming Sweden AB	(31) 102019204940	(32) 06.09.2017
(72) Lindgren, Per	(32) 05.04.2019	(33) United States of America
Bohm, Christer	(33) Germany	<hr/>
(31) 1650254	(51) H04L 67/1023	(51) H04L 67/12
(32) 26.02.2016	H04L 61/4511	H04L 69/32
(33) Sweden	G06F 15/173	H04W 4/70
<hr/>	(11) EP3695567	(11) EP3861706
(51) H04L 65/80	(21) EP18866980.8	(21) EP19827902.8
H04N 21/20	(47) 01.11.2023	(47) 01.11.2023
(11) EP4024811	(87) US2018038461	(87) US2019063279
(21) EP21161397.1	18.04.2019	04.06.2020
(47) 01.11.2023		(22) 26.11.2019
(22) 09.03.2021		

(54) FRAMEWORK FOR DYNAMIC BROKERAGE AND MANAGEMENT OF TOPICS AND DATA AT THE SERVICE LAYER	(51) H04L 67/306 H04L 12/28 (11) EP3556082 (21) EP17826264.8 (47) 01.11.2023	(87) US2014055550 26.03.2015 (22) 15.09.2014 (54) ENABLING MOBILE APPLICATIONS TO ACQUIRE A MAC ADDRESS FOR OBTAINING LOCATION INFORMATION
(73) CONVIDA WIRELESS, LLC	(87) FR2017053490 28.06.2018	(73) Cisco Technology, Inc.
(72) MLADIN, Catalina Mihaela SEED, Dale N. LY, Quang CHEN, Zhuo FLYNN, William Robert NINGLEKHU, Jiwan L.	(22) 11.12.2017 (54) TECHNIQUE FOR CONFIGURING A SYSTEM COMPRISING AT LEAST ONE DEVICE	(72) DIENER, Neil R. GIRIMAJI, Jagdish SETHURAMAN, Rad CHANDRASEKARAN, Balachander AKIREDDY, Ravi
(31) 201862772493 P (32) 28.11.2018 (33) United States of America	(73) ORANGE (72) BOLLE, Sébastien ROUAULT, Vincent ROUBAUD, Xavier	(31) 201314028874 (32) 17.09.2013 (33) United States of America
(51) H04L 67/12 H04W 4/38 H04Q 9/00	(31) 1662750 (32) 19.12.2016 (33) France	(51) H04M 1/02 G06F 1/16 (11) EP3684034
(11) EP3921999 (21) EP20709272.7 (47) 01.11.2023 (87) FR2020050182 13.08.2020 (22) 04.02.2020	(51) H04L 67/306 H04L 67/51 H04W 48/14 (11) EP3900420 (21) EP19829393.8 (47) 01.11.2023 (87) EP2019085898 25.06.2020 (22) 18.12.2019	(21) EP19212173.9 (47) 01.11.2023 (22) 28.11.2019 (54) ELECTRONIC DEVICE AND SCREEN (73) Beijing Xiaomi Mobile Software Co., Ltd. (72) GAO, Jing HU, Shaoxing (31) 201910039764 (32) 16.01.2019 (33) China
(54) LOW CONSUMPTION HUB AND DETECTOR CONFIGURED TO COMMUNICATE WITH THIS HUB	(54) METHOD AND SYSTEM FOR RETRIEVING USER INFORMATION IN EVOLVED PACKET SYSTEM	(31) 201910039764 (32) 16.01.2019 (33) China
(73) ENGIE (72) WERLY, Julien D'AGOSTINO, Angélique RUPIN, Fabian	(73) Telecom Italia S.p.A. (72) BETTI, Alessandro CURCURI, Vito MAZZOLI, Fabio SCOGNAMIGLIO, Patricia	(51) H04M 1/02 G06F 1/16 (11) EP4044566 (21) EP20887918.9 (47) 01.11.2023 (87) CN2020125827 20.05.2021 (22) 02.11.2020 (54) TERMINAL HAVING STIFFENER (73) Huawei Technologies Co. Ltd. (72) ZHOU, Chen LI, Tongtong WANG, Daohu XU, Caiwei WANG, Yong
(31) 1901119 (32) 05.02.2019 (33) France	(31) 201800020479 (32) 20.12.2018 (33) Italy	(31) 201911114348 (32) 14.11.2019 (33) China
(51) H04L 67/131 H04L 65/1069 H04L 65/403	(51) H04L 67/55 H04L 67/12 G06V 40/16 (11) EP3780550 (21) EP18929166.9 (47) 01.11.2023 (87) CN2018120367 13.02.2020 (22) 11.12.2018	(51) H04M 1/02 H04M 1/17 (11) EP4080856 (21) EP21169555.6 (47) 01.11.2023 (22) 21.04.2021 (54) ELECTRONIC DEVICE WITH DUST MITIGATION (73) Nokia Technologies Oy (72) WRIGHT, Christopher CRONIN, Harry CATTON, Phil SCHNABEL, William
(11) EP3780534 (21) EP18915280.4 (47) 01.11.2023 (87) CN2018118479 24.10.2019 (22) 30.11.2018	(54) INFORMATION PUSHING METHOD AND DEVICE	(51) H04M 1/02 H05K 5/06 H04R 1/08 H04M 1/03 H04R 1/04 (11) EP4024833 (21) EP21753232.4 (47) 01.11.2023 (87) KR2021001640
(54) INTELLIGENT INTERACTIVE ALL-IN-ONE MACHINE AND CORRESPONDING METHOD	(73) Gree Electric Appliances, Inc. of Zhuhai (72) WANG, Zi LI, Shaobin LIANG, Bo CHEN, Yanyu MAO, Yuehui JIA, Jutao	(31) 201810910970 (32) 10.08.2018 (33) China
(73) Guangzhou Shiyuan Electronic Technology Company Limited Guangzhou Shirui Electronics Co., Ltd.	(31) 201810910970 (32) 10.08.2018 (33) China	
(72) LIU, Wei (31) 201810343348 (32) 17.04.2018 (33) China	(51) H04L 69/22 H04L 67/146 H04W 4/02 H04L 67/52 H04L 101/69 H04L 67/02	
(51) H04L 67/306 (11) EP3868076 (21) EP20722409.8 (47) 01.11.2023 (87) US2020026017 11.02.2021 (22) 31.03.2020	(11) EP3047636 (21) EP14780934.7 (47) 01.11.2023	
(54) LOW ENTROPY BROWSING HISTORY FOR CONTENT QUASI-PERSONALIZATION		
(73) Google LLC (72) WANG, Gang YUNG, Marcel M. M.		
(31) 201916535912 (32) 08.08.2019 (33) United States of America		

19.08.2021	H04M 3/58	(51) H04M 9/08
(22) 08.02.2021	H04L 12/46	(11) EP3703052
(54) ELECTRONIC DEVICE COMPRISING	(11) EP3694198	(21) EP18869573.8
MICROPHONE MODULE	(21) EP20167389.4	(47) 01.11.2023
(73) Samsung Electronics Co., Ltd.	(47) 01.11.2023	(87) CN2018095759
(72) JUN, Sungsoo	(22) 07.04.2017	02.05.2019
PARK, Changho	(54) SYSTEMS AND METHODS FOR	(22) 16.07.2018
YANG, Jaeyoung	PROVIDING A MULTI-CHANNEL	(54) ECHO CANCELLATION METHOD AND
KIM, Daekwang	COMMUNICATION SERVICE	APPARATUS BASED ON TIME DELAY
CHUN, Sooung	(73) Vonage Business Inc.	ESTIMATION
KIM, Youngkyu	(72) NADALIN, Eric	(73) Iflytek Co., Ltd.
WEE, Jongchun	STRATFORD, Neil	(72) LI, Mingzi
CHOI, Hwanseok	SELMER, Roland	MA, Feng
CHOI, Jongchul	(31) 201615373904	WANG, Haikun
(31) 20200015484	201662321659 P	WANG, Zhiguo
(32) 10.02.2020	(32) 09.12.2016	HU, Guoping
(33) Korea (Republic)	12.04.2016	(31) 201710994195
(51) H04M 1/72454	(33) United States of America	(32) 23.10.2017
(11) EP3952264	United States of America	(33) China
(21) EP20815651.3	(51) H04M 3/56	(51) H04M 11/02
(47) 01.11.2023	G10L 21/0216	H04N 7/18
(87) CN2020092298	G10L 25/84	(11) EP3709617
03.12.2020	G10L 25/21	(21) EP20162289.1
(22) 26.05.2020	G10L 25/30	(47) 01.11.2023
(54) INFORMATION PROCESSING	(11) EP3913904	(22) 11.03.2020
METHOD AND DEVICE	(21) EP21181866.1	(54) SYSTEM FOR COMMUNICATION
(73) Petal Cloud Technology Co., Ltd.	(47) 01.11.2023	BETWEEN AN INTERPHONE AND A
(72) WEI, Quanshui	(22) 10.06.2020	SMARTPHONE
LIU, Cheng	(54) TRAINING A MODEL FOR SPEECH	(73) Amphitech
(31) 201910465722	AND NOISE ENERGY ESTIMATION	(72) MAINGRET, Xavier
(32) 30.05.2019	(73) Google LLC	(31) 1902594
(33) China	(72) Rudberg, Tore	(32) 14.03.2019
(51) H04M 1/72484	Schuldt, Christian	(33) France
H04M 19/04	(31) 201962859386 P	(51) H04M 19/04
H04M 1/72427	(32) 10.06.2019	H04M 3/38
(11) EP3890291	(33) United States of America	H04M 3/02
(21) EP20198299.8	(51) H04M 3/56	H04M 3/42
(47) 01.11.2023	H04L 12/18	(11) EP3276930
(22) 25.09.2020	H04S 3/00	(21) EP17182640.7
(54) BACKGROUND DISPLAY METHOD	(11) EP3949368	(47) 01.11.2023
AND APPARATUS DURING CALL,	(21) EP20721134.3	(22) 21.07.2017
STORAGE MEDIUM AND MOBILE	(47) 01.11.2023	(54) PROMPTING METHOD AND
TERMINAL	(87) US2020026710	APPARATUS
(73) Beijing Xiaomi Mobile Software Co., Ltd.	08.10.2020	(73) Beijing Xiaomi Mobile Software Co., Ltd.
(72) XI, Chunyan	(22) 03.04.2020	(72) TIAN, Hao
(31) 202010256399	(54) SCALABLE VOICE SCENE MEDIA	WANG, Bin
(32) 02.04.2020	SERVER	WEI, Zhaodong
(33) China	(73) Dolby Laboratories Licensing Corporation	(31) 201610608762
(51) H04M 3/22	(72) DICKINS, Glenn N.	(32) 28.07.2016
H04M 3/51	DENG, Feng	(33) China
(11) EP3737079	ECKERT, Michael	(51) H04N 1/00
(21) EP20173195.7	JOHNSTON, Craig	A61B 5/024
(47) 01.11.2023	HOLMBERG, Paul	A61B 5/1455
(22) 06.05.2020	(31) 202062991645 P	(11) EP4075776
(54) VIDEO CALL ROUTING AND	201962840857 P	(21) EP21167919.6
MANAGEMENT BASED ON ARTIFICIAL	PCT/CN2020/076047	(47) 01.11.2023
INTELLIGENCE DETERMINED FACIAL	PCT/CN2019/081317	(22) 12.04.2021
EMOTION	19186491	(54) MAPPING PULSE PROPAGATION
(73) Avaya Inc.	(32) 19.03.2020	(73) Nokia Technologies Oy
(72) CARTY, Gerard	30.04.2019	(72) WRIGHT, Christopher
MORAN, Thomas	20.02.2020	CRONIN, Harry
(31) 201916405023	03.04.2019	CATTON, Phil
(32) 07.05.2019	16.07.2019	SCHNABEL, William
(33) United States of America	(33) United States of America	(51) H04N 1/60
(51) H04M 3/42	United States of America	H04N 9/73
H04L 12/18	World Intellectual Property Office (WIPO)	G03B 7/091
H04M 3/51	World Intellectual Property Office (WIPO)	G03B 15/05
H04M 3/56	European Patent Office (EPO)	G03B 15/03

H04N 23/10	(51) H04N 13/00	02.07.2020
H04N 23/70	H04N 13/139	(22) 19.12.2019
H04N 23/75	H04N 13/271	(54) COLOR SPACE MAPPING METHOD
H04N 23/88	H04N 13/128	AND DEVICE, COMPUTER READABLE
(11) EP3522528	(11) EP3391647	STORAGE MEDIUM AND APPARATUS
(21) EP17881415.8	(21) EP15891414.3	(73) Shenzhen TCL New Technology Co., Ltd
(47) 01.11.2023	(47) 01.11.2023	(72) CHEN, Yixin
(87) KR2017014199	(87) CN2015097882	XIE, Renli
21.06.2018	22.06.2017	(31) 201811629160
(22) 06.12.2017	(22) 18.12.2015	(32) 28.12.2018
(54) IMAGE WHITE BALANCE	(54) METHOD, APPARATUS, AND NON-	(33) China
CORRECTION METHOD AND	TRANSITORY COMPUTER READABLE	(51) H04N 19/13
ELECTRONIC DEVICE	MEDIUM FOR GENERATING DEPTH	H04N 19/176
(73) Samsung Electronics Co., Ltd.	MAPS	H04N 19/61
(72) MORIYA, Tsuyoshi	(73) BOE Technology Group Co., Ltd.	H04N 19/537
(31) 2016242481	(72) ZHAO, Xingxing	H04N 19/91
(32) 14.12.2016	ZHAO, Jibo	(11) EP3843398
(33) Japan	(51) H04N 13/232	(21) EP19860657.6
(51) H04N 5/04	H04N 13/106	(47) 01.11.2023
H04N 7/18	G06T 5/00	(87) CN2019105024
(11) EP3621286	G03B 13/36	19.03.2020
(21) EP19195624.2	G03B 35/10	(22) 10.09.2019
(47) 01.11.2023	G06T 7/50	(54) VIDEO DECODING METHOD, AND
(22) 05.09.2019	H04N 13/257	VIDEO DECODER
(54) METHOD, AND APPARATUS FOR	H04N 23/67	(73) HUAWAI TECHNOLOGIES CO., LTD.
CLOCK SYNCHRONIZATION, DEVICE,	H04N 25/61	(72) CHEN, Huanbang
STORAGE MEDIUM AND VEHICLE	H04N 25/704	YANG, Haitao
(73) Apollo Intelligent Driving Technology	(11) EP3296789	(31) 201811053068
(Beijing) Co., Ltd.	(21) EP16792350.7	(32) 10.09.2018
(72) XIE, Yuanfan	(47) 01.11.2023	(33) China
ZHOU, Xun	(87) JP2016002144	(51) H04N 19/159
LI, Shirui	17.11.2016	H04N 19/129
WANG, Liang	(22) 21.04.2016	H04N 19/60
(31) 201811044823	(54) IMAGE PROCESSING DEVICE,	H04N 19/136
(32) 07.09.2018	IMAGING DEVICE, IMAGE	H04N 19/18
(33) China	PROCESSING METHOD, PROGRAM,	H04N 19/13
(51) H04N 7/15	AND STORAGE MEDIUM	H04N 19/176
H04N 23/00	(73) Canon Kabushiki Kaisha	(11) EP3731524
G06V 20/52	(72) FUKUDA, Koichi	(21) EP20178559.9
G06V 40/40	(31) 2016080328	(47) 01.11.2023
(11) EP3407248	2015095348	(22) 11.01.2013
(21) EP18168867.2	(32) 13.04.2016	(54) COEFFICIENT CODING
(47) 01.11.2023	08.05.2015	HARMONIZATION IN HEVC
(22) 24.04.2018	(33) Japan	(73) Sony Group Corporation
(54) AN APPARATUS, A METHOD AND A	Japan	(72) TABATABAI, Ali
COMPUTER PROGRAM FOR VIDEO	(51) H04N 13/344	XU, Jun
CODING AND DECODING	G02B 27/01	(31) 201213631464
(73) Nokia Technologies Oy	H04N 13/395	201261589151 P
(72) CRICRI, Francesco	(11) EP3439302	(32) 28.09.2012
TUPALA, Miiika	(21) EP18171502.0	20.01.2012
(31) 201707792	(47) 01.11.2023	(33) United States of America
(32) 16.05.2017	(22) 09.05.2018	United States of America
(33) United Kingdom	(54) METHOD AND DEVICE FOR	(51) H04N 19/52
(51) H04N 7/18	PROCESSING IMAGE	H04N 19/54
B64D 11/00	(73) Samsung Electronics Co., Ltd.	(11) EP3681161
B64D 47/08	(72) KIM, Yuntae	(21) EP19859588.6
(11) EP3716616	SUNG, Geeyoung	(47) 01.11.2023
(21) EP19216332.7	LEE, Hongseok	(87) KR2019011827
(47) 01.11.2023	(31) 20170097122	19.03.2020
(22) 13.12.2019	(32) 31.07.2017	(22) 11.09.2019
(54) APPARATUS AND METHOD FOR	(33) Korea (Republic)	(54) IMAGE DECODING AND ENCODING
PROVIDING ATTITUDE REFERENCE	(51) H04N 17/02	METHOD BY AN APPARATUS BASED
FOR VEHICLE PASSENGERS	H04N 9/64	ON MOTION PREDICTION IN SUB-
(73) B/E Aerospace, Inc.	G09G 5/06	BLOCK UNIT IN IMAGE CODING
(72) BRAUER, R. Klaus	(11) EP3905672	SYSTEM
(31) 201916369997	(21) EP19906283.7	(73) LG Electronics Inc.
(32) 29.03.2019	(47) 01.11.2023	(72) LEE, Jaeho
(33) United States of America	(87) CN2019126634	NAM, Junghak



PARK, Naeri	201962824282 P	H04N 19/117
JANG, Hyeongmoon	201962822865 P	H04N 21/845
(31) 201862730528 P	(32) 27.03.2019	(11) EP4078981
(32) 12.09.2018	26.03.2019	(21) EP21705717.3
(33) United States of America	23.03.2019	(47) 01.11.2023
(51) H04N 19/533	(33) United States of America	(87) US2021013667
H04N 19/53	United States of America	22.07.2021
H04N 19/577	United States of America	(22) 15.01.2021
H04N 19/61	(51) H04N 19/70	(54) VIDEO ENHANCEMENT SERVICE
H04N 19/176	H04N 19/593	(73) Amazon Technologies, Inc.
(11) EP3509304	(11) EP4084478	(72) MAYOL CUEVAS, Walterio Wolfgang
(21) EP16917372.1	(21) EP22180460.2	BOKHARI, Wasiq
(47) 01.11.2023	(47) 01.11.2023	VASS, William
(87) CN2016101289	(22) 02.09.2011	LOVE, Sean
05.04.2018	(54) METHOD FOR PARTITIONING BLOCK	SOOD, Garish
(22) 30.09.2016	AND DECODING DEVICE	(31) 202016746579
(54) METHOD FOR IMAGE DECODING	(73) LG Electronics, Inc.	(32) 17.01.2020
AND DEVICE FOR IMAGE CODING	(72) KIM, Jungsun	(33) United States of America
AND DECODING FOR INTER-FRAME	PARK, Seungwook	(51) H04N 21/234
PREDICTION	SUNG, Jaewon	H04N 21/81
(73) Huawei Technologies Co., Ltd.	PARK, Joonyoung	H04N 21/2347
(72) CHEN, Xu	JEON, Byeongmoon	H04N 21/266
AN, Jicheng	LIM, Jaehyun	H04N 21/472
ZHENG, Jianhua	JEON, Yongjoon	H04N 21/845
(51) H04N 19/573	CHOI, Younghee	H04N 21/8543
H04N 19/70	(31) 42360210 P	H04N 21/858
H04N 19/58	40563510 P	(11) EP4184921
H04N 19/172	40563810 P	(21) EP23151411.8
(11) EP3903477	38861210 P	(47) 01.11.2023
(21) EP19905883.5	38859210 P	(22) 20.09.2018
(47) 01.11.2023	38657910 P	(54) METHODS AND SYSTEMS FOR
(87) US2019068527	(32) 16.12.2010	DETERMINING A VIDEO PLAYER
02.07.2020	21.10.2010	PLAYBACK POSITION
(22) 26.12.2019	21.10.2010	(73) Pluto Inc.
(54) METHOD FOR SYNTAX CONTROLLED	01.10.2010	(72) SHANSON, Spencer
DECODED PICTURE BUFFER	30.09.2010	(31) 201715714931
MANAGEMENT	27.09.2010	(32) 25.09.2017
(73) Tencent America LLC	(33) United States of America	(33) United States of America
(72) CHOI, Byeongdoo	United States of America	(51) H04N 21/2343
WENGER, Stephan	United States of America	H04N 21/431
LIU, Shan	United States of America	H04N 21/4402
(31) 201916710915	United States of America	H04N 21/485
201862785067 P	United States of America	H04N 21/434
(32) 11.12.2019	(51) H04N 19/86	H04N 21/234
26.12.2018	H04N 19/34	H04N 21/236
(33) United States of America	H04N 19/82	H04N 19/89
United States of America	(11) EP3850855	(11) EP3783901
(51) H04N 19/593	(21) EP19866185.2	(21) EP20200274.7
H04N 19/159	(47) 01.11.2023	(47) 01.11.2023
H04N 19/11	(87) CN2019107409	(22) 02.09.2016
H04N 19/70	02.04.2020	(54) VIDEO TRANSMISSION METHOD,
H04N 19/13	(22) 24.09.2019	VIDEO RECEPTION METHOD, VIDEO
(11) EP3932076	(54) IMAGE PROCESSING DEVICE AND	TRANSMISSION DEVICE, AND VIDEO
(21) EP20777477.9	METHOD FOR PERFORMING QUALITY	RECEPTION DEVICE
(47) 01.11.2023	OPTIMIZED DEBLOCKING	(73) Panasonic Intellectual Property
(87) CN2020080674	(73) HUAWEI TECHNOLOGIES CO., LTD.	Management Co., Ltd.
01.10.2020	(72) KOTRA, Anand Meher	(72) TOMA, Tadamasu
(22) 23.03.2020	ESENLIK, Semih	NISHI, Takahiro
(54) AN ENCODER, A DECODER AND	WANG, Biao	IGUCHI, Noritaka
CORRESPONDING METHODS FOR	GAO, Han	(31) 2016101958
INTRA PREDICTION	ZHAO, Zhijie	201562238155 P
(73) HUAWEI TECHNOLOGIES CO., LTD.	CHEN, Jianle	(32) 20.05.2016
(72) WANG, Biao	(31) 201862735712 P	07.10.2015
ESENLIK, Semih	(32) 24.09.2018	(33) Japan
KOTRA, Anand Meher	(33) United States of America	United States of America
GAO, Han	(51) H04N 21/234	(51) H04N 21/242
CHEN, Jianle	G06T 3/40	H04N 21/43
(31) 201962824360 P	G06T 5/00	H04N 21/8547

H04N 21/218	(47) 01.11.2023	(21) EP18878084.5
H04L 7/00	(22) 24.09.2014	(47) 01.11.2023
(11) EP3593535	(54) IMAGE ENCODING METHOD, IMAGE	(87) JP2018031126
(21) EP18707138.6	DECODING METHOD, IMAGE	23.05.2019
(47) 01.11.2023	ENCODING DEVICE, AND IMAGE	(22) 23.08.2018
(87) IB2018000092	RECEIVING DEVICE	(54) IMAGING DEVICE, IMAGING METHOD,
13.09.2018	(73) Sun Patent Trust	AND IMAGING SYSTEM
(22) 15.01.2018	(72) TERADA, Kengo	(73) Sony Semiconductor Solutions
(54) SYNCHRONIZING MEDIA IN MULTIPLE	NISHI, Takahiro	Corporation
DEVICES	SASAI, Hisao	(72) HOSHINO, Kazuhiro
(73) Dish Network Technologies India Private	(31) 201361892536 P	IINUMA, Takahiro
Limited	(32) 18.10.2013	(31) 2017218999
(72) KUMAR, Amit	(33) United States of America	(32) 14.11.2017
(31) 201741008426	(51) H04N 23/45	(33) Japan
(32) 10.03.2017	H04N 23/63	(51) H04N 23/67
(33) India	H04N 23/65	H04N 23/13
(51) H04N 21/466	H04N 23/69	G02B 7/36
H04L 65/611	H04N 23/80	G03B 13/36
H04L 65/612	H04N 5/262	G02B 7/34
H04L 65/75	(11) EP3694201	(11) EP3691251
(11) EP3681168	(21) EP20156385.5	(21) EP20159040.3
(21) EP20157970.3	(47) 01.11.2023	(47) 01.11.2023
(47) 01.11.2023	(22) 10.02.2020	(22) 17.04.2015
(22) 16.09.2014	(54) SCREEN PROVIDING METHOD AND	(54) FOCUS ADJUSTMENT DEVICE,
(54) VIDEO DISPLAY DEVICE AND	ELECTRONIC DEVICE SUPPORTING	METHOD FOR CONTROLLING
METHOD OF CONTROLLING THE	SAME	THE SAME, AND IMAGE CAPTURE
DEVICE	(73) Samsung Electronics Co., Ltd.	APPARATUS
(73) LG Electronics Inc.	(72) An, Sungwook	(73) CANON KABUSHIKI KAISHA
(72) YEOM, Hyeekyeong	(31) 20190015611	(72) WATANABE, Yumi
YOO, Huisang	(32) 11.02.2019	HAMANO, Hideyuki
MOON, Kyoungsoo	(33) Korea (Republic)	(31) 2014169803
WINSTON, Steve	(51) H04N 23/50	2014094877
PARK, Jungwook	H04N 23/663	(32) 22.08.2014
LEE, Jinwon	H04N 25/61	01.05.2014
(31) 20140099955	(11) EP3531692	(33) Japan
(32) 04.08.2014	(21) EP18206003.8	Japan
(33) Korea (Republic)	(47) 01.11.2023	(51) H04N 23/68
(51) H04N 21/643	(22) 13.11.2018	(11) EP3861713
H04N 21/6332	(54) IMAGE SENSOR	(21) EP19797775.4
H04N 21/61	(73) OMRON Corporation	(47) 01.11.2023
H04N 21/222	(72) WATANABE, Kosuke	(87) FR2019052305
H04N 21/438	UETSUJI, Yasuhito	09.04.2020
(11) EP3453183	(31) 2018031065	(22) 30.09.2019
(21) EP17720793.3	(32) 23.02.2018	(54) METHOD FOR DISPLAYING AN
(47) 01.11.2023	(33) Japan	IMAGE INDEPENDENTLY OF THE
(87) EP2017060428	(51) H04N 23/55	ORIENTATION OF THE CAPTURING
09.11.2017	H04N 23/80	MEANS OR OF A HUMAN-MACHINE
(22) 02.05.2017	(11) EP3585045	OUTPUT INTERFACE OF AN
(54) TRANSMISSION APPARATUS FOR	(21) EP17896708.9	ELECTRONIC DEVICE CARRYING OUT
WIRELESS TRANSMISSION OF AN	(47) 01.11.2023	SAID METHOD
MPEG-TS (TRANSPORT STREAM)	(87) JP2017043308	(73) Crosscall
COMPATIBLE DATA STREAM	23.08.2018	(72) BEAUCOURT, Benoît
(73) Institut für Rundfunktechnik GmbH	(22) 01.12.2017	GORRE, Frédéric
(72) ILLGNER-FEHNS, Klaus	(54) INFORMATION PROCESSING	CZAICKI, Bertrand
KUNERT, Clemens	DEVICE, INFORMATION PROCESSING	(31) 201862740150 P
LIPFERT, Hermann	METHOD, AND PROGRAM	(32) 02.10.2018
PETERSEN, Swen	(73) Sony Group Corporation	(33) United States of America
EL MALEK, Ahmad	(72) KASHITANI, Tatsuki	(51) H04N 25/46
VAN DER KRUK, Willem, Leonardus	(31) 2017025803	H04N 25/76
(31) UA20163095	(32) 15.02.2017	H01L 27/146
(32) 03.05.2016	(33) Japan	H04N 5/33
(33) Italy	(51) H04N 23/65	(11) EP3751840
(51) H04N 21/845	H04N 23/667	(21) EP19750263.6
H04N 19/31	H04N 23/73	(47) 01.11.2023
H04N 19/70	H04N 25/40	(87) JP2019001236
H04N 19/587	H04N 25/77	15.08.2019
(11) EP3611929	H04N 19/137	(22) 17.01.2019
(21) EP19200525.4	(11) EP3713214	

(54) SOLID-STATE IMAGE SENSOR AND IMAGING DEVICE	(47) 01.11.2023	07.03.2019
(73) Sony Semiconductor Solutions Corporation	(87) IB2019001097	(22) 03.09.2018
(72) MARUYAMA, Shunsuke	18.03.2021	(54) A LOUDSPEAKER WITH A WAVE FRONT SHAPING DEVICE
INADA, Yoshiaki	(22) 09.09.2019	(73) Alcons Audio B.V.
(31) 2018034466	(54) VEHICLE REMOTE CONTROL METHOD AND VEHICLE REMOTE CONTROL DEVICE	(72) DE HAAN, Philip Derek Eduard
2018020098	(73) NISSAN MOTOR Co., Ltd.	(31) 2019480
(32) 28.02.2018	(72) SUZUKI, Yasuhiro	(32) 04.09.2017
07.02.2018	KOBAYASHI, Junya	(33) Netherlands
(33) Japan	YAMANAKA, Ryota	<hr/>
Japan	(51) H04Q 9/00	(51) H04R 3/00
<hr/>	G01D 4/00	G10K 11/34
(51) H04N 25/47	G01W 52/02	G10L 21/0208
H04N 25/772	G01R 31/382	G10L 21/0272
H04N 25/79	(11) EP3761659	G10L 21/028
(11) EP3967028	(21) EP20183880.2	H04R 1/40
(21) EP20726550.5	(47) 01.11.2023	(11) EP3860148
(47) 01.11.2023	(22) 03.07.2020	(21) EP19864541.8
(87) IB2020054398	(54) WIRELESS DEVICE AND COMMUNICATIONS SYSTEM	(47) 01.11.2023
19.11.2020	(73) Panasonic Intellectual Property Management Co., Ltd.	(87) JP2019035099
(22) 08.05.2020	(72) WATANABE, Takashi	02.04.2020
(54) EVENT-BASED VISION SENSOR USING ON/OFF EVENT AND GRAYSCALE DETECTION RAMPS	KAMIMURA, Takanori	(22) 06.09.2019
(73) Sony Advanced Visual Sensing AG	(31) 2019125989	(54) ACOUSTIC OBJECT EXTRACTION DEVICE AND ACOUSTIC OBJECT EXTRACTION METHOD
(72) BRÄNDLI, Christian	(32) 05.07.2019	(73) Panasonic Intellectual Property Corporation of America
BERNER, Raphael	(33) Japan	(72) MARS, Rohith
(31) 201962846283 P	<hr/>	NAGISETTY, Srikanth
(32) 10.05.2019	(51) H04Q 9/00	LIM, Chong Soon
(33) United States of America	G01V 1/22	EHARA, Hiroyuki
<hr/>	G01V 1/24	KAWAMURA, Akihisa
(51) H04N 25/626	(11) EP4029287	(31) 2018180688
H04N 5/33	(21) EP20801401.9	(32) 26.09.2018
H04N 25/76	(47) 01.11.2023	(33) Japan
(11) EP4066483	(87) IB2020000775	<hr/>
(21) EP20803624.4	18.03.2021	(51) H04R 3/00
(47) 01.11.2023	(22) 11.09.2020	H04M 3/56
(87) EP2020082167	(54) MULTI-FUNCTION ACQUISITION DEVICE AND OPERATING METHOD	(11) EP3793212
03.06.2021	(73) SERCEL	(21) EP20195776.8
(22) 14.11.2020	(72) GREGOIRE, Christian	(47) 01.11.2023
(54) IMAGE CAPTURE USING RADIATION SENSITIVE ELEMENTS EXHIBITING A MEMORY EFFECT	EXCOFFIER, Freddy	(22) 11.09.2020
(73) Office National d'Etudes et de Recherches Aéropatiales	RIBALET, Philippe	(54) MULTI-MICROPHONE SWITCHING METHOD AND SYSTEM FOR CONFERENCE SYSTEM
(72) KRAPEZ, Jean-Claude	THEBAUD, Jacques	(73) Yealink (Xiamen) Network Technology Co., Ltd.
(31) 1913415	(31) 201916569846	(72) ZHOU, Jianming
(32) 28.11.2019	(32) 13.09.2019	KANG, Yuanxun
(33) France	(33) United States of America	FENG, Wanjian
<hr/>	(51) H04R 1/10	(31) 201910865355
(51) H04Q 1/14	H04R 1/28	(32) 12.09.2019
(11) EP4042708	(11) EP3849206	(33) China
(21) EP20771518.6	(21) EP20151194.6	<hr/>
(47) 01.11.2023	(47) 01.11.2023	(51) H04R 3/00
(87) EP2020075194	(22) 10.01.2020	H04R 1/24
15.04.2021	(54) IN EAR HEARING DEVICE WITH A HOUSING ENCLOSING ACOUSTICALLY COUPLED VOLUME PORTIONS	H04R 3/12
(22) 09.09.2020	(73) Sonova AG	(11) EP3641333
(54) PULL-OFF DEVICE FOR AN OVERVOLTAGE PROTECTION MAGAZINE	(72) Zurbrügg, Thomas	(21) EP19188221.6
(73) Westnetz GmbH	Hölzl, Antonio	(47) 01.11.2023
(72) EPPMANN, Frank	Wagner, Paul	(22) 25.07.2019
(31) 102019127095	<hr/>	(54) SOUND PRODUCING APPARATUS
(32) 09.10.2019	(51) H04R 1/40	(73) xMEMS Labs, Inc.
(33) Germany	H04R 9/04	(72) Liang, Jemm Yue
<hr/>	H04R 1/34	(31) 201916420190
(51) H04Q 9/00	(11) EP3679728	201962813095 P
B60W 30/06	(21) EP18759340.5	201862748103 P
G06F 3/01	(47) 01.11.2023	(32) 23.05.2019
(11) EP4030773	(87) EP2018073573	03.03.2019
(21) EP19944794.7		19.10.2018
		(33) United States of America

United States of America	(51) H04S 7/00	NARAHARI, Sharath
United States of America	H04R 27/00	ROOPREDDY, Ravindar
(51) H04R 5/04	(11) EP3111678	(31) 201514845071
G06F 3/16	(21) EP15778787.0	201562161789 P
H04S 1/00	(47) 01.11.2023	201562161463 P
(11) EP3934274	(87) US2015048942	201562105885 P
(21) EP21191627.5	17.03.2016	PCT/US2015/048412
(47) 01.11.2023	(22) 08.09.2015	(32) 03.09.2015
(22) 12.11.2018	(54) METHOD OF CALIBRATING	14.05.2015
(54) METHODS AND APPARATUS	A PLAYBACK DEVICE,	14.05.2015
FOR ASYMMETRIC SPEAKER	CORRESPONDING PLAYBACK	21.01.2015
PROCESSING	DEVICE, SYSTEM AND COMPUTER	03.09.2015
(73) Dolby Laboratories Licensing Corporation	READABLE STORAGE MEDIUM	(33) United States of America
Dolby International AB	(73) Sonos, Inc.	United States of America
(72) BREEBAART, Dirk Jeroen	(72) SHEEN, Timothy	United States of America
DE BURGH, Mark David	JARVIS, Simon	United States of America
APPLETON, Nicholas Luke	(31) 201414481514	United States of America
PURNHAGEN, Heiko	201414481505	World Intellectual Property Office (WIPO)
GERRARD, Mark William	(32) 09.09.2014	(51) H04W 4/021
COOPER, David Matthew	09.09.2014	H04W 4/029
(31) 201762589307 P	(33) United States of America	H04W 4/02
18163056	United States of America	(11) EP3225072
(32) 21.11.2017	(51) H04W 4/02	(21) EP15862803.2
21.03.2018	(11) EP2959702	(47) 01.11.2023
(33) United States of America	(21) EP13875342.1	(87) US2015057399
European Patent Office (EPO)	(47) 01.11.2023	02.06.2016
(51) H04R 25/00	(87) US2013060920	(22) 26.10.2015
G16H 40/00	28.08.2014	(54) VIRTUAL SENSOR APPARATUS AND
A61B 5/00	(22) 20.09.2013	METHOD
(11) EP3643081	(54) GEO-FENCE NOTIFICATION	(73) Intel Corporation
(21) EP18820690.8	MANAGEMENT	(72) WOUHAYBI, Rita H.
(47) 01.11.2023	(73) Intel Corporation	MO, Stanley
(87) US2018038820	(72) BIRCH, Thomas A.	KOHLBERG, Tobias M.
27.12.2018	JOHNSON, Derick Arnold	(31) 201414554880
(22) 21.06.2018	KASPER, Michael J.	(32) 26.11.2014
(54) ADAPTIVE AND INTERACTIVE	(31) 201361768203 P	(33) United States of America
EDUCATION AND COMMUNICATION	201361768156 P	(51) H04W 4/029
SYSTEM FOR PEOPLE WITH HEARING	(32) 22.02.2013	H04W 4/021
LOSS	22.02.2013	G08B 13/14
(73) Healthcare Technologies And Methods,	(33) United States of America	G08B 25/08
LLC	United States of America	G08B 21/24
(72) LETZT, Alan	(51) H04W 4/02	G08B 13/24
LETZT, Stephanie	B66B 1/46	G06Q 10/06
(31) 201862640152 P	(11) EP3412614	H04W 4/02
201762522920 P	(21) EP18175750.1	G06Q 10/0631
(32) 08.03.2018	(47) 01.11.2023	H04L 67/52
21.06.2017	(22) 04.06.2018	H04L 67/55
(33) United States of America	(54) ELEVATOR NOTIFICATIONS ON	(11) EP3792889
United States of America	MOBILE DEVICE ASSOCIATED WITH	(21) EP20205531.5
(51) H04S 3/00	USER IDENTIFICATION DEVICE	(47) 01.11.2023
G10L 19/008	(73) Otis Elevator Company	(22) 22.05.2017
(11) EP3451706	(72) Scoville, Bradley Armand	(54) USER INTERVENTION BASED ON
(21) EP18173707.3	Simcik, Paul A.	PROXIMITY BETWEEN TRACKING
(47) 01.11.2023	(31) 201715613968	DEVICES
(22) 24.03.2015	(32) 05.06.2017	(73) Tile, Inc.
(54) METHOD AND DEVICE FOR APPLYING	(33) United States of America	(72) DE BARROS CHAPIEWSKI, Guiherme
DYNAMIC RANGE COMPRESSION	(51) H04W 4/02	QUINTANA, Melody
TO A HIGHER ORDER AMBISONICS	G01S 5/02	KUMAR, Mayank
SIGNAL	(11) EP3248401	LETTAU, Tyler
(73) Dolby International AB	(21) EP16740783.2	PATTERSON, Wayne
(72) BOEHM, Johannes	(47) 01.11.2023	(31) 201615339750
KEILER, Florian	(87) US2016014369	201615339742
(31) 14305559	28.07.2016	201615339747
14305423	(22) 21.01.2016	201615339751
(32) 15.04.2014	(54) SYSTEMS, METHODS AND DEVICES	201615339746
24.03.2014	FOR ASSET STATUS DETERMINATION	201615339753
(33) European Patent Office (EPO)	(73) ParkourSC, Inc.	201662344392 P
European Patent Office (EPO)	(72) KULKARNI, Raghavendra	(32) 31.10.2016
		31.10.2016

31.10.2016	(11) EP3850876	G06Q 20/32
31.10.2016	(21) EP19773684.6	G08G 1/0967
31.10.2016	(47) 01.11.2023	(11) EP3952359
31.10.2016	(87) US2019050556	(21) EP21185869.1
01.06.2016	19.03.2020	(47) 01.11.2023
(33) United States of America	(22) 11.09.2019	(22) 15.07.2021
United States of America	(54) INTERFACE FOR INTEGRATION OF	(54) METHODS AND SYSTEMS FOR
United States of America	RADIO SYSTEMS	ENHANCING VEHICLE DATA ACCESS
United States of America	(73) Saudi Arabian Oil Company	CAPABILITIES
United States of America	(72) JAR, Mustafa A.	(73) Toyota Motor North America, Inc.
United States of America	DAAFAS, Naif A.	(72) HARRIS, Randall M.
United States of America	ALKHARAFI, Mohammad S.	(31) 202016931138
United States of America	(31) 201816127484	(32) 16.07.2020
(51) H04W 4/06	(32) 11.09.2018	(33) United States of America
H04L 67/06	(33) United States of America	
(11) EP3777113	(51) H04W 4/40	(51) H04W 4/50
(21) EP19829782.2	H04W 92/18	H04W 76/10
(47) 01.11.2023	H04W 24/10	H04W 12/08
(87) KR2019008104	H04W 24/02	H04L 9/40
09.01.2020	H04W 4/46	H04W 12/088
(22) 03.07.2019	H04L 41/0816	(11) EP3837867
(54) APPARATUS AND METHOD FOR	H04L 41/142	(21) EP19864612.7
ADJUSTING NETWORK PARAMETER	H04L 41/082	(47) 01.11.2023
(73) Samsung Electronics Co., Ltd.	H04L 43/0852	(87) US2019051792
(72) HEO, Joonyoung	H04L 43/0876	02.04.2020
SUNG, Jinmo	H04L 43/0888	(22) 18.09.2019
KIM, Mooyoung	H04L 43/16	(54) NETWORK SLICE-BASED SECURITY
KIM, Minjung	(11) EP3860171	IN MOBILE NETWORKS
(31) 20180077228	(21) EP19874991.3	(73) Palo Alto Networks, Inc.
(32) 03.07.2018	(47) 01.11.2023	(72) VERMA, Sachin
(33) Korea (Republic)	(87) CN2019103920	BURAKOVSKY, Leonid
(51) H04W 4/06	30.04.2020	(31) 201816144151
H04W 72/00	(22) 02.09.2019	201816144158
H04W 76/40	(54) CONFIGURATION PARAMETER	201816144147
(11) EP4014519	UPDATE METHOD AND APPARATUS	201816144143
(21) EP20753376.1	(73) Huawei Cloud Computing Technologies	(32) 27.09.2018
(47) 01.11.2023	Co., Ltd.	27.09.2018
(87) EP2020072661	(72) ZHAO, Can	27.09.2018
18.02.2021	(31) 201811260186	27.09.2018
(22) 12.08.2020	(32) 26.10.2018	(33) United States of America
(54) EFFICIENT MULTICAST	(33) China	United States of America
(73) Fraunhofer-Gesellschaft zur Förderung	(51) H04W 4/44	United States of America
der angewandten Forschung e.V.	(11) EP3884689	United States of America
(72) PILZ, Jens	(21) EP19806190.5	(51) H04W 4/70
WIERUCH, Dennis	(47) 01.11.2023	H04L 9/40
HAUSTEIN, Thomas	(87) EP2019081709	H04L 67/12
(31) 19191822	28.05.2020	H04W 28/16
(32) 14.08.2019	(22) 19.11.2019	H04W 88/14
(33) European Patent Office (EPO)	(54) GEOGRAPHICAL AREA MESSAGE	(11) EP3554099
(51) H04W 4/08	DISTRIBUTION	(21) EP17880076.9
H04W 36/12	(73) TELEFONAKTIEBOLAGET LM	(47) 01.11.2023
H04W 24/02	ERICSSON (PUBL)	(87) CN2017102250
(11) EP3675531	(72) EL ESSAILI, Ali	21.06.2018
(21) EP18861939.9	ZANG, Yunpeng	(22) 19.09.2017
(47) 01.11.2023	LOHMAR, Thorsten	(54) METHOD FOR RESOURCE CREATION
(87) CN2018107580	MUEHLEISEN, Maciej	AND REGISTRATION OF APPLICATION
04.04.2019	ÅKESSON, Joakim	ENTITY, AND COMMUNICATION NODE
(22) 26.09.2018	(31) 201862769539 P	DEVICE AND TERMINAL DEVICE
(54) COMMUNICATION METHOD,	(32) 19.11.2018	(73) BOE Technology Group Co., Ltd.
APPARATUS AND COMPUTER-	(33) United States of America	(72) REN, Junyuan
READABLE STORAGE MEDIUM	(51) H04W 4/46	ZHAO, Junjie
(73) Huawei Technologies Co., Ltd.	G05D 1/00	(31) 201611142072
(72) SUN, Dekui	G06Q 20/00	(32) 12.12.2016
SHI, Shufeng	G08G 1/00	(33) China
(31) 201710923300	H04L 69/08	(51) H04W 4/70
(32) 30.09.2017	G06Q 20/06	H04W 56/00
(33) China	G06Q 20/12	H04W 74/08
(51) H04W 4/10	G06Q 20/30	(11) EP3914015
H04W 76/45		(21) EP20756324.8

(47) 01.11.2023	(31) 2104189	(54) APPARATUS FOR IMPLEMENTING
(87) KR2020002257	(32) 22.04.2021	A TRUSTED SUBSCRIPTION
20.08.2020	(33) France	MANAGEMENT PLATFORM
(22) 17.02.2020	(51) H04W 8/00	(73) Simless, Inc.
(54) METHOD FOR TRANSMITTING UPLINK	H04W 72/04	(72) WANE, Ismaila
DATA THROUGH PRECONFIGURED	H04W 76/14	(31) 201562171246 P
UPLINK RESOURCE IN WIRELESS	H04W 88/04	201562162740 P
COMMUNICATION SYSTEM, AND	H04W 40/34	201462078006 P
APPARATUS THEREFOR	H04W 92/18	201462051311 P
(73) LG Electronics Inc.	(11) EP3745751	(32) 05.06.2015
(72) KIM, Jaehyung	(21) EP20185256.3	16.05.2015
AHN, Joonkui	(47) 01.11.2023	11.11.2014
SHIN, Seokmin	(22) 12.11.2015	17.09.2014
PARK, Changhwan	(54) TERMINAL-TO-TERMINAL	(33) United States of America
HWANG, Seunggye	COMMUNICATION INVOLVING A	United States of America
(31) 20190123433	RELAY TERMINAL DEVICE	United States of America
20190052614	(73) KDDI Corporation	United States of America
20190036402	(72) KITAGAWA, Kouichiro	
20190018230	FUSHIKI, Masashi	(51) H04W 8/24
(32) 04.10.2019	SUEGARA, Yasuhiro	H04W 8/26
03.05.2019	(31) 2014232178	H04W 8/04
28.03.2019	(32) 14.11.2014	H04W 8/20
15.02.2019	(33) Japan	H04W 4/60
(33) Korea (Republic)	(51) H04W 8/16	H04W 8/18
Korea (Republic)	H04W 60/00	H04W 12/06
Korea (Republic)	H04W 8/04	H04W 12/037
Korea (Republic)	H04W 8/22	(11) EP3621332
	H04W 92/24	(21) EP19189536.6
(51) H04W 4/80	(11) EP4035437	(47) 01.11.2023
H04W 8/00	(21) EP20785693.1	(22) 18.04.2014
H04W 76/14	(47) 01.11.2023	(54) METHOD, TERMINAL DEVICE,
H04W 88/06	(87) EP2020076816	MANAGEMENT SERVER AND SYSTEM
(11) EP3796689	01.04.2021	FOR DISTRIBUTING DATA OF VIRTUAL
(21) EP19198582.9	(22) 24.09.2020	SUBSCRIBER IDENTITY MODULE
(47) 01.11.2023	(54) METHOD AND APPARATUS FOR	(73) Huawei Technologies Co. Ltd.
(22) 20.09.2019	ACCESS OR RAT RESTRICTION	(72) LIN, Jixiong
(54) WIRELESS COMMUNICATION	(73) TELEFONAKTIEBOLAGET LM	(51) H04W 8/26
DEVICES, CORRESPONDING	ERICSSON (PUBL)	H04W 12/06
METHODS AND COMPUTER	(72) ZHU, Jinyin	(11) EP4087298
PROGRAMS, MOBILE DEVICE AND	LI, Xiaoming	(21) EP22165001.3
VEHICLE	DE GREGORIO RODRIGUEZ, Jesús-	(47) 01.11.2023
(73) Bayerische Motoren Werke	Ángel	(22) 09.07.2018
Aktiengesellschaft	(31) PCT/CN2019/108589	(54) DEVICE ACCESS METHOD, DEVICE,
(72) Mourad, Alaa	(32) 27.09.2019	AND SYSTEM
(51) H04W 4/90	(33) World Intellectual Property Office (WIPO)	(73) Huawei Technologies Co., Ltd.
H04W 48/10	(51) H04W 8/18	(72) YU, Youyang
H04W 4/06	H04W 88/06	LI, Hancheng
(11) EP3764675	H04W 8/20	(31) 201710562454
(21) EP20194666.2	H04W 4/24	(32) 11.07.2017
(47) 01.11.2023	H04M 15/00	(33) China
(22) 06.12.2016	H04W 4/50	(51) H04W 12/04
(54) IMPROVED PUBLIC INFORMATION	H04W 4/60	H04L 9/08
SYSTEM	H04W 12/00	H04W 4/00
(73) Telefonaktiebolaget LM Ericsson (publ)	H04L 67/306	H04W 8/24
(72) ÅKESSON, Joakim	G06F 21/53	G06F 3/0484
STIJVE, Sanne	H04L 9/40	G06F 3/0482
(51) H04W 8/00	H04L 67/30	G06F 3/038
H04L 9/40	H04M 17/02	H04W 4/80
(11) EP4080923	H04M 17/00	H04W 12/50
(21) EP22169145.4	H04W 12/06	G06F 3/0482
(47) 01.11.2023	H04W 12/30	G06F 3/0354
(22) 21.04.2022	H04W 12/42	(11) EP3145115
(54) ELECTRONIC DEVICE FOR	H04W 84/04	(21) EP16185365.0
DECENTRALISED MANAGEMENT OF	(11) EP3764678	(47) 01.11.2023
COMMUNICATION GROUP(S)	(21) EP20192677.1	(22) 23.08.2016
(73) THALES	(47) 01.11.2023	(54) INPUT APPARATUS AND
(72) SALIBA, Eric	(22) 17.09.2015	CONTROLLING METHOD THEREOF
BONNAFOUX, Luc		(73) Samsung Electronics Co., Ltd.
THIERRY, Benjamin		(72) Ha, Jung-su

Lim, Jun-hak	(72) LI, Chaojun	(11) EP3281440
Namgoong, Bo-ram	MA, Sha	(21) EP16718582.6
Lee, Hyun-ju	(51) H04W 16/28	(47) 01.11.2023
Koh, Jae-chan	H04W 28/08	(87) US2016026729
Park, Jee-su	H04W 36/00	13.10.2016
(31) 20150131406	H04W 36/08	(22) 08.04.2016
(32) 17.09.2015	H04W 36/22	(54) SIGNALLING FOR PER
(33) Korea (Republic)	H04W 36/30	COMPONENT CARRIER BASED
(51) H04W 12/06	(11) EP3869856	ENHANCED MEASUREMENT GAP
(11) EP3675451	(21) EP19875166.1	CONFIGURATION
(21) EP19207679.2	(47) 01.11.2023	(73) Apple Inc.
(47) 01.11.2023	(87) CN2019106652	(72) YIU, Candy
(22) 07.11.2019	30.04.2020	TANG, Yang
(54) METHOD, COMPUTER READABLE	(22) 19.09.2019	HUANG, Rui
STORAGE MEDIUM AND APPARATUS	(54) BEAM LOAD BALANCING METHODS	HEO, Youn Hyoung
FOR SEAMLESS SINGLE SIGN-	AND DEVICES	HE, Hong
ON (SSO) FOR NATIVE MOBILE-	(73) China Mobile Communication Co., Ltd	(31) 201662294867 P
APPLICATION INITIATED OPEN-ID	Research Institute	201562145318 P
CONNECT (OIDC) AND SECURITY	China Mobile Communications Group	(32) 12.02.2016
ASSERTION MARKUP LANGUAGE	Co., Ltd.	09.04.2015
(SAML) FLOWS	(72) XIE, Fang	(33) United States of America
(73) Konica Minolta Laboratory U.S.A., Inc.	LIU, Guangyi	United States of America
(72) Suraparaju, Rahul	(31) 201811228627	(51) H04W 28/02
(31) 201816233998	(32) 22.10.2018	H04W 28/04
(32) 27.12.2018	(33) China	H04W 80/02
(33) United States of America	(51) H04W 24/08	H04W 36/00
(51) H04W 12/08	H04L 41/5019	H04L 1/16
H04W 72/04	H04L 43/55	H04L 1/18
H04W 76/27	H04L 43/08	H04W 88/06
(11) EP3618467	H04L 43/026	(11) EP3703416
(21) EP17907742.5	H04L 43/0829	(21) EP19764937.9
(47) 01.11.2023	H04L 41/08	(47) 01.11.2023
(87) JP2017017050	H04L 43/087	(87) KR2019002641
01.11.2018	(11) EP3675551	12.09.2019
(22) 28.04.2017	(21) EP18859141.6	(22) 07.03.2019
(54) RADIO TERMINAL, BASE STATION,	(47) 01.11.2023	(54) METHOD AND DEVICE FOR
RADIO COMMUNICATION SYSTEM	(87) CN2018104537	TRANSMITTING DATA IN CASE
AND RADIO COMMUNICATION	28.03.2019	OF PDCP VERSION CHANGE IN
METHOD	(22) 07.09.2018	WIRELESS COMMUNICATION SYSTEM
(73) Fujitsu Limited	(54) METHOD AND SYSTEM FOR	(73) Samsung Electronics Co., Ltd.
(72) ODE, Takayoshi	DETECTING QUALITY OF SERVICE OF	(72) RYU, Seungbo
OHTA, Yoshiaki	SERVICE	(31) 20180026700
(51) H04W 12/104	(73) Huawei Technologies Co., Ltd.	(32) 07.03.2018
H04W 12/069	(72) SUN, Dekui	(33) Korea (Republic)
(11) EP3519845	ZHOU, Han	(51) H04W 28/02
(21) EP16775644.4	ZONG, Zaifeng	H04W 72/12
(47) 01.11.2023	(31) 201710874968	H04W 74/08
(87) EP2016073120	(32) 25.09.2017	(11) EP3827612
05.04.2018	(33) China	(21) EP19864208.4
(22) 28.09.2016	(51) H04W 24/10	(47) 01.11.2023
(54) VALIDATION OF POSITION	(11) EP3672317	(87) KR2019012385
INDICATION	(21) EP18861690.8	02.04.2020
(73) Telefonaktiebolaget LM Ericsson (PUBL)	(47) 01.11.2023	(22) 24.09.2019
(72) LINDOFF, Bengt	(87) CN2018103955	(54) METHOD AND APPARATUS
NORDSTRÖM, Fredrik	04.04.2019	FOR TRANSMITTING BUFFER
EKDAHL, Patrik	(22) 04.09.2018	STATUS REPORT IN WIRELESS
REIAL, Andres	(54) METHOD FOR CHANNEL	COMMUNICATION SYSTEM
ANDERSSON, Lars	MEASUREMENT	(73) Samsung Electronics Co., Ltd.
ÅSTRÖM, Magnus	(73) Huawei Technologies Co., Ltd.	(72) JANG, Jaehyuk
(51) H04W 16/10	(72) WU, Ye	AGIWAL, Anil
H04L 5/00	JIN, Huangping	(31) 20180116388
(11) EP3840447	BI, Xiaoyan	(32) 28.09.2018
(21) EP20203015.1	HAN, Wei	(33) Korea (Republic)
(47) 01.11.2023	(31) 201710915057	(51) H04W 28/02
(22) 24.09.2015	(32) 30.09.2017	H04W 72/21
(54) DATA TRANSMISSION METHOD AND	(33) China	(11) EP3679757
APPARATUS	(51) H04W 24/10	(21) EP18854642.8
(73) HUAWEI TECHNOLOGIES CO., LTD.	H04W 52/02	(47) 01.11.2023

(87) KR2018010440 14.03.2019	(33) World Intellectual Property Office (WIPO)	(72) YOUN, Myungjune KIM, Hyunsook
(22) 06.09.2018	(51) H04W 28/08	(31) 20190122515
(54) METHOD AND USER EQUIPMENT FOR TRANSMITTING UPLINK SIGNAL	H04W 88/06	(32) 02.10.2019
(73) LG Electronics Inc.	(11) EP3138320	(33) Korea (Republic)
(72) LEE, Gyeongcheol	(21) EP14721830.9	
LEE, Sunyoung	(47) 01.11.2023	(51) H04W 36/00
(31) 201762555069 P	(87) EP2014058917	H04W 36/14
(32) 07.09.2017	05.11.2015	H04W 36/18
(33) United States of America	(22) 30.04.2014	H04W 76/12
(51) H04W 28/04	(54) A METHOD, APPARATUS AND	H04W 92/02
H04W 28/06	SYSTEM	(11) EP3869860
H04W 72/04	(73) Nokia Solutions and Networks Oy	(21) EP19883805.4
H04W 72/12	(72) RASANEN, Juha Antero	(47) 01.11.2023
H04L 1/1829	(51) H04W 28/18	(87) CN2019117356
(11) EP3911000	H04L 5/00	22.05.2020
(21) EP19908460.9	H04W 72/23	(22) 12.11.2019
(47) 01.11.2023	H04W 72/51	(54) NETWORK SWITCHING METHOD AND
(87) JP2019035762	H04W 72/044	APPARATUS
16.07.2020	(11) EP3375237	(73) Huawei Technologies Co., Ltd.
(22) 11.09.2019	(21) EP16801665.7	(72) JIN, Weisheng
(54) BASE STATION, TERMINAL, AND	(47) 01.11.2023	LI, Huan
COMMUNICATION METHOD	(87) US2016061419	LU, Wei
(73) Panasonic Intellectual Property	18.05.2017	(31) 201811341605
Corporation of America	(22) 10.11.2016	(32) 12.11.2018
(72) NUNOME, Tomoya	(54) PHYSICAL LAYER SIGNALING ON	(33) China
IWAI, Takashi	DIFFERENT PHYSICAL RESOURCES	(51) H04W 36/00
SUZUKI, Hidetoshi	(73) Qualcomm Incorporated	H04W 48/10
HORIUCHI, Ayako	(72) YERRAMALLI, Srinivas	H04W 16/28
OGAWA, Yoshihiko	LUO, Tao	H04B 7/06
(31) 2019001857	GAAL, Peter	(11) EP3580958
(32) 09.01.2019	(31) 201615347382	(21) EP18708016.3
(33) Japan	201562255394 P	(47) 01.11.2023
(51) H04W 28/06	(32) 09.11.2016	(87) US2018018050
(11) EP3962161	14.11.2015	16.08.2018
(21) EP21185706.5	(33) United States of America	(22) 13.02.2018
(47) 01.11.2023	United States of America	(54) INITIATION OF MOBILITY REFERENCE
(22) 31.08.2016	(51) H04W 36/00	SIGNAL BASED ON QUALITY OF
(54) METHOD FOR REPORTING	H04W 24/10	INITIAL ACCESS SIGNALS
USER EQUIPMENT CAPABILITY	(11) EP3925286	(73) Qualcomm Incorporated
INFORMATION AND APPARATUS	(21) EP20701768.2	(72) ISLAM, Muhammad, Nazmul
(73) Huawei Technologies Co., Ltd.	(47) 01.11.2023	SUBRAMANIAN, Sundar
(72) QUAN, Wei	(87) EP2020051996	SADIQ, Bilal
CHEN, Bin	20.08.2020	CEZANNE, Juergen
LI, Bingzhao	(22) 28.01.2020	SAMPATH, Ashwin
XU, Bin	(54) COMMUNICATIONS DEVICE AND	NAGARAJA, Sumeeth
ZHANG, Jian	METHOD FOR ADAPTING RELAXED	(31) 201815894333
(51) H04W 28/06	RADIO MEASUREMENT PROCEDURE	201762547697 P
H04W 80/02	(73) Sony Group Corporation	201762458359 P
H04L 47/34	(72) SHARMA, Vivek	(32) 12.02.2018
H04L 69/28	BEALE, Martin Warwick	18.08.2017
(11) EP3665941	WEI, Yuxin	13.02.2017
(21) EP18845222.1	WONG, Shin Horng	(33) United States of America
(47) 01.11.2023	AWAD, Yassin Aden	United States of America
(87) CN2018099678	(31) 19157287	United States of America
14.02.2019	(32) 14.02.2019	
(22) 09.08.2018	(33) European Patent Office (EPO)	(51) H04W 36/00
(54) RADIO LINK CONTROL	(51) H04W 36/00	H04W 48/10
UNACKNOWLEDGED MODE RECEIVE	H04W 36/12	H04W 48/18
TECHNIQUES	H04W 76/18	(11) EP3897039
(73) QUALCOMM Incorporated	(11) EP4021075	(21) EP21160674.4
(72) ZHENG, Ruiming	(21) EP20871265.3	(47) 01.11.2023
YU, Yu-Ting	(47) 01.11.2023	(22) 03.11.2017
KUBOTA, Keiichi	(87) KR2020012309	(54) CELL RESELECTION METHOD AND
HORN, Gavin Bernard	08.04.2021	APPARATUS
(31) PCT/CN2017/097233	(22) 11.09.2020	(73) HUAWEI TECHNOLOGIES CO., LTD.
(32) 11.08.2017	(54) METHOD FOR MOVING PDU SESSION	(72) Wang, Rui
	ON NON-3GPP TO 3GPP ACCESS	Dai, Mingzeng
	(73) LG Electronics Inc.	(31) 201610979443
		(32) 04.11.2016



(33) China	(21) EP21154484.6	(51) H04W 52/02
(51) H04W 36/14	(47) 01.11.2023	H04W 76/27
H04W 36/30	(22) 18.09.2012	H04L 5/00
H04W 36/00	(54) A TRANSMITTER, A RECEIVER AND METHODS THEREIN	H04L 1/00
H04L 45/243	(73) Telefonaktiebolaget LM Ericsson (publ)	(11) EP3836637
H04W 76/10	(72) Baldemair, Robert	(21) EP19847267.2
H04W 76/16	Balachandran, Kumar	(47) 01.11.2023
H04W 36/28	Hui, Dennis	(87) CN2019100148
H04W 88/06	(31) 201261668465 P	13.02.2020
H04W 88/16	(32) 06.07.2012	(22) 12.08.2019
(11) EP3437374	(33) United States of America	(54) STATE DETERMINING AND STATE INDICATION IN A WIRELESS NETWORK
(21) EP17712891.5	(51) H04W 48/18	(73) ZTE Corporation
(47) 01.11.2023	(11) EP3857977	(72) ZHANG, Chenchen
(87) US2017020748	(21) EP19756396.8	HAO, Peng
05.10.2017	(47) 01.11.2023	LIU, Xing
(22) 03.03.2017	(87) EP2019072807	HAN, Xianghui
(54) INTERWORKING WITH LEGACY RADIO ACCESS TECHNOLOGIES FOR CONNECTIVITY TO NEXT GENERATION CORE NETWORK	02.04.2020	LIANG, Yachao
(73) QUALCOMM Incorporated	(22) 27.08.2019	HE, Haigang
(72) FACCIN, Stefano	(54) NETWORK SLICE REGISTRATION MANAGEMENT	(31) 201810911007
ZISIMOPOULOS, Haris	(73) British Telecommunications public limited company	(32) 10.08.2018
HORN, Gavin Bernard	(72) CORSTON-PETRIE, Andrew	(33) China
(31) 201615274500	BROWN, Ruth	(51) H04W 52/24
201662317414 P	HART, Jonathan	H04W 52/38
(32) 23.09.2016	(31) 18197290	H04W 52/28
01.04.2016	(32) 27.09.2018	H04W 52/34
(33) United States of America	(33) European Patent Office (EPO)	H04W 56/00
United States of America	(51) H04W 48/18	H04W 4/40
(51) H04W 48/10	H04W 88/02	(11) EP3742827
H04W 4/70	(11) EP3703427	(21) EP19760116.4
(11) EP3857971	(21) EP20170261.0	(47) 01.11.2023
(21) EP19784146.3	(47) 01.11.2023	(87) KR2019002271
(47) 01.11.2023	(22) 28.11.2014	06.09.2019
(87) IB2019058253	(54) METHOD AND DEVICES FOR ENABLING A MACHINE TYPE COMMUNICATION (MTC) COVERAGE ENHANCEMENT MODE	(22) 25.02.2019
02.04.2020	(73) Sony Group Corporation	(54) METHOD FOR TRANSMITTING SYNCHRONIZATION SIGNAL IN WIRELESS COMMUNICATION SYSTEM AND TERMINAL USING SAME METHOD
(22) 27.09.2019	(72) LJUNG, Rickard	(73) LG Electronics Inc.
(54) SUPPORT FOR TRANSMISSION IN PRECONFIGURED UL RESOURCES	KARLSSON, Peter C.	(72) LEE, Jongyoul
(73) TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)	(51) H04W 48/18	SEO, Hanbyul
(72) HÖGLUND, Andreas	H04W 88/06	LEE, Seungmin
LIBERG, Olof	H04W 4/70	CHAE, Hyukjin
STATTIN, Magnus	H04W 48/16	(31) 201862637989 P
SUI, Yutao	H04B 17/23	201862636715 P
TIRRONEN, Tuomas	H04M 1/724	(32) 02.03.2018
(31) 201862737697 P	H04L 12/28	28.02.2018
(32) 27.09.2018	(11) EP3764571	(33) United States of America
(33) United States of America	(21) EP19764137.6	United States of America
(51) H04W 48/12	(47) 01.11.2023	(51) H04W 52/30
H04W 68/00	(87) JP2019007577	H04W 72/04
(11) EP3487259	12.09.2019	H04W 74/08
(21) EP17851107.7	(22) 27.02.2019	H04W 52/16
(47) 01.11.2023	(54) APPARATUS AND METHOD	H04W 52/36
(87) KR2017010003	(73) Panasonic Intellectual Property Corporation of America	H04W 52/14
22.03.2018	(72) OGAWA, Tomoki	H04L 5/14
(22) 12.09.2017	YAMADA, Mitsuki	H04W 52/34
(54) METHOD AND DEVICE FOR UPDATING SYSTEM INFORMATION IN WIRELESS COMMUNICATION SYSTEM	KOZUKA, Masayuki	H04W 84/04
(73) Samsung Electronics Co., Ltd.	GOHARA, Kunio	H04W 52/28
(72) KIM, Sangbum	YOSHIKAWA, Yoshishige	H04W 52/40
(31) 20160118401	NAKAI, Shinya	H04W 52/50
(32) 13.09.2016	SUZUKI, Junya	(11) EP3148262
(33) Korea (Republic)	(31) 201862640758 P	(21) EP15796716.7
(51) H04W 48/16	(32) 09.03.2018	(47) 01.11.2023
(11) EP3840478	(33) United States of America	(87) JP2015064482
		26.11.2015

(22) 20.05.2015	DISTRIBUTED DEVICE TO DEVICE	(11) EP3503640
(54) TERMINAL DEVICE AND METHOD	SYNCHRONIZATION	(21) EP16917130.3
(73) Sharp Kabushiki Kaisha	(73) Qualcomm Incorporated	(47) 01.11.2023
(72) KUSASHIMA Naoki	(72) KHUDE, Nilesh Nilkanth	(87) CN2016100600
NOGAMI Toshizo	HENRI, Sebastien	05.04.2018
OUCHI Wataru	PARK, Vincent Douglas	(22) 28.09.2016
SHIMEZAWA Kazuyuki	LI, Junyi	(54) COMMUNICATION METHOD AND
HAYASHI Takashi	(31) 201414160381	TERMINAL
RUIZ DELGADO Alvaro	(32) 21.01.2014	(73) Huawei Technologies Co., Ltd.
IMAMURA Kimihiko	(33) United States of America	(72) ZHAO, Zhenshan
(31) 2014105257	(51) H04W 60/00	(51) H04W 72/02
(32) 21.05.2014	H04L 65/1016	H04W 72/0446
(33) Japan	H04L 65/1073	(11) EP3522628
(51) H04W 52/32	H04W 84/12	(21) EP17856732.7
H04W 52/48	H04L 61/2575	(47) 01.11.2023
H04W 52/58	H04L 61/2514	(87) KR2017010720
H04L 5/00	H04L 61/5014	05.04.2018
(11) EP3676978	(11) EP3443768	(22) 27.09.2017
(21) EP18854653.5	(21) EP17799957.0	(54) METHOD AND DEVICE FOR
(47) 01.11.2023	(47) 01.11.2023	SELECTING RESOURCE AND
(87) KR2018010560	(87) US2017032706	TRANSMITTING PSSCH IN WIRELESS
14.03.2019	23.11.2017	COMMUNICATION SYSTEM
(22) 10.09.2018	(22) 15.05.2017	(73) LG Electronics Inc.
(54) TRANSMISSION OF HARQ-ACK	(54) PROVIDING A PUBLIC INTERNET	(72) CHAE, Hyukjin
INFORMATION	PROTOCOL ADDRESS DURING WI-FI	SEO, Hanbyul
(73) Samsung Electronics Co., Ltd.	CALLING REGISTRATION	LEE, Seungmin
(72) FU, Jingxing	(73) T-Mobile USA, Inc.	(31) 201662418166 P
YU, Bin	(72) REHMAT, Umair	201662418020 P
QIAN, Chen	MUFTI, Shujaur	201662407451 P
XIONG, Qi	(31) 201615278946	201662405865 P
SUN, Feifei	201662337660 P	201662403049 P
(31) 201710911985	(32) 28.09.2016	201662400618 P
201710806037	17.05.2016	(32) 04.11.2016
(32) 29.09.2017	(33) United States of America	04.11.2016
08.09.2017	United States of America	12.10.2016
(33) China	(51) H04W 64/00	07.10.2016
China	(11) EP3698588	30.09.2016
(51) H04W 52/36	(21) EP18807905.7	27.09.2016
H04W 72/04	(47) 01.11.2023	(33) United States of America
(11) EP3251430	(87) EP2018081365	United States of America
(21) EP15880649.7	23.05.2019	United States of America
(47) 01.11.2023	(22) 15.11.2018	United States of America
(87) US2015066772	(54) AN ESTIMATE OF A LOCATION OF	United States of America
04.08.2016	THE TERMINAL DEVICES.	United States of America
(22) 18.12.2015	(73) Sony Group Corporation	(51) H04W 72/02
(54) POWER HEADROOM REPORTING	(72) SHARMA, Vivek	H04W 76/14
WITH CHANNEL SELECTION	WAKABAYASHI, Hideji	H04W 72/20
(73) Apple Inc.	WEI, Yuxin	H04W 4/40
(72) VISHWANATHAN, Narayan	TSUDA, Shinichiro	(11) EP3833129
ZHANG, Yujian	(31) 17202193	(21) EP18932624.2
HE, Hong	(32) 16.11.2017	(47) 01.11.2023
HAN, Seunghee	(33) European Patent Office (EPO)	(87) CN2018104671
HEO, Youn Hyoung	(51) H04W 64/00	12.03.2020
(31) 201562109503 P	G01S 5/02	(22) 07.09.2018
(32) 29.01.2015	G01S 3/74	(54) METHOD FOR TRANSMITTING
(33) United States of America	(11) EP3613244	CONFIGURATION INFORMATION AND
(51) H04W 56/00	(21) EP17722881.4	TERMINAL DEVICE
H04W 84/18	(47) 01.11.2023	(73) GUANGDONG OPPO MOBILE
H04W 8/00	(87) IB2017052321	TELECOMMUNICATIONS CORP., LTD.
(11) EP3097729	25.10.2018	(72) ZHAO, Zhenshan
(21) EP15704877.8	(22) 21.04.2017	LU, Qianxi
(47) 01.11.2023	(54) FINGERPRINTING ENHANCEMENT	LIN, Hwei-Ming
(87) US2015012146	WITH MULTI-BAND AOA	(51) H04W 72/04
30.07.2015	MEASUREMENTS	(11) EP3641460
(22) 21.01.2015	(73) Telefonaktiebolaget LM Ericsson (PUBL)	(21) EP19215489.6
(54) METHOD AND APPARATUS FOR	(72) WIGREN, Torbjörn	(47) 01.11.2023
RESOURCE ALLOCATION FOR	WANG, Meng	(22) 14.08.2015
	(51) H04W 72/02	

(54) TRANSMITTING A SCHEDULING REQUEST FOR A DEVICE-TO-DEVICE TRANSMISSION	(47) 01.11.2023 (87) CN2018080537 08.11.2018	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(73) BlackBerry Limited	(22) 26.03.2018	(72) ZHANG, Tao
(72) FAURIE, Rene VUTUKURI, Eswar SUZUKI, Takashi	(54) METHOD AND DEVICE FOR TRANSMITTING DOWNLINK CONTROL CHANNEL	XIA, Yang TANG, Kai
(31) 201514712785	(73) Datang Mobile Communications Equipment Co., Ltd.	(31) 201811028379
(32) 14.05.2015	(72) WANG, Lei PAN, Xueming	(32) 04.09.2018
(33) United States of America	(31) 201710314161	(33) China
(51) H04W 72/04	(32) 05.05.2017	(51) H04W 72/04
(11) EP3618538	(33) China	H04W 72/12
(21) EP18794496.2	(51) H04W 72/04	H04L 5/00
(47) 01.11.2023	H04L 5/00	(11) EP3989661
(87) JP2018008421	H04W 72/23	(21) EP20878648.3
08.11.2018	H04W 74/08	(47) 01.11.2023
(22) 05.03.2018	(11) EP3799498	(87) KR2020012044
(54) COMMUNICATION APPARATUS AND COMMUNICATION METHOD	(21) EP19823275.3	29.04.2021
(73) Sony Group Corporation	(47) 01.11.2023	(22) 07.09.2020
(72) MORIOKA, Yuichi	(87) CN2019089384	(54) METHOD AND DEVICE FOR TRANSMITTING AND RECEIVING SIGNAL IN WIRELESS COMMUNICATION SYSTEM
(31) 2017091724	26.12.2019	(73) LG Electronics Inc.
(32) 02.05.2017	(22) 30.05.2019	(72) SHIN, Seokmin
(33) Japan	(54) COMMAND PROCESSING METHOD AND TERMINAL DEVICE	YANG, Suckchel
(51) H04W 72/04	(73) Vivo Mobile Communication Co., Ltd.	KIM, Seonwook
H04L 5/00	(72) ZHOU, Jianping	AHN, Joonkui
(11) EP3826402	YANG, Xiaodong	(31) 20200056033
(21) EP19848762.1	CHEN, Li	20200017358
(47) 01.11.2023	(31) 201810654978	20190142857
(87) CN2019099401	(32) 22.06.2018	20190130809
13.02.2020	(33) China	202063032718 P
(22) 06.08.2019	(51) H04W 72/04	202063015662 P
(54) METHOD FOR CONFIGURING TIME DOMAIN RESOURCES	H04L 5/06	202063015459 P
(73) Huawei Technologies Co., Ltd.	H04L 27/26	201962938928 P
(72) WANG, Ting	H04W 74/08	201962937753 P
WANG, Yi	(11) EP3799702	201962937122 P
SHEN, Zukang	(21) EP19930174.8	(32) 11.05.2020
TANG, Zhenfei	(47) 01.11.2023	13.02.2020
(31) 201810908394	(87) CN2019092934	08.11.2019
(32) 10.08.2018	30.12.2020	21.10.2019
(33) China	(22) 26.06.2019	31.05.2020
(51) H04W 72/04	(54) GENERATING A SCRAMBLED PAYLOAD USING AN INITIALIZATION SCRAMBLING SEQUENCE	26.04.2020
H04L 5/00	(73) ZTE Corporation	24.04.2020
(11) EP3413654	(72) DAI, Jianqiang	21.11.2019
(21) EP17747022.6	HU, Yuzhou	19.11.2019
(47) 01.11.2023	ZHANG, Junfeng	18.11.2019
(87) CN2017072962	TIAN, Li	(33) Korea (Republic)
10.08.2017	(51) H04W 72/04	Korea (Republic)
(22) 06.02.2017	H04W 28/16	Korea (Republic)
(54) METHOD AND DEVICE FOR TRANSMITTING INFORMATION	H04L 1/00	Korea (Republic)
(73) ZTE Corporation	H04W 76/11	United States of America
(72) ZHANG, Wen	H04W 76/15	United States of America
DAI, Bo	H04W 28/02	United States of America
XIA, Shuqiang	(11) EP3833138	United States of America
FANG, Huiying	(21) EP19858120.9	United States of America
(31) 201610089499	(47) 01.11.2023	United States of America
201610082888	(87) CN2019102845	(51) H04W 72/04
(32) 17.02.2016	12.03.2020	H04W 72/12
05.02.2016	(22) 27.08.2019	H04W 4/40
(33) China	(54) USER INTERFACE DISPLAY CONTROL METHOD AND APPARATUS, AND COMPUTER READABLE STORAGE MEDIUM	H04W 4/46
China	(47) 01.11.2023	H04W 4/44
(51) H04W 72/04	(87) CN2019087421	(11) EP3873153
H04L 5/00	14.05.2020	(21) EP19882901.2
H04L 1/00	(22) 17.05.2019	
(11) EP3621381		
(21) EP18794341.0		

(54) METHOD FOR TRANSMITTING SIDELINK DATA, AND TERMINAL DEVICE	XU, Jing (51) H04W 72/12 H04L 5/00	23.06.2022 (22) 20.12.2021 (54) SCHEDULING ADAPTATION AND BROADCAST SERVICES
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(11) EP3522651 (21) EP17854381.5 (47) 01.11.2023 (87) CN2017078208	(73) Ofinno, LLC (72) ZHOU, Hua DINAN, Esmael Hejazi YI, Yunjung CIRIK, Ali Cagatay PARK, Jonghyun JEON, Hyoungsup CHAE, Hyukjin XU, Kai
(72) ZHAO, Zhenshan LU, Qianxi LIN, Hwei-Ming	(21) EP17854381.5 (47) 01.11.2023 (87) CN2017078208	(73) Ofinno, LLC (72) ZHOU, Hua DINAN, Esmael Hejazi YI, Yunjung CIRIK, Ali Cagatay PARK, Jonghyun JEON, Hyoungsup CHAE, Hyukjin XU, Kai
(31) PCT/CN2018/114657 (32) 08.11.2018 (33) World Intellectual Property Office (WIPO)	(22) 24.03.2017 (54) SIGNAL TRANSMISSION METHOD AND DEVICE	(73) Ofinno, LLC (72) ZHOU, Hua DINAN, Esmael Hejazi YI, Yunjung CIRIK, Ali Cagatay PARK, Jonghyun JEON, Hyoungsup CHAE, Hyukjin XU, Kai
(51) H04W 72/04 H04W 74/00 H04W 74/08 H04L 1/18	(73) ZTE Corporation (72) ZHANG, Shujuan LU, Zhaohua GONG, Yuhong WANG, Xiaopeng MEI, Meng	(31) 202063127204 P (32) 18.12.2020 (33) United States of America
(11) EP3804434 (21) EP19863438.8 (47) 01.11.2023 (87) KR2019012298 26.03.2020 (22) 20.09.2019	(31) 201610878700 (32) 30.09.2016 (33) China	(51) H04W 72/1268 H04L 1/08 H04L 5/00 H04W 72/23
(54) METHOD AND APPARATUS FOR TRANSMITTING/RECEIVING CONTROL INFORMATION IN WIRELESS COMMUNICATION SYSTEM	(51) H04W 72/12 H04W 72/04 H04L 5/00 H04W 76/28 H04W 76/15	(11) EP3691375 (21) EP18862411.8 (47) 01.11.2023 (87) CN2018106735 04.04.2019 (22) 20.09.2018 (54) WIRELESS COMMUNICATION METHOD AND DEVICE
(73) Samsung Electronics Co., Ltd.	(11) EP4027733 (21) EP20875730.2 (47) 01.11.2023 (87) KR2020011690 22.04.2021 (22) 01.09.2020 (54) DISCONTINUOUS RECEPTION OPERATION METHOD	(73) Sharp Kabushiki Kaisha FG Innovation Company Limited (72) LUO, Chao LIU, Renmao (31) 201710915127 (32) 29.09.2017 (33) China
(72) OH, Jinyoung KIM, Taehyoung RYU, Hyunseok PARK, Sungjin BANG, Jonghyun YEO, Jeongho	(11) EP4027733 (21) EP20875730.2 (47) 01.11.2023 (87) KR2020011690 22.04.2021 (22) 01.09.2020 (54) DISCONTINUOUS RECEPTION OPERATION METHOD	(73) Sharp Kabushiki Kaisha FG Innovation Company Limited (72) LUO, Chao LIU, Renmao (31) 201710915127 (32) 29.09.2017 (33) China
(31) 20190035845 20180114172 (32) 28.03.2019 21.09.2018 (33) Korea (Republic) Korea (Republic)	(31) 201610878700 (32) 30.09.2016 (33) China	(51) H04W 72/1268 H04L 1/1829 H04L 1/1607 H04W 72/21
(51) H04W 72/0446 H04W 72/23	(31) 20190141053 20190129268 201962932604 P (32) 06.11.2019 17.10.2019 08.11.2019 (33) Korea (Republic) Korea (Republic) United States of America	(11) EP3740021 (21) EP19738411.8 (47) 01.11.2023 (87) CN2019071422 18.07.2019 (22) 11.01.2019 (54) UPLINK CONTROL INFORMATION TRANSMISSION METHOD AND DEVICE
(11) EP3320731 (21) EP15901205.3 (47) 01.11.2023 (87) CN2015086925 23.02.2017 (22) 14.08.2015	(32) 06.11.2019 17.10.2019 08.11.2019 (33) Korea (Republic) Korea (Republic) United States of America	(11) EP3740021 (21) EP19738411.8 (47) 01.11.2023 (87) CN2019071422 18.07.2019 (22) 11.01.2019 (54) UPLINK CONTROL INFORMATION TRANSMISSION METHOD AND DEVICE
(54) FLEXIBLE UPLINK/DOWNLINK TRANSMISSIONS IN A WIRELESS COMMUNICATION SYSTEM	(51) H04W 72/12 H04W 74/00 H04W 74/08	(73) China Academy Of Information And Communications (72) DU, Ying (31) 201810031117 (32) 12.01.2018 (33) China
(73) Lenovo Innovations Limited (Hong Kong)	(11) EP4044735 (21) EP19951627.9 (47) 01.11.2023 (87) CN2019116827 14.05.2021 (22) 08.11.2019 (54) INFORMATION TRANSMISSION METHOD, RELATED DEVICE, AND STORAGE MEDIUM	(72) DU, Ying (31) 201810031117 (32) 12.01.2018 (33) China
(72) LEI, Haipeng	(11) EP4044735 (21) EP19951627.9 (47) 01.11.2023 (87) CN2019116827 14.05.2021 (22) 08.11.2019 (54) INFORMATION TRANSMISSION METHOD, RELATED DEVICE, AND STORAGE MEDIUM	(72) DU, Ying (31) 201810031117 (32) 12.01.2018 (33) China
(51) H04W 72/0446 H04W 72/23 H04L 5/00	(11) EP4044735 (21) EP19951627.9 (47) 01.11.2023 (87) CN2019116827 14.05.2021 (22) 08.11.2019 (54) INFORMATION TRANSMISSION METHOD, RELATED DEVICE, AND STORAGE MEDIUM	(72) DU, Ying (31) 201810031117 (32) 12.01.2018 (33) China
(11) EP3869880 (21) EP18938818.4 (47) 01.11.2023 (87) CN2018113587 07.05.2020 (22) 02.11.2018	(11) EP4044735 (21) EP19951627.9 (47) 01.11.2023 (87) CN2019116827 14.05.2021 (22) 08.11.2019 (54) INFORMATION TRANSMISSION METHOD, RELATED DEVICE, AND STORAGE MEDIUM	(72) DU, Ying (31) 201810031117 (32) 12.01.2018 (33) China
(54) PHYSICAL UPLINK CONTROL CHANNEL (PUCCH) RESOURCE SET CONFIGURATION AND STARTING SYMBOL DETERMINATION METHOD AND DEVICE	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. (72) ZHANG, Zhi	(51) H04W 72/20 H04W 24/10 H04J 11/00 H04L 5/00 H04L 5/14 H04L 27/26 H04B 17/345 H04W 48/12
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(51) H04W 72/121 (11) EP4201142 (21) EP21844875.1 (47) 01.11.2023 (87) US2020012515	(11) EP3909370 (21) EP20703338.2 (47) 01.11.2023 (87) US2020012515 16.07.2020
(72) SHEN, Jia	(87) US2021064450	

(22) 07.01.2020	SUNDBERG, Marten	(21) EP19829062.9
(54) CROSS-LINK INTERFERENCE MEASUREMENT TRANSMISSION SCHEMES	(31) 201762521183 P	(47) 01.11.2023
(73) QUALCOMM Incorporated	(32) 16.06.2017	(87) EP2019085121
(72) XU, Huilin	(33) United States of America	02.07.2020
Ji, Tingfang	(51) H04W 72/23	(22) 13.12.2019
MANOLAKOS, Alexandros	H04W 72/0446	(54) METHODS, BASE STATION AND
CHEN, Wanshi	(11) EP3777353	TERMINAL DEVICE FOR TWO-STEP
(31) 20190100019	(21) EP19799003.9	RANDOM ACCESS PROCEDURE
202016735051	(47) 01.11.2023	(73) Telefonaktiebolaget LM Ericsson (publ)
(32) 11.01.2019	(87) CN2019082915	(72) LIN, Zhipeng
06.01.2020	14.11.2019	HARRISON, Robert Mark
(33) Greece	(22) 16.04.2019	GRÖVLEN, Asbjörn
United States of America	(54) METHODS FOR RESOURCE	(31) PCT/CN2018/125733
(51) H04W 72/21	SCHEDULING, NETWORK NODE AND	(32) 29.12.2018
H04W 76/28	USER EQUIPMENT	(33) World Intellectual Property Office (WIPO)
H04L 5/00	(73) GUANGDONG OPPO MOBILE	(51) H04W 74/00
(11) EP3852468	TELECOMMUNICATIONS CORP., LTD.	H04W 72/23
(21) EP21160396.4	(72) YANG, Ning	H04W 84/12
(47) 01.11.2023	LIU, Jianhua	H04L 1/1607
(22) 04.12.2013	(31) 201862667502 P	(11) EP3883324
(54) DETERMINISTIC UE BEHAVIOUR FOR	(32) 05.05.2018	(21) EP21164121.2
CSI/SRS REPORTING DURING DRX	(33) United States of America	(47) 01.11.2023
(73) Sun Patent Trust	(51) H04W 72/51	(22) 29.08.2016
(72) LÖHR, Joachim	H04W 16/12	(54) DATA TRANSMISSION METHODS
SUZUKI, Hidetoshi	H04W 48/08	(73) ZTE Corporation
BASU MALLICK, Prateek	H04W 72/02	(72) LI, Nan
(31) 13160199	H04W 84/08	LV, Kaiying
(32) 20.03.2013	(11) EP2475185	XING, Weimin
(33) European Patent Office (EPO)	(21) EP10813363.8	HAN, Zhiqiang
(51) H04W 72/23	(47) 01.11.2023	SUN, Bo
H04W 36/08	(87) CN2010076629	(31) 201510658707
H04W 72/40	10.03.2011	201510545945
(11) EP3095287	(22) 03.09.2010	(32) 12.10.2015
(21) EP15737624.5	(54) METHOD FOR DISTRIBUTING	31.08.2015
(47) 01.11.2023	CHANNELS FOR INTERPHONE,	(33) China
(87) KR2015000516	SYSTEM AND RADIO	China
23.07.2015	(73) Hytera Communications Corp., Ltd.	(51) H04W 74/00
(22) 19.01.2015	(72) YIN, Ruihua	H04W 74/08
(54) DEVICE TO DEVICE COMMUNICATION	YU, Bingyan	(11) EP3927084
METHOD AND APPARATUS	JIANG, Xiongbiao	(21) EP21189498.5
(73) Samsung Electronics Co., Ltd.	(31) 200910189874	(47) 01.11.2023
(72) AGIWAL, Anil	(32) 04.09.2009	(22) 24.09.2012
CHANG, Young-Bin	(33) China	(54) SYSTEM ACCESS METHOD AND
(31) 338KO2014	(51) H04W 72/543	APPARATUS OF A NARROWBAND
75KO2014	H04W 72/0453	TERMINAL IN A WIRELESS
(32) 18.03.2014	H04W 16/14	COMMUNICATION SYSTEM
17.01.2014	(11) EP2898719	SUPPORTING WIDEBAND AND
(33) India	(21) EP13771700.5	NARROWBAND TERMINALS
India	(47) 01.11.2023	(73) Samsung Electronics Co., Ltd.
(51) H04W 72/23	(87) US2013060521	(72) KIM, Youngbum
H04W 72/0446	27.03.2014	LEE, Ju Ho
(11) EP3639591	(22) 19.09.2013	CHO, Joon Young
(21) EP18746277.5	(54) METHODS AND APPARATUS FOR	(31) 20110096206
(47) 01.11.2023	SHARED ACCESS SYSTEM	(32) 23.09.2011
(87) IB2018054441	(73) InterDigital Patent Holdings, Inc.	(33) Korea (Republic)
20.12.2018	(72) GAUVREAU, Jean-louis	(51) H04W 74/00
(22) 15.06.2018	DI GIROLAMO, Rocco	H04W 74/08
(54) SYSTEM AND METHODS FOR	TOUAG, Athmane	(11) EP3925371
CONFIGURING USER EQUIPMENTS	FREDA, Martino	(21) EP20755814.9
WITH OVERLAPPING PUCCH	BELURI, Mihaela, C.	(47) 01.11.2023
RESOURCES FOR TRANSMITTING	(31) 201361816486 P	(87) CN2020075070
SCHEDULING REQUESTS	201261703048 P	20.08.2020
(73) Telefonaktiebolaget LM Ericsson (publ)	(32) 26.04.2013	(22) 13.02.2020
(72) ZOU, Zhenhua	19.09.2012	(54) SYSTEM AND METHOD FOR
KITTICHOKECHAI, Kittipong	(33) United States of America	PRIORITIZATION OF RANDOM
WIKSTRÖM, Gustav	United States of America	ACCESS PROCEDURES
	(51) H04W 74/00	(73) QUALCOMM INCORPORATED
	(11) EP3903536	(72) HE, Linhai

ZHENG, Ruiming	(32) 17.03.2015	United States of America
LEI, Jing	(33) United States of America	(51) H04W 74/08
(31) PCT/CN2019/075028	(51) H04W 74/08	H04W 74/00
(32) 14.02.2019	H04W 52/02	H04B 17/318
(33) World Intellectual Property Office (WIPO)	H04W 4/70	H04W 52/50
(51) H04W 74/06	(11) EP3281483	H04W 52/36
H04W 68/02	(21) EP16713680.3	(11) EP3841824
H04W 56/00	(47) 01.11.2023	(21) EP19863947.8
(11) EP3689084	(87) US2016022337	(47) 01.11.2023
(21) EP17926429.6	13.10.2016	(87) KR2019012360
(47) 01.11.2023	(22) 14.03.2016	26.03.2020
(87) CN2017103750	(54) IOE DEVICE TRANSMISSION	(22) 23.09.2019
04.04.2019	SIGNALING AND SCHEDULING	(54) METHOD AND APPARATUS FOR
(22) 27.09.2017	(73) QUALCOMM Incorporated	PERFORMING TWO STEP OR FOUR
(54) NETWORK-INITIATED UPLINK SMALL	(72) GUPTA, Piyush	STEP RANDOM ACCESS PROCEDURE
DATA TRANSMISSION FOR NB IOT	LI, Junyi	(73) Samsung Electronics Co., Ltd.
(73) Nokia Technologies Oy	(31) 201514684191	(72) AGIWAL, Anil
(72) SELVAGANAPATHY, Srinivasan	(32) 10.04.2015	JANG, Jaehyuk
LI, Haitao	(33) United States of America	(31) 201862734540 P
(51) H04W 74/08	(51) H04W 74/08	(32) 21.09.2018
(11) EP3876651	H04W 56/00	(33) United States of America
(21) EP18938572.7	(11) EP4009730	(51) H04W 74/08
(47) 01.11.2023	(21) EP22153157.7	H04W 84/12
(87) CN2018113410	(47) 01.11.2023	H04W 16/14
07.05.2020	(22) 04.09.2018	(11) EP3313140
(22) 01.11.2018	(54) CONFIGURING RANDOM ACCESS	(21) EP15898738.8
(54) CONTENTION RANDOM ACCESS	CHANNELS FOR WIRELESS	(47) 01.11.2023
METHOD AND DEVICE	COMMUNICATIONS	(87) CN2015089002
(73) Beijing Xiaomi Mobile Software Co., Ltd.	(73) Telefonaktiebolaget LM Ericsson (publ)	26.01.2017
(72) HONG, Wei	(72) AXNÄS, Johan	(22) 06.09.2015
(51) H04W 74/08	SAHLIN, Henrik	(54) METHOD FOR SETTING NAV IN
(11) EP3858076	(31) 201762567168 P	WIRELESS COMMUNICATION
(21) EP19780032.9	(32) 02.10.2017	SYSTEM, AND RELATED DEVICE
(47) 01.11.2023	(33) United States of America	(73) Huawei Technologies Co., Ltd.
(87) IB2019058189	(51) H04W 74/08	(72) LUO, Jun
02.04.2020	H04W 56/00	MA, Chixiang
(22) 26.09.2019	(11) EP4007428	PANG, Jiyong
(54) EARLY DATA DELIVERY FOR RANDOM	(21) EP19939132.7	LOC, Peter
ACCESS PROCEDURE	(47) 01.11.2023	(31) PCT/CN2015/084363
(73) Telefonaktiebolaget LM Ericsson (publ)	(87) CN2019098746	(32) 17.07.2015
(72) PHAM VAN, Dung	04.02.2021	(33) World Intellectual Property Office (WIPO)
STATTIN, Magnus	(22) 31.07.2019	(51) H04W 76/10
(31) 201862736911 P	(54) RANDOM ACCESS METHOD, DEVICE,	(11) EP3949339
(32) 26.09.2018	AND MEDIUM	(21) EP19716104.5
(33) United States of America	(73) Beijing Xiaomi Mobile Software Co., Ltd.	(47) 01.11.2023
(51) H04W 74/08	(72) LIU, Yang	(87) EP2019058136
H04L 5/00	(51) H04W 74/08	08.10.2020
H04L 1/1867	H04W 72/02	(22) 01.04.2019
H04W 16/14	(11) EP3352522	(54) REQUESTING DATA CONNECTION
H04L 27/00	(21) EP16846794.2	FOR UAV OPERATION
H04L 1/00	(47) 01.11.2023	(73) Lenovo (Singapore) Pte. Ltd.
(11) EP3860299	(87) KR2016010036	(72) SALKINTZIS, Apostolis
(21) EP21165326.6	23.03.2017	VELEV, Genadi
(47) 01.11.2023	(22) 07.09.2016	KARAMPATIS, Dimitrios
(22) 22.01.2016	(54) METHOD AND DEVICE FOR	(51) H04W 76/12
(54) A COMMUNICATION DEVICE	PERFORMING LBT PROCESS ON	H04L 9/40
AND A METHOD THEREIN FOR	MULTIPLE CARRIERS IN WIRELESS	H04W 12/041
DETERMINING A CONTENTION	ACCESS SYSTEM SUPPORTING	H04W 12/06
WINDOW SIZE IN A COMMUNICATION	UNLICENSED BAND	H04W 84/04
NETWORK	(73) LG Electronics Inc.	H04W 84/12
(73) Telefonaktiebolaget LM Ericsson (publ)	(72) KIM, Seonwook	H04W 88/16
(72) CHENG, Jung-Fu	AHN, Joonkui	H04W 60/00
KOORAPATY, Havish	PARK, Hanjun	(11) EP3858083
CHEN LARSSON, Daniel	(31) 201662370248 P	(21) EP18779636.2
FALAHATI, Sorour	201562220231 P	(47) 01.11.2023
KANG, Du Ho	(32) 03.08.2016	(87) EP2018076246
MUKHEJEE, Amithav	17.09.2015	02.04.2020
(31) 201562134340 P	(33) United States of America	(22) 27.09.2018

(54) ACCESSING A 5G NETWORK VIA A NON-3GPP ACCESS NETWORK	H04W 60/06	JUSUFOVIC, Marko
(73) Lenovo (Singapore) Pte. Ltd.	H04W 8/02	LINKOVA, Darja
(72) SALKINTZIS, Apostolis	H04W 40/36	(31) 201962815460 P
(51) H04W 76/14	H04W 76/34	(32) 08.03.2019
H04W 72/542	H04W 88/06	(33) United States of America
H04W 16/14	(11) EP3888386	(51) H04W 80/06
(11) EP3682697	(21) EP20754905.6	(11) EP3949680
(21) EP18760231.3	(47) 01.11.2023	(21) EP19720704.6
(47) 01.11.2023	(87) KR2020002132	(47) 01.11.2023
(87) US2018046614	20.08.2020	(87) SE2019050292
21.03.2019	(22) 14.02.2020	08.10.2020
(22) 14.08.2018	(54) METHOD AND UE FOR HANDLING UL	(22) 01.04.2019
(54) SYSTEM AND METHOD FOR COMMUNICATION ON LICENSED COMMUNICATION SPECTRUM AND UNLICENSED COMMUNICATION SPECTRUM	NAS TRANSPORT MESSAGE FAILURE IN WIRELESS COMMUNICATION NETWORK	(54) METHODS AND ARRANGEMENTS FOR MANAGING ROUND TRIP TIME ASSOCIATED WITH PROVISION OF A DATA FLOW VIA A MULTI-ACCESS COMMUNICATION NETWORK
(73) Qualcomm Incorporated	(73) Samsung Electronics Co., Ltd.	(73) TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
(72) LI, Chong	(72) KUMAR, Lalith	(72) NAZARI, Ala
HAMPEL, Karl Georg	MADHURAPANTULA, Shweta	ORRE, John
LI, Junyi	SHAH, Nitesh Pushpak	IHLAR, Marcus
(31) 201715704754	(31) 201941006133	SKOG, Robert
(32) 14.09.2017	202042006264	
(33) United States of America	201941006133	
(51) H04W 76/15	(32) 11.02.2020	(51) H04W 88/04
(11) EP3860012	15.02.2019	H04L 25/02
(21) EP19864977.4	15.02.2019	H04L 25/03
(47) 01.11.2023	(33) India	(11) EP3576489
(87) CN2019101667	India	(21) EP19187875.0
02.04.2020	India	(47) 01.11.2023
(22) 21.08.2019	(51) H04W 76/30	(22) 21.08.2015
(54) DATA TRANSMISSION METHOD, RELATED APPARATUS, AND SYSTEM	H04W 76/27	(54) SIGNAL PROCESSING ASSOCIATED TO A SUDAC
(73) Tencent Technology (Shenzhen) Company Limited	H04L 1/18	(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
(72) ZHANG, Dan	H04W 4/70	(72) BREILING, Marco
NING, Binhui	(11) EP3616464	BURKHARDT, Frank
MENG, Xing	(21) EP18790132.7	ROHDE, Christian
(31) 201811160606	(47) 01.11.2023	NG, Wing Kwan
(32) 30.09.2018	(87) CN2018080191	SCHOBBER, Robert
(33) China	01.11.2018	(31) 14198339
(51) H04W 76/16	(22) 23.03.2018	14182552
H04W 12/041	(54) ENHANCED MACHINE TYPE COMMUNICATIONS QUICK IDLE TRANSITION AFTER CONNECTION RELEASE	(32) 16.12.2014
H04W 12/106	(73) QUALCOMM Incorporated	27.08.2014
H04W 12/037	(72) IYER, Ashish Shankar	(33) European Patent Office (EPO)
(11) EP3897067	HANDA, Omesh Kumar	European Patent Office (EPO)
(21) EP19901274.1	HSU, Chun-Hao	(51) H04W 88/08
(47) 01.11.2023	PANT, Nitin	H04J 3/14
(87) CN2019109624	RAJAGOPALAN, Srinivasan	(11) EP3552355
25.06.2020	HSU, Liangchi	(21) EP17822559.5
(22) 30.09.2019	LIU, Feilu	(47) 01.11.2023
(54) ANCHOR POINT DETERMINATION METHOD AND SYSTEM FOR SUPPORTING DUAL CONNECTIVITY, COMMUNICATION DEVICE, AND COMPUTER READABLE MEDIUM	DHANAPAL, Muthukumaran	(87) EP2017081213
(73) ZTE Corporation	RICO ALVARINO, Alberto	14.06.2018
(72) WANG, Zhuanli	DANG, Zhibin	(22) 01.12.2017
HUANG, Xueying	(31) PCT/CN2017/081949	(54) METHOD AND APPARATUS FOR LATENCY MONITORING
DU, Gaopeng	(32) 26.04.2017	(73) Telefonaktiebolaget LM Ericsson (publ)
SI, Wei	(33) World Intellectual Property Office (WIPO)	(72) RUFFINI, Stefano
(31) 201811555375	(51) H04W 76/32	STRACCA, Stefano
(32) 19.12.2018	(11) EP3837920	(31) 201662430607 P
(33) China	(21) EP19918843.4	(32) 06.12.2016
(51) H04W 76/19	(47) 01.11.2023	(33) United States of America
H04W 60/00	(87) SE2019050905	
H04W 60/04	17.09.2020	(51) H04W 88/16
	(22) 23.09.2019	H04W 4/80
	(54) BEARER CONNECTION HANDLING OF A COMMUNICATIONS NETWORK	H04W 8/00
	(73) Telefonaktiebolaget LM Ericsson (publ)	H04W 84/18
	(72) FORSMAN, Thomas	H04W 12/50
	JANSSON, Göran	(11) EP3437341
		(21) EP17776308.3

(47) 01.11.2023	(73) VMR Products, LLC	F21Y 113/13
(87) US2017023290 05.10.2017	(72) Verleur, Jan Andries Recio, Dan	(11) EP3684144 (21) EP19194428.9
(22) 21.03.2017	Lu, Yifeng	(47) 01.11.2023
(54) NFC ENABLED WIRELESS PROCESS COMMUNICATION GATEWAY	Fajardo, Arturo	(22) 29.08.2019
(73) Rosemount Inc.	(31) 201462038785 P	(54) LED LIGHT APPARATUS WITH ADJUSTABLE CHARACTERISTIC
(72) SANDOVAL-CASTILLO, Virgilio	201461987196 P	(73) Xiamen Eco Lighting Co., Ltd.
KRAUSE, Jason	(32) 18.08.2014	(72) CHEN, Yanbiao
(31) 201615087133	01.05.2014	JIANG, Hongkui
(32) 31.03.2016	(33) United States of America United States of America	LIU, Wei
(33) United States of America	(51) H05B 6/06	WANG, Qiyuan
(51) H05B 1/02	(11) EP3927114	(31) 201962793847 P
(11) EP3482603	(21) EP19914894.1	(32) 17.01.2019
(21) EP17740257.5	(47) 01.11.2023	(33) United States of America
(47) 01.11.2023	(87) JP2019005547	(51) H05B 45/24
(87) US2017041056 11.01.2018	20.08.2020	(11) EP3915339
(22) 07.07.2017	(22) 15.02.2019	(21) EP20744582.6
(54) HEATER BUNDLE FOR ADAPTIVE CONTROL AND METHOD OF REDUCING CURRENT LEAKAGE	(54) INDUCTION HEATING COOKER (73) MITSUBISHI ELECTRIC CORPORATION	(47) 01.11.2023 (87) IB2020050319 30.07.2020
(73) Watlow Electric Manufacturing Company	(72) SUGA, Ikuro	(22) 16.01.2020
(72) EVERLY, Mark D.	BUNYA, Jun	(54) BIO-DIMMING LIGHTING SYSTEM
RUHR, Michael W.	(51) H05B 6/06	(73) Biological Innovation and Optimization Systems, LLC
STEINHAUSER, Louis P.	H05B 6/10	(72) SOLER, Robert
HOVEN, Mark L.	A24F 40/57	SCHAFER, Eric
WILLIAMS, Richard T.	A24F 40/50	GOYANKA, Abhishek
(31) 201615204672	A24F 40/90	(31) 201916543232
(32) 07.07.2016	(11) EP3818854	201916257970
(33) United States of America	(21) EP20816076.2	(32) 16.08.2019
(51) H05B 1/02	(47) 01.11.2023	25.01.2019
B62D 1/06	(87) KR2020006583	(33) United States of America United States of America
H03K 17/955	24.12.2020	(51) H05B 45/33
H03K 17/96	(22) 20.05.2020	H05B 45/335
(11) EP4049510	(54) AEROSOL PRODUCING DEVICE AND METHOD FOR OPERATING SAME	(11) EP3920665
(21) EP20792382.2	(73) KT&G Corporation	(21) EP21175615.0
(47) 01.11.2023	(72) LEE, Jae Min	(47) 01.11.2023
(87) EP2020078818 29.04.2021	PARK, Sang Kyu	(22) 25.05.2021
(22) 14.10.2020	(31) 20190072425	(54) A METHOD OF DRIVING LIGHT SOURCES, AND CORRESPONDING DEVICE AND SYSTEM
(54) COMBINED CAPACITIVE SENSOR AND HEATING APPARATUS, METHOD FOR OPERATING A SENSOR AND HEATING APPARATUS, STEERING INPUT APPARATUS ASSEMBLY HAVING A SENSOR AND HEATING APPARATUS, AND VEHICLE HAVING A STEERING INPUT APPARATUS ASSEMBLY	(32) 18.06.2019	(73) Inventronics GmbH
(73) Valeo Schalter und Sensoren GmbH	(33) Korea (Republic)	(72) ANGELIN, Mr. Francesco
(72) STAUDE, Sascha	(51) H05B 6/70	GRIFFONI, Mr. Alessio
POSLOWSKY, Georg	H01R 24/38	(31) 202000013171
TSINISTIDIS, Iordanis	H05B 6/66	(32) 03.06.2020
HARTMUELLER, Markus	(11) EP3852495	(33) Italy
MACK, Raphael	(21) EP19859728.8	(51) H05B 45/50
(31) 102019128887	(47) 01.11.2023	(11) EP3552296
(32) 25.10.2019	(87) JP2019035646	(21) EP17825758.0
(33) Germany	19.03.2020	(47) 01.11.2023
(51) H05B 3/46	(72) FUKUI, Mikio	(87) EP2017081527 14.06.2018
A61M 15/06	UNO, Takashi	(22) 05.12.2017
A24F 40/42	OGASAWARA, Fumitaka	(54) METHOD FOR IDENTIFYING THE TYPE OF SUPPLY VOLTAGE SUPPLIED TO AN OPERATING DEVICE FOR LIGHTING MEANS
A24F 40/485	IWATA, Motoyoshi	(73) Tridonic GmbH & Co KG
A61M 11/04	TAKANO, Shinji	(72) SANDHOLZER, Markus
(11) EP3897073	HOSOKAWA, Daisuke	GÓMEZ, Juan, Moris
(21) EP21178682.7	HIRAMOTO, Masayoshi	SZYLER, Blazej
(47) 01.11.2023	(31) 2018172001	(31) 23217 U
(22) 01.05.2015	(32) 14.09.2018	102016224349
(54) VAPORIZER	(33) Japan	(32) 23.10.2017
	(51) H05B 45/00	07.12.2016
	H05B 45/20	
	F21K 9/232	
	F21Y 107/50	



(33) Austria Germany	(51) H05K 1/02 G05B 19/042 G06F 30/34 G06F 30/39	(33) United States of America
(51) H05B 45/56 H05B 45/52	(11) EP3036979	(51) H05K 7/14 A47B 88/40 F21V 23/06
(11) EP3691414	(21) EP14783762.9	(11) EP3772245
(21) EP19382064.4	(47) 01.11.2023	(21) EP20167842.2
(47) 01.11.2023	(87) DE2014000430	(47) 01.11.2023
(22) 31.01.2019	26.02.2015	(22) 02.04.2020
(54) AUTOMOTIVE LIGHTING DEVICE AND METHOD	(22) 21.08.2014	(54) TELESCOPIC POWER SUPPLY TRACK
(73) VALEO ILUMINACION	(54) INTELLIGENT PERIPHERAL COUPLING ASSEMBLY AND COMPUTER-ASSISTED METHOD FOR CREATION OR PRODUCTION THEREOF AND COMPUTER-ASSISTED METHOD FOR CONFIGURATION OF A DATA NETWORK-BASED SYSTEM FOR CONTROLLING AND/OR REGULATING AND/OR MONITORING AT LEAST ONE PERIPHERAL DEVICE BY MEANS OF DATA TRANSFER BETWEEN PARTICIPANTS IN A DATA NE	(73) Self Electronics Co., Ltd. SELF ELECTRONICS Germany GmbH Lin, Wanjiang
(72) MARTINEZ-PEREZ, Jose-Ramon LOPEZ, Jose-Luis SANTAELLA, Juan-Jose	(73) Anedo GmbH	(72) XU, Le
(51) H05B 47/11 H05B 45/20	(72) MÖLLER, Andreas (31) 102013013811 (32) 22.08.2013	(31) 201910696178 (32) 30.07.2019
(11) EP3771295	(33) Germany	(33) China
(21) EP20187442.7	(51) H05K 5/02	(51) H05K 7/20
(47) 01.11.2023	(11) EP3883354	(11) EP3817530
(22) 23.07.2020	(21) EP21154551.2	(21) EP20202123.4
(54) LIGHT WITH LIGHT COLOUR CONTROL	(47) 01.11.2023	(47) 01.11.2023
(73) Trilux GmbH & Co. KG	(22) 01.02.2021	(22) 15.10.2020
(72) Schneider, Gerald Kirsch, Raphael Matthias Mattala, Thorsten Eversmeyer, Arno	(54) ELECTRONIC HOUSING WITH LEAK TEST OPENING AND SEALING PLUG	(54) ELECTRONIC ASSEMBLY HAVING SECTIONAL THERMAL MANAGEMENT
(31) 102019119986	(73) ebm-papst Mulfingen GmbH & Co. KG	(73) Deere & Company
(32) 24.07.2019	(72) FRIEDLEIN, Florian FRERICKS, Niclas	(72) SCHMIT, CHRISTOPHER J
(33) Germany	(31) 102020107247	(31) 201916706076 201962927993 P
(51) H05B 47/18 F21S 8/00 F21V 21/35 F21V 21/005 F21V 23/06 F21V 21/002 H01R 12/61 H01R 12/67 H01R 13/627	(32) 17.03.2020	(32) 06.12.2019 30.10.2019
(11) EP3883351	(33) Germany	(33) United States of America United States of America
(21) EP21161787.3	(51) H05K 7/00 G06F 1/16	(51) H05K 7/20
(47) 01.11.2023	(11) EP3718383	(11) EP3799704
(22) 10.03.2021	(21) EP17933720.9	(21) EP18746635.4
(54) ILLUMINATION SYSTEM	(47) 01.11.2023	(47) 01.11.2023
(73) Simes S.p.A.	(87) US2017063904	(87) EP2018069437 23.01.2020
(72) BOTTI, Roberto	06.06.2019	(22) 17.07.2018
(31) 202000005668	(22) 30.11.2017	(54) POWER SEMICONDUCTOR MODULE
(32) 17.03.2020	(54) VARIABLE TORQUE BARS	(73) Siemens Energy Global GmbH & Co. KG
(33) Italy	(73) Hewlett-Packard Development Company, L.P.	(72) VIETH, Michael
(51) H05H 1/46 H05H 1/24	(72) CHEN, Wei-Chung WU, Kuan-Ting LIN, Kun-Hung	(51) H10K 50/858 H10K 50/844 H10K 71/80 H10K 77/10 H10K 50/84
(11) EP3895506	(51) H05K 7/14	(11) EP3624207
(21) EP19816797.5	(11) EP3627981	(21) EP19195450.2
(47) 01.11.2023	(21) EP19190092.7	(47) 01.11.2023
(87) EP2019085082	(47) 01.11.2023	(22) 30.09.2014
18.06.2020	(22) 05.08.2019	(54) METHODS TO FABRICATE FLEXIBLE OLED LIGHTING DEVICES
(22) 13.12.2019	(54) HYPERSCALE PHOTONICS CONNECTIVITY SOLUTION	(73) Universal Display Corporation
(54) ELONGATED NON-THERMAL PLASMA REACTOR FOR OPTIMAL COUPLING TO PULSED POWER SUPPLY	(73) Hewlett Packard Enterprise Development LP	(72) MA, Ruiqing BROWN, Julia J.
(73) ABB Schweiz AG	(72) Morris, Terrel Berkram, Daniel Alan	(31) 201314042194 (32) 30.09.2013
(72) CARSTENSEN, Jan KASSUBEK, Frank GARYFALLOS, Angelos	(31) 201816057626	(33) United States of America
(31) 18212650	(32) 07.08.2018	(51) H10K 50/858 H10K 59/121
(32) 14.12.2018		(11) EP3764399
(33) European Patent Office (EPO)		(21) EP20181964.6 (47) 01.11.2023 (22) 24.06.2020
		(54) DISPLAY DEVICE AND DISPLAY SYSTEM
		(73) CANON KABUSHIKI KAISHA

- (72) MATSUDA, Yojiro  
TAKAHASHI, Hidekazu  
HARADA, Yoshihito  
(31) 2019130386  
(32) 12.07.2019  
(33) Japan
- 
- (51) H10K 59/131  
(11) EP3716338  
(21) EP20166020.6  
(47) 01.11.2023  
(22) 26.03.2020  
(54) DISPLAY MODULE  
(73) Samsung Display Co., Ltd.  
(72) SHIN, JaeMin  
KIM, Sangwoo  
LEE, Gyujeong  
JOO, Hyejin  
HONG, Jongho  
(31) 20190033977  
(32) 26.03.2019  
(33) Korea (Republic)
- 
- (51) H10K 59/80  
(11) EP3675198  
(21) EP19848090.7  
(47) 01.11.2023  
(87) CN2019084678  
13.02.2020  
(22) 26.04.2019  
(54) DISPLAY PANEL, DISPLAY SCREEN,  
AND DISPLAY TERMINAL  
(73) Yungu (Gu'an) Technology Co., Ltd.  
Suzhou QingYue Optoelectronics  
Technology Co., Ltd.  
Kunshan Go-Visionox Opto-Electronics  
Co., Ltd.  
(72) LOU, Junhui  
JI, Yanan  
AN, Leping  
XIE, Zhengfang  
SONG, Yanqin  
(31) 201810887668  
(32) 06.08.2018  
(33) China
- 
- (51) H10K 85/10  
C08G 61/12  
(11) EP3134458  
(21) EP11706378.4  
(47) 01.11.2023  
(87) US2011020227  
14.07.2011  
(22) 05.01.2011  
(54) PHOTOVOLTAIC CELL WITH  
BENZODITHIOPHENE-CONTAINING  
POLYMER  
(73) Raynergy Tek Inc.  
(72) BYRNE, Paul  
CHEON, Kap-Soo  
DENNLER, Gilles  
DROLET, Nicolas  
THOMPSON, Serge  
WALLER, David, P.  
WEN, Li  
(31) 292315 P  
(32) 05.01.2010  
(33) United States of America
- 
- (51) H10K 85/10  
C08G 61/12  
H10K 50/15
- (11) EP3201963  
(21) EP15782003.6  
(47) 01.11.2023  
(87) GB2015052832  
07.04.2016  
(22) 29.09.2015  
(54) ORGANIC LIGHT EMITTING DEVICE  
(73) Cambridge Display Technology Limited  
Sumitomo Chemical Company, Ltd.  
(72) KING, Simon  
ARCHER, Robert  
BOURGET, Florence  
WILSON, Richard  
(31) 201417253  
(32) 30.09.2014  
(33) United Kingdom
- 
- (51) H10K 85/50  
H10K 30/15  
H10K 71/12  
H10K 30/88  
(11) EP4002505  
(21) EP20207537.0  
(47) 01.11.2023  
(22) 13.11.2020  
(54) FUNCTIONALIZED IONIC LIQUIDS  
AS STABILIZERS FOR PEROVSKITE  
SOLAR CELLS  
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA  
(72) KINGE, Sachin  
FEI, Zhaofu  
DYSON, Paul J.  
KHAJA NAZEERUDDIN, Mohammad  
GAO, XiaoXin  
DING, Bin
- 
- (51) H10K 85/50  
H10K 30/40  
(11) EP3963643  
(21) EP20789707.5  
(47) 01.11.2023  
(87) RU2020050124  
24.12.2020  
(22) 16.06.2020  
(54) A METHOD FOR PRODUCING  
A SEMICONDUCTING FILM OF  
ORGANIC-INORGANIC METAL-HALIDE  
COMPOUND WITH PEROVSKITE-LIKE  
STRUCTURE  
(73) Joint Stock Company Krasnoyarsk  
Hydropower Plant (JSC Krasnoyarsk  
HPP)  
(72) FATEEV, Sergei Anatolyevich  
TARASOV, Alexey Borisovich  
BELICH, Nikolai Andreevich  
GRISHKO, Aleksey Iurievich  
SHLENSKAIA, Natalia Nikolaevna  
GOODILIN, Eugene Alekseevich  
PETROV, Andrey Andreevich  
(31) 2019119025  
(32) 19.06.2019  
(33) Russian Federation
- 
- (51) H10N 10/817  
H10N 10/17  
(11) EP3852158  
(21) EP19860837.4  
(47) 01.11.2023  
(87) KR2019011727  
19.03.2020  
(22) 10.09.2019
- (54) THERMOELECTRIC ELEMENT  
(73) LG Innotek Co., Ltd.  
(72) PARK, Jin Gyeong  
(31) 20180108436  
(32) 11.09.2018  
(33) Korea (Republic)
- 
- (51) H10N 30/06  
H10N 30/078  
H10N 30/00  
H10N 30/87  
(11) EP4094303  
(21) EP21700795.4  
(47) 01.11.2023  
(87) EP2021051495  
29.07.2021  
(22) 22.01.2021  
(54) PASSIVATED TRANSPARENT  
PIEZOELECTRIC DEVICE WITH  
HIGH TRANSPARENCY AND HIGH  
BREAKDOWN VOLTAGE  
(73) Luxembourg Institute of Science and  
Technology (LIST)  
(72) DEFAY, Emmanuel  
GIROD, Stéphanie  
GLINSEK, Sebastjan  
MAHJOUR, Aymen  
(31) 101605  
(32) 23.01.2020  
(33) Luxembourg
- 
- (51) H10N 30/857  
H10N 30/098  
H10N 30/077  
C08L 27/16  
C08J 5/18  
(11) EP3576171  
(21) EP18745394.9  
(47) 01.11.2023  
(87) JP2018000244  
02.08.2018  
(22) 10.01.2018  
(54) PIEZOELECTRIC FILM AND METHOD  
FOR PRODUCING SAME  
(73) Ideal Star Inc.  
(72) OMOTE, Kenji  
SAMEZAWA, Tsurugi  
OHIGASHI, Hiroji  
(31) 2017012557  
(32) 26.01.2017  
(33) Japan

## 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) A01H 5/12	(11) EP3482644	SIEJKO, Krzysztof, Z.
A01H 1/04	(21) EP17201686.7	(74) ir. H.J.G. Lips c.s.
C12N 15/82	(22) 14.11.2017	(31) 201662437876 P
(11) EP2773185	(54) TREATMENT DEVICE FOR HEAT	(32) 22.12.2016
(21) EP12778348.8	TREATMENT OF BOTH BREASTS OF A	(33) United States of America
(22) 26.10.2012	PATIENT	(47) 02.08.2023
(54) PERONOSPORA RESISTANCE IN	(73) Hilotherm Holding AG	(51) A61B 5/00
SPINACIA OLERACEA	(72) Stegmann, Christian	A61B 5/05
(73) Rijk Zwaan Zaadteelt en Zaadhandel B.V.	(74) mr. R. Zwamborn	C12M 1/00
(72) DEN BRABER, Jan Hugo	(47) 09.08.2023	C12M 1/40
(74) dr. ir. G.J.C. Verdijck c.s.	(51) A47J 31/06	C12M 1/42
(31) 11187288	A47J 31/36	C25B 9/00
(32) 31.10.2011	(11) EP3032989	G01N 27/26
(33) European Patent Office (EPO)	(21) EP14750490.6	G01N 33/52
(47) 19.07.2023	(22) 13.08.2014	G01N 33/49
(51) A01N 25/02	(54) CAPSULE MULTI-PIERCING	A61B 5/1486
C07C 231/02	(73) Soci�t� des Produits Nestl� S.A.	(11) EP3756537
C07C 235/74	(72) FLICK, Jean-Marc	(21) EP20190044.6
C08K 5/20	COLANTONIO, Jean-Luc	(22) 22.02.2006
C11D 7/50	(74) dr. R.C. van Duijvenbode c.s.	(54) ANALYTE SENSOR
(11) EP2252144	(31) 13180164	(73) DexCom, Inc.
(21) EP09704290.7	(32) 13.08.2013	(72) Brister, Mark
(22) 23.01.2009	(33) European Patent Office (EPO)	Masterson, Steve
(54) USE OF ESTER AMIDES AS	(47) 30.08.2023	Petisce, James R.
SOLVENTS, ESTER AMIDES AS SUCH,	(51) A61B 1/06	Dobbles, Michael
AND METHOD FOR PREPARING	A61B 1/07	Swanson, Vance
ESTER AMIDES	A61B 1/307	Nolting, John
(73) RHODIA OPERATIONS	A61B 1/12	Wightlin, Matthew D.
(72) JENTZER, Olivier	A61B 1/00	Saint, Sean
GUGLIERI, Massimo	(11) EP3125740	Brauker, James
(74) ir. W.J.J.M. Kempes	(21) EP15717357.6	Simpson, Peter
(31) 0805133	(22) 03.04.2015	Woo, Kum Ming
0800393	(54) MEDICAL SYSTEM AND RELATED	Pryor, Jack
(32) 18.09.2008	METHODS FOR DIAGNOSIS AND	(74) dr. ir. F.M. van Bouwelen
25.01.2008	TREATMENT	(47) 02.08.2023
(33) France	(73) Boston Scientific Scimed, Inc.	(51) A61B 5/00
France	(72) SUKTHANKAR, Sujat	A61B 5/11
(47) 02.08.2023	MACLEAN, Brian, C.	A61B 5/02
(51) A22C 13/00	ZAPPIA, Thomas, M.	G16H 50/20
A23B 4/10	OSKIN, Christopher, L.	G16H 50/30
A23B 4/22	OLIVIERI, Steven, A.	A61B 7/04
A23L 13/60	BROMANDER, Roy	(11) EP3313270
B65D 81/28	(74) ir. H.J.G. Lips c.s.	(21) EP16742075.1
(11) EP3510870	(31) 201461975489 P	(22) 23.06.2016
(21) EP18382015.8	(32) 04.04.2014	(54) EVENT DETECTION USING A
(22) 16.01.2018	(33) United States of America	VARIABLE THRESHOLD
(54) FOOD CASING WITH ANTIFUNGAL	(47) 26.07.2023	(73) Cardiac Pacemakers, Inc.
PROPERTIES AND METHOD FOR	(51) A61B 5/00	(72) BHAT, Maya
PRODUCTION THEREOF	(11) EP3558097	THAKUR, Pramodsingh Hirasingsh
(73) VISCOFAN S.A.	(21) EP17829777.6	KRUEGER, Jonathan Walter
(72) DE LA FUENTE MELIDA, Clara	(22) 13.12.2017	AVERINA, Viktoria A.
JAUREGUI ARBIZU, Blanca	(54) LEARNING TECHNIQUES FOR	(74) ir. H.J.G. Lips c.s.
POHL, Matthias	CARDIAC ARRHYTHMIA DETECTION	(31) 201562184021 P
(74) drs. J. Renkema	(73) Cardiac Pacemakers, Inc.	(32) 24.06.2015
(47) 26.07.2023	(72) HERRMANN, Keith, L.	(33) United States of America
(51) A41C 3/00	SAHA, Sunipa	(47) 26.07.2023
A61F 7/00	SHARMA, Arjun, D.	(51) A61B 5/05
A61F 7/02	PERSCHBACHER, David, L.	(11) EP3912551
	BOHN, Derek, D.	(21) EP21184415.4

- |   |   |  |
|---|---|--|
| (22) 26.02.2010   | (11) EP3498177  | (73) Stryker European Operations Limited   |
| (54) METHOD OF CALIBRATING AN ANALYTE SENSOR  | (21) EP16912587.9   | (72) TYNAN, Fintan                         |
| (73) Abbott Diabetes Care, Inc.   | (22) 30.12.2016   | VAUGHAN, Aidan                             |
| (72) MCGARRAUGH, Geoffrey   | (54) TISSUE CLOSING DEVICE AND MEDICAL INSTRUMENT                         | CONNOLLY, Eoin                             |
| HAYTER, Gary, Alan  | (73) Touchstone International Medical Science Co., Ltd.                   | O'SHEA, Conor                              |
| THOMAS, Christopher, Allen  | (72) YE, Yanping  | (74) J.M.H. Duyver lic.                    |
| HOSS, Udo   | LI, Laicun  | (31) 201862781836 P                        |
| (74) ir. F.A. Geurts c.s.   | SHU, Tuo  | (32) 19.12.2018                            |
| (31) 29084709 P   | FU, Kaifen  | (33) United States of America              |
| 23846109 P  | CHEN, Wangdong  | (47) 20.09.2023                            |
| 16549909 P  | (74) dr. R.C. van Duijvenbode c.s.  | <hr/>                                      |
| 15589109 P  | (31) 201610776877   | (51) A61B 17/32                            |
| 15588909 P  | 201610645091  | A61B 90/98                                 |
| 15589309 P  | 201610643532  | (11) EP3868316                             |
| (32) 29.12.2009   | (32) 31.08.2016   | (21) EP21157787.9                          |
| 31.08.2009  | 08.08.2016  | (22) 18.02.2021                            |
| 31.03.2009  | 08.08.2016  | (54) TISSUE RESECTING INSTRUMENT           |
| 26.02.2009  | (33) China  | (73) Covidien LP                           |
| 26.02.2009  | China   | (72) GANNON, Alan, P                       |
| 26.02.2009  | China   | LEIBOWITZ, Dalia                           |
| (33) United States of America   | (47) 23.08.2023   | MARSHALL, Peter                            |
| United States of America  | <hr/>   | (74) dr. R.C. van Duijvenbode c.s.         |
| United States of America  | (51) A61B 17/22   | (31) 202016793126                          |
| United States of America  | A61M 1/00   | (32) 18.02.2020                            |
| United States of America  | A61B 18/20  | (33) United States of America              |
| United States of America  | A61B 18/26  | (47) 19.07.2023                            |
| (47) 30.08.2023   | A61B 17/00  | <hr/>                                      |
| <hr/>   | A61M 3/02   | (51) A61B 17/34                            |
| (51) A61B 5/372   | A61B 18/00  | A61B 17/32                                 |
| A61B 5/374  | (11) EP3463113  | A61B 17/00                                 |
| (11) EP3925537  | (21) EP17728710.9   | A61B 17/3211                               |
| (21) EP20187999.6   | (22) 22.05.2017   | A61B 17/02                                 |
| (22) 27.07.2020   | (54) FLUIDIC SYSTEMS  | A61B 17/42                                 |
| (54) METHOD AND SYSTEM FOR PROCESSING AN ELECTROENCEPHALOGRAM SIGNAL  | (73) Boston Scientific Scimed, Inc.                                       | A61B 90/00                                 |
| (73) A-Neuron Electronic Corp.  | (72) GAO, Wei, AIFRED   | (11) EP3858271                             |
| (72) HSIN, Yue-Loong  | ZHANG, Cheng  | (21) EP21163226.0                          |
| CHANG, Chia-Chi   | HONG, Feng, Kevin   | (22) 22.10.2015                            |
| LIN, Pei-Chen   | XU, Feng, Kevin   | (54) SYSTEM FOR TISSUE REMOVAL             |
| (74) dr. R.C. van Duijvenbode c.s.  | (74) ir. H.J.G. Lips c.s.   | (73) Applied Medical Resources Corporation |
| (31) 202016903343   | (31) 201610344880   | (72) Garces, Amy                           |
| (32) 16.06.2020   | 201615233743  | Breslin, Tracy                             |
| (33) United States of America   | (32) 23.05.2016   | Filek, Jacob                               |
| (47) 30.08.2023   | 10.08.2016  | Young, Wayne                               |
| <hr/>   | (33) China  | Hoke, Adam                                 |
| (51) A61B 6/02  | United States of America  | Do, Alexandra                              |
| G06T 11/00  | (47) 02.08.2023   | Poulsen, Nikolai                           |
| (11) EP3964132  | <hr/>   | Demarchi, Jacqueline                       |
| (21) EP21189211.2   | (51) A61B 17/32   | Elliott, Patrick                           |
| (22) 09.10.2014   | (11) EP3643262  | Bolanos, Eduardo                           |
| (54) X-RAY BREAST TOMOSYNTHESIS ENHANCING SPATIAL RESOLUTION INCLUDING IN THE THICKNESS DIRECTION OF A FLATTENED BREAST | (21) EP19205301.5   | Castelo, Kevin                             |
| (73) Hologic, Inc.  | (22) 25.10.2019   | Pravong, Boun                              |
| (72) SMITH, Andrew Paul   | (54) TISSUE RESECTING DEVICE INCLUDING A BLADE LOCK AND RELEASE MECHANISM | Collins, Nathan                            |
| STEIN, Jay  | (73) Covidien LP  | Sheehan, Alexander                         |
| DEFREITAS, Kenneth  | (72) MARSHALL, Peter F  | Wachli, Serene                             |
| SHAW, Ian   | WOOD, Timothy J.  | Holmes, Heidi                              |
| (74) drs. W.H.P. Derks  | (74) dr. R.C. van Duijvenbode c.s.  | Wixey, Matthew                             |
| (31) 20136188825 P  | (31) 201816171479   | Kessler, Steven                            |
| (32) 09.10.2013   | (32) 26.10.2018   | Hofstetter, Greg                           |
| (33) United States of America   | (33) United States of America   | (74) ir. H.A. Witmans c.s.                 |
| (47) 19.07.2023   | (47) 19.07.2023   | (31) 201562107107 P                        |
| <hr/>   | (51) A61B 17/32   | 201462081297 P                             |
| (51) A61B 17/072  | A61B 17/16  | 201462079171 P                             |
| A61B 17/29  | (11) EP3897413  | (32) 23.01.2015                            |
| A61B 17/11  | (21) EP19836842.5   | 18.11.2014                                 |
| A61B 17/00  | (22) 19.12.2019   | 13.11.2014                                 |
|   | (54) A SURGICAL CUTTING TOOL  | (33) United States of America              |
|   |   | United States of America                   |
|   |   | United States of America                   |
|   |   | (47) 04.10.2023                            |
|   |   | <hr/>                                      |
|   |   | (51) A61B 18/04                            |

A61B 18/00	(31) 13004111	(51) A61K 8/19
(11) EP2549963	(32) 20.08.2013	A61K 8/02
(21) EP11760308.4	(33) European Patent Office (EPO)	A61Q 11/00
(22) 25.03.2011	(47) 09.08.2023	(11) EP3962438
(54) SYSTEMS FOR PROSTATE TREATMENT	(51) A61F 2/24	(21) EP20723111.9
(73) Boston Scientific Scimed, Inc.	(11) EP3033049	(22) 29.04.2020
(72) HOEY, Michael	(21) EP14836550.5	(54) MAGNESIUM ION-CONTAINING MATERIALS AS WHITE PIGMENTS IN ORAL CARE COMPOSITIONS
SCHROM, Mark	(22) 11.08.2014	(73) Omya International AG
PAULOS, Stephanos	(54) APPARATUS FOR IMPLANTING A REPLACEMENT HEART VALVE	(72) KELLER, Tobias
BEYREIS, Randall	(73) Mitral Valve Technologies Sàrl	BUDDE, Tanja
(74) ir. H.J.G. Lips c.s.	(72) TOMPKINS, Landon H.	RENTSCH, Samuel
(31) 317358 P	SPENCE, Paul A.	(74) J.M.H. Duyver lic.
(32) 25.03.2010	(74) ir. F.A. Geurts c.s.	(31) 19172540
(33) United States of America	(31) 201361878280 P	(32) 03.05.2019
(47) 23.08.2023	201361867287 P	(33) European Patent Office (EPO)
(51) A61B 18/20	201361864860 P	(47) 06.09.2023
A61F 9/008	(32) 16.09.2013	(51) A61K 9/16
A61B 17/00	19.08.2013	A61K 9/19
(11) EP3694437	12.08.2013	(11) EP3856151
(21) EP18796173.5	(33) United States of America	(21) EP19778493.7
(22) 04.10.2018	United States of America	(22) 25.09.2019
(54) MEDICAL SYSTEMS, DEVICES, AND RELATED METHODS	United States of America	(54) LYOPHILISATE OF TREOSULFAN
(73) Boston Scientific Scimed, Inc.	(47) 02.08.2023	(73) medac Gesellschaft für klinische Spezialpräparate mbH
(72) YANG, Jiandong	(51) A61F 2/24	(72) BIALLECK, Sebastian
(74) ir. H.J.G. Lips c.s.	(11) EP3560458	(74) ir. H.A. Witmans c.s.
(31) 201762572205 P	(21) EP19163767.7	(31) 18196967
(32) 13.10.2017	(22) 05.06.2015	(32) 26.09.2018
(33) United States of America	(54) PROSTHETIC VALVE FOR REPLACING A MITRAL VALVE	(33) European Patent Office (EPO)
(47) 09.08.2023	(73) Edwards Lifesciences Corporation	(47) 23.08.2023
(51) A61C 7/26	(72) Cooper, Alexander H.	(51) A61K 31/04
A61C 7/28	Peterson, Matthew A.	A61K 31/202
A61C 7/02	Brunnett, William C.	A61K 31/375
A61C 7/04	(74) ir. F.A. Geurts c.s.	A61K 31/7068
A61C 7/20	(31) 201514730639	A61K 31/7072
A61C 7/22	201462009072 P	A61P 25/28
(11) EP3345567	(32) 04.06.2015	A61P 3/02
(21) EP18157355.1	06.06.2014	(11) EP3426236
(22) 07.12.2011	(33) United States of America	(21) EP17716066.0
(54) ORTHODONTIC GRIPPING DEVICE	United States of America	(22) 08.03.2017
(73) Strite Industries Ltd.	(47) 02.08.2023	(54) METHOD FOR SUPPORTING MEMORY FUNCTION AND/OR COGNITIVE FUNCTION
(72) Chester, Neil	(51) A61F 2/24	(73) N.V. Nutricia
(74) ir. A. Blokland c.s.	A61F 2/95	(72) DE WILDE, Mattheus Cornelis
(31) 457013 P	A61B 17/32	(74) dr. R.C. van Duijvenbode c.s.
(32) 08.12.2010	A61B 17/00	(31) PCT/NL2016/050161
(33) United States of America	A61B 17/3205	(32) 08.03.2016
(47) 02.08.2023	A61F 2/00	(33) World Intellectual Property Office (WIPO)
(51) A61D 7/04	(11) EP3861963	(47) 04.10.2023
A61M 15/00	(21) EP21150029.3	(51) A61K 31/07
B05B 11/00	(22) 19.08.2016	A61K 31/202
A61M 15/08	(54) LOADER FOR TRANSCATHETER HEART VALVE	A61P 25/00
A61M 16/08	(73) Edwards Lifesciences Corporation	A61K 31/4415
A61M 16/20	(72) METCHIK, Asher, L.	A61K 31/519
(11) EP3632373	NAGPURWALA, Tarannum	A61K 31/593
(21) EP19211975.8	LINDSTROM, Jeff	A61K 31/714
(22) 19.08.2014	BIRAN, Raz	(11) EP3468543
(54) INHALER	CHANG, Arvin, T.	(21) EP17732600.6
(73) Boehringer Ingelheim Vetmedica GmbH	NGUYEN, Thanh, V.	(22) 09.06.2017
(72) AVEN, Michael	(74) ir. F.A. Geurts c.s.	(54) METHOD FOR CONTROLLING NEUROINFLAMMATION
SCHUY, Steffen	(31) 201615238605	(73) N.V. Nutricia
WACHTEL, Herbert	201562207879 P	(72) LOPES DA SILVA, Sofia
ENDERT, Guido	(32) 16.08.2016	BROERSEN, Ladislaus Maria
RAHMEL, Marcus Rainer	20.08.2015	HAGEMAN, Robert Johan Joseph
FRANZMANN, Benjamin	(33) United States of America	
WERGEN, Horst	United States of America	
CHRIST, Alexander	(47) 19.07.2023	
(74) ir. F.A. Geurts c.s.		

- VERKUIJL, Jan Maarten  
(74) dr. R.C. van Duijvenbode c.s.  
(31) PCT/NL2016/050419  
(32) 10.06.2016  
(33) World Intellectual Property Office (WIPO)  
(47) 04.10.2023  
(51) A61K 31/16  
A61K 31/19  
A23L 2/52  
A23L 2/54  
A61P 3/12  
A61P 43/00  
A23L 2/39  
A23L 2/68  
A23L 2/395  
A61P 11/00  
(11) EP3463326  
(21) EP17731818.5  
(22) 02.06.2017  
(54) COMPOSITIONS AND METHODS FOR IMPROVING HYDRATION OF INDIVIDUALS HAVING DYSPHAGIA  
(73) Société des Produits Nestlé S.A.  
(72) LABBE, David Philippe  
SWANSON, Julie Ann  
BURBIDGE, Adam  
(74) dr. R.C. van Duijvenbode c.s.  
(31) 201662345363 P  
(32) 03.06.2016  
(33) United States of America  
(47) 20.09.2023  
(51) A61K 31/423  
A61P 35/00  
(11) EP3733175  
(21) EP18894766.7  
(22) 01.08.2018  
(54) CANCER THERAPEUTIC  
(73) J-Pharma Co., Ltd.  
(72) OKAYASU Isao  
FURUSE Junji  
ENDOU Hitoshi  
WEMPE Michael F.  
(74) dr. A. Krebs  
(31) 2017253385  
(32) 28.12.2017  
(33) Japan  
(47) 04.10.2023  
(51) A61K 31/436  
A61K 35/15  
A61K 35/28  
A61K 38/17  
A61K 45/06  
A61K 47/60  
A61K 47/50  
A61K 47/69  
A61P 3/08  
C12M 3/02  
C12N 15/85  
(11) EP3592392  
(21) EP18764623.7  
(22) 09.03.2018  
(54) FASL-ENGINEERED BIOMATERIALS WITH IMMUNOMODULATORY FUNCTION  
(73) Georgia Tech Research Corporation  
University of Louisville Research Foundation, Inc.  
(72) SHIRWAN, Haval
- YOLCU, Esma S.  
ZHAO, Hong  
HEADEN, Devon  
GARCIA, Andres J.  
(74) dr. R.C. van Duijvenbode c.s.  
(31) 201762469802 P  
(32) 10.03.2017  
(33) United States of America  
(47) 13.09.2023  
(51) A61K 31/4439  
A61P 35/00  
A61P 29/00  
A61P 9/12  
A61P 25/00  
(11) EP3277280  
(21) EP16774156.0  
(22) 31.03.2016  
(54) ISOMYOSMINE FOR USE IN THE TREATMENT OF AUTOIMMUNE DISEASES  
(73) MYMD PHARMACEUTICALS, INC.  
(72) WILLIAMS, Jonnie R.  
(74) ir. H.A. Witmans c.s.  
(31) 201562140618 P  
(32) 31.03.2015  
(33) United States of America  
(47) 13.09.2023  
(51) A61K 31/704  
A61K 36/71  
A61P 13/12  
A61P 15/00  
A61P 15/14  
A61P 31/04  
A61P 31/12  
A61P 31/14  
A61P 31/20  
(11) EP3747445  
(21) EP19746721.0  
(22) 25.01.2019  
(54) PULSATILLA SAPONIN B4 FOR USE IN THE TREATMENT OF DAIRY COW MASTITIS  
(73) Sichuan Inlu Weite Pharmaceutical Technology Co., Ltd.  
(72) YANG, Shilin  
SU, Zhetong  
(74) ir. H.A. Witmans c.s.  
(31) 201810097221  
(32) 31.01.2018  
(33) China  
(47) 23.08.2023  
(51) A61K 31/7088  
A61K 38/54  
A61K 45/06  
A61K 49/00  
C07F 9/54  
C07F 9/572  
C07F 9/6539  
A61P 39/06  
A61K 31/06  
A61K 47/54  
(11) EP3468563  
(21) EP17810952.6  
(22) 07.06.2017  
(54) COMPOUNDS FOR DELIVERING GLUTATHIONE TO A TARGET AND METHODS OF MAKING AND USING THE SAME
- (73) Oregon State University  
(72) BECKMAN, Joseph, S.  
HAGEN, Tory, M.  
BEILBY, Pamela, R.  
(74) dr. R.C. van Duijvenbode c.s.  
(31) 201662348030 P  
(32) 09.06.2016  
(33) United States of America  
(47) 13.09.2023  
(51) A61K 38/17  
A61K 38/16  
A61K 38/43  
A61K 38/46  
A61K 38/47  
A61K 45/06  
A61K 31/445  
A61K 31/4545  
A61K 31/56  
A61K 33/30  
A61P 43/00  
A61P 3/00  
A61K 31/4015  
A61K 31/69  
(11) EP3578195  
(21) EP19160761.3  
(22) 26.06.2009  
(54) USE OF HSP70 AS A REGULATOR OF ENZYMATIC ACTIVITY  
(73) Zevra Denmark A/S  
(72) JAATTELA, Marja Helena  
KIRKEGAARD JENSEN, Thomas  
(74) ir. W.J.J.M. Kempes  
(31) PA200800885  
(32) 26.06.2008  
(33) Denmark  
(47) 09.08.2023  
(51) A61K 39/09  
A61K 39/385  
A61K 39/00  
A61P 11/00  
A61P 31/04  
(11) EP3583947  
(21) EP19179577.2  
(22) 15.01.2015  
(54) STREPTOCOCCUS PNEUMONIAE CAPSULAR POLYSACCHARIDES AND CONJUGATES THEREOF  
(73) Pfizer Inc.  
(72) HAN, Mingming  
COOPER, David  
PRASAD, Avvari Krishna  
WATSON, Wendy Jo  
(74) dr. R.C. van Duijvenbode c.s.  
(31) 201461929561 P  
(32) 21.01.2014  
(33) United States of America  
(47) 11.10.2023  
(51) A61K 39/395  
A61K 31/00  
C07K 16/28  
A61P 35/00  
(11) EP3630177  
(21) EP18728153.0  
(22) 30.05.2018  
(54) TREATMENT PARADIGM FOR AN ANTI-CD19 ANTIBODY AND VENETOCLAX COMBINATION TREATMENT

(73) MorphoSys AG	JANDL, Johannes	(32) 06.01.2017
(72) KELEMEN, Peter	(74) dr. R.C. van Duijvenbode c.s.	(33) United States of America
SCHWARZ, Michael	(47) 26.07.2023	(47) 26.07.2023
WINDERLICH, Mark	(51) A61L 2/20	(51) A61M 16/00
HEEGER, Steffen	(11) EP3600456	A61M 16/10
WEINELT, Dominika	(21) EP18711784.1	A61M 16/16
(74) dr. R.C. van Duijvenbode c.s.	(22) 06.03.2018	(11) EP3730174
(31) 17173712	(54) STERILISATION METHOD	(21) EP20000150.1
(32) 31.05.2017	(73) Regeneron Pharmaceuticals, Inc.	(22) 14.04.2020
(33) European Patent Office (EPO)	(72) SHODDER, Philip Stephen	(54) BREATHING GAS SUPPLY SYSTEM
(47) 09.08.2023	(74) ir. H.A. Witmans c.s.	(73) Löwenstein Medical Technology S.A.
(51) A61K 47/55	(31) 201762568850 P	(72) Schwaibold, Matthias
A61K 47/69	201762477030 P	Tiemann, Björn
A61K 49/00	(32) 06.10.2017	Göbel, Christof
A61K 51/12	27.03.2017	Dömer, Benno
A61P 35/00	(33) United States of America	Adametz, Benjamin
A61K 103/00	United States of America	(74) ir. W.J.J.M. Kempes
(11) EP4103236	(47) 30.08.2023	(31) 102019110631
(21) EP21810835.5	(51) A61M 5/00	(32) 24.04.2019
(22) 26.10.2021	A61M 5/315	(33) Germany
(54) FOLATE RECEPTOR TARGETED	A61M 5/178	(47) 06.09.2023
NANOPARTICLE DRUG CONJUGATES	(11) EP3600491	(51) A61M 16/16
AND USES THEREOF	(21) EP18716743.2	A61M 16/10
(73) Elucida Oncology, Inc.	(22) 20.03.2018	(11) EP3747494
(72) MA, Kai	(54) PLUNGER ROD AND SYRINGE	(21) EP20187375.9
VENKATESAN, Aranapakam, M.	ASSEMBLY SYSTEM AND METHOD	(22) 12.08.2004
CHEN, Feng	(73) Amgen Inc.	(54) WATER CHAMBER FOR HUMIDIFIER
WU, Fei	(72) TAPIA, Javier, O.	(73) Fisher & Paykel Healthcare Limited
TÜRKER, Melik, Ziya	RIVERA, Jomasoel	(72) KRAMER, Martin Paul Friedrich
GARDINIER, Thomas, Courtney, II	VAZQUEZ, Francisco, Almedina	(74) ir. W.J.J.M. Kempes
GERMANO, Geno, J., Jr.	PEREZ, Ernesto, J.	(31) 52773403
ADAMS, Gregory, Paul	LEKA, Lawrence, G.	(32) 20.08.2003
LEE, Francis, Y., F.	REY, Manuel	(33) New Zealand
(74) ir. F.A. Geurts c.s.	KETELAARS, Jeroen	(47) 27.09.2023
(31) 202163254837 P	VAN WEZEL, Martin	(51) A61N 1/04
202163242201 P	WAH REYES, Noel	(11) EP3727561
202163222181 P	(74) ir. W.J.J.M. Kempes	(21) EP18855114.7
202163155043 P	(31) 201762477521 P	(22) 18.12.2018
202063117110 P	(32) 28.03.2017	(54) SYSTEM FOR ELECTRICAL
202063116393 P	(33) United States of America	STIMULATION OF NERVES
202063105995 P	(47) 09.08.2023	(73) InnoCon Medical ApS
(32) 12.10.2021	(51) A61M 5/145	(72) HVALSØE, Torsten Fjeldgaard
09.09.2021	A61M 5/168	KNUDSEN, Dianna Mærsk
15.07.2021	(11) EP3589337	NIELSEN, Jesper
01.03.2021	(21) EP18708873.7	(74) ir. W.J.J.M. Kempes
23.11.2020	(22) 22.02.2018	(31) PA201700724
20.11.2020	(54) IDENTIFICATION TAG READER	(32) 18.12.2017
27.10.2020	SYSTEM	(33) Denmark
(33) United States of America	(73) Bayer Healthcare LLC	(47) 02.08.2023
United States of America	(72) WLODARCZYK, Jaroslaw	(51) A61N 5/10
United States of America	CAPONE, Christopher D.	(11) EP2911744
United States of America	(74) ir. W.J.J.M. Kempes	(21) EP13786545.7
United States of America	(31) 201762464655 P	(22) 25.10.2013
United States of America	(32) 28.02.2017	(54) A MODULAR APPLICATOR FOR
United States of America	(33) United States of America	BRACHYTHERAPY
(47) 16.08.2023	(47) 02.08.2023	(73) Nucletron Operations B.V.
(51) A61L 2/08	(51) A61M 5/315	(72) VAN DE WARDT, Cor
B65G 25/02	A61M 5/31	MARTENS, Tommy Robert Oscar
(11) EP3983022	(11) EP3565619	VAN WIJCK, Gaetan Stephan Marie
(21) EP19730360.5	(21) EP18701619.1	VAN ERP, Wilhelmus Petrus Martinus
(22) 14.06.2019	(22) 04.01.2018	Maria
(54) SYSTEM FOR STERILISING	(54) SYRINGE PLUNGER WITH DYNAMIC	(74) dr. A. Krebs
STERILISATION UNITS AND METHOD	SEAL	(31) 2009697
FOR OPERATING SUCH A SYSTEM	(73) Bayer Healthcare LLC	201261718403 P
(73) Framatome GmbH	(72) MCDERMOTT, Michael	(32) 25.10.2012
BBF Sterilisationsservice GmbH	SWANTNER, Michael	25.10.2012
(72) SIEGELIN, Steffen	(74) ir. W.J.J.M. Kempes	(33) Netherlands
BIEBER, Oswald	(31) 201762443302 P	United States of America

(47) 23.08.2023	C07D 401/04	B01D 46/24
(51) A61N 5/10	C07D 401/14	(11) EP3655131
G21K 1/093	A61K 31/454	(21) EP18737035.8
H05H 7/00	(11) EP3820574	(22) 11.06.2018
H05H 7/04	(21) EP19782692.8	(54) A FILTER ASSEMBLY FOR
G21K 5/04	(22) 08.07.2019	SEPARATING OIL FROM
H01F 6/06	(54) 3-(5-AMINO-1-OXOISOINDOLIN-2- YL)PIPERIDINE-2,6-DIONE	COMPRESSED GAS AND
(11) EP3888746	DERIVATIVES AND THEIR USE IN	COMPRESSOR COMPRISING SUCH
(21) EP20206107.3	THE TREATMENT OF IKAROS FAMILY	FILTER ASSEMBLY
(22) 06.11.2020	ZINC FINGER 2 (IKZF2)-DEPENDENT	(73) Atlas Copco Airpower, Naamloze
(54) SUPERCONDUCTING	DISEASES	Vennootschap
ELECTROMAGNET APPARATUS AND	(73) Novartis AG	(72) MARTENS, Kristof Adrien Laura
CHARGED PARTICLE IRRADIATION	(72) BECKWITH, Rohan Eric John	LAURENT, Steven Maurits Ray
APPARATUS	CERNIJENKO, Artiom	VLEESCHOUWER, Joris Anna L.
(73) B dot Medical Inc.	WARE, Nathaniel F.	(74) dr. R.C. van Duijvenbode c.s.
(72) HARA, Yousuke	BONAZZI, Simone	(31) 201805157
TAKESHITA, Eri	MA, Fupeng	201762533842 P
FURUKAWA, Takuji	(74) dr. R.C. van Duijvenbode c.s.	(32) 15.03.2018
(74) dr. R.C. van Duijvenbode c.s.	(31) 201862695922 P	18.07.2017
(31) 2020063275	(32) 10.07.2018	(33) Belgium
(32) 31.03.2020	(33) United States of America	United States of America
(33) Japan	(47) 09.08.2023	(47) 09.08.2023
(47) 20.09.2023	(47) 09.08.2023	(51) B01D 53/26
(51) A61P 35/00	(51) A63F 13/20	B01D 53/52
C07D 213/74	A63F 13/40	F26B 17/02
C07D 241/20	A63F 13/30	F26B 25/00
C07D 401/06	G02B 27/01	(11) EP3669969
C07D 401/12	G06F 3/01	(21) EP19213391.6
C07D 401/14	G06F 3/0481	(22) 04.12.2019
C07D 403/12	G06F 3/0346	(54) DRYING SYSTEM AND METHOD FOR
C07D 403/14	(11) EP3659682	DRYING A WET GOOD
C07D 471/08	(21) EP20150496.6	(73) Huber SE
C07D 487/10	(22) 23.05.2014	(72) Ostermann, Stefan
A61K 31/4439	(54) SYSTEMS AND METHODS FOR USING	(74) dr. A. Krebs
A61K 31/444	REDUCED HOPS TO GENERATE	(31) 102018132641
A61K 31/497	AN AUGMENTED VIRTUAL REALITY	(32) 18.12.2018
(11) EP3820572	SCENE WITHIN A HEAD MOUNTED	(33) Germany
(21) EP19746317.7	SYSTEM	(47) 26.07.2023
(22) 12.07.2019	(73) Sony Computer Entertainment America	(51) B01D 53/50
(54) PD-1/PD-L1 INHIBITORS	LLC	B01D 53/68
(73) GILEAD SCIENCES, INC.	(72) PERRY, David	(11) EP3415223
(72) GRAUPE, Michael	(74) ir. W.J.J.M. Kempes	(21) EP18184800.3
XU, Jie	(31) 201314144210	(22) 20.09.2012
PHILLIPS, Barton W.	201361832776 P	(54) WATER-SAVING LIQUID-GAS
AKTOUDIANAKIS, Evangelos	(32) 30.12.2013	CONTACT PROCESSES BASED ON
LAD, Lateshkumar Thakorlal	07.06.2013	EQUILIBRIUM MOISTURE OPERATION
YANG, Kin Shing	(33) United States of America	(73) Energy & Environmental Research
MONOVICH, Scott Preston	United States of America	Center Foundation
ZIEBENHAUS, Christopher Allen	(47) 16.08.2023	(72) HUANG, Ye
WATKINS, William J.	(51) A63F 13/358	MARTIN, Christopher L.
CHO, Aesop	A63F 13/44	(74) ir. J.D. de Zeeuw
METOBO, Samuel E.	A63F 13/355	(31) 201113241624
NADUTHAMBI, Devan	G06F 9/451	(32) 23.09.2011
MEDLEY, Jonathan William	(11) EP4013527	(33) United States of America
MACHICAO TELLO, Paulo A.	(21) EP20725390.7	(47) 13.09.2023
WANG, Peiyuan	(22) 28.04.2020	(51) B01D 69/10
(74) dr. R.C. van Duijvenbode c.s.	(54) LATENCY-AWARE PLAYER	A61M 1/16
(31) 201962808763 P	INPUT FILTERING FOR PLAYER	B01D 71/70
201862747033 P	INTERACTIVE WINDOWS IN CLOUD	B01D 63/06
201862697932 P	GAMING	B01D 63/08
(32) 21.02.2019	(73) Google LLC	B01D 63/10
17.10.2018	(72) CARY, Daniel	B01D 67/00
13.07.2018	(74) dr. R.C. van Duijvenbode c.s.	(11) EP3268116
(33) United States of America	(31) 202062988475 P	(21) EP16710945.3
United States of America	(32) 12.03.2020	(22) 11.03.2016
United States of America	(33) United States of America	(54) MEMBRANE FOR AN OXYGENATOR
(47) 16.08.2023	(47) 09.08.2023	FOR GAS EXCHANGE IN THE
(51) A61P 35/00	(51) B01D 46/00	BLOODSTREAM, OXYGENATOR



HAVING SUCH A MEMBRANE, AND METHOD FOR PRODUCING SUCH A MEMBRANE	B01J 19/28 H01M 8/0612 H01M 8/1233	B03C 1/30 F16L 55/24 C02F 1/48
(73) Raumedic AG	B01J 4/00	(11) EP4005678
(72) STÖCKER, Martin	B01J 12/00	(21) EP21214147.7
(74) dr. R.C. van Duijvenbode c.s.	H01M 8/22	(22) 28.06.2016
(31) 102015204638	(11) EP3894068	(54) MEASURING MAGNETITE BUILDUP IN A MAGNETIC FILTER
(32) 13.03.2015	(21) EP19894403.5	(73) Adey Holdings (2008) Limited
(33) Germany	(22) 09.12.2019	(72) Downie, Simon
(47) 30.08.2023	(54) METHOD AND REACTOR FOR PRODUCING ONE OR MORE PRODUCTS	Taylor, Matthew
(51) B01J 8/02	(73) Ekona Power Inc.	(74) ir. M. van der Velden
(11) EP3980171	(72) HINKEY, John Benjamin, Jr.	(31) 201606795
(21) EP20729075.0	REID, Christopher Edwin John	(32) 19.04.2016
(22) 02.06.2020	ELDER, Timothy John	(33) United Kingdom
(54) DEVICE FOR DISTRIBUTING GAS IN A GAS PROCESSING VESSEL COMPRISING A PARTICULATE MATERIAL	KRATSCHMAR, Kenneth William	(47) 13.09.2023
(73) L'Air Liquide, société anonyme pour l'Étude et l'Exploitation des procédés Georges Claude	(74) dr. R.C. van Duijvenbode c.s.	(51) B05C 1/08
(72) DEMAR, Gregory	(31) 201862777619 P	B05C 11/10
MONEREAU, Christian	(32) 10.12.2018	(11) EP3829782
SUN, Lian-Ming	(33) United States of America	(21) EP19746043.9
(74) ir. W.J.J.M. Kempes	(47) 13.09.2023	(22) 18.07.2019
(31) 1906107	(51) B01L 3/00	(54) DEVICE AND METHOD FOR PROCESSING SHEAR-SENSITIVE COATING COMPOUNDS
(32) 07.06.2019	B01J 19/00	(73) OLBRICH GmbH
(33) France	G01N 35/00	(72) SCHINDLER, Fabian
(47) 02.08.2023	B81C 3/00	TE WELSCHER, Frans
(51) B01J 8/02	(11) EP2822689	VOLMERING, Ingo
C01B 3/38	(21) EP13711238.9	(74) ir. F.A. Geurts c.s.
C07C 27/12	(22) 08.03.2013	(31) 102018118559
C10L 1/02	(54) MICRO-TUBE PARTICLES FOR MICROFLUIDIC ASSAYS AND METHODS OF MANUFACTURE	(32) 31.07.2018
B01J 8/04	(73) Cyvek, Inc.	(33) Germany
(11) EP3468706	(72) BRANCIFORTE, Jeffrey T.	(47) 19.07.2023
(21) EP17728214.2	TU, Jane M.	(51) B06B 1/16
(22) 07.06.2017	PUTNAM, Martin A.	E02D 7/18
(54) CO RICH SYNTHESIS GAS PRODUCTION	STANWOOD, Charles O.	(11) EP3325181
(73) Topsoe A/S	(74) ir. W.J.J.M. Kempes	(21) EP1589884.10
(72) MORTENSEN, Peter, Mølgaard	(31) 201361754377 P	(22) 17.07.2015
ØSTBERG, Martin	201213427857	(54) VIBRATOR DEVICE
DAHL, Per, Juul	201261608570 P	(73) Movax Oy
(74) J.M.H. Duyver lic.	(32) 18.01.2013	(72) KUIVAMÄKI, Pentti
(31) 201600543	22.03.2012	LINDEMAN, Mikko
201600343	08.03.2012	(74) ir. H.A. Witmans c.s.
(32) 16.09.2016	(33) United States of America	(47) 09.08.2023
10.06.2016	United States of America	(51) B08B 7/00
(33) Denmark	United States of America	G03F 1/82
Denmark	(47) 26.07.2023	(11) EP3272432
(47) 27.09.2023	(51) B02C 18/30	(21) EP17172136.8
(51) B01J 8/08	B02C 18/22	(22) 22.05.2017
B01J 19/24	A22C 17/00	(54) DEBRIS REMOVAL FROM HIGH ASPECT STRUCTURES
B01J 19/26	(11) EP3897167	(73) Bruker Nano, Inc.
C08G 65/26	(21) EP19832110.1	(72) ROBINSON, Tod Evan
(11) EP3766570	(22) 20.12.2019	BRINKLEY, David
(21) EP19186525.2	(54) A FOOD PROCESSING DEVICE AND A METHOD OF PROCESSING FOOD	LECLAIRE, Jeffrey E.
(22) 16.07.2019	(73) Marel Salmon A/S	ARRUZA, Bernabe J.
(54) PROCESS FOR THE PRODUCTION OF ALKOXYLATES	(72) LIND, Christian Brøchner	ROESSLER, Kenneth Gilbert
(73) thyssenkrupp AG	(74) ir. W.J.J.M. Kempes	(74) dr. R.C. van Duijvenbode c.s.
thyssenkrupp Industrial Solutions AG	(31) 18215575	(31) 201615160302
(72) JENKINS, Christopher	(32) 21.12.2018	(32) 20.05.2016
(74) dr. R.C. van Duijvenbode c.s.	(33) European Patent Office (EPO)	(33) United States of America
(47) 30.08.2023	(47) 02.08.2023	(47) 23.08.2023
(51) B01J 19/24	(51) B03C 1/28	(51) B08B 9/093
C01B 3/24	B01D 21/24	B08B 9/087
B01J 19/00	B03C 1/033	B05B 13/04
	F24D 19/00	B08B 9/049
	F24H 9/00	B05B 13/00
		B05B 15/628

B05B 13/06	E05B 65/00	(73) EREMA Engineering Recycling
B05B 15/68	(11) EP3934865	Maschinen und Anlagen Gesellschaft
(11) EP3148718	(21) EP20717878.1	m.b.H.
(21) EP15732372.6	(22) 10.04.2020	(72) FEICHTINGER, Klaus
(22) 15.05.2015	(54) DEVICE FOR TIGHT CONNECTION	WAGNER, Christian
(54) DEVICE FOR THE MAINTENANCE OF	OF TWO CLOSED VOLUMES WITH	HUBER, Roland
TANKS AND CISTERNS DESIGNED TO	INCREASED SECURITY	AIGNER, Michael
CONTAIN DANGEROUS PRODUCTS	(73) Getinge Life Science France	(74) dr. R.C. van Duijvenbode c.s.
(73) T & A Technologie E Ambiente S.p.A.	(72) FELIX, Julien	(31) 503292019
(72) PIVI, Mario Pompeo	(74) ir. F.A. Geurts c.s.	(32) 11.04.2019
(31) VR20140159	(31) 1904029	(33) Austria
(32) 30.05.2014	(32) 16.04.2019	(47) 23.08.2023
(33) Italy	(33) France	(51) B29C 53/60
(47) 19.07.2023	(47) 19.07.2023	B29C 53/84
(51) B21D 11/06	(51) B26F 1/38	B29C 53/58
B21D 11/14	B26D 7/18	(11) EP4061610
B21D 25/02	B65H 75/00	(21) EP20797138.3
B21D 31/00	B26D 7/14	(22) 02.11.2020
B21D 25/04	B41F 19/00	(54) METHOD FOR MANUFACTURING A
(11) EP3429774	B26D 7/26	COMPOSITE PRESSURIZED-FLUID
(21) EP17765579.2	B26F 1/44	VESSEL
(22) 17.03.2017	(11) EP3271120	(73) L'Air Liquide, société anonyme pour
(54) METHOD AND APPARATUS FOR	(21) EP16713212.5	l'Étude et l'Exploitation des procédés
FORMING A HELICAL TYPE FLIGHT	(22) 15.03.2016	Georges Claude
(73) Robo Helix PTY Limited	(54) METHOD AND APPARATUS FOR	(72) PAPIN, Philippe
(72) SMAIR, Hayel	PRODUCING A CONTAINER CARRIER	(74) ir. W.J.J.M. Kempes
(31) 2016901014	(73) Illinois Tool Works Inc.	(31) 1912927
(32) 18.03.2016	(72) SIEWERT, Paul	(32) 20.11.2019
(33) Australia	(74) dr. W.A.H.M. Van Borm	(33) France
(47) 26.07.2023	(31) 201615065352	(47) 02.08.2023
(51) B22F 9/08	201562134416 P	(51) B32B 3/26
B22F 1/00	(32) 09.03.2016	B32B 3/30
B22F 1/065	17.03.2015	B32B 7/12
(11) EP4034320	(33) United States of America	B32B 15/20
(21) EP20775260.1	United States of America	B32B 27/06
(22) 17.09.2020	(47) 26.07.2023	B32B 29/00
(54) DEVICE FOR ATOMIZING A MELT	(51) B28B 1/00	A61J 1/03
STREAM BY MEANS OF A GAS	B28B 23/00	(11) EP3827977
(73) GFE Metalle Und Materialien GmbH	B28B 23/02	(21) EP20203057.3
Ald Vacuum Technologies GmbH	E04B 1/35	(22) 21.10.2020
(72) RATSCHBACHER, Karin	E04G 21/04	(54) MULTI-LAYER PRODUCTS
FRANZ, Henrik	E04C 5/07	(73) MEDI-Clear Ltd
SPITANS, Sergejs	B33Y 70/00	(72) HOGAN., Mark Paul
ALLEN, Melissa	B29C 64/106	(74) J.M.H. Duyver lic.
GÜTHER, Volker	E04C 3/20	(31) 201919192
(74) ir. J.C. Volmer c.s.	B33Y 10/00	201917193
(31) 102019214555	(11) EP3706972	(32) 23.12.2019
(32) 24.09.2019	(21) EP18800625.8	26.11.2019
(33) Germany	(22) 09.11.2018	(33) United Kingdom
(47) 19.07.2023	(54) METHOD OF MANUFACTURING A	United Kingdom
(51) B23C 5/16	CONSTRUCTION ELEMENT AND	(47) 06.09.2023
B23C 5/10	CORRESPONDING CONSTRUCTION	(51) B32B 15/08
(11) EP3743234	ELEMENT	B32B 7/00
(21) EP19701319.6	(73) PERI SE	B32B 7/02
(22) 16.01.2019	(72) MAYER, Jürgen	B32B 7/12
(54) MILLING TOOL	(74) ir. W.J.J.M. Kempes	B32B 15/00
(73) MAPAL Fabrik für Präzisionswerkzeuge	(31) 102017126343	B32B 15/09
Dr. Kress KG	(32) 10.11.2017	B32B 27/00
(72) FRONIUS, Jürgen	(33) Germany	B32B 27/08
(74) dr. R.C. van Duijvenbode c.s.	(47) 16.08.2023	B32B 27/18
(31) 102018201195	(51) B29B 9/06	B32B 27/20
(32) 25.01.2018	B65G 53/16	B32B 27/36
(33) Germany	(11) EP3953126	B32B 1/00
(47) 26.07.2023	(21) EP20721386.9	B32B 1/02
(51) B25J 21/02	(22) 09.04.2020	B65D 65/40
E05B 65/02	(54) ASSEMBLY FOR GRANULATING	B65D 25/00
E06B 5/00	EXTRUDED MATERIAL	(11) EP2752291
G21F 7/005		(21) EP11871436.9

(22) 31.08.2011	(33) Germany	B62D 65/18
(54) RESIN COATED METAL SHEET	(47) 16.08.2023	(11) EP3908498
(73) JFE Steel Corporation	(51) B60K 1/02	(21) EP19809066.4
(72) KITAGAWA, Junichi	B60L 50/10	(22) 25.11.2019
SUTO, Mikito	B60L 50/16	(54) CONVEYING DEVICE, PROCESSING
TOBIYAMA, Yoichi	B60L 50/51	INSTALLATION, METHOD FOR
NAKAGAWA, Yusuke	B60L 58/10	CONVEYING AND/OR PROCESSING
KOJIMA, Katsumi	B60L 58/12	OBJECTS
YAMANAKA, Yoichiro	H02J 7/04	(73) Dürr Systems AG
(74) dr. ir. F.M. van Bouwelen	(11) EP3891001	(72) BARTSCH, Dirk
(47) 27.09.2023	(21) EP19892350.0	REMPPE, Peter
(51) B32B 17/10	(22) 04.12.2019	FRASCH, Benny
(11) EP3837581	(54) HIGH SPEED OPERATION OF AN	WEIDLE, Martin
(21) EP19762037.0	ELECTRIC MACHINE	BELL, Stefano
(22) 16.08.2019	(73) BAE Systems Controls Inc.	BAYHA, Johannes
(54) PRIVACY GLAZING STRUCTURE	(72) BOECKE, Matthew, S.	LAUER, Michael
WITH ASYMETRICAL PANE OFFSETS	LYONS, Arthur, P.	(74) ir. W.J.J.M. Kempes
FOR ELECTRICAL CONNECTION	SEHN, Brian, S.	(31) 102019206729
CONFIGURATIONS	(74) ir. W.J.J.M. Kempes	102019200310
(73) CARDINAL IG COMPANY	(31) 201816210118	102019200308
(72) DEMIGLIO, Andrew	(32) 05.12.2018	102019200307
BJERGAARD, Eric	(33) United States of America	202019100145 U
(74) ir. W.J.J.M. Kempes	(47) 30.08.2023	102019200311
(31) 201862719306 P	(51) B60L 53/18	(32) 09.05.2019
(32) 17.08.2018	H01R 31/06	11.01.2019
(33) United States of America	(11) EP4029722	11.01.2019
(47) 19.07.2023	(21) EP22150130.7	11.01.2019
(51) B41M 3/00	(22) 04.01.2022	11.01.2019
B41M 3/14	(54) A CHARGER ASSEMBLY	11.01.2019
B41M 5/382	(73) Defa AS	(33) Germany
B44C 1/17	(72) Kopperud, Agnar	Germany
B42D 25/40	(74) dr. R.C. van Duijvenbode c.s.	Germany
(11) EP3573836	(31) 20210054	Germany
(21) EP18745121.6	(32) 15.01.2021	Germany
(22) 30.01.2018	(33) Norway	Germany
(54) PLASTIC CARD PRINTING WITH	(47) 09.08.2023	(47) 06.09.2023
THERMALLY TRANSFERRABLE	(51) B62B 1/12	(51) B62D 55/12
ADHESIVE	E06C 1/397	(11) EP3871957
(73) Entrust Corporation	(11) EP3697669	(21) EP20205621.4
(72) BEECH, Brian	(21) EP18749350.7	(22) 04.11.2020
(74) dr. R.C. van Duijvenbode c.s.	(22) 31.07.2018	(54) CATERPILLAR TRACK
(31) 201762452071 P	(54) MULTIPURPOSE TRANSPORT	(73) CLAAS Selbstfahrende Erntemaschinen
(32) 30.01.2017	TROLLEY	GmbH
(33) United States of America	(73) P Invent AB	(72) Uesbeck, Tobias
(47) 27.09.2023	(72) EKBLOM, Per	Fedrau, Anna
(51) B43K 8/00	(74) ir. J.C. Volmer c.s.	Dopheide, Gregor
B43K 19/14	(31) 1751290	(74) ir. W.J.J.M. Kempes
B43K 19/16	(32) 18.10.2017	(31) 102020105169
B43K 21/00	(33) Sweden	(32) 27.02.2020
B43K 5/00	(47) 19.07.2023	(33) Germany
B43K 7/00	(51) B62B 7/06	(47) 06.09.2023
B43K 27/00	(11) EP3853101	(51) B62D 59/04
A45D 40/20	(21) EP19790769.4	(11) EP3552932
(11) EP3164269	(22) 17.09.2019	(21) EP19167634.5
(21) EP15734570.3	(54) A FOLDABLE PUSH CHAIR	(22) 05.04.2019
(22) 24.06.2015	(73) Jijibaba Limited	(54) TRAILER AND VEHICLE AUXILIARY
(54) WRITING, DRAWING, MARKING	(72) SCHLAGMAN, Richard	DRIVE PARTICULARLY FOR A
AND/OR PAINTING UTENSIL OR	DAHLSTRÖM, Björn	TRAILER
COSMETICS IMPLEMENT OR INPUT	(74) dr. W.A.H.M. Van Borm	(73) Reich GmbH Regel- und
DEVICE FOR CONTACT-SENSITIVE	(31) 201821013	Sicherheitstechnik
SURFACES, AND METHOD FOR	201815208	(72) Welle, Rudolf
PRODUCING THE SAME	(32) 21.12.2018	Bender, Steffen
(73) STAEDTLER Mars GmbH & Co. KG	18.09.2018	Kunz, Thomas
(72) THIES, Andreas	(33) United Kingdom	Schaurer, Oliver
HANDFEST, Markus	United Kingdom	Beijersbergen van henegouwen, Cornelis
(74) ir. F.A. Geurts c.s.	(47) 19.07.2023	Martin
(31) 102014010308	(51) B62D 53/00	(74) J.M.H. Duyver lic.
(32) 02.07.2014		(31) 202018101924 U

(32) 10.04.2018	(31) 201662336242 P	(51) B65G 47/53
(33) Germany	(32) 13.05.2016	B65G 47/88
(47) 19.07.2023	(33) United States of America	B65G 15/10
(51) B63H 9/06	(47) 09.08.2023	(11) EP3802382
B64D 17/02	(51) B65D 90/00	(21) EP19752423.4
(11) EP3768590	B65D 85/48	(22) 04.06.2019
(21) EP19715822.3	(11) EP3663231	(54) CONVEYING APPARATUS AND
(22) 18.03.2019	(21) EP18894177.7	METHOD OF CONVEYING TAMPON
(54) FLEXIBLE WING COMPRISING AN	(22) 29.08.2018	APPLICATORS
ACTIVE AIR INLET AND A PASSIVE AIR	(54) METHOD FOR MOUNTING INTERNAL	(73) Ruggli Projects AG
INLET	SUPPORT BEAMS OF CONTAINER	(72) SCHULER, Samuel
(73) AIRSEAS	AND CONTAINER	ZUDDAS, Antonello
(72) GAGNAIRE, Benoît	(73) Beijing Handler Multimodal Transport	(74) dr. R.C. van Duijvenbode c.s.
(74) ir. W.J.J.M. Kempes	Co., Ltd.	(31) 7132018
(31) 1852320	(72) ZHANG, Lizhou	(32) 05.06.2018
(32) 19.03.2018	(74) ir. W.J.J.M. Kempes	(33) Switzerland
(33) France	(31) 201711471715	(47) 13.09.2023
(47) 02.08.2023	(32) 29.12.2017	(51) B67D 1/08
(51) B65D 5/56	(33) China	B67D 3/00
B65D 5/64	(47) 04.10.2023	G07F 13/06
B65D 65/46	(51) B65G 1/04	(11) EP2396271
B65D 81/38	B65G 1/137	(21) EP10705477.7
(11) EP3873819	(11) EP3697705	(22) 11.02.2010
(21) EP19877815.1	(21) EP18759937.8	(54) BEVERAGE DISPENSE VALVE
(22) 01.11.2019	(22) 27.08.2018	CONTROLLED BY WIRELESS
(54) TEMPERATURE INSULATED	(54) BIN HOLDING DEVICE	TECHNOLOGY
PACKAGING SYSTEMS AND RELATED	(73) Autostore Technology AS	(73) PepsiCo, Inc.
METHODS	(72) HOGNALAND, Ingvar	(72) SEGLET, William, W.
(73) Life Technologies Corporation	(74) dr. A. Krebs	GRAY, Alex, L.
(72) BARNITZ, Eric	(31) 20171688	UBIDIA, Fernando, A.
MADANAGOPAL, Arunkumar	(32) 20.10.2017	STEIN, Aaron, M.
(74) ir. W.J.J.M. Kempes	(33) Norway	LEWIS, John, F.
(31) 201862755071 P	(47) 26.07.2023	(74) J.M.H. Duyver lic.
(32) 02.11.2018	(51) B65G 1/04	(31) 151770 P
(33) United States of America	B65G 1/137	(32) 11.02.2009
(47) 13.09.2023	(11) EP3784607	(33) United States of America
(51) B65D 19/31	(21) EP19719290.9	(47) 13.09.2023
(11) EP3573894	(22) 24.04.2019	(51) B82Y 40/00
(21) EP18700602.8	(54) AUTOMATED STORAGE AND	G01N 21/64
(22) 22.01.2018	RETRIEVAL SYSTEM COMPRISING A	G01N 33/553
(54) PALLET COMPRISING FOLDED	RELAY MODULE AND A METHOD OF	B01L 3/00
WOODEN COMPOSITE AND METHOD	OPERATING SUCH A SYSTEM	(11) EP3851835
FOR MANUFACTURING A PALLET	(73) Autostore Technology AS	(21) EP20213326.0
(73) Mock Beteiligungsgesellschaft mbH	(72) AUSTRHEIM, Trond	(22) 11.12.2020
(72) KUHMAN, Jochen	FJELDHEIM, Ivar	(54) METASURFACE DEVICE
KUJUS-TENEKEDSHIJEV, Roman	(74) dr. A. Krebs	(73) Samsung Electronics Co., Ltd.
ALBRECHT, Matthias	(31) 20180578	(72) SIDDIQUE, Radwanul Hasan
(74) ir. F.A. Geurts c.s.	(32) 25.04.2018	CHOO, Hyuck
(31) 17153143	(33) Norway	(74) ir. H.A. Witmans c.s.
(32) 25.01.2017	(47) 04.10.2023	(31) 202017000268
(33) European Patent Office (EPO)	(51) B65G 1/137	202063013524 P
(47) 19.07.2023	B65G 47/38	202062962923 P
(51) B65D 23/08	B65G 47/61	(32) 21.08.2020
A61J 1/16	(11) EP3592668	21.04.2020
(11) EP3455142	(21) EP18700162.3	17.01.2020
(21) EP17725819.1	(22) 10.01.2018	(33) United States of America
(22) 12.05.2017	(54) METHOD FOR ORDER-PICKING	United States of America
(54) VIAL SLEEVE ASSEMBLY	GOODS AND ORDER-PICKING	United States of America
(73) Amgen Inc.	SYSTEM FOR CARRYING OUT THE	(47) 26.07.2023
(72) BANTUG, Anthony	METHOD	(51) C01B 17/88
MISMAR, Wael	(73) FERAG AG	C01B 17/90
TAN, Kenneth	(72) SUTTER, Stefan	C01B 17/94
ABED, Tark	(74) ir. H.A. Witmans c.s.	C01B 21/38
MARSH, Justin, Allen	(31) 2772017	C07C 201/16
BOGDAN, Mario	(32) 07.03.2017	C07C 201/08
COMISO, Scott	(33) Switzerland	(11) EP3867196
SCHRYVER, Brian	(47) 30.08.2023	(21) EP19794103.2
(74) ir. W.J.J.M. Kempes		(22) 17.10.2019

(54) PROCESS FOR WORKUP OF MIXED ACID AND WASTEWATER FROM THE NITRATION OF AROMATICS	(21) EP18762021.6 (22) 09.08.2018 (54) METHOD OF CONTROLLING SALINITY OF AN INJECTION WATER DURING COMMISSIONING OF AN INJECTION WELL	KAEOTHIP, Sophon dr. R.C. van Duijvenbode c.s. (31) 1701007764 (32) 25.12.2017 (33) Thailand (47) 16.08.2023
(73) PLINKE GmbH (72) WINTERBAUER, Hansjürgen (74) J.M.H. Duyver lic. (31) 102018217955 (32) 19.10.2018 (33) Germany (47) 23.08.2023	(73) BP Exploration Operating Company Limited (72) COLLINS, Ian Ralph COUVES, John William CROUCH, John Henry WILLIAMS, John Dale (74) ir. F.A. Geurts c.s. (31) 201712847 (32) 10.08.2017 (33) United Kingdom (47) 04.10.2023	(51) C07C 51/41 C07C 51/377 C07C 55/14 C07C 253/00 C07C 255/04 C07C 209/00 C07C 211/12 C07D 309/30 C07D 201/08 C07D 223/10 C07C 51/235 C08G 63/16 C08G 69/26 C08G 69/14 C08G 69/36 (11) EP3848347 (21) EP21160064.8 (22) 11.06.2010
(51) C01B 25/01 C05B 13/02 C22B 17/02 (11) EP3475220 (21) EP17740478.7 (22) 23.06.2017 (54) APPARATUS FOR REMOVING CADMIUM FROM A CALCINED MATERIAL	(51) C04B 28/04 C04B 111/10 B28B 11/24 (11) EP4010296 (21) EP19758606.8 (22) 06.08.2019 (54) METHOD FOR PRODUCTION OF CONCRETE PRECAST ELEMENTS, IN PARTICULAR RAILWAY SLEEPERS	(51) C07C 51/235 C08G 63/16 C08G 69/26 C08G 69/14 C08G 69/36 (11) EP3848347 (21) EP21160064.8 (22) 11.06.2010 (54) PRODUCTION OF GLUCARIC ACID AND DERIVATIVES FROM GLUCOSE
(73) FLSmidth A/S (72) PROKESCH, Michael Edward (74) J.M.H. Duyver lic. (31) 201662355014 P (32) 27.06.2016 (33) United States of America (47) 20.09.2023	(73) Pawluk, Jaroslaw Jerzy (72) Pawluk, Jaroslaw Jerzy (74) ir. W.J.J.M. Kempes (47) 26.07.2023	(54) PRODUCTION OF GLUCARIC ACID AND DERIVATIVES FROM GLUCOSE (73) Archer-Daniels-Midland Company (72) BOUSSIE, Thomas R. MURPHY, Vincent J. SHOEMAKER, James ARCHER, Raymond DIAS, Eric L. JIANG, Hong FRESCO, Zachary M. (74) J.M.H. Duyver lic. (31) 31119010 P 26841409 P (32) 05.03.2010 13.06.2009 (33) United States of America United States of America (47) 20.09.2023
(51) C01B 32/80 C07C 263/10 B01J 7/02 B01J 19/00 B01J 19/24 (11) EP3645462 (21) EP18732354.8 (22) 22.06.2018 (54) ENERGY-EFFICIENT PROCESS FOR PROVIDING PHOSGENE STEAM	(73) Pawluk, Jaroslaw Jerzy (72) Pawluk, Jaroslaw Jerzy (74) ir. W.J.J.M. Kempes (47) 26.07.2023	(73) Archer-Daniels-Midland Company (72) BOUSSIE, Thomas R. MURPHY, Vincent J. SHOEMAKER, James ARCHER, Raymond DIAS, Eric L. JIANG, Hong FRESCO, Zachary M. (74) J.M.H. Duyver lic. (31) 31119010 P 26841409 P (32) 05.03.2010 13.06.2009 (33) United States of America United States of America (47) 20.09.2023
(73) Covestro Intellectual Property GmbH & Co. KG (72) MERKEL, Michael KOBYLKA, Manfred CARRASCOSA MAS, Maria MORBACH, Jan JENS, Christian, Morten EHRIG, Martin (74) ir. W.J.J.M. Kempes (31) 17178652 (32) 29.06.2017 (33) European Patent Office (EPO) (47) 02.08.2023	(51) C07C 1/20 C07C 11/04 C07C 11/06 B01J 8/02 B01J 8/04 B01J 19/24 (11) EP3733633 (21) EP19020320.8 (22) 03.05.2019 (54) MULTILINE SYSTEM AND METHOD FOR THE PRODUCTION OF OLEFINS FROM OXYGENATES	(54) PRODUCTION OF GLUCARIC ACID AND DERIVATIVES FROM GLUCOSE (73) Archer-Daniels-Midland Company (72) BOUSSIE, Thomas R. MURPHY, Vincent J. SHOEMAKER, James ARCHER, Raymond DIAS, Eric L. JIANG, Hong FRESCO, Zachary M. (74) J.M.H. Duyver lic. (31) 31119010 P 26841409 P (32) 05.03.2010 13.06.2009 (33) United States of America United States of America (47) 20.09.2023
(51) C01B 33/18 C01B 33/193 (11) EP3990389 (21) EP20734019.1 (22) 23.06.2020 (54) PRECIPITATED SILICA AND PROCESS FOR ITS MANUFACTURE	(73) L'AIR LIQUIDE, SOCIÉTÉ ANONYME POUR L'ÉTUDE ET L'EXPLOITATION DES PROCÉDÉS GEORGES CLAUDE (72) Castillo-Welter, Frank Haag, Stéphane Williams, Bryce Drosdzol, Christopher (74) ir. W.J.J.M. Kempes (47) 02.08.2023	(51) C07C 67/29 (11) EP3986854 (21) EP20733427.7 (22) 18.06.2020 (54) METHOD FOR PRODUCING GLYCEROL MONO(METH)ACRYLATE
(73) RHODIA OPERATIONS (72) GARBEY, Pascaline COLBEAU-JUSTIN, Frédéric BERTRY, Laure (74) ir. W.J.J.M. Kempes (31) 19305861 (32) 27.06.2019 (33) European Patent Office (EPO) (47) 19.07.2023	(51) C07C 1/20 C07C 11/04 C07C 11/06 B01J 8/02 B01J 8/04 B01J 19/24 (11) EP3733633 (21) EP19020320.8 (22) 03.05.2019 (54) MULTILINE SYSTEM AND METHOD FOR THE PRODUCTION OF OLEFINS FROM OXYGENATES	(73) Evonik Operations GmbH (72) BESTGEN, Sebastian CASPARI, Maik SCHÜTZ, Thorben BLEITH, Tim (74) ir. W.J.J.M. Kempes (31) 19181573 (32) 21.06.2019 (33) European Patent Office (EPO) (47) 02.08.2023
(51) C02F 1/44 E21B 43/20 (11) EP3665129	(54) A CATALYST COMPOSITION FOR A PRODUCING PROCESS OF AN UNSATURATED CARBOXYLIC ACID SALT AND ITS DERIVATIVES FROM CARBON DIOXIDE AND OLEFIN (73) PTT Global Chemical Public Company Limited (72) WONGMAHASIRIKUN, Phonpimon CHOTCHATCHAWANKUL, Sucheewin PHOMPHRAI, Khamphee	(51) C07C 327/60 C07C 381/02 C07C 381/04 (11) EP3891126 (21) EP19824138.2 (22) 28.11.2019 (54) OXIDIZED DISULFIDE OIL SOLVENT COMPOSITIONS (73) Saudi Arabian Oil Company (72) KOSEOGLU, Omer, Refa

MULLER, Hendrik	OBST SANDER, Ulrike	(11) EP3898668
SALEEM, Qasim	DOLENTE, Cosimo	(21) EP19839558.4
AL-HAJJI, Adnan	KUHN, Bernd	(22) 18.12.2019
ALAWANI, Nadrah, Abdullah	GOERGLER, Annick	(54) ANTIBODIES THAT NEUTRALIZE
ADAM, Frederick, Marie	STEINER, Sandra	HEPATITIS B VIRUS AND USES
HODGKINS, Robert, Peter	RUEHER, Daniel	THEREOF
(74) ir. W.J.J.M. Kempes	RICCI, Antonio	(73) Humabs Biomed SA
(31) 201816210266	HEWINGS, David	(72) CORTI, Davide
(32) 05.12.2018	(74) drs. C.M.A. Quintelier	(74) dr. R.C. van Duijvenbode c.s.
(33) United States of America	(31) 19181754	(31) 201962860085 P
(47) 13.09.2023	(32) 21.06.2019	201862782274 P
(51) C07D 249/12	(33) European Patent Office (EPO)	(32) 11.06.2019
A01N 43/00	(47) 30.08.2023	19.12.2018
A01N 43/653	(51) C07F 5/02	(33) United States of America
(11) EP4065564	A61P 31/00	United States of America
(21) EP20808161.2	A61K 45/06	(47) 30.08.2023
(22) 24.11.2020	A61P 35/00	(51) C07K 16/24
(54) [ (1,5-DIPHENYL-1H-1,2,4-TRIAZOL-3- YL) OXY ] ACETIC ACID DERIVATIVES AND SALTS THEREOF, USEFUL OR CULTIVATING AGENTS CONTAINING THEM, METHOD FOR THE PRODUCTION THEREOF AND THEIR USE AS SAFENERS	(11) EP3952995	C07K 16/28
(73) Bayer Aktiengesellschaft	(21) EP20722196.1	C07K 16/32
(72) MOSRIN, Marc	(22) 10.04.2020	A61P 35/00
MÜLLER, Thomas	(54) BICYCLIC HETEROARYL DERIVATIVES AS ECTONUCLEOTIDE PYROPHOSPHATASE	A61K 39/00
REINGRUBER, Anna, Maria	PHOSPHODIESTERASE 1 INHIBITORS	A61P 29/00
ROSINGER, Christopher, Hugh	(73) Riboscience LLC	(11) EP3443006
HELMKE, Hendrik	(72) HAWLEY, Ronald	(21) EP17732263.3
DITTMEN, Jan	KLUMPP, Klaus	(22) 13.04.2017
(74) ir. W.J.J.M. Kempes	(74) dr. R.C. van Duijvenbode c.s.	(54) TRISPECIFIC AND/OR TRIVALENT BINDING PROTEINS
(31) 19211511	(31) 201962881111 P	(73) SANOFI
(32) 26.11.2019	201962833455 P	(72) YANG, Zhi-Yong
(33) European Patent Office (EPO)	(32) 31.07.2019	NABEL, Gary, J.
(47) 26.07.2023	12.04.2019	WU, Lan
(51) C07D 401/12	(33) United States of America	WEI, Ronnie
C07D 401/14	United States of America	RAO, Ercole
(11) EP4010331	(47) 20.09.2023	BENINGA, Jochen
(21) EP20758409.5	(51) C07K 1/16	SEUNG, Edward
(22) 07.08.2020	C07K 1/18	CORVEY, Carsten
(54) A METHOD FOR PREPARING IVOSIDENIB AND AN INTERMEDIATE THEREOF	C07K 1/22	LEUSCHNER, Wulf Dirk
(73) Les Laboratoires Servier	(11) EP3730511	BEIL, Christian
(72) VO, Nha, Huu	(21) EP20179961.6	LANGE, Christian
SIZEMORE, Jacob, Paul	(22) 17.02.2017	(74) ir. W.J.J.M. Kempes
ZHANG, Shijie	(54) PROTEIN PURIFICATION	(31) 201662412187 P
(74) dr. R.C. van Duijvenbode c.s.	(73) UCB Biopharma SRL	201662331191 P
(31) 201962884480 P	(72) ROSE, Michael Harry	201662322036 P
(32) 08.08.2019	(74) dr. R.C. van Duijvenbode c.s.	17305298
(33) United States of America	(31) 201602938	(32) 24.10.2016
(47) 04.10.2023	(32) 19.02.2016	03.05.2016
(51) C07D 487/04	(33) United Kingdom	13.04.2016
A61P 35/00	(47) 20.09.2023	17.03.2017
A61K 31/496	(51) C07K 14/725	(33) United States of America
A61K 31/5377	(11) EP3433270	United States of America
A61K 31/4709	(21) EP17715521.5	United States of America
A61K 31/454	(22) 22.03.2017	European Patent Office (EPO)
A61K 31/4439	(54) T CELL RECEPTORS	(47) 02.08.2023
(11) EP3986897	(73) Immunocore Limited	(51) C07K 16/28
(21) EP20734871.5	(72) LI, Yi	A61K 39/395
(22) 19.06.2020	MAHON, Tara	(11) EP3344655
(54) EGFR INHIBITOR FOR THE TREATMENT OF CANCER	(74) dr. R.C. van Duijvenbode c.s.	(21) EP16763663.8
(73) F. Hoffmann-La Roche AG	(31) 201604953	(22) 31.08.2016
(72) JAESCHKE, Georg	(32) 23.03.2016	(54) USE OF ANTI-CD40 ANTIBODIES FOR TREATMENT OF LUPUS NEPHRITIS
NAGEL, Yvonne, Alice	(33) United Kingdom	(73) Boehringer Ingelheim International GmbH
	(47) 20.09.2023	(72) FREEMAN, Thomas B.
	(51) C07K 16/08	NABOZNY, Gerald Henry
	C07K 16/10	STEFFGEN, Juergen
	A61K 31/522	SCHOLL, Paul
	A61K 39/395	BRODEUR, Scott Ronald
	A61P 31/14	RAMANUJAM, Meera
	A61P 31/20	

(74) mr. R. Zwamborn	(21) EP20871584.7	(31) 2015034842
(31) 201662287587 P	(22) 28.08.2020	(32) 25.02.2015
201562257336 P	(54) POLYPHENYLENE ETHER	(33) Japan
201562212810 P	COMPOSITION	(47) 11.10.2023
(32) 27.01.2016	(73) Asahi Kasei Kabushiki Kaisha	(51) C09C 1/36
19.11.2015	(72) OTANI, Shoji	(11) EP3145999
01.09.2015	FUKUEN, Shinichi	(21) EP15725860.9
(33) United States of America	KIM, JAEHOON	(22) 21.05.2015
United States of America	FUKUOKA, Ryoko	(54) COATED TITANIUM DIOXIDE
United States of America	FUKUOKA, Hiroshi	DISPERSIONS
(47) 26.07.2023	HONDA, Noko	(73) Venator Materials UK Limited
(51) C07K 16/28	(74) ir. H.A. Witmans c.s.	(72) GIBBONS, Linda
C07K 16/30	(31) 2019182437	BURKE, Alison
(11) EP3402821	2019182436	BROWN, Andrew E
(21) EP17701290.3	(32) 02.10.2019	EDWARDS, John L
(22) 16.01.2017	02.10.2019	JONES, Anthony G
(54) PSMA BINDING ANTIBODY AND USES	(33) Japan	(74) dr. A. Ellens c.s.
THEREOF	Japan	(31) 201409209
(73) Deutsches Krebsforschungszentrum	(47) 11.10.2023	(32) 23.05.2014
Stiftung des öffentlichen Rechts	(51) C08G 73/10	(33) United Kingdom
Eberhard Karls Universität Tübingen	C08J 5/18	(47) 19.07.2023
(72) SALIH, Helmut	C08L 79/08	(51) C09D 5/00
VOGT, Fabian	C08G 73/14	(11) EP3810700
JUNG, Gundram	C09D 179/08	(21) EP19732343.9
ZEKRI-METREF, Latifa	(11) EP3315534	(22) 19.06.2019
(74) ir. H.A. Witmans c.s.	(21) EP16814773.4	(54) DISPERSION PAINT
(31) 16151281	(22) 27.06.2016	(73) Brillux GmbH & Co. KG
(32) 14.01.2016	(54) POLYAMIDE-IMIDE PRECURSOR,	(72) HÖRSTING, Ingo
(33) European Patent Office (EPO)	POLYAMIDE-IMIDE FILM, AND	LEUSMANN, Jan
(47) 23.08.2023	DISPLAY DEVICE COMPRISING SAME	BENDER, Georg
(51) C08F 214/22	(73) Kolon Industries, Inc.	HERTEL, Patrick
(11) EP3492500	(72) JUNG, Hak Gee	FRERICK, Sebastian
(21) EP18209162.9	PARK, Hyo Jun	(74) ir. A. Blokland c.s.
(22) 29.11.2018	JU, Chul Ha	(31) 102018004944
(54) USE OF A CROSSLINKED PRODUCT	(74) dr. R.C. van Duijvenbode c.s.	(32) 22.06.2018
OF A FLUORINE-CONTAINING	(31) 20160079424	(33) Germany
AMORPHOUS ELASTOMER	20150091076	(47) 02.08.2023
(73) Daikin Industries, Ltd.	(32) 24.06.2016	(51) C11D 3/00
(72) Kamiya, Yusuke	26.06.2015	A61Q 5/02
Terada, Junpei	(33) Korea (Republic)	A61K 8/73
(74) ir. W.J.J.M. Kempes	Korea (Republic)	A61Q 19/00
(31) 2017231860	(47) 11.10.2023	C11D 3/22
(32) 01.12.2017	(51) C08L 23/12	(11) EP3470505
(33) Japan	(11) EP3421537	(21) EP18199322.1
(47) 20.09.2023	(21) EP17178711.2	(22) 09.10.2018
(51) C08G 65/26	(22) 29.06.2017	(54) CLEANING COMPOSITION
(11) EP3914634	(54) POLYPROPYLENE COMPOSITION	(73) Shin-Etsu Chemical Co., Ltd.
(21) EP20701439.0	WITH OUTSTANDING IMPACT	(72) NIINOBE, Shingo
(22) 20.01.2020	PERFORMANCE	YAMAMOTO, Atsushi
(54) WATER-BASED PIGMENT	(73) Borealis AG	KITAMURA, Akira
PREPARATIONS, THE PRODUCTION	(72) KNIESSEL, Claudia	(74) ir. W.J.J.M. Kempes
THEREOF AND THE USE OF THE	GRESTENBERGER, Georg	(31) 2017197583
SAME	LUMMERSTORFER, Thomas	(32) 11.10.2017
(73) Clariant International Ltd	(74) drs. O. Griebing	(33) Japan
(72) HÖVELMANN, Felix	(47) 02.08.2023	(47) 02.08.2023
BECK, Dietmar	(51) C08L 59/00	(51) C12N 5/071
KUPFER, Rainer	C08K 5/098	C12N 7/00
SCHEINHARDT, Benjamin	C08L 15/00	C12N 15/09
GABEL, Dorothee	C08L 51/04	(11) EP3505620
(74) J.M.H. Duyver lic.	(11) EP3263645	(21) EP17843522.8
(31) 102019200789	(21) EP16755470.8	(22) 21.08.2017
(32) 23.01.2019	(22) 23.02.2016	(54) 2D ORGANOID FOR INFECTION AND
(33) Germany	(54) RESIN COMPOSITION AND ARTICLE	CULTURE OF HUMAN DIARRHEA
(47) 30.08.2023	MOLDED THEREFROM	VIRUS, AND USE OF SAID 2D
(51) C08G 65/44	(73) Mitsubishi Chemical Corporation	ORGANOID
C08G 65/48	(72) MATSUOKA, Shinji	(73) Keio University
C08L 71/12	FUJITA, Saki	(72) SATO, Toshiro
(11) EP4039728	(74) dr. R.C. van Duijvenbode c.s.	KATAYAMA, Kazuhiko

(74) ir. H.A. Witmans c.s.	United States of America	(31) 201762580906 P
(31) 2016163711	United States of America	(32) 02.11.2017
(32) 24.08.2016	United States of America	(33) United States of America
(33) Japan	(47) 27.09.2023	(47) 27.09.2023
(47) 26.07.2023	(51) C12N 15/62	(51) C12Q 1/6806
(51) C12N 9/26	A61K 35/17	(11) EP3950958
C12P 7/06	A61P 35/00	(21) EP21175553.3
C12P 19/02	C07K 14/725	(22) 12.08.2019
C13K 1/02	C07K 16/00	(54) SEQUENCING ALGORITHM
(11) EP3473710	C07K 16/28	(73) Illumina Singapore Pte. Ltd.
(21) EP17813276.7	C07K 19/00	(72) TO, Joyce
(22) 12.06.2017	C12N 15/85	MONAHAN, Leigh G
(54) SACCHARIFICATION REACTION	C12N 5/10	DARLING, Aaron E
SOLUTION, SACCHARIFYING	C07K 16/32	IMELFORT, Michael
ENZYME COMPOSITION, SUGAR	C07K 14/73	BURKE, Catherine M
PRODUCTION METHOD, AND	(11) EP3102681	(74) ir. W.J.J.M. Kempes
ETHANOL PRODUCTION METHOD	(21) EP15746948.7	(31) 201907101
(73) Nissan Chemical Corporation	(22) 06.02.2015	201813171
(72) ODAKA, Kazutoshi	(54) TRIFUNCTIONAL T CELL-ANTIGEN	(32) 20.05.2019
SEKIGUCHI, Kazutoshi	COUPLER AND METHODS AND USES	13.08.2018
(74) dr. ir. F.M. van Bouwelen	THEREOF	(33) United Kingdom
(31) 2016121206	(73) McMaster University	United Kingdom
(32) 17.06.2016	(72) GIRI, Rajanish	(47) 04.10.2023
(33) Japan	BRAMSON, Jonathan	(51) C12Q 1/6806
(47) 27.09.2023	DENISOVA, Galina	(11) EP3969613
(51) C12N 9/52	MWAWASI, Kenneth Anthony	(21) EP21713210.9
(11) EP4015627	HELSEN, Christopher W.	(22) 24.02.2021
(21) EP21208743.1	(74) dr. A. Krebs	(54) KITS FOR GENOTYPING
(22) 10.01.2013	(31) 201461936906 P	(73) Illumina Cambridge Limited
(54) CLOSTRIDIUM HISTOLYTICUM	(32) 07.02.2014	Illumina, Inc.
ENZYME	(33) United States of America	(72) VERMAAS, Eric Hans
(73) Endo Global Ventures	(47) 04.10.2023	SLATTER, Andrew
(72) HERBER, Wayne	(51) C12N 15/82	(74) dr. R.C. van Duijvenbode c.s.
(74) dr. R.C. van Duijvenbode c.s.	C12Q 1/6895	(31) 202062981866 P
(31) 201261585909 P	(11) EP3956455	(32) 26.02.2020
(32) 12.01.2012	(21) EP20719138.8	(33) United States of America
(33) United States of America	(22) 06.04.2020	(47) 04.10.2023
(47) 27.09.2023	(54) METHOD AND KIT FOR THE	(51) C12Q 1/6851
(51) C12N 15/10	IDENTIFICATION OF VACCINIUM	C12Q 1/6804
C12Q 1/6811	MYRTILLUS	G01N 33/53
C12N 15/115	(73) Indena S.p.A.	G01N 33/68
(11) EP3828272	(72) LONGO, Valeria	C12Q 1/6806
(21) EP20213211.4	BERLANDA, Davide	(11) EP3759249
(22) 18.03.2017	(74) dr. R.C. van Duijvenbode c.s.	(21) EP19760658.5
(54) METHOD OF ENRICHMENT OF	(31) 19169555	(22) 01.03.2019
OLIGONUCLEOTIDE PROBES	(32) 16.04.2019	(54) QUANTIFICATION OF NUCLEOSOME
(73) Caris Science, Inc.	(33) European Patent Office (EPO)	MODIFICATIONS USING CHEMICALLY-
(72) MIGLARESE, Mark	(47) 26.07.2023	DEFINED RECOMBINANT
HORNUNG, Tassilo	(51) C12Q 1/68	NUCLEOSOMES
SPETZLER, David	C12Q 1/6809	(73) Epcypher, Inc.
DOMENYUK, Valeriy	C12Q 1/6886	(72) MARUNDE, Matthew R.
O'NEILL, Heather	C12Q 1/6883	WHELIHAN, Matthew F.
(74) ir. W.J.J.M. Kempes	G16B 20/10	KEOGH, Michael-Christopher
(31) 201762472953 P	G16B 40/20	SUN, Zu-Wen
201762457691 P	G16B 20/00	HALL, Nathan W.
201662432561 P	(11) EP3704264	JOHNSTONE, Andrea L.
201662420497 P	(21) EP18874285.2	COWLES, Martis William
201662413361 P	(22) 02.11.2018	(74) ir. W.J.J.M. Kempes
201662310665 P	(54) USING NUCLEIC ACID SIZE RANGE	(31) 201862637066 P
(32) 17.03.2017	FOR NONINVASIVE PRENATAL	(32) 01.03.2018
10.02.2017	TESTING AND CANCER DETECTION	(33) United States of America
09.12.2016	(73) Grail, Inc.	(47) 30.08.2023
10.11.2016	The Chinese University of Hong Kong	(51) C21D 8/02
26.10.2016	(72) CHAN, Kwan Chee	C22C 38/02
18.03.2016	LO, Yuk-Ming Dennis	C22C 38/06
(33) United States of America	JIANG, Peiyong	C22C 38/22
United States of America	CHIU, Rossa Wai Kwun	C22C 38/38
United States of America	(74) dr. R.C. van Duijvenbode c.s.	C21D 1/18



C21D 1/26	F04D 17/12	METHOD FOR PRODUCING AN
C21D 9/46	F04D 29/70	ASPHALT ROAD
(11) EP3899067	(11) EP4060089	(73) KIBAG Bauleistungen AG
(21) EP19835508.3	(21) EP22161012.4	(72) Debrunner, Christian
(22) 17.12.2019	(22) 09.03.2022	Scherrer, Ralf
(54) COLD ROLLED AND HEAT-TREATED	(54) PROCESS AND APPARATUS FOR	(74) ir. H.A. Witmans c.s.
STEEL SHEET AND METHOD OF	COMPRESSING HYDROGEN GAS IN A	(31) 2562020
MANUFACTURING THE SAME	CENTRIFUGAL COMPRESSOR	(32) 04.03.2020
(73) ArcelorMittal	(73) Air Products and Chemicals, Inc.	(33) Switzerland
(72) SOLER, Michel	(72) WEHRMAN, Joseph Gerard	(47) 19.07.2023
NADLER, Aude	HIGGINBOTHAM, Paul	(51) E02B 17/00
JACOLOT, Ronan	WHITE, Vincent	(11) EP3775391
GIRINA, Olga	(74) dr. R.C. van Duijvenbode c.s.	(21) EP19721121.2
ALEXANDRE, Patrice	(31) 202117201399	(22) 02.04.2019
GHASSEMI-ARMAKI, Hassan	(32) 15.03.2021	(54) OFFSHORE PLATFORM DECK
BOUZAT, Magali	(33) United States of America	REMOVAL SYSTEM AND METHOD
KOLTSOV, Alexey	(47) 13.09.2023	(73) Saipem S.p.A.
PANAHI, Damon	(51) C25B 1/23	(72) MCCARTHY, Vincent George
CHAKRABORTY, Anirban	C25B 11/032	(74) dr. R.C. van Duijvenbode c.s.
(74) dr. R.C. van Duijvenbode c.s.	C25B 11/081	(31) 20180004201
(31) PCT/IB2018/060251	(11) EP3642391	(32) 04.04.2018
(32) 18.12.2018	(21) EP18735210.9	(33) Italy
(33) World Intellectual Property Office (WIPO)	(22) 19.06.2018	(47) 26.07.2023
(47) 13.09.2023	(54) METHOD, USE AND ELECTROLYSIS	(51) E02F 3/43
(51) C22F 1/04	CELL COMPRISING GAS DIFFUSION	B66F 9/20
C25D 11/14	ELECTRODE FOR REDUCING	B66F 9/24
C22C 21/06	CARBON DIOXIDE	E02F 9/08
(11) EP3500689	(73) Covestro Intellectual Property GmbH &	E02F 9/12
(21) EP17758674.0	Co. KG	E02F 9/20
(22) 11.08.2017	(72) EIDEN, Stefanie	(11) EP3901379
(54) ANODIZED ALUMINUM WITH DARK	BURBACH, Thomas	(21) EP21163415.9
GRAY COLOR	VENZ, Michael	(22) 18.03.2021
(73) Novelis, Inc.	RITTERMEIER, Andre	(54) MOBILE WORK MACHINE
(72) KANG, DaeHoon	(74) ir. W.J.J.M. Kempes	(73) Liebherr-Hydraulikbagger GmbH
BARKER, Simon	(31) 17177031	(72) Asam, Dirk
MATHUR, Devesh	(32) 21.06.2017	Bayer, Daniel
FRANK, Martin	(33) European Patent Office (EPO)	(74) dr. R.C. van Duijvenbode c.s.
(74) ir. W.J.J.M. Kempes	(47) 02.08.2023	(31) 102020108856
(31) 201662375932 P	(51) C25B 11/00	(32) 31.03.2020
(32) 17.08.2016	(11) EP3587622	(33) Germany
(33) United States of America	(21) EP18757069.2	(47) 04.10.2023
(47) 04.10.2023	(22) 21.02.2018	(51) E03D 9/08
(51) C23C 16/00	(54) POSITIVE ELECTRODE, POSITIVE	(11) EP3992382
C01B 32/184	ELECTRODE FOR WATER	(21) EP20204357.6
B82Y 30/00	ELECTROLYSIS, ELECTROLYSIS	(22) 28.10.2020
B82Y 40/00	CELL, AND METHOD FOR	(54) USE OF A SHOWER DEVICE
C23C 16/34	PRODUCING HYDROGEN	DESIGNED TO BE MOUNTED ON A
C01B 32/186	(73) Asahi Kasei Kabushiki Kaisha	BOWL
H05H 1/46	(72) HIRANO, Toshiyuki	(73) Geberit International AG
(11) EP3455389	YAMAGUCHI, Tatsuo	(72) LECHNER, Manuel
(21) EP17737069.9	YOSHIDA, Jun	CODIROLI, Mattia
(22) 11.05.2017	FUJIMOTO, Norikazu	ZWICKER, Maurus
(54) PROCESS FOR FABRICATION	FUJII, Yuichi	(74) dr. A. Krebs
OF GRAPHENE USING PLASMA	(74) J.M.H. Duyver lic.	(47) 27.09.2023
TECHNOLOGY	(31) 2017030517	(51) E06B 3/263
(73) Instituto Superior Técnico	2017030516	E06B 3/16
(72) DOS SANTOS DUARTE VIEIRA	(32) 21.02.2017	(11) EP3999707
HENRIQUES, Júlio Paulo	21.02.2017	(21) EP20739680.5
DA MOTA CAPITÃO LEMOS ALVES,	(33) Japan	(22) 13.07.2020
Luís Paulo	Japan	(54) INSULATION OF DOOR AND WINDOW
STEFANOVA TATAROVA, Elena	(47) 27.09.2023	FRAMES
SOARES GONÇALVES, Bruno Miguel	(51) E01C 19/42	(73) NMC S.A.
(74) ir. W.J.J.M. Kempes	E01C 19/00	(72) MEESEN, Silvain
(31) 2016109387	(11) EP3875687	SCHÖPGES, Florence
(32) 13.05.2016	(21) EP21156484.4	MAYERES, Jean-Pierre
(33) Portugal	(22) 11.02.2021	(74) ir. H.A. Witmans c.s.
(47) 19.07.2023	(54) DEVICE FOR INSTALLING ASPHALT	(31) 201905471
(51) C25B 1/04	ON A ROAD SUBSTRATE AND	(32) 18.07.2019

(33) Belgium	(31) CO20130071	PARK, Kwang Ho
(47) 09.08.2023	(32) 18.12.2013	LEE, Byoung Eon
(51) E21B 43/26	(33) Italy	(74) dr. A. Ellens c.s.
G01V 99/00	(47) 13.09.2023	(31) 20140143430
(11) EP3400546	(51) F21S 2/00	(32) 22.10.2014
(21) EP16884217.7	F21S 41/20	(33) Korea (Republic)
(22) 29.12.2016	F21S 41/141	(47) 23.08.2023
(54) EFFECTIVE PERMEABILITY	F21K 9/64	(51) F21V 13/02
UPSCALING FOR A DISCRETE	F21Y 115/10	F21V 15/01
FRACTURE NETWORK	H01L 25/075	F21V 3/02
(73) Geoquest Systems B.V.	H01L 33/50	F21Y 115/10
(72) JOONNEKINDT, Jean Pierre	H01L 33/54	F21Y 105/00
MALVESIN, Emmanuel	(11) EP3839323	(11) EP3591285
(74) ir. A. Blokland c.s.	(21) EP19849394.2	(21) EP19176108.9
(31) 1650015	(22) 31.07.2019	(22) 18.06.2013
(32) 04.01.2016	(54) LIGHTING DEVICE	(54) LIGHTING DEVICE
(33) France	(73) LG Innotek Co., Ltd.	(73) LG INNOTEK CO. LTD
(47) 19.07.2023	(72) HAN, Sa Rum	(72) PARK, Kwang Ho
(51) E21B 47/10	LEE, Jung Ju	KIM, Chul Hong
(11) EP3320379	(74) dr. R.C. van Duijvenbode c.s.	YANG, Hyun Duck
(21) EP16821890.7	(31) 20180095319	HYUN, Jun Chul
(22) 07.07.2016	(32) 16.08.2018	PARK, Moo Ryong
(54) MODULAR MOBILE FLOW METER	(33) Korea (Republic)	(74) dr. A. Ellens c.s.
SYSTEM	(47) 06.09.2023	(31) 20120065264
(73) Schlumberger Technology B.V.	(51) F21S 8/00	20120065260
(72) JOLIVET, Guillaume	F21V 23/06	20120065259
MOHAMED ZAIN, Muhammad Fuad Bin	F21V 23/00	(32) 18.06.2012
HUSSENET, Jean-Philippe	H05B 45/18	18.06.2012
VILSTRUP, Alexander Tuborg	H05B 45/20	18.06.2012
(74) ir. A. Blokland c.s.	F21S 2/00	(33) Korea (Republic)
(31) 201514793404	(11) EP3712487	Korea (Republic)
(32) 07.07.2015	(21) EP18894400.3	Korea (Republic)
(33) United States of America	(22) 26.12.2018	(47) 16.08.2023
(47) 19.07.2023	(54) COMBINED LAMP AND ILLUMINATION	(51) F23D 14/84
(51) F04D 25/06	SYSTEM	F23D 14/58
F04D 29/42	(73) Oppl Lighting Co., Ltd.	C21B 11/00
(11) EP3833875	Suzhou Oppl Lighting Co., Ltd.	F23L 7/00
(21) EP19725310.7	(72) ZHANG, Zhenghua	F23D 14/56
(22) 14.05.2019	WU, Jun	F23D 14/22
(54) RADIAL VENTILATOR	(74) ir. F.A. Geurts c.s.	C21C 5/46
(73) EBM-PAPST ST. GEORGEN GMBH &	(31) 201721917952 U	C21C 5/52
CO. KG	201711484926	F27D 99/00
(72) EHLERS, Volker	(32) 29.12.2017	(11) EP3677832
SCHAAKE, Katrin	29.12.2017	(21) EP18851710.6
(74) ir. W.J.J.M. Kempes	(33) China	(22) 26.07.2018
(31) 102018129608	China	(54) OXYGEN-ENRICHED BURNER AND
102018129611	(47) 09.08.2023	HEATING METHOD USING OXYGEN-
102018129613	(51) F21S 41/141	ENRICHED BURNER
(32) 23.11.2018	F21S 41/24	(73) Taiyo Nippon Sanso Corporation
23.11.2018	F21S 41/20	(72) SAITO, Takeshi
23.11.2018	F21S 41/30	YAMAMOTO, Yasuyuki
(33) Germany	F21S 43/14	YAMAGUCHI, Masashi
Germany	F21S 43/239	HAGIHARA, Yoshiyuki
Germany	F21S 43/245	SEINO, Naoki
(47) 26.07.2023	F21S 43/249	(74) dr. A. Krebs
(51) F04D 29/054	F21S 43/20	(31) 2017165631
F01D 5/06	F21S 43/30	(32) 30.08.2017
(11) EP3084130	F21S 43/40	(33) Japan
(21) EP14812512.3	G02B 6/00	(47) 30.08.2023
(22) 16.12.2014	F21V 8/00	(51) F24F 3/00
(54) METHOD OF ASSEMBLING A SET OF	(11) EP3211298	C12Q 1/6888
IMPELLERS THROUGH TIE RODS,	(21) EP15853404.0	C12Q 1/6806
IMPELLER AND TURBOMACHINE	(22) 20.10.2015	(11) EP3303628
(73) Nuovo Pignone Tecnologie - S.r.l.	(54) LIGHTING APPARATUS AND	(21) EP16730597.8
(72) KURVA, Lakshmanudu	VEHICULAR LAMP COMPRISING	(22) 01.06.2016
BIGI, Manuele	SAME	(54) DETECTION OF INFECTIOUS AGENTS
VENKATACHALAM, Kalyan Kumar	(73) LG Innotek Co., Ltd.	FROM ENVIRONMENTAL AIR DUST
(74) ir. W.J.J.M. Kempes	(72) CHAE, Hyun Hee	

- (73) Charles River Laboratories International, Inc.  
(72) COIRO, John M.  
SCHUPSKY, Thomas P.  
HENDERSON, Kenneth S.  
BILECKI, Brian M.  
(74) ir. W.J.J.M. Kempes  
(31) 201662280057 P  
201562169438 P  
(32) 18.01.2016  
01.06.2015  
(33) United States of America  
United States of America  
(47) 23.08.2023  
(51) F24F 11/30  
F24F 110/00  
F24F 130/40  
B60H 1/00  
(11) EP3258183  
(21) EP17175406.2  
(22) 12.06.2017  
(54) METHOD AND CONTROL UNIT  
FOR DETECTION OF FAULTS IN A  
HEATING SYSTEM AND/OR IN AN  
AIR CONDITIONING SYSTEM AND A  
HEATING SYSTEM AND/OR AN AIR  
CONDITIONING SYSTEM  
(73) Robert Bosch GmbH  
(72) Erkel, Steffen  
Wilkening, Wolfgang  
Gerlach-Spiess, Sebastian  
Scherer, Monika  
(74) ir. H.A. Witmans c.s.  
(31) 102016210418  
(32) 13.06.2016  
(33) Germany  
(47) 09.08.2023  
(51) F25B 21/02  
(11) EP3885674  
(21) EP21159047.6  
(22) 24.02.2021  
(54) DEVICE FOR GENERATING COLD  
AND POWER ACCORDING TO THE  
PELTIER EFFECT  
(73) Weißhaar, Peter  
(72) Weißhaar, Peter  
(74) dr. R.C. van Duijvenbode c.s.  
(31) 102020106024  
(32) 05.03.2020  
(33) Germany  
(47) 26.07.2023  
(51) F42B 12/44  
F42B 33/00  
(11) EP3338050  
(21) EP16756661.1  
(22) 17.08.2016  
(54) PROJECTILE COMPRISING A  
COMPOSITE MATERIAL AND A  
PRODUCTION METHOD FOR SUCH  
PROJECTILES  
(73) RUAG Ammotec AG  
(72) MUSTER, Michael  
JAUZION- GRAVEROLLE, Franck  
BUCHER, Markus  
STRÄHL, Daniel  
(74) ir. R. Wijnstra  
(31) 15181275  
(32) 17.08.2015
- (33) European Patent Office (EPO)  
(47) 26.07.2023  
(51) G01B 21/04  
G01B 5/008  
(11) EP3472556  
(21) EP17733303.6  
(22) 15.06.2017  
(54) CMM APPARATUS FOR IDENTIFYING  
AND CONFIRMING THE STYLUS  
(73) Hexagon Metrology, Inc.  
(72) SINGH, Gurpreet  
KOCIC, Milan  
COBB, Zachary  
(74) ir. H.A. Witmans c.s.  
(31) 201662350492 P  
(32) 15.06.2016  
(33) United States of America  
(47) 23.08.2023  
(51) G01B 21/04  
G01B 11/00  
(11) EP3430349  
(21) EP17714121.5  
(22) 16.03.2017  
(54) OPTICAL PROBE WITH CRASH  
PROTECTION AND PROBE CLIPS  
(73) Hexagon Metrology, Inc  
(72) RACINE, Paul  
LANGLAIS, John  
ZHENG, Jie  
SINGH, Gurpreet  
(74) ir. H.A. Witmans c.s.  
(31) 201662309274 P  
201662309202 P  
201662309212 P  
201662309172 P  
(32) 16.03.2016  
16.03.2016  
16.03.2016  
16.03.2016  
(33) United States of America  
United States of America  
United States of America  
United States of America  
(47) 09.08.2023  
(51) G01B 21/20  
G01B 5/00  
G01B 21/10  
(11) EP4047306  
(21) EP20811697.0  
(22) 07.10.2020  
(54) FRUIT-ON-TREE SIZING DEVICE  
(73) Agerpix Technologies, S.L.U.  
(72) GARCÍA GARCÍA, Javier  
CABEZÓN CASCANTE, Antonio  
FRANCÉS PEÑUELAS, David  
(74) ir. W.J.J.M. Kempes  
(31) 201930923  
(32) 17.10.2019  
(33) Spain  
(47) 19.07.2023  
(51) G01C 21/36  
G01C 21/00  
G01C 21/16  
G06V 20/56  
(11) EP3926304  
(21) EP21175571.5  
(22) 25.05.2021
- (54) METHOD FOR EVALUATING THE  
ACCURACY OF A POSITION  
DETERMINATION OF A LANDMARK  
AND EVALUATION SYSTEM  
(73) MAN Truck & Bus SE  
VOLKSWAGEN  
AKTIENGESELLSCHAFT  
(72) BOHLKE, Henrik  
RECH, Bernd  
KOCH, Niklas  
JÜRGENS, Stefan  
HUNGAR, Constanze  
WILBERS, Daniel  
MERFELS, Christian  
(74) ir. W.J.J.M. Kempes  
(31) 102020115746  
(32) 15.06.2020  
(33) Germany  
(47) 26.07.2023  
(51) G01F 1/66  
G01F 15/18  
(11) EP3769051  
(21) EP19771888.5  
(22) 21.03.2019  
(54) ONLINE INSTALLATION SYSTEM OF  
ULTRASONIC STEAM MEASUREMENT  
DEVICE  
(73) GE Infrastructure Sensing, LLC  
(72) SUI, Lei  
MATSON, James, Edward  
AVIOLI, Rachel  
CAIRA, Jesse, Aaron  
NGUYEN, Toan, Huu  
(74) ir. W.J.J.M. Kempes  
(31) 201862646526 P  
(32) 22.03.2018  
(33) United States of America  
(47) 04.10.2023  
(51) G01F 1/84  
G01F 25/10  
(11) EP3837500  
(21) EP18760226.3  
(22) 13.08.2018  
(54) DETECTING A CHANGE IN A  
VIBRATORY METER BASED ON TWO  
BASELINE METER VERIFICATIONS  
(73) Micro Motion Inc.  
(72) MCANALLY, Craig B.  
DOWNING, Bert J.  
(74) dr. R.C. van Duijvenbode c.s.  
(47) 27.09.2023  
(51) G01N 1/28  
G01N 1/31  
G01N 33/543  
G01N 33/574  
B82Y 30/00  
C12M 1/12  
G01N 1/30  
C12Q 1/6841  
C12Q 1/6886  
(11) EP3658884  
(21) EP18753248.6  
(22) 23.07.2018  
(54) METHOD FOR IMMOBILISING  
BIOLOGICAL SAMPLES FOR  
ANALYTICAL AND DIAGNOSTIC  
PURPOSES  
(73) Tethis S.p.A.

- (72) CARBONE, Roberta  
FRANCHI, Gian Martino  
DE MARNI, Marzia Luigia
- (74) J.M.H. Duyver lic.  
(31) 201700085439  
(32) 26.07.2017  
(33) Italy  
(47) 20.09.2023
- 
- (51) G01N 15/14  
G01N 15/00  
G06T 7/00  
G06T 7/60  
G06T 7/62  
G06V 20/69
- (11) EP3904859  
(21) EP21179105.8  
(22) 13.04.2012
- (54) SYSTEM AND METHOD FOR DETERMINING A PLATELET VOLUME FOR A BLOOD SAMPLE, COMPUTER PROGRAM AND COMPUTER READABLE MEDIUM
- (73) Roche Diagnostics Hematology, Inc.  
(72) ZAHNISER, Michael  
ZAHNISER, Russell  
(74) drs. C.M.A. Quintelier  
(31) 201261589672 P  
201161510710 P  
201161510614 P  
201161476179 P  
201161476170 P  
(32) 23.01.2012  
22.07.2011  
22.07.2011  
15.04.2011  
15.04.2011  
(33) United States of America  
United States of America  
United States of America  
United States of America  
United States of America  
(47) 30.08.2023
- 
- (51) G01N 19/04  
B25B 23/18  
G02B 21/00  
G02B 21/08  
F21V 8/00
- (11) EP3361233  
(21) EP18155153.2  
(22) 05.02.2018
- (54) BOND TEST APPARATUS AND BOND TEST CARTRIDGE WITH INTEGRATED ILLUMINATION SYSTEM
- (73) Nordson Corporation  
(72) BUGG, Martin  
(74) dr. R.C. van Duijvenbode c.s.  
(31) 201702162  
(32) 09.02.2017  
(33) United Kingdom  
(47) 20.09.2023
- 
- (51) G01N 21/88  
G06T 7/00  
G06N 3/02  
G06T 5/00
- (11) EP3853592  
(21) EP19862167.4  
(22) 20.09.2019
- (54) SUPER-RESOLUTION DEFECT REVIEW IMAGE GENERATION THROUGH GENERATIVE ADVERSARIAL NETWORKS
- (73) KLA Corporation  
(72) RIES, Bradley  
LAKHAWAT, Rahul  
VAJARIA, Himanshu  
ZHANG, Yong  
PANDEY, Anuj  
(74) ir. W.J.J.M. Kempes  
(31) 201841035629  
201816180957  
201862755224 P  
(32) 21.09.2018  
05.11.2018  
02.11.2018  
(33) India  
United States of America  
United States of America  
(47) 06.09.2023
- 
- (51) G01N 21/88  
H01L 21/66  
G01N 21/64  
G01N 21/95  
G01J 3/36  
G01J 3/44  
(11) EP2609418  
(21) EP11820356.1  
(22) 08.08.2011
- (54) DEFECT INSPECTION AND PHOTOLUMINESCENCE MEASUREMENT SYSTEM
- (73) KLA-Tencor Corporation  
(72) SAPPEY, Roman  
MEEKS, Steven W.  
(74) ir. W.J.J.M. Kempes  
(31) 861894  
(32) 24.08.2010  
(33) United States of America  
(47) 04.10.2023
- 
- (51) G01N 30/06  
G01N 33/72  
G01N 30/88  
B01D 15/36  
G01N 30/34  
G01N 30/96
- (11) EP2562539  
(21) EP11765385.7  
(22) 22.03.2011
- (54) METHOD OF ANALYZING HEMOGLOBINS
- (73) Sekisui Medical Co., Ltd.  
(72) OKA Takayuki  
TAIRA Hiroaki  
(74) ir. H.A. Witmans c.s.  
(31) 2010083726  
(32) 31.03.2010  
(33) Japan  
(47) 27.09.2023
- 
- (51) G01N 30/72  
G01N 30/86  
G01N 33/28  
G01N 1/40
- (11) EP3669185  
(21) EP18756227.7  
(22) 16.08.2018
- (54) QUANTITATIVE METHOD FOR DETERMINING THE ORGANIC ACID CONTENT OF CRUDE OIL
- (73) BP Exploration Operating Company Limited  
(72) COUVES, John William  
WICKING, Christianne Clare  
(74) ir. F.A. Geurts c.s.  
(31) 17186718  
(32) 17.08.2017  
(33) European Patent Office (EPO)  
(47) 04.10.2023
- 
- (51) G01N 35/00  
G01N 35/10  
B01L 7/00
- (11) EP3109641  
(21) EP16166497.4  
(22) 21.04.2016
- (54) APPARATUS FOR THE AUTOMATIC PERFORMANCE OF IMMUNOHEMATOLOGY ANALYSIS ON GEL CARDS
- (73) Grifols, S.A.  
(72) MARTINELL GISPERT-SAUCH, Enrique  
PUIG CEBRIA, Jordi  
(74) dr. A. Ellens c.s.  
(31) 201530927  
(32) 26.06.2015  
(33) Spain  
(47) 26.07.2023
- 
- (51) G01R 19/10  
G01R 31/52  
H02H 3/00  
H02H 3/16  
H02H 3/32
- (11) EP3690454  
(21) EP20154560.5  
(22) 30.01.2020
- (54) SYSTEM AND METHOD FOR GROUND FAULT DETECTION USING CURRENT MEASUREMENT COILS
- (73) B/E Aerospace, Inc.  
(72) MULDER, Dennis  
(74) J.M.H. Duyver lic.  
(31) 201916261755  
(32) 30.01.2019  
(33) United States of America  
(47) 11.10.2023
- 
- (51) G01R 35/04  
G01R 22/06
- (11) EP4134695  
(21) EP22187670.9  
(22) 28.07.2022
- (54) VERIFICATION OF THE METROLOGICAL PRECISION OF AN ELECTRICITY METER
- (73) Sagemcom Energy & Telecom SAS  
(72) TEBoulLE, Henri  
GEHENIAU, Frédéric  
(74) ir. H.A. Witmans c.s.  
(31) 2108625  
(32) 10.08.2021  
(33) France  
(47) 09.08.2023
- 
- (51) G01S 5/02
- (11) EP3308190  
(21) EP15727970.4  
(22) 09.06.2015

- (54) DETERMINING OF MODEL PARAMETERS FOR POSITIONING PURPOSES  
(73) HERE Global B.V.  
(72) IVANOV, Pavel  
TALVITIE, Jukka  
SYRJÄRINNE, Jari  
WIROLA, Lauri  
LOHAN, Elena-Simona  
KHAN, Muhammad Irshan  
(74) ir. A. Blokland c.s.  
(47) 30.08.2023  
(51) G01V 1/28  
G01V 1/40  
G06G 7/48  
G06G 7/57  
G01V 1/30  
(11) EP3776010  
(21) EP19782393.3  
(22) 27.03.2019  
(54) SYSTEMS AND METHODS FOR REFINING ESTIMATED EFFECTS OF PARAMETERS ON AMPLITUDES  
(73) Chevron U.S.A. Inc.  
(72) MAGILL, James  
BARTEL, David  
ROY, Prasenjit  
RAY, Anandaroop  
KRISHNAMURTHY, Kabilan  
CARDONA, Reynaldo  
(74) dr. R.C. van Duijvenbode c.s.  
(31) 201815943513  
(32) 02.04.2018  
(33) United States of America  
(47) 27.09.2023  
(51) G01V 1/30  
(11) EP3327468  
(21) EP17306569.9  
(22) 13.11.2017  
(54) METHOD AND APPARATUS FOR SIMULTANEOUS GEOSTATISTICAL INVERSION OF TIME-LAPSE SEISMIC DATA  
(73) CGG Services SAS  
(72) BORNARD, Raphaël  
(74) ir. W.J.J.M. Kempes  
(31) 201662425682 P  
(32) 23.11.2016  
(33) United States of America  
(47) 19.07.2023  
(51) G02F 1/017  
G02F 1/025  
(11) EP3921697  
(21) EP20707169.7  
(22) 07.02.2020  
(54) IMPROVED BUILDING BLOCK FOR ELECTRO-OPTICAL INTEGRATED INDIUM-PHOSPHIDE BASED PHASE MODULATOR  
(73) SMART Photonics Holding B.V.  
(72) PAJKOVIC, Rastko  
BENTE, Erwin Antonius Josephus Maria  
ANDREOU, Stefanos  
VAN SCHAIJK, Theodorus Thomas Marinus  
(74) ir. W.J.J.M. Kempes  
(31) 201962802689 P  
(32) 07.02.2019
- (33) United States of America  
(47) 20.09.2023  
(51) G02F 1/155  
G02F 1/157  
G02F 1/153  
(11) EP3682295  
(21) EP18856681.4  
(22) 07.09.2018  
(54) NON-LIGHT-EMITTING VARIABLE TRANSMISSION DEVICE AND A METHOD OF FORMING THE SAME  
(73) Sage Electrochromics, Inc.  
(72) BOCEK, Peter  
REUTLER, Pascal  
MURPHY, Sean  
SARRACH, Sebastian Marius  
GIRON, Jean-Christophe  
(74) ir. W.J.J.M. Kempes  
(31) 201762557556 P  
(32) 12.09.2017  
(33) United States of America  
(47) 06.09.2023  
(51) G05B 19/418  
G06Q 10/06  
(11) EP4043973  
(21) EP21156885.2  
(22) 12.02.2021  
(54) GENERATING EXECUTION PROTOCOLS FOR PERFORMING STANDARD OPERATING PROCEDURES IN INDUSTRIAL PLANTS  
(73) ABB Schweiz AG  
(72) SCHMIDT, Benedikt  
ABUKWAIK, Hadil  
K R, Chandrika  
KOTRIWALA, Arzam  
ZIOBRO, Dawid  
DOPPELHAMER, Jens  
HALLSTADIUS LINGE, Simon  
BERNING, Matthias  
MACZEY, Sylvia  
GAERTLER, Marco  
GOPALAKRISHNAN, Gayathri  
SHARMA, Divyasheel  
BORRISON, Reuben  
DIX, Marcel  
RODRIGUEZ, Pablo  
KLOEPPER, Benjamin  
(74) ir. W.J.J.M. Kempes  
(47) 26.07.2023  
(51) G05D 7/06  
F16K 31/00  
(11) EP3844590  
(21) EP19766158.0  
(22) 28.08.2019  
(54) MASS FLOW CONTROLLER, CONTROLLER ALGORITHM, AND SET POINT FILTER  
(73) Illinois Tool Works, Inc.  
(72) LULL, John  
WHITELEY, Jeffrey  
BANARES, Berwin  
(74) dr. W.A.H.M. Van Borm  
(31) 201816116786  
(32) 29.08.2018  
(33) United States of America  
(47) 26.07.2023
- (51) G05D 11/13  
A23L 2/52  
G01N 33/14  
B01F 35/21  
(11) EP3700351  
(21) EP18869886.4  
(22) 22.10.2018  
(54) REAL-TIME QUALITY MONITORING OF BEVERAGE BATCH PRODUCTION USING DENSITOMETRY  
(73) Pepsico, Inc.  
(72) CHOUBAK, Saman  
AHTCHI-ALI, Badreddine  
(74) J.M.H. Duyver lic.  
(31) 201715793398  
(32) 25.10.2017  
(33) United States of America  
(47) 13.09.2023  
(51) G05F 1/567  
(11) EP3584667  
(21) EP17896753.5  
(22) 19.10.2017  
(54) LOW TEMPERATURE DRIFT REFERENCE VOLTAGE CIRCUIT  
(73) Gree Electric Appliances, Inc. of Zhuhai  
(72) ZHANG, Liang  
LI, Jianxun  
FENG, Yuming  
FAN, Shirong  
PENG, Xinchao  
XIE, Yuhua  
ZHOU, Jia  
XU, Yijun  
YANG, Wenjie  
(74) dr. W.A.H.M. Van Borm  
(31) 201710083188  
(32) 16.02.2017  
(33) China  
(47) 30.08.2023  
(51) G06F 1/16  
H04M 1/02  
(11) EP3845996  
(21) EP19854552.7  
(22) 05.08.2019  
(54) ROTARY SHAFT AND ELECTRONIC DEVICE HAVING ROTARY SHAFT  
(73) VIVO MOBILE COMMUNICATION CO., LTD.  
(72) ZHANG, Xinfu  
(74) J.M.H. Duyver lic.  
(31) 201810995662  
(32) 29.08.2018  
(33) China  
(47) 13.09.2023  
(51) G06F 1/30  
G06F 11/07  
(11) EP3417354  
(21) EP17708392.0  
(22) 17.02.2017  
(54) REMEDIATING POWER LOSS AT A SERVER  
(73) Microsoft Technology Licensing, LLC  
(72) KELLY, Bryan  
HARRIS, Shaun L.  
SHAW, Mark A.  
KHESSIB, Badreddine  
(74) J.M.H. Duyver lic.  
(31) 201615048362

(32) 19.02.2016	(22) 27.11.2019	(21) EP20207683.2
(33) United States of America	(54) METHOD AND APPARATUS FOR A	(22) 16.11.2020
(47) 20.09.2023	PRIMARY TRANSFORM USING AN 8-	(54) SYSTEM, APPARATUS AND METHOD
(51) G06F 3/01	BIT TRANSFORM CORE	FOR PERFORMING A REMOTE
(11) EP3542252	(73) Tencent America LLC	ATOMIC OPERATION VIA AN
(21) EP18760175.2	(72) LIU, Shan	INTERFACE
(22) 10.08.2018	ZHAO, Xin	(73) INTEL Corporation
(54) CONTEXT-SENSITIVE HAND	LI, Xiang	(72) Svennebring, Jonas
INTERACTION	(74) ir. W.J.J.M. Kempes	Jayasimha, Doddaballapur
(73) Google LLC	(31) 201916391935	Choudhary, Swadesh
(72) CHEN, Shiqi	201862704036 P	(74) ir. W.J.J.M. Kempes
TOMPSON, Jonathan	(32) 23.04.2019	(31) 202016830468
GARG, Rahul	06.12.2018	(32) 26.03.2020
(74) dr. R.C. van Duijvenbode c.s.	(33) United States of America	(33) United States of America
(31) 201762543775 P	United States of America	(47) 23.08.2023
(32) 10.08.2017	(47) 20.09.2023	(51) G06K 7/10
(33) United States of America	(51) G06F 9/30	(11) EP3467699
(47) 02.08.2023	G06F 9/38	(21) EP18198548.2
(51) G06F 3/12	(11) EP3989061	(22) 04.10.2018
G06F 8/61	(21) EP21171904.2	(54) SYSTEM OF RFID READER
G06F 9/445	(22) 03.05.2021	UNITS TRANSMITTING
(11) EP3699749	(54) BIT-PACKED ARRAY PROCESSING	SYNCHRONIZED MODULATION USING
(21) EP20152337.0	USING SIMD	ASYNCHRONOUS CARRIER WAVES
(22) 17.01.2020	(73) Google LLC	(73) Nedap N.V.
(54) IMAGE FORMING DEVICE	(72) MCCORMICK, Andrew	(72) van Lakwijk, Reinbrand GerhardJaakob
(73) Oki Electric Industry Co., Ltd.	FANG, Yuanwei	Frans Ottokar Johanan
(72) WATANABE, Tadayuki	LUO, Yixin	Essink, Berend Hendrik
TAKEYA, Hitoshi	CHANG, Jichuan	van Megen, Maarten Jacobus Johannes
(74) ir. H.Th. van den Heuvel c.s.	AHN, Junwhan	Compaijen, Paul Jasper
(31) 2019031247	(74) ir. H.Th. van den Heuvel c.s.	(74) ir. H.A. Witmans c.s.
(32) 25.02.2019	(31) 202017080282	(31) 2019672
(33) Japan	(32) 26.10.2020	(32) 05.10.2017
(47) 26.07.2023	(33) United States of America	(33) Netherlands
(51) G06F 3/16	(47) 09.08.2023	(47) 30.08.2023
G06F 9/44	(51) G06F 9/50	(51) G06K 19/07
H04M 1/725	(11) EP3414661	G06K 19/077
H04L 12/28	(21) EP16816813.6	(11) EP3893158
G06N 3/08	(22) 02.12.2016	(21) EP21167298.5
G06N 5/046	(54) EFFICIENT LIVE-MIGRATION OF	(22) 08.04.2021
H04R 27/00	REMOVEDLY ACCESSED DATA	(54) NFC-POWERED LED STICKER WITH
(11) EP3635533	(73) Google LLC	INTEGRAL CAPACITOR
(21) EP18834490.7	(72) SANDERSON, Tyler	(73) Nthdegree Technologies Worldwide Inc.
(22) 16.07.2018	(74) ir. H.Th. van den Heuvel c.s.	(72) WHITBY, Rodger
(54) ELECTRONIC APPARATUS FOR	(31) 201615071852	ORAW, Bradley S.
PROCESSING USER UTTERANCE	(32) 16.03.2016	(74) dr. R.C. van Duijvenbode c.s.
FOR CONTROLLING AN EXTERNAL	(33) United States of America	(31) 202016884295
ELECTRONIC APPARATUS AND	(47) 26.07.2023	202063007112 P
CONTROLLING METHOD THEREOF	(51) G06F 11/10	(32) 27.05.2020
(73) Samsung Electronics Co., Ltd.	(11) EP3968163	08.04.2020
(72) KIM, Joo Hwan	(21) EP21187941.6	(33) United States of America
KIM, Kyung Tae	(22) 27.07.2021	United States of America
WOO, Kyoung Gu	(54) STORAGE DEVICE AND OPERATING	(47) 09.08.2023
YEO, Jae Yung	METHOD OF MEMORY CONTROLLER	(51) G06Q 10/06
LIM, Dong Sun	(73) Samsung Electronics Co., Ltd.	(11) EP3324349
YUN, Jeong Hyeon	(72) LEE, Wi Jik	(21) EP17201507.5
JE, Seong Min	SHIN, Dong-Min	(22) 14.11.2017
LEE, Sun Key	SON, Hong Rak	(54) METHOD FOR SEQUENCING LOADS
(74) dr. R.C. van Duijvenbode c.s.	HWANG, Young Jun	IN AN AUTOMATED TIMING SYSTEM
(31) 20170092590	(74) ir. H.A. Witmans c.s.	(73) Savoye
(32) 21.07.2017	(31) 20200116586	(72) COLLIN, Jean-Michel
(33) Korea (Republic)	(32) 11.09.2020	(74) ir. W.J.J.M. Kempes
(47) 27.09.2023	(33) Korea (Republic)	(31) 1661103
(51) G06F 7/78	(47) 19.07.2023	(32) 16.11.2016
G06F 17/14	(51) G06F 12/0831	(33) France
H04N 19/117	G06F 12/0813	(47) 23.08.2023
H04N 19/60	G06F 12/0811	(51) G06Q 10/08
(11) EP3891979	G06F 9/30	(11) EP3648025
(21) EP19892344.3	(11) EP3885918	(21) EP19203985.7

- (22) 18.10.2019  
(54) CONTROL METHOD OF BUFFER STORAGE AND LOAD SEQUENCING SYSTEM IN SORT MODE, AND CORRESPONDING DRIVE UNIT  
(73) Savoye  
(72) PIETROWICZ, Stéphane  
COLLIN, Jean-Michel  
VACHER, Blandine  
(74) ir. W.J.J.M. Kempes  
(31) 1860027  
(32) 30.10.2018  
(33) France  
(47) 23.08.2023  
(51) G06Q 10/08  
(11) EP3648026  
(21) EP19203987.3  
(22) 18.10.2019  
(54) CONTROL METHOD OF BUFFER STORAGE AND LOAD SEQUENCING SYSTEM IN FLOW MODE, AND CORRESPONDING DRIVE UNIT  
(73) Savoye  
(72) PIETROWICZ, Stéphane  
COLLIN, Jean-Michel  
VACHER, Blandine  
(74) ir. W.J.J.M. Kempes  
(31) 1860028  
(32) 30.10.2018  
(33) France  
(47) 23.08.2023  
(51) G06V 10/42  
G06V 10/75  
G06V 20/64  
G06V 20/66  
(11) EP3274923  
(21) EP15886698.8  
(22) 19.08.2015  
(54) METHOD FOR SHAPE CLASSIFICATION OF AN OBJECT  
(73) KLA - Tencor Corporation  
(72) NIJS, Frans  
THISSEN, Francis  
DE GREEVE, Johan  
DELFOSSE, Eric  
HERMANS, Laurent  
(74) ir. W.J.J.M. Kempes  
(31) 201562137650 P  
(32) 24.03.2015  
(33) United States of America  
(47) 04.10.2023  
(51) G07B 17/00  
B41J 2/175  
(11) EP3588450  
(21) EP19175613.9  
(22) 21.05.2019  
(54) METHOD AND SYSTEM FOR CONTROLLING THE USE OF A CARTRIDGE UNIT  
(73) Francotyp-Postalia GmbH  
(72) LÜNEBURG, Andreas  
HEINRICH, Clemens  
JAUERT, Joachim  
ROSENAU, Dirk  
(74) ir. H.A. Witmans c.s.  
(31) 102018115555  
(32) 28.06.2018  
(33) Germany
- (47) 19.07.2023  
(51) G08C 17/02  
H01H 9/02  
(11) EP3696783  
(21) EP20167823.2  
(22) 28.05.2015  
(54) WIRELESS CONTROL DEVICE  
(73) Lutron Technology Company LLC  
(72) CAMDEN, Richard S.  
MOSEBROOK, Donald R.  
SHIVELL, William Taylor  
MILLER, Amy E.  
(74) ir. C.G.C. Veldman-Dijkers  
(31) 201462076786 P  
201462005424 P  
(32) 07.11.2014  
30.05.2014  
(33) United States of America  
United States of America  
(47) 18.10.2023  
(51) G09C 1/00  
G06F 21/62  
G06F 21/71  
H04L 9/08  
H04L 9/32  
(11) EP3423985  
(21) EP17760462.6  
(22) 10.02.2017  
(54) TECHNIQUES FOR PROTECTING SECURITY FEATURES OF INTEGRATED CIRCUITS  
(73) Altera Corporation  
(72) PEDERSEN, Bruce  
LU, Ting  
WONG, Yun Sum  
WONG, Brian  
DOSHI, Alok  
(74) ir. W.J.J.M. Kempes  
(31) 201615061622  
(32) 04.03.2016  
(33) United States of America  
(47) 23.08.2023  
(51) G11C 7/00  
G11C 16/04  
G11C 16/24  
(11) EP3459080  
(21) EP17799843.2  
(22) 23.04.2017  
(54) FLASH MEMORY ARRAY WITH INDIVIDUAL MEMORY CELL READ, PROGRAM AND ERASE  
(73) Silicon Storage Technology, Inc.  
The Regents of the University of California  
(72) TRAN, Hieu, Van  
GUO, Xinjie  
TIWARI, Vipin  
STRUKOV, Dmitri  
DO, Nhan  
BAYAT, Farnood Merrikh  
(74) ir. H.Th. van den Heuvel c.s.  
(31) 201615374588  
201662337751 P  
(32) 09.12.2016  
17.05.2016  
(33) United States of America  
United States of America  
(47) 26.07.2023
- (51) G11C 16/16  
G11C 16/10  
G11C 16/34  
G11C 11/56  
G11C 7/22  
(11) EP4032089  
(21) EP20717431.9  
(22) 11.03.2020  
(54) NON-VOLATILE MEMORY DEVICE WITH STORED INDEX INFORMATION  
(73) Silicon Storage Technology Inc.  
(72) QIAN, Xiaozhou  
TIWARI, Vipin  
PI, Xiao Yan  
(74) ir. H.Th. van den Heuvel c.s.  
(31) 201910875107  
202016813317  
(32) 17.09.2019  
09.03.2020  
(33) China  
United States of America  
(47) 26.07.2023  
(51) G16B 30/00  
G16B 30/10  
(11) EP3018604  
(21) EP15192572.4  
(22) 02.11.2015  
(54) METHOD FOR ASSIGNING TARGET-ENRICHED SEQUENCE READS TO A GENOMIC LOCATION  
(73) Agilent Technologies, Inc.  
(72) FORSMARK, Linus  
LNU, Ashutosh  
LE COCQ, Christian A.  
ISAKSSON, Magnus  
(74) dr. R.C. van Duijvenbode c.s.  
(31) 201414533743  
(32) 05.11.2014  
(33) United States of America  
(47) 11.10.2023  
(51) G21F 5/12  
B09B 3/00  
B09B 3/20  
G21F 5/005  
G21F 9/22  
G21F 5/14  
G21F 9/36  
(11) EP3425639  
(21) EP18189729.9  
(22) 02.06.2011  
(54) FILLING DEVICES, SYSTEMS AND METHODS FOR TRANSFERRING HAZARDOUS WASTE MATERIAL INTO A SEALABLE CONTAINER  
(73) AUSTRALIAN NUCLEAR SCIENCE AND TECHNOLOGY ORGANISATION  
(72) Bermudez Walter, Guillermo  
Moricca, Salvatore  
Murray Allan, Grant  
(74) ir. H.A. Witmans c.s.  
(47) 06.09.2023  
(51) H01L 21/336  
H01L 29/786  
H01L 21/16  
H01L 29/24  
H01L 21/02  
(11) EP3688812  
(21) EP18773216.9

(22) 27.09.2018	(74) ir. A. Blokland c.s.	(47) 30.08.2023
(54) FIELD-EFFECT TRANSISTOR WITH A TOTAL CONTROL OF THE ELECTRICAL CONDUCTIVITY ON ITS CHANNEL	(47) 02.08.2023	(51) H02P 9/10
(73) Luxembourg Institute of Science and Technology (LIST)	(51) H02H 7/26	H02P 9/48
(72) LENOBLE, Damien	H02H 3/087	H02P 9/04
LUNCA POPA, Petru	H02J 3/32	H02J 3/30
CREPELLIERE, Jonathan	H01M 50/59	H02J 7/32
LETURCQ, Renaud	(11) EP3793049	H02J 3/32
(31) 100461	(21) EP20195035.9	(11) EP3813249
(32) 27.09.2017	(22) 08.09.2020	(21) EP20202980.7
(33) Luxembourg	(54) ENERGY STORAGE SYSTEM AND MULTI-STAGE SHORT CIRCUIT PROTECTION SYSTEM THEREOF	(22) 21.10.2020
(47) 02.08.2023	(73) Sungrow Power Supply Co., Ltd.	(54) GENERATOR SET FOR GENERATING AN ALTERNATING CURRENT
(51) H01M 8/04014	(72) FANG, Ri	(73) Torqeedo GmbH
F23C 7/00	WU, Xiaolei	(72) Biebach, Jens
F23D 14/02	CAO, Wei	(74) dr. R.C. van Duijvenbode c.s.
F23G 7/06	(74) ir. H.A. Witmans c.s.	(31) 102019128387
H01M 8/04746	(31) 201910859279	(32) 21.10.2019
(11) EP4049329	(32) 11.09.2019	(33) Germany
(21) EP20793620.4	(33) China	(47) 09.08.2023
(22) 15.10.2020	(47) 11.10.2023	(51) H02S 50/10
(54) A FUEL CELL SYSTEM AND TAIL GAS BURNER ASSEMBLY AND METHOD	(51) H02J 3/14	(11) EP3751731
(73) Ceres Intellectual Property Company Limited	H02J 3/32	(21) EP19882298.3
(72) COTTEREAU, Isaac	H02J 3/38	(22) 26.04.2019
MCLORN, Michael	(11) EP3561983	(54) CURRENT-VOLTAGE CURVE SCANNING METHOD FOR PHOTOVOLTAIC STRING, CONVERTER
POSTLETHWAITE, Oliver	(21) EP19170451.9	(73) HUAWEI TECHNOLOGIES CO., LTD.
DOZIO, Simone	(22) 23.04.2019	(72) XIN, Kai
BARNARD, Paul	(54) METHOD FOR OPERATING AN ENERGY SUPPLY SYSTEM	YU, Xinyu
SCHMIDT, Martin	(73) Viessmann Climate Solutions SE	LIU, Fangcheng
(74) dr. A. Krebs	(72) BREINBAUER, Florian	(74) ir. W.J.J.M. Kempes
(31) 201915281	OTTA, Tobias	(31) 201811320167
201916660078	SCHMACK, Doris	(32) 07.11.2018
(32) 22.10.2019	(74) ir. H.A. Witmans c.s.	(33) China
22.10.2019	(31) 102018206214	(47) 26.07.2023
(33) United Kingdom	(32) 23.04.2018	(51) H04B 7/0456
United States of America	(33) Germany	H04B 7/06
(47) 02.08.2023	(47) 06.09.2023	(11) EP3602815
(51) H01M 50/10	(51) H02J 3/30	(21) EP18716866.1
H01M 50/209	H02J 15/00	(22) 23.03.2018
H01M 50/242	H02K 7/02	(54) ADAPTIVE DIGITAL PRECODER CODEBOOK CONFIGURATIONS FOR MMWAVE COMMUNICATION BASED ON HYBRID BEAMFORMING
H01M 50/249	H02K 7/09	(73) InterDigital Patent Holdings, Inc.
H01M 50/291	(11) EP3804069	(72) MOURAD, Alain
(11) EP4050706	(21) EP18746088.6	EL-HAJJAR, Mohammed
(21) EP20934238.5	(22) 25.05.2018	SATYANARAYANA, Katla
(22) 11.12.2020	(54) MOTION-STATE DEPENDENT OPERATION OF KINETIC GENERATOR ON A MARINE VESSEL OR PLATFORM	KUO, Ping-Heng
(54) BATTERY, POWER CONSUMPTION APPARATUS, AND BATTERY PREPARATION METHOD	(73) Noble Drilling A/S	(74) dr. R.C. van Duijvenbode c.s.
(73) Contemporary Amperex Technology Co., Limited	(72) PEDERSEN, John Røn	(31) 201762477183 P
(72) WU, Xiaozhi	HÖFFNER, Jan	(32) 27.03.2017
(74) ir. W.J.J.M. Kempes	(74) ir. H.A. Witmans c.s.	(33) United States of America
(47) 02.08.2023	(47) 26.07.2023	(47) 23.08.2023
(51) H01Q 3/28	(51) H02M 7/487	(51) H04B 7/185
H04B 7/08	(11) EP3487058	H04B 7/204
H03G 3/20	(21) EP18206400.6	(11) EP3664316
(11) EP3804030	(22) 15.11.2018	(21) EP20154824.5
(21) EP18731393.7	(54) EFFICIENT SWITCHING FOR CONVERTER CIRCUIT	(22) 20.10.2017
(22) 08.06.2018	(73) Solaredge Technologies Ltd.	(54) GROUND-BASED BEAMFORMED COMMUNICATIONS USING MUTUALLY SYNCHRONIZED SPATIALLY MULTIPLEXED FEEDER LINKS
(54) AGC CONTROLLED TAPERING FOR AN AAS RADIO	(72) Zmood, Daniel	(73) Viasat, Inc.
(73) Telefonaktiebolaget LM Ericsson (publ)	Glovinsky, Tzachi	(72) BUER, Kenneth
(72) LENNARTSSON, Lars	Loewenstern, Yakir	PATEROS, Charles
JAKOBSSON, Peter	(74) ir. H.A. Witmans c.s.	RALSTON, William
	(31) 201762588474 P	
	(32) 20.11.2017	
	(33) United States of America	



(74) dr. W.A.H.M. Van Borm	(32) 07.12.2007	(33) European Patent Office (EPO)
(31) 201662411377 P	08.05.2007	(47) 30.08.2023
(32) 21.10.2016	02.05.2007	(51) H04L 1/16
(33) United States of America	(33) Korea (Republic)	H04L 27/26
(47) 19.07.2023	Korea (Republic)	H04B 7/26
(51) H04B 10/114	Korea (Republic)	H04L 1/18
A61B 5/02	(47) 26.07.2023	H04L 5/00
(11) EP3096681	(51) H04L 1/00	(11) EP3799341
(21) EP15740605.9	(11) EP3729696	(21) EP20198349.1
(22) 22.01.2015	(21) EP17828730.6	(22) 14.01.2011
(54) SYSTEM COMPRISING A WEARABLE ELECTRONIC DEVICE	(22) 20.12.2017	(54) PRE-DFT CDM FOR THE PUCCH
(73) Hamilton, Christopher, Chad	(54) TECHNIQUE FOR REPORTING CHANNEL STATE INFORMATION	(73) LG Electronics Inc.
(72) Hamilton, Christopher, Chad	(73) Telefonaktiebolaget LM Ericsson (publ)	(72) HAN, Seung Hee
(74) ir. C.G.C. Veldman-Dijkers	(72) BERGLUND, Joel	CHUNG, Jae Hoon
(31) 201414163729	CIRKIC, Mirsad	MOON, Sung Ho
201461930179 P	FRÖBERG OLSSON, Jonas	LEE, Moon Il
(32) 24.01.2014	(74) ir. A. Blokland c.s.	(74) ir. H.A. Witmans c.s.
22.01.2014	(47) 02.08.2023	(31) 20100129072
(33) United States of America	(51) H04L 1/00	31174010 P
United States of America	H04L 5/00	30116010 P
(47) 18.10.2023	(11) EP3665795	29855010 P
(51) H04B 17/309	(21) EP17758651.8	29574110 P
H04B 17/318	(22) 11.08.2017	(32) 16.12.2010
H04B 17/382	(54) CODE RATE FOR CONTROL INFORMATION	08.03.2010
H04W 52/02	(73) Telefonaktiebolaget LM Ericsson (publ)	03.02.2010
(11) EP3883148	(72) BALDEMAIR, Robert	27.01.2010
(21) EP19883984.7	LARSSON, Daniel	17.01.2010
(22) 16.10.2019	FALAHATI, Sorour	(33) Korea (Republic)
(54) MEASUREMENT METHOD, INDICATION METHOD, MEASUREMENT APPARATUS AND INDICATION APPARATUS	LINDQVIST, Fredrik	United States of America
(73) VIVO MOBILE COMMUNICATION CO., LTD.	(74) dr. R.C. van Duijvenbode c.s.	United States of America
(72) WU, Kai	(47) 04.10.2023	United States of America
PAN, Xueming	(51) H04L 1/00	(47) 09.08.2023
(74) J.M.H. Duyver lic.	H04W 72/04	(51) H04L 5/00
(31) 201811342013	(11) EP3739780	H04B 7/00
(32) 12.11.2018	(21) EP19750956.5	(11) EP4014403
(33) China	(22) 12.02.2019	(21) EP20747437.0
(47) 20.09.2023	(54) DATA COMMUNICATION PROCESSING METHOD AND DEVICE	(22) 05.08.2020
(51) H04J 13/00	(73) ZTE Corporation	(54) THREE-COMPONENT CODEBOOK BASED CSI REPORTING
H04L 1/00	(72) XU, Jun	(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
H04L 25/03	XIN, Yu	(72) GROSSMANN, Marcus
H04L 25/05	WU, Hao	LANDMANN, Markus
H04W 4/18	ZUO, Zhisong	VENKATESH, Ramireddy
H04W 48/08	XU, Jin	(74) ir. W.J.J.M. Kempes
H04L 1/1829	BIAN, Luanjian	(31) 19192000
(11) EP2153545	LI, Liguang	(32) 15.08.2019
(21) EP08723354.0	(74) ir. A.R. Aalbers	(33) European Patent Office (EPO)
(22) 07.03.2008	(31) 201810147596	(47) 20.09.2023
(54) Broadcast channel information transmission and reception	(32) 12.02.2018	(51) H04L 5/00
(73) Samsung Electronics Co., Ltd. Electronics and Telecommunications Research Institute	(33) China	H04L 1/00
(72) CHANG, Kap-Seok	(47) 06.09.2023	H04W 72/1268
KO, Young-Jo	(51) H04L 1/08	H04W 72/21
YI, Hyo-Seok	H04L 5/00	H04L 1/1829
BANG, Seung-Chan	H04L 5/14	(11) EP4080812
PARK, Hyeong-Geun	(11) EP3994813	(21) EP22177959.8
KIM, Il-Gyu	(21) EP20743167.7	(22) 14.01.2019
KIM, Young-Hoon	(22) 27.07.2020	(54) DEVICE USING CHANNEL MULTIPLEXING IN WIRELESS COMMUNICATION
(74) ir. H.Th. van den Heuvel c.s.	(54) OFDM BASED WIRELESS COMMUNICATION USING FLEXIBLE RESOURCES	(73) Wilus Institute of Standards and Technology Inc.
(31) 20070126724	(73) Sony Group Corporation	(72) CHOI, Kyungjun
20070044356	(72) WONG, Shin Horng	NOH, Minseok
20070042457	SHIMEZAWA, Kazuyuki	KWAK, Jinsam
	(74) ir. W.J.J.M. Kempes	(74) ir. C.G.C. Veldman-Dijkers
	(31) 19191863	(31) 20190002588
	(32) 14.08.2019	

20180004734	H04W 24/02	H04L 67/141
(32) 09.01.2019	(11) EP3639473	H04L 69/16
13.01.2018	(21) EP17731129.7	(11) EP3879789
(33) Korea (Republic)	(22) 15.06.2017	(21) EP19895586.6
Korea (Republic)	(54) METHOD AND APPARATUS	(22) 09.12.2019
(47) 20.09.2023	FOR MANAGING WIRELESS	(54) DATA PROCESSING METHOD AND
(51) H04L 9/40	COMMUNICATIONS NETWORK	APPARATUS
H04L 12/46	(73) Telefonaktiebolaget LM Ericsson (PUBL)	(73) Hangzhou Hikvision Digital Technology
(11) EP3632057	(72) MAGUIRE, Patrick	Co., Ltd.
(21) EP18727098.8	(74) ir. A. Blokland c.s.	(72) FENG, Zhongjian
(22) 01.05.2018	(47) 02.08.2023	LI, Kui
(54) DISTRIBUTED IPSEC GATEWAY	(51) H04L 43/0852	(74) dr. ir. G.J.C. Verdijck c.s.
(73) Microsoft Technology Licensing, LLC	H04L 43/0864	(31) 201811510277
(72) XIONG, Yongqiang	H04L 12/44	(32) 11.12.2018
SON, Jeongseok	G06F 13/42	(33) China
WANG, Chih-Yung	G06N 3/063	(47) 02.08.2023
(74) dr. R.C. van Duijvenbode c.s.	(11) EP3857394	(51) H04L 69/22
(31) 201710401488	(21) EP20764834.6	H04W 48/12
(32) 31.05.2017	(22) 14.08.2020	H04W 84/12
(33) China	(54) INTER-CHIP LATENCY	(11) EP3331271
(47) 20.09.2023	CHARACTERISTIC IN MULTI-CHIP	(21) EP16844044.4
(51) H04L 12/28	SYSTEM	(22) 14.07.2016
H05B 47/19	(73) Google LLC	(54) COMMUNICATIONS DEVICE AND
(11) EP3860054	(72) BIFFLE, Clifford	COMMUNICATIONS METHOD
(21) EP20155114.0	BAYLOR, Denis	(73) Sony Group Corporation
(22) 03.02.2020	GUNTER, Michial, Allen	(72) SUGAYA, Shigeru
(54) ATMOSPHERE FUNCTION CONTROL	ROSS, Charles	(74) ir. W.J.J.M. Kempes
IN AN AREA IN OR ADJACENT A	(74) dr. A. Krebs	(31) 2015177516
BUILDING	(31) 201962887783 P	(32) 09.09.2015
(73) ABB Schweiz AG	(32) 16.08.2019	(33) Japan
(72) LÖFGREN, Sofia	(33) United States of America	(47) 20.09.2023
LUND, Lovisa	(47) 04.10.2023	(51) H04M 1/02
GOPALAKRISHNAN, Gayathri	(51) H04L 45/58	G06F 1/16
JONSSON, Christoffer	H04L 45/60	(11) EP3637744
(74) ir. W.J.J.M. Kempes	(11) EP3827556	(21) EP19202383.6
(47) 02.08.2023	(21) EP19828178.4	(22) 10.10.2019
(51) H04L 27/26	(22) 11.07.2019	(54) DISPLAY DEVICE
H04J 11/00	(54) A PLATFORM COMPRISING A	(73) Samsung Display Co., Ltd.
H04L 5/00	PLURALITY OF ROUTING ENTITIES	(72) Eo, SungWoo
H04W 52/34	(73) Drivenets Ltd.	(74) drs. A.A. Jilderda
(11) EP3753214	(72) GOLDENBERG, Chen	(31) 20180121948
(21) EP19703358.2	SANDLER, Evgeny	(32) 12.10.2018
(22) 12.02.2019	KRAYDEN, Amir	(33) Korea (Republic)
(54) COMMUNICATING DATA OF A FIRST	SUSAN, Ido	(47) 06.09.2023
USER EQUIPMENT AND DATA OF	(74) dr. R.C. van Duijvenbode c.s.	(51) H04M 15/00
A SECOND USER EQUIPMENT	(31) 201862703459 P	H04W 4/24
ON SHARED RESOURCES OF A	(32) 26.07.2018	H04L 12/14
WIRELESS COMMUNICATION SYSTEM	(33) United States of America	H04M 15/28
(73) Fraunhofer-Gesellschaft zur Förderung	(47) 04.10.2023	H04L 41/5041
der angewandten Forschung e.V.	(51) H04L 65/70	H04L 41/50
ETRI - Electronics and	H04L 65/65	H04L 41/5054
Telecommunications Research Institute	(11) EP2843955	H04M 15/30
(72) KO, Young-Jo	(21) EP13782460.3	(11) EP3176703
BAEK, SeungKwon	(22) 25.04.2013	(21) EP16205631.1
HAUSTEIN, Thomas	(54) METHOD FOR TRANSMITTING DATA	(22) 28.09.2011
SHIN, Wooram	IN A MULTIMEDIA TRANSMISSION	(54) ENTERPRISE ACCESS CONTROL
ELDESSOKI, Sameh	SYSTEM	AND ACCOUNTING ALLOCATION FOR
DOMMEL, Johannes	(73) Samsung Electronics Co., Ltd.	ACCESS NETWORKS
AFRASIABI GORGANI, Saeed	(72) RHYU, Sung-Ryeul	(73) Headwater Research LLC
THIELE, Lars	PARK, Kyung-Mo	(72) RALEIGH, Gregory, G.
(74) ir. F.A. Geurts c.s.	SONG, Jae-Yeon	RAISSINIA, Alireza
(31) 18157032	HWANG, Sung-Oh	GREEN, Jeffrey
(32) 15.02.2018	(74) dr. R.C. van Duijvenbode c.s.	(74) dr. ir. G.J.C. Verdijck c.s.
(33) European Patent Office (EPO)	(31) 201261638048 P	(31) 422565 P
(47) 19.07.2023	(32) 25.04.2012	387243 P
(51) H04L 41/044	(33) United States of America	(32) 13.12.2010
H04L 41/14	(47) 16.08.2023	28.09.2010
H04L 41/0233	(51) H04L 67/02	(33) United States of America

United States of America	(22) 24.04.2019	(33) United Kingdom
(47) 16.08.2023	(54) METHOD AND APPARATUS FOR	United Kingdom
(51) H04N 13/232	INTER PREDICTION IN VIDEO CODING	(47) 19.07.2023
H04N 13/257	SYSTEM	(51) H04R 7/04
H04N 13/296	(73) LG Electronics Inc.	H04R 3/14
H04N 23/12	(72) LEE, Jaeho	(11) EP3338464
H04N 23/951	(74) J.M.H. Duyver lic.	(21) EP16763371.8
(11) EP3479569	(31) 201862662175 P	(22) 19.08.2016
(21) EP17733464.6	(32) 24.04.2018	(54) SYSTEMS AND METHODS
(22) 27.06.2017	(33) United States of America	FOR CONTROLLING PLATE
(54) PLENOPTIC CAMERA WITH A	(47) 13.09.2023	LOUDSPEAKERS USING MODAL
CONTROLLABLE BIREFRINGENT	(51) H04N 19/625	CROSSOVER NETWORKS
LAYER FOR RICHER COLOR	H04N 19/132	(73) The University of Rochester
ACQUISITION	H04N 19/157	(72) BOCKO, Mark F.
(73) InterDigital CE Patent Holdings	H04N 19/18	ANDERSON, David Allan
(72) DRAZIC, Valter	(11) EP3764649	(74) ir. W.J.J.M. Kempes
SCHUBERT, Arno	(21) EP19780916.3	(31) 201562207690 P
LE SCOUARNEC, Nicolas	(22) 01.04.2019	(32) 20.08.2015
(74) dr. R.C. van Duijvenbode c.s.	(54) PROCESSING VIDEO SIGNAL BY	(33) United States of America
(31) 16305822	USING REDUCED SECONDARY	(47) 04.10.2023
(32) 30.06.2016	TRANSFORM	(51) H04S 7/00
(33) European Patent Office (EPO)	(73) LG Electronics Inc.	G10L 19/008
(47) 30.08.2023	(72) KIM, Seunghwan	(11) EP3652965
(51) H04N 19/124	SALEHIFAR, Mehdi	(21) EP18738101.7
H04N 19/186	LIM, Jaehyun	(22) 15.06.2018
H04N 19/176	KOO, Moonmo	(54) AMBISONICS SOUND FIELD
H04N 19/196	(74) J.M.H. Duyver lic.	NAVIGATION USING DIRECTIONAL
(11) EP3941052	(31) 201862651251 P	DECOMPOSITION AND PATH
(21) EP21195707.1	(32) 01.04.2018	DISTANCE ESTIMATION
(22) 05.03.2019	(33) United States of America	(73) Google LLC
(54) AN IMAGE CODING APPARATUS	(47) 27.09.2023	(72) ALLEN, Andrew
AND METHOD THEREOF BASED	(51) H04N 21/25	(74) ir. H.A. Witmans c.s.
ON A QUANTIZATION PARAMETER	H04N 21/488	(31) 201715647741
DERIVATION	H04N 21/8405	(32) 12.07.2017
(73) LG Electronics Inc.	H04N 21/658	(33) United States of America
(72) KIM, Seunghwan	H04N 21/845	(47) 02.08.2023
LIM, Jaehyun	G06F 16/951	(51) H04W 4/02
(74) ir. H.A. Witmans c.s.	H04L 65/612	H04W 52/46
(31) 201862651243 P	H04N 21/439	H04W 52/14
(32) 01.04.2018	H04N 21/278	(11) EP3883269
(33) United States of America	H04N 21/266	(21) EP21165976.8
(47) 13.09.2023	(11) EP3345106	(22) 15.10.2013
(51) H04N 19/46	(21) EP16842747.4	(54) BACKHAUL ASSISTED BY USER
H04N 19/70	(22) 29.08.2016	EQUIPMENT
H04N 19/174	(54) CROWD SOURCED INDEXING AND/	(73) Headwater Partners II LLC
(11) EP3407605	OR SEARCHING OF CONTENT	(72) RALEIGH, Gregory
(21) EP18164289.3	(73) Roku, Inc.	TELLADO, Jose
(22) 24.07.2012	(72) SHARP, David	(74) dr. ir. G.J.C. Verdijk c.s.
(54) METHOD AND DEVICE FOR	(74) dr. R.C. van Duijvenbode c.s.	(31) 201314053561
ENCODING AND DECODING	(31) 201562212390 P	201261714135 P
PARAMETER SETS AT SLICE LEVEL	(32) 31.08.2015	(32) 14.10.2013
(73) ZTE Corporation	(33) United States of America	15.10.2012
(72) WU, Ping	(47) 23.08.2023	(33) United States of America
LI, Ming	(51) H04Q 9/00	United States of America
(74) ir. A.R. Aalbers	E21B 47/13	(47) 16.08.2023
(31) 201110340195	G01V 11/00	(51) H04W 24/08
(32) 01.11.2011	(11) EP2798623	H04W 36/00
(33) China	(21) EP12816298.9	H04W 88/06
(47) 11.10.2023	(22) 24.12.2012	(11) EP3488660
(51) H04N 19/53	(54) DOWNHOLE COMMUNICATION	(21) EP18818929.4
H04N 19/513	(73) Paradigm Technology Services B.V.	(22) 15.06.2018
H04N 19/129	(72) VAN DER ENDE, Andre	(54) METHODS AND APPARATUSES
H04N 19/105	ATHERTON, Eric	FOR MEASUREMENT REPORT AND
H04N 19/176	(74) ir. H.A. Witmans c.s.	COMPUTER-READABLE MEDIUM
H04N 19/52	(31) 201202439	(73) Telefonaktiebolaget LM Ericsson (publ)
H04N 19/70	201122386	(72) TEYEB, Oumer
(11) EP3780617	(32) 12.02.2012	DA SILVA, Icaro L. J.
(21) EP19793735.2	28.12.2011	FAN, Rui

(74) ir. A. Blokland c.s.	(47) 20.09.2023	H04W 74/08
(31) PCT/CN2018/075502	(51) H04W 36/30	H04L 5/00
PCT/CN2017/098372	H04W 36/14	(11) EP3753351
PCT/CN2017/097150	(11) EP3841787	(21) EP18760034.1
PCT/CN2017/088798	(21) EP19784177.8	(22) 31.07.2018
(32) 06.02.2018	(22) 25.09.2019	(54) METHODS PROVIDING RACH
21.08.2017	(54) METHODS AND APPARATUS FOR	OCCASION INDICATION FOR RANDOM
11.08.2017	PROACTIVELY SWITCHING BETWEEN	ACCESS PROCEDURE INITIATED
16.06.2017	AVAILABLE NETWORKS	BY PDCCH ORDER AND RELATED
(33) World Intellectual Property Office (WIPO)	(73) Google LLC	WIRELESS TERMINALS AND BASE
World Intellectual Property Office (WIPO)	(72) SILBERSTEIN, Rebecca	STATIONS
World Intellectual Property Office (WIPO)	PLASS, Michael	(73) Telefonaktiebolaget LM Ericsson (publ)
World Intellectual Property Office (WIPO)	ZHANG, Ning	(72) AXNÄS, Johan
(47) 02.08.2023	(74) ir. H.A. Witmans c.s.	LIN, Xingqin
(51) H04W 24/10	(31) 201816145564	ZHAO, Hongxia
H04W 36/00	(32) 28.09.2018	LI, Jingya
(11) EP4022963	(33) United States of America	IRUKULAPATI, Naga Vishnu Kanth
(21) EP20764070.7	(47) 26.07.2023	GRÖVLEN, Asbjörn
(22) 26.08.2020	(51) H04W 56/00	(74) ir. A. Blokland c.s.
(54) HANDLING OF MISMATCH BETWEEN	(11) EP3677075	(31) 201862710563 P
IDLE MODE MEASUREMENT	(21) EP18851662.9	(32) 16.02.2018
CONFIGURATIONS IN SOURCE AND	(22) 31.08.2018	(33) United States of America
TARGET CELLS DURING CELL RE-	(54) CONFIGURATION OF ADDITIONAL	(47) 26.07.2023
SELECTION	SYNCHRONIZATION SIGNAL	
(73) Telefonaktiebolaget LM Ericsson (publ)	(73) Telefonaktiebolaget LM Ericsson (Publ)	
(72) TEYEB, Oumer	(72) IRUKULAPATI, Naga Vishnu Kanth	
RUGELAND, Patrik	REIAL, Andres	
DA, SILVA, Icaro, L, J	SAHLIN, Henrik	
(74) ir. A. Blokland c.s.	(74) dr. R.C. van Duijvenbode c.s.	
(31) 201962892860 P	(31) 201762552626 P	
(32) 28.08.2019	(32) 31.08.2017	
(33) United States of America	(33) United States of America	
(47) 02.08.2023	(47) 04.10.2023	
(51) H04W 28/06	(51) H04W 72/23	
H04W 72/04	H04L 5/00	
H04L 5/00	H04W 4/70	
H04L 1/00	H04W 72/044	
H04L 1/1829	(11) EP3787320	
H04L 1/1867	(21) EP18916605.1	
H04L 27/26	(22) 25.04.2018	
H04W 72/0453	(54) INFORMATION INDICATING AND	
(11) EP3796707	INTERPRETING METHODS, BASE	
(21) EP18918911.1	STATION AND USER EQUIPMENT	
(22) 18.05.2018	(73) Beijing Xiaomi Mobile Software Co., Ltd.	
(54) TERMINAL, CORRESPONDING	(72) MU, Qin	
METHOD AND SYSTEM	ZHANG, Ming	
(73) NTT DOCOMO, INC.	(74) J.M.H. Duyver lic.	
(72) HARADA, Hiroki	(47) 20.09.2023	
TAKEDA, Kazuki	(51) H04W 72/23	
TAKAHASHI, Hideaki	H04L 5/00	
(74) ir. A. Blokland c.s.	H04W 72/0453	
(47) 27.09.2023	(11) EP3667980	
(51) H04W 36/00	(21) EP18843089.6	
H04W 56/00	(22) 02.08.2018	
H04W 24/02	(54) INDICATING AND RECEIVING	
H04W 24/10	RESOURCE LOCATION	
H04W 72/04	(73) ZTE Corporation	
(11) EP3780695	(72) LIU, Xing	
(21) EP19775957.4	HAO, Peng	
(22) 19.03.2019	BI, Feng	
(54) METHOD AND DEVICE FOR	MIAO, Ting	
OBTAINING CELL INFORMATION	(74) ir. A.R. Aalbers	
(73) Vivo Mobile Communication Co., Ltd.	(31) 201710687231	
(72) YANG, Xiaodong	(32) 11.08.2017	
(74) J.M.H. Duyver lic.	(33) China	
(31) 201810260183	(47) 06.09.2023	
(32) 27.03.2018	(51) H04W 74/00	
(33) China		

## EP4

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

(51) A24F 47/00	(31) 261812 P	(47) 27.01.2021
G06K 7/10	(32) 17.11.2009	
G06K 7/08	(33) United States of America	
G06K 19/06	(47) 17.02.2016	
G06K 19/067	(51) A61K 38/20	
(11) EP2378905	A61K 47/42	
(21) EP09804326.8	C07K 14/54	
(22) 24.12.2009	A61K 9/00	
(54) AN ARTICLE INCLUDING	(11) EP3065763	
IDENTIFICATION INFORMATION FOR	(21) EP14860301.2	
USE IN AN ELECTRICALLY HEATED	(22) 06.11.2014	
SMOKING SYSTEM	(54) USE OF IL-22 DIMER IN	
(73) Philip Morris Products S.A.	MANUFACTURE OF A MEDICAMENT	
(74) dr. W.A.H.M. Van Borm	FOR INTRAVENOUS ADMINISTRATION	
(72) FERNANDO, Felix	(73) Evive Biotechnology (Shanghai) Ltd	
CORDEY, Jean-Pierre	(74) ir. M.F.J.M. Ketelaars c.s.	
(31) 08254145	(72) YAN, Xiaoqiang	
(32) 24.12.2008	HUANG, Cheng	
(33) European Patent Office (EPO)	WU, Dongdong	
(47) 27.05.2020	TANG, Kaiyang	
(51) A61B 10/00	HUANG, Yuliang	
A63H 27/10	(31) 201310549838	
A61B 5/155	(32) 07.11.2013	
A61B 5/15	(33) China	
B65B 3/00	(47) 02.09.2020	
(11) EP3005948	(51) C12N 15/864	
(21) EP15158482.8	A61K 48/00	
(22) 10.03.2015	(11) EP2212424	
(54) APPARATUS, SYSTEM AND METHOD	(21) EP08836776.8	
FOR FILLING CONTAINERS WITH	(22) 03.10.2008	
FLUIDS	(54) WIDESPREAD GENE DELIVERY	
(73) Tinnus Enterprises, LLC	TO MOTOR NEURONS USING	
(74) ir. H.A. Witmans c.s.	PERIPHERAL INJECTION OF AAV	
(72) Malone, Joshua	VECTORS	
(31) 201414492487	(73) GENETHON	
201461942193 P	Centre National de la Recherche	
201461937083 P	Scientifique	
(32) 22.09.2014	(72) BARKATS, Martine	
20.02.2014	(31) 07301435	
07.02.2014	(32) 05.10.2007	
(33) United States of America	(33) European Patent Office (EPO)	
United States of America	(47) 11.06.2014	
United States of America	(51) G02B 3/00	
(47) 17.10.2018	G02B 3/08	
(51) A61K 31/506	G02B 27/60	
A61P 35/00	B44F 1/02	
A61K 9/00	B44F 1/10	
C07D 239/69	B42D 25/342	
(11) EP2501384	B42D 25/373	
(21) EP10781781.9	B42D 25/324	
(22) 17.11.2010	(11) EP3391102	
(54) METHOD OF TREATING	(21) EP15828607.0	
PROLIFERATIVE DISORDERS AND	(22) 18.12.2015	
OTHER PATHOLOGICAL CONDITIONS	(54) SINGLE LAYER IMAGE PROJECTION	
MEDIATED BY BCR-ABL, C-KIT, DDR1,	FILM	
DDR2 OR PDGF-R KINASE ACTIVITY	(73) Visual Physics, LLC	
(73) Novartis AG	(74) ir. M.F.J.M. Ketelaars c.s.	
(72) GALLAGHER, Neil	(72) CAPE, Samuel, M.	
YIN, Ophelia	STEENBLIK, Richard, A.	
	JORDAN, Gregory, R.	

## 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) A23D 7/005	(11) EP3065764	ELLMANN, Lutz
A23D 9/007	(21) EP14795569.4	(74) ir. F.A. Geurts c.s.
A23K 10/37	(22) 23.10.2014	(31) 13158030
A23K 20/163	(54) MINI-GASTRIN ANALOGUE, IN	(32) 06.03.2013
A23L 2/52	PARTICULAR FOR USE IN CCK2	(33) European Patent Office (EPO)
A23L 33/22	RECEPTOR POSITIVE TUMOUR	(47) 06.09.2017
A23K 20/10	DIAGNOSIS AND/OR TREATMENT	(51) B66F 9/075
(11) EP3328209	(73) Paul Scherrer Institut	B66F 9/06
(21) EP16751085.8	(72) BEHE, Martin	B62B 3/06
(22) 29.07.2016	SCHIBLI, Roger	B62B 5/00
(54) METHOD FOR PREPARING CITRUS	(74) dr. R.C. van Duijvenbode c.s.	(11) EP3426593
FIBRES WITH OPTIMISED WATER	(31) 13191807	(21) EP17708293.0
BINDING CHARACTERISTICS	(32) 06.11.2013	(22) 07.03.2017
(73) Cargill, Incorporated	(33) European Patent Office (EPO)	(54) AUTOMATED TRANSPORT VEHICLE
(72) MAZOYER, Jacques André Christian	(47) 21.02.2018	(73) SEW-EURODRIVE GmbH & Co. KG
WALLECAN, Joël René Pierre	(51) A61K 38/24	Melkus Mechatronic GmbH
(74) ir. W.J.J.M. Kempes	A61P 15/08	(72) MELKUS, Andreas
(31) 15179315	(11) EP2621517	(74) ir. W.J.J.M. Kempes
(32) 31.07.2015	(21) EP11778689.7	(31) 16159026
(33) European Patent Office (EPO)	(22) 28.09.2011	(32) 07.03.2016
(47) 18.03.2020	(54) COMPOSITION FOR USE IN TREATING	(33) European Patent Office (EPO)
(51) A47L 9/28	INFERTILITY	(47) 03.06.2020
A47L 5/36	(73) Ferring B.V.	(51) C09J 133/08
A47L 7/00	(72) ARCE SAEZ, Joan Carlos	(11) EP2883926
H01R 24/76	(74) dr. R.C. van Duijvenbode c.s.	(21) EP14179525.2
(11) EP3485781	(31) 10251681	(22) 01.08.2014
(21) EP18215339.5	(32) 29.09.2010	(54) Adhesive mass
(22) 03.03.2010	(33) European Patent Office (EPO)	(73) tesa SE
(54) SUCTION DEVICE WITH FUNCTION	(47) 17.06.2015	(72) Burmeister, Axel
MODULE	(51) B61D 17/10	Dollase, Thilo
(73) Festool GmbH	(11) EP2733039	Mayer, Michael
(72) Barabeisch, Markus	(21) EP13192716.2	Krawinkel, Thorsten
Walter, Hartmut	(22) 13.11.2013	Petersen, Anika
Maier, Frank	(54) Low floor suspension vehicle in multi-joint	(74) J.M.H. Duyver lic.
(74) ir. H.A. Witmans c.s.	construction	(31) 102013215296
(31) 102009015642	(73) Bombardier Transportation GmbH	(32) 02.08.2013
(32) 21.03.2009	(72) Newesely, Gerald	(33) Germany
(33) Germany	Fischer, Michael	(47) 28.09.2016
(47) 19.08.2020	Petto, Michael	(51) E01D 19/16
(51) A61K 38/18	(74) ir. H.A. Witmans c.s.	(11) EP2325394
A61P 9/10	(31) 102012220806	(21) EP10191024.8
A61P 11/00	(32) 14.11.2012	(22) 12.11.2010
(11) EP3166628	(33) Germany	(54) Method and device for applying a liquid
(21) EP15739658.1	(47) 08.01.2020	to a rope
(22) 09.07.2015	(51) B65D 79/00	(73) CPE Corrosion Protection Engineering
(54) THERAPEUTIC USE OF BONE	A61J 1/14	GmbH
MORPHOGENETIC PROTEINS	A61J 1/18	(72) Boué, Andreas
(73) Cambridge Enterprise Limited	B65B 3/04	(74) dr. W.A.H.M. Van Borm
(72) MORRELL, Nicholas W	B65B 7/16	(31) 102009052829
LI, Wei	B65B 7/28	(32) 13.11.2009
UPTON, Paul D	(11) EP2964542	(33) Germany
(74) ir. H.A. Witmans c.s.	(21) EP14707800.0	(47) 24.01.2018
(31) 201412290	(22) 04.03.2014	(51) H04L 29/08
(32) 10.07.2014	(54) CONTAINER FOR ASEPTIC CONTENT,	F24F 11/30
(33) United Kingdom	USE AND METHOD OF PRODUCTION	G01D 4/00
(47) 01.01.2020	(73) Société des Produits Nestlé S.A.	(11) EP3695585
(51) A61K 38/22	(72) STOFFERS, Niels	(21) EP19783425.2

- (22) 02.10.2019
  - (54) MONITORING OF HEAT  
CONSUMPTION
  - (73) ista International GmbH
  - (72) JUSTESEN, Peter Lindbjerg  
MATHIESEN, Benny Martin
  - (74) dr. A. Krebs
  - (31) PA201870654  
PA201870650
  - (32) 03.10.2018  
02.10.2018
  - (33) Denmark  
Denmark
  - (47) 04.11.2020
-

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

- |  |                              |
|--|------------------------------|
| (21) 300793                            | (94) 13.12.2030              |
| (22) 04.02.2016                        | (95) ublituximab             |
| (11) 300793                            | (93) EU/1/23/1730 01.06.2023 |
| (73) WAKUNAGA PHARMACEUTICAL CO., LTD. | (47) 01.11.2023              |
- 
- Astellas Pharma Inc.  
Astellas Pharma Inc.  
WAKUNAGA PHARMACEUTICAL CO., LTD.
- (74) ir. J.C. Volmer c.s.  
ir. J.C. Volmer c.s.
- (68) EP1556389
- (54) <strong><a href="https://register.epo.org/espacenet/regviewer?AP=03758919&CY=EP&LG=en&DB=REG">CEPHEM COMPOUNDS . </a></strong>  
<strong><a href="https://register.epo.org/espacenet/regviewer?AP=03758919&CY=EP&LG=en&DB=REG">  
</a></strong>
- (94) 26.04.2029
- (95) ceftolozaan of een farmaceutisch aanvaardbaar zout daarvan in het bijzonder een zwavelzuurzout
- (93) EU/1/15/1032 22.09.2015
- (47) 15.03.2016
- 
- (21) 300878
- (22) 16.06.2017
- (11) 300878
- (73) SK Bioscience Co., Ltd.
- (74) ir. M.F.J.M. Ketelaars c.s.
- (68) EP1587832
- (54) FACTOR VIII POLYPEPTIDE.
- (94) 26.10.2028
- (95) Lonoctocog alfa
- (93) EU/1/16/1158 06.01.2017
- (47) 02.11.2017
- 
- (21) 301241
- (22) 07.09.2023
- (11) 301241
- (73) Glaxo Group Limited
- (74) ir. M.F.J.M. Ketelaars c.s.
- (68) EP3415531
- (54) BCMA (CD269/TNFRSF17) - BINDING PROTEINS
- (94) 25.08.2035
- (95) Belantamab mafodotin
- (93) EU/1/20/1474 26.08.2020
- (47) 26.10.2023
- 
- (21) 301242
- (22) 14.09.2023
- (11) 301242
- (73) Laboratoire Français du Fractionnement et des Biotechnologies
- (74) ir. F.A. Geurts c.s.
- (68) EP1824887
- (54) CYTOTOXIC ANTIBODY DIRECTED AGAINST TYPE B LYMPHOID HEMATOPOIETIC PROLIFERATIONS



**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) 2032018	A61K 38/48
(51) B01D 29/64	(00) 52/22
B01D 29/03	28.12.2022
B23H 1/10	(11) EP3708455
B01D 29/72	(51) B61L 15/00
B01D 35/02	H04B 1/40
B01D 65/02	B61L 27/00
B01D 35/26	(00) 52/22
(00) 28.10.2023	28.12.2022
(00) Restoration of rights	(11) EP3818098
(00) Suqian University	(51) C08J 5/18
(11) 301153	C08F 210/16
(00) 04.05.2022	C08L 23/08
(00) Restoration of rights	(00) 52/22
(00) TherapeuticsMD, Inc.	28.12.2022
(11) EP2419658	(11) EP3864317
(51) B62M 11/16	(51) F16D 65/54
F16H 15/28	(00) 52/22
F16H 15/52	28.12.2022
F16H 61/664	(11) EP4008357
F16H 63/06	(51) A61K 48/00
(00) 12.10.2023	A61K 9/127
(00) 2013/41	A61K 39/00
09.10.2013	A61K 9/00
(00) Appeal	A61P 31/04
(00) Fallbrook Intellectual Property Company LLC	A61P 31/10
(11) EP2477925	A61P 31/12
(51) B66B 5/02	A61P 33/00
B66B 5/00	A61P 37/04
B66B 1/32	C12N 15/88
(00) 52/22	(00) 52/22
28.12.2022	28.12.2022
(11) EP2959894	(11) EP4019041
(51) A61K 31/137	(51) A61K 39/00
A61P 37/06	(00) 52/22
A61K 31/397	28.12.2022
(00) 41/22	(11) EP4074373
12.10.2022	(51) A61N 1/36
(11) EP3098441	A61N 1/37
(51) F03D 7/02	A61N 1/372
(00) 52/22	(00) 39/23
28.12.2022	27.09.2023
(11) EP3190254	
(51) E05F 15/63	
(00) 51/22	
21.12.2022	
(11) EP3334747	
(51) C07K 1/113	
C07K 1/34	
B01D 15/36	
B01D 15/38	
(00) 39/23	
27.09.2023	
(11) EP3581650	
(51) C12N 9/64	
C12N 15/57	

## 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) 301153	A61K 9/20	A61M 5/31
(00) 20/22	A61K 9/70	A61P 9/10
18.05.2022	A61K 31/133	(00) 36/22
(00) 11.10.2023	A61K 31/137	07.09.2022
(00) Withdrawn	(11) EP2959894	(11) EP3694947
(11) EP2043979	(51) A61K 31/137	(51) C09K 5/04
(51) B01J 21/04	A61P 37/06	C10M 171/00
B01J 27/125	A61K 31/397	(11) EP3775092
B01J 37/26	(00) 26/23	(51) C09K 5/04
C07C 17/25	28.06.2023	C10M 171/00
C07C 17/386	(11) EP3342411	(11) EP3875314
C07C 21/18	(51) A61K 31/436	(51) B60P 3/34
(00) 09/16	A61P 35/00	E04H 15/06
02.03.2016	(00) 40/19	E04H 15/38
(11) EP2334750	02.10.2019	B60J 11/06
(51) C09K 5/04	(11) EP3381444	(11) EP3885050
(11) EP2419658	(51) A61K 9/00	(51) B04B 1/08
(51) B62M 11/16	A61M 5/28	B04B 11/02
F16H 15/28	A61M 5/31	B04B 13/00
F16H 15/52	A61M 5/315	
F16H 61/664	(00) 12/22	
F16H 63/06	23.03.2022	
(00) 35/22	(11) EP3392106	
31.08.2022	(51) B60T 13/22	
(00) 27.10.2023	F16D 59/02	
(00) Negative	F16D 65/28	
(11) EP2613927	F16D 66/00	
(51) A47C 27/00	F16D 121/06	
A47C 27/15	(11) EP3530998	
A47C 31/00	(51) B60R 16/02	
B29C 44/22	F16L 5/02	
B29C 70/64	F16L 5/10	
B29K 21/00	H02G 3/22	
B29K 105/04	(11) EP3572044	
B29L 31/00	(51) A61F 2/24	
C08J 9/28	(11) EP3656373	
C08J 9/40	(51) A61J 9/00	
(00) 47/19	A61M 5/31	
20.11.2019	A61M 5/315	
(11) EP2652015	A61M 5/28	
(51) C08J 3/215	A61F 9/00	
C08J 3/22	A61K 9/00	
C08K 3/04	A61K 38/17	
(11) EP2652022	A61M 5/178	
(51) C08J 3/215	A61P 9/00	
C08J 3/22	A61P 9/10	
C08K 3/04	A61P 27/02	
C08L 21/00	A61P 35/00	
(00) 01/19	A61P 43/00	
02.01.2019	(11) EP3685826	
(11) EP2712829	(51) A61K 9/00	
(51) B65H 19/12	A61M 5/28	
(11) EP2938695	A61F 9/00	
(51) C09K 5/04	A61M 5/315	
(11) EP2952177	A61K 38/17	
(51) A61K 9/00	A61P 27/02	
	A61P 35/00	

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

(11) 2014585	A61P 37/08
(00) 17.10.2023	C07K 14/705
(51) F27B 7/20	C07K 16/18
C10B 53/07	C07K 19/00
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(11) 2015888	(00) Total - Renunciation
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C09C 1/50	G02B 3/08
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(11) 2026179	B44F 1/02
(00) 12.10.2023	B44F 1/10
(51) E02D 3/08	B42D 25/342
E02D 7/18	B42D 25/373
E02D 11/00	B42D 25/324
(00) Partial - Renunciation	(11) EP3405297
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B64C 3/48	(11) EP3411460
B64C 9/16	(00) 17.10.2023
B64C 21/02	(51) B01D 47/06
B64C 21/08	B01D 47/10
B64D 33/00	B01D 47/12
(00) New licence registration	C10K 1/00
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(51) C12N 15/864	C10K 1/18
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(11) EP2378905	(11) EP3460455
(51) A24F 47/00	(51) G06V 10/141
G06K 7/10	G06V 10/147
G06K 7/08	G06V 40/13
G06K 19/06	F21V 8/00
G06K 19/067	
(11) EP2501384	
(51) A61K 31/506	
A61P 35/00	
A61K 9/00	
C07D 239/69	
(11) EP2794766	
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(11) EP3005948	
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A63H 27/10	
A61B 5/155	
A61B 5/15	
B65B 3/00	
(11) EP3065763	
(51) A61K 38/20	
A61K 47/42	
C07K 14/54	
A61K 9/00	
(11) EP3260469	
(00) 13.10.2023	
(51) A61K 38/16	
A61P 11/02	
A61P 11/06	
A61P 27/02	

## VRV

## Verval of nietigverklaring.

## Contains data concerning lapse or annulment.

(11) 1024650	(00) Patent Expired	(00) Patent Expired
(00) 29.10.2023	(11) EP1556642	(11) EP1564798
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(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3992451	(11) EP4012317	(11) EP4034755
(00) 28.06.2023	(00) 28.06.2023	(00) 28.06.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3992622	(11) EP4014482	(11) EP4034797
(00) 28.06.2023	(00) 28.06.2023	(00) 28.06.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3994061	(11) EP4014710	(11) EP4036743
(00) 28.06.2023	(00) 28.06.2023	(00) 28.06.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3994085	(11) EP4015221	(11) EP4039017
(00) 28.06.2023	(00) 28.06.2023	(00) 28.06.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3994702	(11) EP4015301	(11) EP4039120
(00) 28.06.2023	(00) 28.06.2023	(00) 28.06.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3996086	(11) EP4015695	(11) EP4039941
(00) 28.06.2023	(00) 28.06.2023	(00) 28.06.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3996957	(11) EP4015793	(11) EP4045287
(00) 28.06.2023	(00) 28.06.2023	(00) 28.06.2023
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(11) EP3998174	(11) EP4016575	(11) EP4045436
(00) 28.06.2023	(00) 28.06.2023	(00) 28.06.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3999579	(11) EP4017784	(11) EP4047945
(00) 28.06.2023	(00) 28.06.2023	(00) 28.06.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3999610	(11) EP4019405	(11) EP4048437
(00) 28.06.2023	(00) 28.06.2023	(00) 28.06.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3999800	(11) EP4023040	(11) EP4051188
(00) 28.06.2023	(00) 28.06.2023	(00) 28.06.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3999802	(11) EP4023198	(11) EP4053589
(00) 28.06.2023	(00) 28.06.2023	(00) 28.06.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP4001930	(11) EP4025321	(11) EP4054508
(00) 28.06.2023	(00) 28.06.2023	(00) 28.06.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP4004376	(11) EP4025780	(11) EP4057168
(00) 28.06.2023	(00) 28.06.2023	(00) 28.06.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP4005001	(11) EP4026692	(11) EP4057169
(00) 28.06.2023	(00) 28.06.2023	(00) 28.06.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP4006221	(11) EP4028793	(11) EP4060982
(00) 28.06.2023	(00) 28.06.2023	(00) 28.06.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP4061552	(11) EP4124213
(00) 28.06.2023	(00) 28.06.2023
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(11) EP4063678	(11) EP4126842
(00) 28.06.2023	(00) 28.06.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP4065375	
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(11) EP4067557	
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(11) EP4088946	
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(11) EP4093572	
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(11) EP4108475	
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(00) EPV Ceased Effect	
(11) EP4113012	
(00) 28.06.2023	
(00) EPV Ceased Effect	
(11) EP4122674	
(00) 28.06.2023	

**VRB**

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

## CO

## Ingeschreven overdrachten.

## Contains data concerning registered assignments or change of owners.

(71) PROQRAFT HOLDING B.V.	(71) Videndum Media Solutions UK Ltd	(00) Merge
(73) PROQRAFT HOLDING B.V.	(73) Videndum Media Solutions UK Ltd	(71) Collibra NV/SA
(11) 1026150	(11) EP1985153	(73) Collibra Belgium BV
(00) 19.10.2023	(00) 18.10.2023	(11) EP2425383
(51) B65B 43/14	(51) H04R 1/08	(00) 09.10.2023
B65B 43/18	(00) Assignment	(51) G06N 5/02
(00) Assignment	(71) MICELL MEDTECH INC.	(00) Assignment
(71) PROQRAFT HOLDING B.V.	(73) MICELL MEDTECH INC.	(71) ML TECH CO.,LTD.
(73) PROQRAFT HOLDING B.V.	(11) EP2019657	(73) Mitsui Chemicals, Inc.
(11) 1030383	(00) 17.10.2023	(11) EP2682430
(00) 19.10.2023	(51) A61L 2/00	(00) 13.10.2023
(51) B65B 43/28	A61L 31/10	(51) C07C 321/02
B65B 43/46	A61L 31/16	C08G 18/06
(00) Assignment	B05D 3/00	C08K 5/37
(71) Carbolt B.V.	(00) Assignment	C08L 75/04
(73) Carbolt B.V.	(71) MVG Industries	G02B 1/04
(11) 1039596	(73) MVG Industries	(00) Change of owner(s) name
(00) 18.10.2023	(11) EP2567478	(71) Mitsui Chemicals, Inc.
(51) B60D 1/60	(00) 17.10.2023	(73) Mitsui Chemicals, Inc.
B60R 25/00	(51) G01R 29/08	(11) EP2682430
(00) Change of owner(s) name	H04B 17/00	(00) 13.10.2023
(71) Alstef Mobile Robotics	(00) Change of owner(s) name	(51) C07C 321/02
(73) Alstef Mobile Robotics	(71) Biorganics UFT B.V.	C08G 18/06
(11) EP2441629	(73) Biorganics UFT B.V.	C08K 5/37
(00) 18.10.2023	(11) EP2178617	C08L 75/04
(51) B60K 1/04	(00) 13.10.2023	G02B 1/04
B60L 11/18	(51) B01D 45/14	(00) Assignment
B60S 5/06	B04B 5/12	(71) Certa Therapeutics Pty. Ltd.
B66F 9/075	(00) Assignment	(73) Certa Therapeutics Pty. Ltd.
(00) Change of owner(s) name	(71) TEMA SINERGIE SPA	(11) EP2799427
(71) Certa Therapeutics Pty. Ltd.	(73) TEMA SINERGIE SPA	(00) 17.10.2023
(73) Certa Therapeutics Pty. Ltd.	(11) EP2179758	(51) A61K 31/196
(11) EP2035369	(00) 12.10.2023	A61K 31/4192
(00) 17.10.2023	(51) A61M 5/178	A61K 31/426
(51) A61K 31/196	A61M 5/20	A61K 31/435
A61K 31/4192	(00) Change of Legal Entity	A61K 31/5375
A61K 31/426	(71) Novelis Koblenz GmbH	A61P 9/10
A61K 31/435	(73) Novelis Koblenz GmbH	A61P 11/00
A61K 31/5375	(11) EP2652162	A61P 13/12
A61P 9/10	(00) 16.10.2023	A61P 17/02
A61P 11/00	(51) B64C 1/00	A61P 29/00
A61P 13/12	C22C 21/06	A61P 35/00
A61P 17/02	C22F 1/047	A61P 43/00
A61P 29/00	(00) Change of owner(s) name	C07C 231/02
A61P 35/00	(71) Collibra Belgium BV	C07C 235/38
A61P 43/00	(73) Collibra Belgium BV	C07D 213/16
C07C 231/02	(11) EP2425383	C07D 213/643
C07C 235/38	(00) 09.10.2023	C07D 253/04
C07D 213/16	(51) G06N 5/02	C07D 261/08
C07D 213/643	(00) Change of owner(s) name	C07D 295/03
C07D 253/04	(71) CNV NewCo B.V.	(00) Assignment
C07D 261/08	(73) Collibra Belgium BV	(71) Circulogene Theranostics, Inc.
C07D 295/03	(11) EP2425383	(73) Circulogene Theranostics, Inc.
(00) Assignment	(00) 09.10.2023	(11) EP3334834
(71) K INDUSTRIE	(51) G06N 5/02	(00) 13.10.2023
(73) ELHEE	(00) Merge	(51) C12P 19/34
(11) EP3843686	(71) CNV Belgium BV	C40B 40/06
(00) 17.10.2023	(73) Collibra Belgium BV	C40B 50/06
(51) A61J 9/00	(11) EP2425383	C12Q 1/68
(00) Change of owner(s) name	(00) 09.10.2023	C12Q 1/6806
	(51) G06N 5/02	(00) Change of Legal Entity

(71) VELOCITY BOLTING INC.	(71) SIEMENS ENERGY, INC.	(71) DOCAPOSTE TRUST & SIGN
(73) VELOCITY BOLTING INC.	(73) SIEMENS ENERGY, INC.	(73) DOCAPOSTE TRUST & SIGN
(11) EP2875245	(11) EP2013479	(11) EP2547036
(00) 17.10.2023	(00) 13.10.2023	(00) 18.10.2023
(51) F16B 43/00	(51) F04B 39/08	(51) H04L 9/32
(00) Change of owner(s) name	(00) Merge	G06Q 10/10
(71) 1000387690 Ontario Inc.	(71) EDILIANS	G06Q 50/18
(73) VELOCITY BOLTING INC.	(73) EDILIANS	G06F 21/64
(11) EP2875245	(11) EP3264594	(00) Assignment
(00) 17.10.2023	(00) 13.10.2023	(71) MICELL MEDTECH INC.
(51) F16B 43/00	(51) H02S 20/24	(73) MICELL MEDTECH INC.
(00) Assignment	H02S 20/30	(11) EP2696815
(71) Vegamour, Inc.	F24S 25/00	(00) 17.10.2023
(73) Vegamour, Inc.	F24S 25/10	(51) A61L 31/10
(11) EP3442497	F24S 25/11	A61L 31/16
(00) 16.10.2023	F24S 25/16	(00) Assignment
(51) A61K 8/64	F24S 25/60	(71) SIEMENS ENERGY, INC.
A61Q 7/00	(00) Assignment	(73) SIEMENS ENERGY, INC.
A61K 8/9789	(71) CNIM SYSTEMES INDUSTRIELS	(11) EP2971586
(00) Assignment	(73) Polar Ship Invest AS	(00) 13.10.2023
(71) CNV NewCo B.V.	(11) EP3247623	(51) F01D 11/02
(73) Collibra Belgium BV	(00) 13.10.2023	F01D 11/12
(11) EP2425382	(51) B63B 17/00	F01D 11/16
(00) 09.10.2023	B63B 21/00	F16J 15/44
(51) G06N 5/02	B63B 27/14	(00) Merge
(00) Merge	B63B 27/30	(71) Carbolt B.V.
(71) Collibra Belgium BV	(00) Assignment	(73) Carbolt B.V.
(73) Collibra Belgium BV	(71) Polar Ship Invest AS	(11) EP3231970
(11) EP2425382	(73) Polar Ship Invest AS	(00) 18.10.2023
(00) 09.10.2023	(11) EP3247623	(51) E05B 77/46
(51) G06N 5/02	(00) 13.10.2023	E05B 83/12
(00) Change of owner(s) name	(51) B63B 17/00	(00) Change of owner(s) name
(71) CNV Belgium BV	B63B 21/00	(71) SIEMENS ENERGY, INC.
(73) Collibra Belgium BV	B63B 27/14	(73) SIEMENS ENERGY, INC.
(11) EP2425382	B63B 27/30	(11) EP3255265
(00) 09.10.2023	(00) Assignment	(00) 13.10.2023
(51) G06N 5/02	(71) MICELL MEDTECH INC.	(51) F02C 1/10
(00) Merge	(73) MICELL MEDTECH INC.	F02C 6/14
(71) TORAY INDUSTRIES, INC.	(11) EP2313122	F28D 20/00
(73) TORAY INDUSTRIES, INC.	(00) 17.10.2023	(00) Merge
(11) EP2933333	(51) A61L 17/00	(71) Mariana Diamond Pty Ltd
(00) 12.10.2023	A61L 17/14	(73) Mariana Diamond Pty Ltd
(51) C12N 15/11	A61L 27/34	(11) EP3265311
C12N 15/113	A61L 27/50	(00) 17.10.2023
(00) Assignment	A61L 27/54	(51) A01G 13/02
(71) R-TEK MANUFACTURING LTD	A61L 29/08	B29C 55/06
(73) R-TEK MANUFACTURING LTD	A61L 29/14	B32B 27/32
(11) EP2812509	A61L 29/16	C08J 5/18
(00) 13.10.2023	A61L 31/10	C08L 23/08
(51) E04F 15/02	A61L 31/14	(00) Assignment
E04F 15/10	A61L 31/16	(71) Hydrox Technologies Pty Ltd
(00) Assignment	A61L 33/00	(73) Mariana Diamond Pty Ltd
(71) MICELL MEDTECH INC.	(00) Assignment	(11) EP3265311
(73) MICELL MEDTECH INC.	(71) DAF Trucks N.V.	(00) 17.10.2023
(11) EP1909973	Autoneum Management AG	(51) A01G 13/02
(00) 17.10.2023	(73) DAF Trucks N.V.	B29C 55/06
(51) A61L 2/00	Autoneum Management AG	B32B 27/32
A61L 31/10	(11) 2022726	C08J 5/18
A61L 31/16	(00) 16.10.2023	C08L 23/08
B05D 3/00	(51) B29C 51/00	(00) Assignment
(00) Assignment	B29C 51/08	(71) SIEMENS ENERGY, INC.
(71) Carbolt B.V.	B29C 51/14	(73) SIEMENS ENERGY, INC.
(73) Carbolt B.V.	B29C 51/16	(11) EP3655636
(11) EP3088254	B29C 51/30	(00) 13.10.2023
(00) 18.10.2023	B29K 75/00	(51) F02C 7/045
(51) B60R 9/10	B60R 13/08	F02C 7/24
(00) Change of owner(s) name	(00) Assignment	B33Y 10/00

(00) Merge

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(71) SIEMENS ENERGY, INC.

(73) SIEMENS ENERGY, INC.

(11) EP3237780

(00) 13.10.2023

(51) F16J 1/00

F16J 1/12

F02F 3/00

F04B 39/00

F04B 53/14

F02F 3/20

(00) Merge

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(71) ELHEE

(73) ELHEE

(11) EP3843686

(00) 17.10.2023

(51) A61J 9/00

(00) Assignment

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(71) SIEMENS ENERGY, INC.

(73) SIEMENS ENERGY, INC.

(11) EP3652424

(00) 13.10.2023

(51) F02C 1/10

F02C 6/14

F28D 20/00

(00) Merge

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(71) thyssenkrupp AG

thyssenKrupp Uhde GmbH

(73) thyssenkrupp AG

thyssenKrupp Uhde GmbH

(11) EP3766570

(00) 12.10.2023

(51) B01J 8/08

B01J 19/24

B01J 19/26

C08G 65/26

(00) Assignment

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**TVH**

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

## UP1

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

(11) EP3628013	(11) EP3855060	(11) EP3766387
(11) EP3720396	(11) EP4085747	(11) EP3825592
(11) EP3854425	(11) EP2833431	(11) EP3908537
(11) EP3999080	(11) EP3338932	(11) EP3938669
(11) EP2918262	(11) EP3644783	(11) EP4004125
(11) EP3749088	(11) EP3780853	(11) EP4004126
(11) EP3707308	(11) EP3898508	(11) EP3991070
(11) EP3844888	(11) EP3813613	(11) EP4010711
(11) EP3813928	(11) EP3832019	(11) EP4025144
(11) EP3639710	(11) EP3850142	(11) EP3970969
(11) EP3769261	(11) EP3885739	(11) EP4030770
(11) EP3969921	(11) EP3918267	(11) EP4192352
(11) EP3146119	(11) EP3736108	(11) EP3654168
(11) EP3328409	(11) EP3741404	(11) EP3887278
(11) EP3308874	(11) EP3919683	(11) EP3898828
(11) EP3645964	(11) EP3922621	(11) EP3701253
(11) EP3652514	(11) EP3757473	(11) EP3866703
(11) EP3611918	(11) EP3763669	(11) EP3897809
(11) EP3703577	(11) EP3818947	(11) EP3886816
(11) EP3645802	(11) EP3820265	(11) EP3892092
(11) EP3840414	(11) EP3822184	(11) EP3930415
(11) EP3774557	(11) EP3828528	(11) EP3868993
(11) EP3841856	(11) EP4005653	(11) EP3753593
(11) EP3775108	(11) EP3795291	(11) EP3816366
(11) EP3871427	(11) EP3990341	(11) EP3808867
(11) EP3864221	(11) EP3998899	(11) EP4011656
(11) EP3798220	(11) EP4003281	(11) EP3925369
(11) EP3864770	(11) EP4003282	(11) EP4027070
(11) EP3896225	(11) EP4017710	(11) EP3854737
(11) EP3868452	(11) EP3996855	(11) EP3595528
(11) EP3869112	(11) EP4004398	(11) EP3740345
(11) EP3961162	(11) EP3817535	(11) EP3924274
(11) EP3693528	(11) EP3903644	(11) EP4196559
(11) EP3721735	(11) EP3907712	(11) EP3554730
(11) EP3881726	(11) EP3919505	(11) EP3604669
(11) EP3925900	(11) EP3915791	(11) EP3801358
(11) EP3770432	(11) EP4001168	(11) EP3843962
(11) EP3804706	(11) EP4008603	(11) EP3833160
(11) EP3797966	(11) EP4012356	(11) EP3747649
(11) EP3778439	(11) EP4039791	(11) EP3726320
(11) EP3824372	(11) EP3988617	(11) EP3825138
(11) EP3969332	(11) EP4062874	(11) EP3938759
(11) EP3935281	(11) EP4098784	(11) EP4124438
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(11) EP3986491	(11) EP3520751	(11) EP4085991
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(11) EP3996834	(11) EP3601126	(11) EP3886566
(11) EP3983187	(11) EP3849840	(11) EP3885057
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(11) EP3908336	(11) EP4048539	(11) EP4013495
(11) EP4114727	(11) EP3927592	(11) EP3892555
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(11) EP4001757	(11) EP3878316	(11) EP4031529
	(11) EP3865242	(11) EP3609846



(11) EP3682243	(11) EP3669914	(11) EP3894758
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(11) EP4098154	(11) EP3761207	(11) EP4060122
(11) EP3313590	(11) EP3569789	(11) EP4063581
(11) EP3311992	(11) EP3732054	(11) EP4089017
(11) EP3559387	(11) EP3809907	(11) EP4071067
(11) EP3525738	(11) EP3768852	(11) EP4079404
(11) EP3563753	(11) EP3779376	(11) EP4146545
(11) EP3410404	(11) EP3804656	(11) EP3526268
(11) EP3441503	(11) EP3871685	(11) EP3676075
(11) EP3679310	(11) EP3897817	(11) EP3976955
(11) EP3587067	(11) EP4011859	(11) EP3760783
(11) EP3824150	(11) EP4003753	(11) EP3826749
(11) EP3727588	(11) EP4003385	(11) EP3923684
(11) EP3669435	(11) EP4028315	(11) EP4019077
(11) EP3684454	(11) EP4045714	(11) EP4072314
(11) EP3761430	(11) EP4024056	(11) EP3901000
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## **UP2**

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

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

### **UP3**

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

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

**UP4**

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

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

## **UP5**

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

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

## **UP6**

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

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